eTime Xpress Web Services API

(For version 8.000.010)



Celayix Software Workforce Management Solutions

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Introduction

The eTime Xpress Web Services API is a full featured interface to the eTime Xpress business logic. A developer can build applications that read, create, update and delete eTime information objects such as employees, customers, sites, services and shifts as well as execute eTime Xpress functions like employee availability.

This document is intended for developers and assumes you are familiar with software development, web services and eTime Xpress.

eTime Xpress Web Services API supports the following W3C specifications: WSDL - WSDL 1.1 is the de facto standard according to the W3C SOAP - SOAP 1.1 HTTP Binding is the de facto standard according to the W3C XML Schema - W3C 2001 XML Schema Recommendation

Additional eTime Xpress Web Services API documents: * eTime Xpress Web Services API Datasets - Detailed information about the data used in the operations. * eTime Xpress Web Services API Examples - SOAP request and response examples. Steps to get started:

Review the documentation.
 Get the most recent version of eTimeWS.wsdl file for your eTime Xpress version and generate Web references.
 Execute the Check Login operation with correct username and password to get session id.
 Use the generated session id to execute operations.
 For each operation submit a synchronous request to the Web service, await the response, and process the results.

Check Login

Operation:	apSrv INPUT-OUTPUT dsContext	
Description:	This operation creates a new session in the system and re- unique identifier (logs in the user in the system).	turns its
	NOTE: - If the specified user credentials (pcUserID and pcPasswo not valid, the returned value of the pcSessionID parameter empty. - The obtained value of the pcSessionID parameter should b in all other Web Service operations as a required parameter	r will be be used
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	ors.
	EXAMPLE: See eTime Xpress Web Services API Examples - Check Login.	
User Security:	N/A	
Parameters: Name	Description	Туре
INPUT PARAMETH	IRS	
pcUserID	Unique User ID, under which the operation is executed.	Required
	Values: <any string=""></any>	
pcPassword	Values: <any string=""> Password string. Values: Values: <any string=""></any></any>	Required
pcPassword OUTPUT PARAMET	Password string. Values: <any string=""></any>	Required
	Password string. Values: <any string=""></any>	Required

Values: See Errors part below

dsContext dataset.

Errors: ID

Description

NO_CONTEXT_DATA,<comma separated list of missed context data>
List of context fields that are required for service and are not defined.
Level: OPERATION
RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE
More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1435
This function is not licensed. Level: OPERATION
RUN_ERROR,1450
User ID and password combination does not match. Level: OPERATION
RUN_ERROR,1455
User ID is Inactive or Void. Unable to logon. Level: OPERATION
RUN_ERROR,LOCKED_CONTEXT_DATA
Context record is currently locked. Level: OPERATION
RUN_ERROR,RESET
Internal error used for login. Level: OPERATION

Operation:	apSrvEmpGet	
-	INPUT-OUTPUT dsContext, OUTPUT dsEmployee	
Description:	This operation retrieves information about existing employe the system.	es in
	ENTITY TABLE: dsEmployee.ttEmployee FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsEmployee Dataset KEY FIELDS: cid, eid	sets -
	<pre>Fields returned by this operation can be of the following t types: - DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and - SYSTEM FIELDS, required for system purposes.</pre>	e of n in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	ŝ.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Employees.	
User Security:	Employee Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string.	Required
	Values: <any string=""></any>	
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records.</empty>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: employee.eid > 100 Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by employee.emshort Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	<pre>eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be</pre>	Optional
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Name	Description	Туре
NPUT PARAMETERS		
	<pre>read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Option
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Option
pcBatchKey	A Batch Key is ttEmployee.eid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Option
pcBatchDirection	<pre>Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT</pre>	Option
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record. In case of the success, the original Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key	Optiona

Name	Description	Туре
INPUT PARAMETERS		
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeyEvachOK parameter, and the Batch Key value of the returned record will be returned in the plBatchNeyEterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

Name		Description	Туре
UTPUT PARAMET	ERS		
plBatchKeySearc	hOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found;	
		NO - The record was NOT found.	
plBatchReturned	ExtraData	<pre>Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data;</pre>	
		NO - The operation did NOT return extra data.	
plBatchOneLette	rSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rrors:			
ID	Descriptio	n	
RUN_ERROR, WRON		A_SERVICE We service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Record is no	ot available. Level: RECORD	
RUN_ERROR,1240	You do not h OPERATION, R	ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1435	mbia funatio	n is not licensed. Level: OPERATION	
		I IS NOT TICENSED. LEVEL. OPERATION	
RUN_ERROR,1965	There are wr	ong fields in the requested list: &1. Level: RECORD	
RUN ERROR,1980,			
KUN_EKKUK,1980,		g> Y string: &1. Level: OPERATION	
RUN ERROR TNVAT		TA, <context name="" parameter=""> + <tab> + <comma-separated list="" o:<="" td=""><td></td></comma-separated></tab></context>	
available value	s>	neter's value must be one of the following: &2. Level:	_
	OPERATION		
RUN_ERROR,LOCKE			
	Context reco	ord is currently locked. Level: OPERATION	
RUN_ERROR,Servi (#1170)		ilure: Company/Branch access has not been set up for this use:	r.
	[%Company%]/ OPERATION	[%Branch%] access has not been set up for this user. Level:	
RUN_ERROR,Servi	ce Session fa	ilure: Invalid Session ID. (#1670)	
	Invalid Sess	sion ID. Level: OPERATION	
RUN_ERROR,Servi	ce Session fa	ilure: User ID is not valid. Contact your system administrato:	r for
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rors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

piBranchID

Operation:	apSrvEmpSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsEmployee	
Description:	This operation creates new and/or updates information above existing employees in the system.	ıt
	ENTITY TABLE: dsEmployee.ttEmployee FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsEmployee Dataset KEY FIELDS: cid, eid MANDATORY FIELDS: cid, bid, eid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
	The cChkNew field is used as a record mode flag and can have following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of the plImportEnableUpdate parameter is set to YES (default), and is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the nd there 5 as in record
	NOTE: To add new employees (ADD record mode), the followin conditions should be met: - If Company settings Automatic Employee ID Assignment = I the values of the KEY FIELDS should be unique in the syste Automatic Employee ID Assignment = YES, then the system we assign automatically generated value to the eid field of n records, and ignore value passed in the input dataset. - The emshort field of new records should be unique within current Company.	NO, then em. If ill new
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to o RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	detect lds will ot stop:
	EXAMPLE: See eTime Xpress Web Services API Examples - Add, Employees.	/Update
User Security:	Employee Web Services> ADD Employee Web Services> UPDATE	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required

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Branch ID (unique within the Company).

Required

Parameters: Name	Description	Туре
NPUT PARAMETERS		
	Values: 1999	
pcUpdateRequestFieldsList	<pre>"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	-
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID Descripti	lon	
	wrated list of missed context data> Netext fields that are required for service and are not defined. NATION	
RUN_ERROR, WRONG_CONTEXT_DA	—	
RUN_ERROR, 1005	one service is set to be run by one call. Level: OPERATION	
Invalid ent	ry. Level: RECORD	

rors: ID	Description
	Required entry. Level: RECORD
RUN_ERROR,1020	Record already exists. Level: RECORD
	Record already exists. Level: RECORD
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN_ERROR,1030	
	Start date cannot be greater than the End date. Level: RECORD
RUN_ERROR,1065	
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1135	
	The software is not configured use. Contact customer support for
	assistance. Level: OPERATION
RUN ERROR, 1225	
	No records found. Level: OPERATION
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1685	
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1700	
	Invalid [%Employee%] ID. Level: RECORD
RUN_ERROR,1710	
	[%Employee%] ID cannot be 0. Level: RECORD
RUN_ERROR,1715	
Kon_Bickon,1,15	Records with a status of Archived cannot be created. Level: RECORD
RUN_ERROR,1720	
	This [%employee%] is archived. Status cannot be changed. Level: RECORD
RUN_ERROR,1725	
	Only void records can be archived. Level: RECORD
RUN_ERROR,1/30,	<pre><employee count="" license=""></employee></pre>
	[%Employee%] license count of &1 has been exceeded unable to add new [%employee%]. Level: RECORD
RUN_ERROR,1735,	<pre><employee count="" license=""></employee></pre>
	Cannot restore. [%Employee%] license count of &1 has been exceeded. Level: RECORD
RUN_ERROR,1740,	<pre><wait days="" in="" period=""></wait></pre>
	Cannot restore. If the total number of employee records in the database exceed
	the licensed employee count, archived records cannot be restored for a
	period of &1 days. Level: RECORD
RUN_ERROR,1745, + <branch and<="" id="" td=""><td><employee id=""> +<tab>+ <employee full="" name=""> +<tab> + <company and="" id="" name=""> + <tab></tab></company></tab></employee></tab></employee></td></branch>	<employee id=""> +<tab>+ <employee full="" name=""> +<tab> + <company and="" id="" name=""> + <tab></tab></company></tab></employee></tab></employee>
and and	
	[%Employee%] ID &1 is already being used by &2 in [%company%] &3/[%branch%] &4. Level: RECORD
KUN_ERROR,1755,	<pre><fields label=""> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level:</max></tab></fields></pre>
	THE AT THEIR'S SIZE EXCEEDS MAXIMUM SIZE: W/ CHARACTAR(S) LAVAL:

ID	Description			
RUN_ERROR,1760, <fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields>				
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD			
RUN_ERROR,1765	<pre>,<fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>			
	The &1 field's value must be one of the following: &2. Level: RECORD			
RUN_ERROR,1965				
	There are wrong fields in the requested list: &1. Level: RECORD			
RUN_ERROR,2185				
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD			
RUN_ERROR,INVA available valu	LID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">es> The &1 parameter's value must be one of the following: &2. Level: OPERATION</comma-separated></tab></context>			
RUN_ERROR,LOCKI	ED_CONTEXT_DATA			
	Context record is currently locked. Level: OPERATION			
RUN_ERROR,Serv: (#1170)	ice Session failure: Company/Branch access has not been set up for this user.			
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION			
RUN_ERROR,Serv:	ice Session failure: Invalid Session ID. (#1670)			
	Invalid Session ID. Level: OPERATION			
RUN_ERROR,Serv: assistance. (#	ice Session failure: User ID is not valid. Contact your system administrator for #1460)			

Delete Employees

Operation:apSrvEmpSave
INPUT-OUTPUT dsContext, INPUT-OUTPUT dsEmployeeDescription:This operation deletes existing employees from the system.ENTITY TABLE:dsEmployee.ttEmployee
FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets -
dsEmployee Dataset
KEY FIELDS:KEY FIELDS:cid, eid
MANDATORY FIELDS:

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Employees.

User Security: Employee Web Services --> DELETE

Description	Туре
Action for present operation. Values: DELETE - Delete action is requested	Required
Unique Session ID string. Values: <any string=""></any>	Required
Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
Unique Company ID. Values: 1999	Required
Branch ID (unique within the Company). Values: 1999	Required
Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset.	
	Action for present operation. Values: DELETE - Delete action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <<empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output</empty></any></any></any>

ID Description

Delete Employees

ID	Description
NO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN ERROR,1065	
non_hanny1005	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1195	Shifts for this [%employee%] exist in the schedule. Unable to delete. Level: RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN ERROR,1540	
	Record is currently being used in the system. Cannot delete. Level: RECORD
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1700	
	Invalid [%Employee%] ID. Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAL available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" ss=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvQualifGet INPUT-OUTPUT dsContext, OUTPUT dsQualif	
Description:	This operation retrieves information about existing employed qualifications from the system.	e
	ENTITY TABLE: dsQualif.ttQualif FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsQualif Dataset KEY FIELDS: cid, eid, qualcd	ets -
	Fields returned by this operation can be of the following to types: - DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and - SYSTEM FIELDS, required for system purposes.	e of in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	s.
	EXAMPLE: See eTime Xpress Web Services API Examples - Emplo Qualifications.	yee
User Security:	Employee Qualifications Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Employee's Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: qualif.effdate = TODAY Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by qualif.effdate Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	<pre>eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be</pre>	Optional
	Page 19 of 267	

Name	Description	Туре
NPUT PARAMETERS		
	<pre>read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated></pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is (ttQualif.eid + <tab> + ttQualif.QualCd) value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any></tab>	Option
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Option
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record in case of the success, the original Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key	Optiona

Name	Description	Type
INPUT PARAMETERS		
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeySearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkey1> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab>+ <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></tab></tab></pcbatchkey2></tab></tab></pcbatchkey1></tab>	
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

Name		Description	Туре
ITPUT PARAMET	ERS		
plBatchKeySearchOK		Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful.	
		Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData		Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data;	
		NO - The operation did NOT return extra data.	
plBatchOneLette	erSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string.	
		Values: <any string=""></any>	
rors:			
ID ID	Descriptio	n	
NO_CONTEXT_DATA		ated list of missed context data>	
	List of cont Level: OPERA	ext fields that are required for service and are not defined.	
RUN_ERROR, WRON		—	
RUN_ERROR, WRON		A_SERVICE e service is set to be run by one call. Level: OPERATION	
RUN_ERROR, WRON		—	
	More than on	—	
RUN_ERROR,1060	More than on	e service is set to be run by one call. Level: OPERATION	
	More than on Record is no	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	More than on Record is no You do not h	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1060	More than on Record is no You do not h OPERATION, R	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	More than on Record is no You do not h OPERATION, R	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	More than on Record is no You do not h OPERATION, R This functio	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	More than on Record is no You do not h OPERATION, R This functio	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	More than on Record is no You do not h OPERATION, R This functio There are wr	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965	More than on Record is no You do not h OPERATION, R This function There are wr , <query strin<="" td=""><td>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD</td><td></td></query>	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA</query>	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	More than on Record is no You do not h OPERATION, R This function There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA</query>	e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	More than on Record is no You do not h OPERATION, R This function There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA ES> The &1 param OPERATION</query>	<pre>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" be="" following:="" level:<="" list="" meter's="" must="" of="" one="" pre="" the="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAL available value	More than on Record is no You do not h OPERATION, R This function There are wr , <query strin<br="">Invalid QUER CONTEXT_DA The &1 param OPERATION</query>	<pre>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" be="" following:="" level:<="" list="" meter's="" must="" of="" one="" pre="" the="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAL available value RUN_ERROR,LOCKE	More than on Record is no You do not h OPERATION, R This function There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA S> The &1 param OPERATION CONTEXT_DAT. Context reco</query>	<pre>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" a="" be="" currently="" eter's="" following:="" is="" level:="" list="" locked.="" must="" of="" one="" operation<="" pre="" rd="" the="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAL available value RUN_ERROR,LOCKE	More than on Record is no You do not h OPERATION, R This function There are wr (<query strin<br="">Invalid QUER CID_CONTEXT_DA SS> The &1 param OPERATION SD_CONTEXT_DAT. Context reco Context reco Context reco</query>	<pre>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" a<="" be="" following:="" level:="" list="" meter's="" must="" of="" one="" pre="" the="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1965 RUN_ERROR,1960, RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE RUN_ERROR,Servi	More than on Record is no You do not h OPERATION, R This function There are wr Invalid QUER CID_CONTEXT_DA CONTEXT_DAT CONTEXT_DAT CONTEXT_CON	<pre>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" a="" access="" be="" been="" branch="" company="" currently="" eter's="" following:="" for="" has="" ilure:="" is="" level:="" list="" locked.="" must="" not="" of="" one="" operation="" pre="" rd="" set="" the="" this="" up="" user<="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	More than on Record is no You do not h OPERATION, R This function There are wr , <query strin<br="">Invalid QUER CONTEXT_DA ED_CONTEXT_DAT CONTEXT_DAT CONTEXT_DAT CONTEXT_DAT CONTEXT_CONTEXT_DAT CONTEXT_CON ED_CON ED_CO</query>	<pre>e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" a="" access="" be="" been="" branch="" company="" currently="" eter's="" following:="" for="" has="" ilure:="" is="" level:="" list="" locked.="" must="" not="" of="" one="" operation="" pre="" rd="" set="" the="" this="" up="" user<="" value=""></comma-separated></tab></context></pre>	

rors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Employee Qualifications

Operation:	apSrvQualifSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsQualif	
Description:	This operation creates new and/or updates information above existing employee qualifications in the system.	ut
	ENTITY TABLE: dsQualif.ttQualif FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsQualif Dataset KEY FIELDS: cid, eid, qualcd MANDATORY FIELDS: cid, bid, eid, qualcd IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
	The cChkNew field is used as a record mode flag and can have following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of the plImportEnableUpdate parameter is set to YES (default), and is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the nd there 5 as in record
	NOTE: To add new employee qualifications (ADD record mode following condition should be met: - The values of the KEY FIELDS should be unique in the sys	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to o RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Empl	detect lds will ot stop: peration
User Security:	Qualifications. Employee Qualifications Web Services> ADD	гоуее
_	Employee Qualifications Web Services> UPDATE	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcUpdateRequest	"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined.	Optional

Add/Update Employee Qualifications

Name		Descrip	ption	Туре
INPUT PARAMETE	RS			
		Values:	<pre>* - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	
			<pre><comma-separated list=""> - List of DATA fields that will be updated; <empty string=""> - All DATA fields will be</empty></comma-separated></pre>	
		Default:	<pre>updated excluding pcUpdateExceptFieldsList fields <empty string=""></empty></pre>	
pcUpdateExceptF	ieldsList	excluded pcUpdate the para Values:	separated list of DATA fields that will be from update by the present operation when RequestFieldsList is empty or "*". Otherwise, meter will be ignored. <any corresponds="" description="" string="" that="" the="" to=""> <empty string=""></empty></any>	Optiona:
plImportEnableU	pdate	existing records (have emp	pecifying whether the present operation can update records. This parameter is applicable only to the in the table, which are in the AUTO DETECT mode pty value of the cChkNew field). YES - Allows to update existing records; NO - Does not allow to update existing records. YES	
plUseBeforeImag	e	input/ou concurre Operatio ENTITY da	YES - Enables the concurrency mode; NO - Does not enable the concurrency mode.	-
pcConcurrencyFi	eldList	for the or it is FIELDS. Values:	<pre>separated list of DATA FIELDS that will be used concurrency check. If the list is empty string not defined, the operation will use all DATA <any corresponds="" description="" string="" that="" the="" to=""> <empty string=""></empty></any></pre>	Optiona
OUTPUT PARAMET	ERS			
ExecuteStatus		errors, dsContex	n status. If there are no OPERATION level this parameter will be excluded from the output t dataset. See Errors part below	
Errors:				
ID ID	Description	L		
NO CONTEXT DATA	. <comma separat<="" td=""><td>ted list o</td><td>f missed context data></td><td></td></comma>	ted list o	f missed context data>	
		kt fields	that are required for service and are not defined.	
RUN_ERROR, WRON		_	s set to be run by one call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry	. Level: R	ECORD	
RUN_ERROR,1020	Record alread	v exists.	Level: RECORD	
RUN_ERROR,1240				
MON_BRACK, 1240	You do not hav OPERATION, REG		y privileges to access this function. Level:	

Add/Update Employee Qualifications

rors: ID	Description			
RUN ERROR,1435				
non_inter() i i oo	This function is not licensed. Level: OPERATION			
RUN_ERROR,1555				
	Effective date cannot be greater than the expiry date. Level: RECORD			
RUN_ERROR,1685				
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD			
RUN_ERROR,1700				
	Invalid [%Employee%] ID. Level: RECORD			
RUN_ERROR,1755,	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>			
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD			
RUN_ERROR,1760,	<fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields>			
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD			
RUN_ERROR,1765,	<fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields>			
	The &1 field's value must be one of the following: &2. Level: RECORD			
RUN_ERROR,1965				
	There are wrong fields in the requested list: &1. Level: RECORD			
RUN_ERROR,2185				
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD			
RUN_ERROR,INVAI available value	.ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>			
	The &1 parameter's value must be one of the following: &2. Level: OPERATION			
RUN_ERROR,LOCKE	D_CONTEXT_DATA			
	Context record is currently locked. Level: OPERATION			
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.			
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION			
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)			
	Invalid Session ID. Level: OPERATION			
RUN_ERROR,Servi assistance. (‡	ce Session failure: User ID is not valid. Contact your system administrator for 1460)			
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION			

Delete Employee Qualifications

Operation: apSrvQualifSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsQualif

Description: This operation deletes existing employee qualifications from the system.

ENTITY TABLE: dsQualif.ttQualif FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsQualif Dataset KEY FIELDS: cid, eid, qualcd MANDATORY FIELDS: cid, bid, eid, qualcd

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Employee Qualifications.

User Security: Employee Qualifications Web Services --> DELETE

Parameters: Name	Description	Туре
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	

ID Description

Delete Employee Qualifications

Name	Description	Туре
TPUT PARAMET	ERS	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined. Level: OPERATION	
RUN_ERROR, WROL	NG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025		
	Record is currently locked. Level: RECORD	
RUN_ERROR,1065		
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435		
	This function is not licensed. Level: OPERATION	
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR,1700	Invalid [%Employee%] ID. Level: RECORD	
RUN_ERROR,2185	Record has been changed by another user or system process. Refresh recommended. Level: RECORD	
RUN_ERROR, INVA	LID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated c<="" list="" td=""><td>of.</td></comma-separated></tab></context>	of.
	The &1 parameter's value must be one of the following: &2. Level: OPERATION	
RUN_ERROR,LOCK	ED_CONTEXT_DATA	
	Context record is currently locked. Level: OPERATION	
RUN_ERROR,Serv: (#1170)	ice Session failure: Company/Branch access has not been set up for this use	er.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION	
RUN_ERROR,Serv	ice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION	
RUN_ERROR,Serv	ice Session failure: User ID is not valid. Contact your system administrato #1460)	or for
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION	

Operation:	apSrvCallLogGet INPUT-OUTPUT dsContext, OUTPUT dsCallLog		
Description:	This operation retrieves information about existing employee call log records from the system.		
	ENTITY TABLE: dsCallLog.ttCallLog FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsCallLog Dataset KEY FIELDS: callid	sets -	
	Fields returned by this operation can be of the following	three	
	 types: DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more informatio description of the Add/Update operation), CALCULATED FIELDS, whose values are calculated on the ba the "raw" data, and SYSTEM FIELDS, required for system purposes. 	n in the	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	rs.	
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Employee Call Log Records.		
User Security:	Call Log Web Services> READ		
Parameters: Name	Description	Туре	
INPUT PARAMETE	RS		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required	
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required	
piCompanyID	Unique Company ID. Values: 1999	Required	
piBranchID	Branch ID (unique within the Company). Values: 1999	Required	
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: calllog.callcd <> "CD" Values: <any string=""></any>	Required	
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by calllog.callcd Values: <any string=""> Default: <empty string=""></empty></any>	Optional	
pcReadRequestFi	<pre>ieldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""> </empty></empty></comma-separated></pre>		

arameters: Name	Description	Туре
IPUT PARAMETERS		
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttCalllog.callid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified	Optiona

Name	Description	Туре
NPUT PARAMETERS		
	character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character td="" to<=""><td></td></character></tab></tab>	
	<pre>search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey.</current></current></pre>	
	 a) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will</string> 	
	be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a	
	first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified	
	string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the	
	plBatchKeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchOneLetterSearchKey parameter. Values: <any string=""></any>	
	Default: <empty string=""></empty>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab+ <pcbatchkey1=""> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></tab+></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	
plBatchKeySearchOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful.	
	Values: YES - The record was found; NO - The record was NOT found.	

Name		Description	Туре
TPUT PARAMET	ERS		
plBatchReturned	ExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLette	rSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors:			
ID	Descriptio	on	
NO_CONTEXT_DATA		ated list of missed context data> ext fields that are required for service and are not defined. TION	
RUN_ERROR, WRON		A_SERVICE e service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Record is no	t available. Level: RECORD	
RUN_ERROR,1240	You do not have security privileges to access this function. Level: OPERATION, RECORD		
RUN_ERROR,1435	This function is not licensed. Level: OPERATION		
RUN_ERROR,1965	There are wrong fields in the requested list: &1. Level: RECORD		
RUN_ERROR,1980,	, <query string=""> Invalid QUERY string: &1. Level: OPERATION</query>		
RUN_ERROR,INVAL available value	s>	TA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	f
RUN_ERROR,LOCKE	D_CONTEXT_DAT	A rd is currently locked. Level: OPERATION	
RUN_ERROR,Servi (#1170)		ilure: Company/Branch access has not been set up for this use [%Branch%] access has not been set up for this user. Level:	r.
RUN_ERROR,Servi		ilure: Invalid Session ID. (#1670) ion ID. Level: OPERATION	
RUN_ERROR,Servi assistance. (#		ilure: User ID is not valid. Contact your system administrato	r for
	User ID is n Level: OPERA	ot valid. Contact your system administrator for assistance. TION	

Add/Update Employee Call Log Records

Operation:	apSrvCallLogSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsCallLog		
Description:	This operation creates new and/or updates information about existing employee call log records in the system.		
	ENTITY TABLE: dsCallLog.ttCallLog FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsCallLog Dataset KEY FIELDS: callid MANDATORY FIELDS: cid, bid, callid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields		
	The cChkNew field is used as a record mode flag and can have following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of the plImportEnableUpdate parameter is set to YES (default), and is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the nd there 3 as in record	
	NOTE: The system will assign automatically generated value Call Log ID (callid) field of new records.	es to the	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to o RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	letect ds will ot stop:	
	EXAMPLE: See eTime Xpress Web Services API Examples - Add, Employee Call Log Records.	Update	
User Security:	Call Log Web Services> ADD Call Log Web Services> UPDATE		
Parameters: Name	Description	Туре	
INPUT PARAMETE	RS		
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required	
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required	
piCompanyID	Unique Company ID. Values: 1999	Required	
piBranchID	Branch ID (unique within the Company). Values: 1999	Required	
pcUpdateRequest	<pre>"#" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be</pre>	Optional	

Add/Update Employee Call Log Records

Parameters: Name	Description	Туре
INPUT PARAMETER	S	
	updated excluding pcUpdateExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be updated; <empty string=""> - All DATA fields will be</empty></comma-separated>	
	updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty>	
pcUpdateExceptFi	<pre>eldsList A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any></pre>	Optional
plImportEnableUp	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	-
pcConcurrencyFie	IdList A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETE	RS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID	Description	
NO_CONTEXT_DATA,	<comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined. Level: OPERATION	
	_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN ERROR,1005		
	Invalid entry. Level: RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: DPERATION, RECORD	
RUN_ERROR,1435		
	This function is not licensed. Level: OPERATION	

RUN_ERROR,1685

Add/Update Employee Call Log Records

[D	Description
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1	700
	Invalid [%Employee%] ID. Level: RECORD
RUN_ERROR,1	755, <fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1	760, <fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields>
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD
RUN_ERROR,1	765, <fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR, 19	965
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2	185
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,II available va	NVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated alues="" list="" of=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LO	OCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Se (#1170)	ervice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR, Se	ervice Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Se assistance.	ervice Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Employee Call Log Records

Operation: apSrvCallLogSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsCallLog Description: This operation deletes existing employee call log records from the system. ENTITY TABLE: dsCallLog.ttCallLog FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsCallLog Dataset KEY FIELDS: callid MANDATORY FIELDS: cid, bid, callid ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors

Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Employee Call Log Records.

User Security: Call Log Web Services --> DELETE

Parameters: Name	Description	Type
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	

ID Description

Delete Employee Call Log Records

Name	Description	Туре
TPUT PARAMETERS		
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025		
	Record is currently locked. Level: RECORD	
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR,1700		
	Invalid [%Employee%] ID. Level: RECORD	
RUN_ERROR,2185		
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD	
RUN_ERROR,INVAI available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" list<="" operated="" td=""><td>of</td></comma-separated></tab></context>	of
	The &1 parameter's value must be one of the following: &2. Level: OPERATION	
RUN_ERROR,LOCKE	ED_CONTEXT_DATA	
	Context record is currently locked. Level: OPERATION	
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this use	er.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION	
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)	
-	Invalid Session ID. Level: OPERATION	
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrato	or for
	User ID is not valid. Contact your system administrator for assistance.	

_		
Operation:	apSrvCustGet INPUT-OUTPUT dsContext, OUTPUT dsCustomer	
escription:	This operation retrieves information about existing custome the system.	ers from
	ENTITY TABLE: dsCustomer.ttCustomer FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsCustomer Dataset KEY FIELDS: cid, bid, uid	sets -
	Fields returned by this operation can be of the following t	hree
	<pre>types: - DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and - SYSTEM FIELDS, required for system purposes.</pre>	e of 1 in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	S.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Customers.	
Ser Security:	Customer Web Services> READ	
arameters: Name	Description	Туре
NPUT PARAMETER		11
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records.</empty>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: customer.uid > 100 Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by customer.csname Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be	Optional
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Name	Description	Туре
NPUT PARAMETERS		
	<pre>read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Option
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Option
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Option
pcBatchKey	A Batch Key is ttCustomer.uid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Option
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Option
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record. In case of the success, the original Batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	Option
		Option

Name	Description	Туре
INPUT PARAMETERS		_
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKeyValue parameter value format as pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeestearchKey parameter. Values: <any string=""> Default: <empty string=""> Default: <empty string=""></empty></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab>+ <pcbatchkeyn>. If <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></pcbatchkeyn></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: www.separated.com Values: www.separated.com to the description>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

Name		Description	Туре
JTPUT PARAMET	ERS		
plBatchKeySearc	SHOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturned	lExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLette	erSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors: ID	Descriptio		
	Descriptio		
	List of cont Level: OPERA	ext fields that are required for service and are not defined. TION	
RUN_ERROR, WRON		—	
RUN_ERROR, WRON RUN_ERROR,1060	More than on	CA_SERVICE The service is set to be run by one call. Level: OPERATION The available. Level: RECORD	
	More than on Record is no	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level:	
RUN_ERROR,1060	More than on Record is no You do not h OPERATION, R	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: LECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	More than on Record is no You do not h OPERATION, R	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	More than on Record is no You do not h OPERATION, R This functio	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: LECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<="" td=""><td>The service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: NECORD on is not licensed. Level: OPERATION fields in the requested list: &1. Level: RECORD hg></td><td></td></query>	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: NECORD on is not licensed. Level: OPERATION fields in the requested list: &1. Level: RECORD hg>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER</query>	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD Have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION Frong fields in the requested list: &1. Level: RECORD Hy string: &1. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA</query>	<pre>de service is set to be run by one call. Level: OPERATION ot available. Level: RECORD deave security privileges to access this function. Level: EECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD ge> EY string: &1. Level: OPERATION CTA,<context name="" parameter=""> + <tab> + <comma-separated comma-separated="" list="" list<="" of="" td=""><td></td></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA</query>	The service is set to be run by one call. Level: OPERATION of available. Level: RECORD Have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION Frong fields in the requested list: &1. Level: RECORD Hy string: &1. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA SS> The &1 param OPERATION</query>	<pre>we service is set to be run by one call. Level: OPERATION ot available. Level: RECORD we security privileges to access this function. Level: EECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD eg> EY string: &1. Level: OPERATION STA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" be="" ca<="" following:="" level:="" list="" meter's="" must="" of="" one="" pre="" the="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAI available value	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA SS> The &1 param OPERATION</query>	<pre>he service is set to be run by one call. Level: OPERATION ot available. Level: RECORD have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION rong fields in the requested list: &1. Level: RECORD hg> LY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level:</comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAI available value RUN_ERROR,LOCKE	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CID_CONTEXT_DA SD_CONTEXT_DAT Context reco Lice Session fa</query>	<pre>he service is set to be run by one call. Level: OPERATION ht available. Level: RECORD have security privileges to access this function. Level: EECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD gy EY string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" access="" be="" been="" branch="" ca="" company="" currently="" following:="" for="" has="" is="" level:="" list="" locked.="" must="" not="" of="" one="" operation="" ord="" pre="" set="" teter's="" the="" this="" tilure:="" up="" user<="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CONTEXT_DA CONTEXT_DAT CONTEXT_DAT Context reco ice Session fa [%Company%]/ OPERATION</query>	<pre>he service is set to be run by one call. Level: OPERATION he available. Level: RECORD have security privileges to access this function. Level: HECORD he is not licensed. Level: OPERATION her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list: &1. Level: RECORD her ong fields in the requested list of the following: &2. Level: her ong of the following: &3. Level: her ong of the following:</pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER CONTEXT_DA CONTEXT_DAT CONTEXT_DAT Context reco ice Session fa [%Company%]/ OPERATION</query>	<pre>he service is set to be run by one call. Level: OPERATION ht available. Level: RECORD have security privileges to access this function. Level: EECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD gy EY string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" access="" be="" been="" branch="" ca="" company="" currently="" following:="" for="" has="" is="" level:="" list="" locked.="" must="" not="" of="" one="" operation="" ord="" pre="" set="" teter's="" the="" this="" tilure:="" up="" user<="" value=""></comma-separated></tab></context></pre>	

rors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

INPUT PARAMETE	RS	
Parameters: Name	Description	Туре
User Security:	Customer Web Services> ADD Customer Web Services> UPDATE	
	EXAMPLE: See eTime Xpress Web Services API Examples - Add Customers.	/Update
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to o RECORD level errors. If such an error occurred, these fields contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	detect lds will ot stop:
	Setting the value of the Bill address same as above field will not copy values from the Contact Address to the corre Bill Address fields. This field can be used only as an ind that this assignment was performed before.	esponding
	NOTE: To add new customers (ADD record mode), the followin conditions should be met: - If Company settings Automatic Customer ID Assignment = I the values of the KEY FIELDS should be unique in the syste Automatic Customer ID Assignment = YES, then the system we assign automatically generated value to the uid field of records, and ignore value passed in the input dataset. - The csshort field of new records should be unique within current Company.	NO, then em. If ill new
	The cChkNew field is used as a record mode flag and can had following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of r plImportEnableUpdate parameter is set to YES (default), and is already a record in the system with the same KEY FIELD the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the nd there 5 as in record e.
	ENTITY TABLE: dsCustomer.ttCustomer FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsCustomer Dataset KEY FIELDS: cid, bid, uid MANDATORY FIELDS: cid, bid, uid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
Description:	This operation creates new and/or updates information above existing customers in the system.	ut

Name	Description	Туре
NPUT PARAMETERS		
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Require
piCompanyID	Unique Company ID. Values: 1999	Require
piBranchID	Branch ID (unique within the Company). Values: 1999	Require
pcUpdateRequestFieldsList	<pre>"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	Optiona
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableUpdate	<pre>A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the CChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES</pre>	Optiona
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurrency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optiona
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
plSiteRefreshRequired	<pre>Flag that indicates that site information is changed during update. Values: YES - Site's data were changed. Refresh Site data</pre>	Optiona

Name	Description	Туре
TPUT PARAMETERS		
NO_CONTEXT_DAT.	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined. Level: OPERATION	
RUN_ERROR, WRO	NG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry. Level: RECORD	
RUN_ERROR,1015	Required entry. Level: RECORD	
RUN_ERROR,1025		
RUN_ERROR,1030		
RUN_ERROR,1050	Start date cannot be greater than the End date. Level: RECORD	
RUN_ERROR,1065	Since date cannot be greater than the End date. Level: RECORD	
RUN_ERROR,1225	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240	No records found. Level: OPERATION	
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR,1705	Invalid [%Customer%] ID. Level: RECORD	
RUN_ERROR,1755	<pre>,<fields label=""> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD</max></tab></fields></pre>	
RUN_ERROR,1760	<pre>,<fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""> The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD</max></tab></min></tab></fields></pre>	
RUN_ERROR,1765	<pre>/// // // // // // // // // // // // //</pre>	
RUN_ERROR,1870	[%Customer%] ID cannot be 0. Level: RECORD	
RUN_ERROR,1875 + <branch and<="" id="" td=""><td>,<customer id=""> +<tab>+ <customer name="" short=""> +<tab> + <company and="" id="" name=""> d Name></company></tab></customer></tab></customer></td><td>+ <ta< td=""></ta<></td></branch>	, <customer id=""> +<tab>+ <customer name="" short=""> +<tab> + <company and="" id="" name=""> d Name></company></tab></customer></tab></customer>	+ <ta< td=""></ta<>
	[%Customer%] ID &1 is already being used by &2 in [%company%] &3/[%branch%] &4. Level: RECORD	
RUN_ERROR,1965		

rors: ID	Description
RUN_ERROR,218	15
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR, INV available val	<pre>YALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">ues></comma-separated></tab></context></pre>
	The &l parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOC	KED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Ser (#1170)	vice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR, Ser	vice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Ser assistance.	vice Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Customers

Operation: apSrvCustSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsCustomer Description: This operation deletes existing customers from the system. ENTITY TABLE: dsCustomer.ttCustomer FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsCustomer Dataset KEY FIELDS: cid, bid, uid MANDATORY FIELDS: cid, bid, uid

> ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Customers.

User Security: Customer Web Services --> DELETE

Description	Туре
Action for present operation. Values: DELETE - Delete action is requested	Required
Unique Session ID string. Values: <any string=""></any>	Required
Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
Unique Company ID. Values: 1999	Required
Branch ID (unique within the Company). Values: 1999	Required
Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset.	
	Action for present operation. Values: DELETE - Delete action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <<empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output</empty></any></any></any>

ID Description

Delete Customers

ID	Description
NO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	You do not have security privileges to access this function. Level:
	OPERATION, RECORD
RUN_ERROR,1270	
	There are [%sites%] defined for this [%customer%]. Unable to delete. Level: RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1540	
RON_ERROR,1540	Record is currently being used in the system. Cannot delete. Level:
	RECORD
RUN_ERROR,1685	
··· _ · · ·	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1705	
KON_ERROR,1705	Invalid [%Customer%] ID. Level: RECORD
RUN_ERROR,2180,	<pre><webx defaults="" table=""> Web Xpress &1 are configured to use this [%customer%]. Unable to delete. Level: RECORD</webx></pre>
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" s=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	
	Context record is currently locked. Level: OPERATION
	ce Session failure: Company/Branch access has not been set up for this user.
(#1170)	[%Company%]/[%Branch%] access has not been set up for this user. Level:
	OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
assistance. (#	User ID is not valid. Contact your system administrator for assistance.
	Level: OPERATION

Operation: apSrvSiteGet INPUT-OUTPUT dsContext, OUTPUT dsSite Description: This operation retrieves information about existing sites from the system. ENTITY TABLE: dsSite.ttSite FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsSite Dataset KEY FIELDS: cid, bid, uid, sid Fields returned by this operation can be of the following three types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the description of the Add/Update operation), CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and - SYSTEM FIELDS, required for system purposes. ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. EXAMPLE: See eTime Xpress Web Services API Examples - Read Sites. User Security: Site Web Services --> READ Parameters: Description Name Type INPUT PARAMETERS pcSessionID Unique Session ID string. Required Values: <any string> Unique User ID, under which the operation is executed. pcUserID Required Values: <any string> piCompanyID Unique Company ID. Required Values: 1..999 Required piBranchID Branch ID (unique within the Company). Values: 1..999 Status Record Flag. pcStatus Required Values: A - Active records; I - Inactive records; V - Void records; <empty string> - All records. pcWhere An additional WHERE clause expression for the 4GL SELECT Required query that retrieves data from the system. Example: site.sid > 100 Values: <any string> pcSort An additional SORT clause expression for the 4GL SELECT Optional query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by site.psname Values: <any string> Default: <empty string> pcReadRequestFieldsList "*" string or a comma-separated list of fields that will Optional be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;

Parameters: Name	Description	Type
NPUT PARAMETERS		
	<pre><comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated></pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
piCustomerID	Customer ID. It is unique for Company ID/Branch ID. Values: 1999999 Default: N/A	Optiona
piSiteID	Site ID. It is unique for Company ID/Branch ID/Customer ID. Values: 19999 Default: N/A	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is (ttSite.uid + <tab> + ttSite.sid) value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any></tab>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the</field></field>	-

Name	Description	Туре
NPUT PARAMETERS		
	batch a required number of records which go prior to the Batch Key record. In case of the success, the original Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current and<br="" record="">has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeltetreSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkey1> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey</pcbatchkey2></pcbatchkey1></tab></tab></pcbatchkey2></tab></tab></pcbatchkey1></tab>	
	Values: <any string=""> Default: N/A</any>	
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the	

Parameters: Name	Description	Туре
OUTPUT PARAMETERS		
	table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	
plBatchKeySearchOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, wa successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a resul of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLetterSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search wa not successful, this parameter will contain an empty string. Values: <any string=""></any>	-

Errors:

ID Description NO_CONTEXT_DATA, < comma separated list of missed context data> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1060 Record is not available. Level: RECORD RUN_ERROR,1240 You do not have security privileges to access this function. Level: OPERATION, RECORD RUN_ERROR,1435 This function is not licensed. Level: OPERATION RUN_ERROR,1965 There are wrong fields in the requested list: &1. Level: RECORD RUN_ERROR,1980, <query string> Invalid QUERY string: &1. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<Context Parameter Name> + <TAB> + <Comma-separated list of available values> The &l parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR, Service Session failure: Company/Branch access has not been set up for this user.

D	Description
(#1170)	
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
UN ERROR.	Service Session failure: Invalid Session ID. (#1670)
UN_ERROR,	Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	Invalid Session ID. Level: OPERATION Service Session failure: User ID is not valid. Contact your system administrator for

Action for present operation. Values: ADD_UPDATE - Add/Update action is requested Unique Session ID string.	Required Required
RS	
Description	Туре
Site Web Services> ADD Site Web Services> UPDATE	
EXAMPLE: See eTime Xpress Web Services API Examples - Add, Sites.	'Update
Use cValmess and cObjectName fields in returned table to c RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no	detect Lds will ot stop:
will not copy values from the Contact Address to the corre	espondin
should be met: - If Company settings Automatic Site ID Assignment = NO, to values of the KEY FIELDS should be unique in the system. If Automatic Site ID Assignment = YES, then the system will a automatically generated value to the sid field of new reconsignore value passed in the input dataset.	then the f assign ords, an
<pre>following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of t plImportEnableUpdate parameter is set to YES (default), ar is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty></pre>	the nd there as in record e.
dsSite Dataset KEY FIELDS: cid, bid, uid, sid MANDATORY FIELDS: cid, bid, uid, sid	
This operation creates new and/or updates information about existing sites in the system.	ıt
apSrvSiteSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsSite	
	<pre>INPUT-OUTPUT dsContext, INPUT-OUTPUT dsSite This operation creates new and/or updates information about existing sites in the system. ENTITY TABLE: dsSite.ttSite FTIELDS DBSCRIPTION: See eTime Xpress Web Services API Data dsSite Dataset KEY FIELDS: cid, bid, uid, sid MANDATORY FIELDS: cid, bid, uid, sid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields The cChkNew field is used as a record mode flag and can he following values: "A" - the ADD record mode "U" - the UPDATE record mode "eury strings - the AUTO DETECT mode: if the value of t plimportEnableUpdate parameter is set to YES (default), ar is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the DPDATE automatic Site ID Assignment = NO, t values of the KEY FIELDS should be unique in the system will a automatically generated value to the sid field of new reco ignore value passed in the input dataset. The psshort field of new records should be unique withir current Company Setting the value of the Bill address same as above field will not copy values from the Contact Address to the corre ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cobjectName fields in returned table to co RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record transaction will be rolled back. The op will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Add, Sites Meb Services> ADD Site Web Servic</pre>

Name	Description	Туре
INPUT PARAMETERS		
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcUpdateRequestFieldsList	<pre>"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
plImportEnableUpdate	<pre>A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES</pre>	Optional
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurrency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset.	

NO_CONTEXT_DATA, < comma separated list of missed context data>

List of context fields that are required for service and are not defined. Level: $\ensuremath{\mathsf{OPERATION}}$

RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE

	Description
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1005	
	Invalid entry. Level: RECORD
RUN_ERROR,1015	Required entry. Level: RECORD
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN_ERROR,1030	
	Start date cannot be greater than the End date. Level: RECORD
RUN_ERROR,1065	
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1225	No records found. Level: OPERATION
RUN_ERROR,1240	You do not have security privileges to access this function. Level:
	OPERATION, RECORD
RUN_ERROR,1435	This founties is not lineared. Level, OPPRETON
	This function is not licensed. Level: OPERATION
RUN_ERROR,1665	Invalid [%Customer%] / [%Site%] combination. Level: RECORD
RUN_ERROR,1685	
non_min()1005	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR, 1755,	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &l field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1760,	
RUN_ERROR,1760,	RECORD
	RECORD <fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""> The &1 field's value cannot be less than &2 and greater than &3. Level:</max></tab></min></tab></fields>
	RECORD <fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""> The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD</max></tab></min></tab></fields>
	<pre>RECORD </pre> <pre> </pre> <pre< td=""></pre<>
RUN_ERROR, 1765,	<pre>RECORD </pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
RUN_ERROR,1765, RUN_ERROR,1880	<pre>RECORD </pre> <pre> RECORD </pre> <pre> Comma-separated list of available values </pre> The &1 field's value must be one of the following: &2. Level: RECORD Invalid [%Customer%] Status / [%Site%] Status combination. Level:
RUN_ERROR,1765, RUN_ERROR,1880	<pre>RECORD </pre> <pre> <</pre>
RUN_ERROR,1765, RUN_ERROR,1880	<pre>RECORD </pre> <pre> RECORD </pre> <pre> </pre> <pre> RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885,	<pre>RECORD </pre> <pre> RECORD </pre> <pre> </pre> <pre> RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885, RUN_ERROR,1890	<pre>RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885, RUN_ERROR,1890	<pre>RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885, RUN_ERROR,1890	<pre>RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885, RUN_ERROR,1890 RUN_ERROR,1895, RUN_ERROR,1965	<pre>RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885, RUN_ERROR,1890 RUN_ERROR,1895,	<pre>RECORD </pre> <pre> </pre>
RUN_ERROR,1765, RUN_ERROR,1880 RUN_ERROR,1885, RUN_ERROR,1890 RUN_ERROR,1895, RUN_ERROR,1965 RUN_ERROR,2185	<pre>RECORD <fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""> The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD <fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""> The &1 field's value must be one of the following: &2. Level: RECORD Invalid [%Customer%] Status / [%Site%] Status combination. Level: RECORD <customer id=""> + <tab> + <company and="" id="" name=""> [%Customer%] ID &1 is not valid for [%Company%]. Level: RECORD [%Site%] ID cannot be 0. Level: RECORD <site id=""> + <tab> + <site name=""> [%Site%] ID &1 is already being used by &2. Level: RECORD There are wrong fields in the requested list: &1. Level: RECORD Record has been changed by another user or system process. Refresh recommended. Level: RECORD ID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""></comma-separated></tab></context></site></tab></site></company></tab></customer></comma-separated></tab></fields></max></tab></min></tab></fields></pre>

ID	Description
	OPERATION
RUN_ERROR	LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR	Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Sites

Operation: apSrvSiteSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsSite Description: This operation deletes existing sites from the system. ENTITY TABLE: dsSite.ttSite FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsSite Dataset KEY FIELDS: cid, bid, uid, sid MANDATORY FIELDS: cid, bid, uid, sid

> ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Sites.

User Security: Site Web Services --> DELETE

Name	Description	Туре
INPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurrency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	

ID Description

Delete Sites

٢D	Description
NO CONTEXT DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	Record is currently locked. Level: RECORD
RUN_ERROR,1065	
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
····_	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1265	
	There are shifts scheduled at this [%site%]. Unable to delete. Level: RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1540	
	Record is currently being used in the system. Cannot delete. Level: RECORD
RUN_ERROR,1665	
	Invalid [%Customer%] / [%Site%] combination. Level: RECORD
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN ERROR, 2175,	<webx defaults="" table=""></webx>
	Web Xpress &1 are configured to use this [%site%]. Unable to delete. Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvSrvTypeGet INPUT-OUTPUT dsContext, OUTPUT dsSrvType	
Description:	This operation retrieves information about existing service from the system.	e types
	ENTITY TABLE: dsSrvType.ttSrvType FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsSrvType Dataset KEY FIELDS: srvtycd	sets -
	Fields returned by this operation can be of the following types: - DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and - SYSTEM FIELDS, required for system purposes.	e of n in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	cs.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Types.	Service
User Security:	Service Type Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: srvtype.srvtycd <> "A" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by srvtype.srvtycd Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be	Optional
	Page 60 of 267	

Name	Description	Туре
IPUT PARAMETERS		
	<pre>read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated></pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttSrvType.srvtycd value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Option
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Option
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch & required number of records which go prior to the Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	Optiona
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key	Optiona

Name	Description	Туре
INPUT PARAMETERS		
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchOneLetterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkeyl> + + <tab> + <tab>+ <pcbatchkeyl> fails, then the operation will try using <pcbatchkeyl>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkeyl></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></tab></pcbatchkeyl></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: www.separated.com to the description>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

TPUT PARAMETERS plBatchKeySearchOK Batch Key search success flag. This parameter indicates peBatchKeySearchOK plBatchKeySearchOK Batch Key search success flag. This parameter indicates peBatchKeySearchOK PlBatchKeySearchOK PlBatchKeySearchO			Description	Туре
<pre>whether the Batch Key search, performed using the pcBatchBearchKey and pcBatchBearchKeyNule parameters, was muccessful. Welues: MS - The record was found: We - The record was MOT found. plBatchReturnedExtraData finite Batch Key search. This is possible if present operation returned records starling not from the Batch Key value obtained as a result of the Batch Key search. This is possible if present. Welues: MS - The operation returned extra data: NO - The operation returned extra data. NO - The operation returned extra data. A value returned by the Batch Key search. If the Batch Key search. This parameter will return extra data. A value returned by the Batch Key search. If the Batch Key search was uccessful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: cany string> TOTS: ID Description NO_CONTEXT_DATA.<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION RUM_ERROR, MEONG CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUM_ERROR, 1200 You do not have security privileges to access this function. Level: OPERATION. MECORD RUM_ERROR, 1435 This function is not licensed. Level: OPERATION RUM_ERROR, 1435 There are wrong fields in the requested list: 61. Level: RECORD RUM_ERROR, 1980, <query string=""> Invalid QUERY string: 61. Level: OPERATION RUM_ERROR, 1980, <query 61.="" level:="" operation<br="" string:="">RUM_ERROR, 1980, <query 61.="" level:="" operation<br="" string:="">RUM_ERROR, 1980, <query 11.="" level:="" operation<br="" string:="">RUM_ERROR, 1980, <query 12.="" level:="" operation<br="" string:="">RUM_ERROR, 1980, <query 13.="" level:="" operation<br="" string:="">RUM_ERROR, 1980, <query 14.="" level:="" operation<br="" string:="">RUM_ERROR, Service Session failure: Company/Branch access has not been set up for this user. Level: (\$COMPANY}/(\$Baranch\$] access has not been set up for this user. Level: (\$COMPANY}/(\$Baranch\$] access has not been set</query></query></query></query></query></query></query></comma></pre>	TPUT PARAMET	ERS		
plBatchReturnedExtraData Indicates whether the present operation returned records starting not from the Batch Key value Obtained as a result of the Batch Key search. This is possible if pcBatchDirection = 'WKIT' and there are less than preserved. plBatchDomeLetterSearchKey A value returned by the Batch Key search. If the Batch Key search will return the out of the parameter will return the out of uncessful, this parameter will return the out of uncessful, this parameter will return the out of uncessful, this parameter will contain an empty string. TOTS: Description NO_CONTEXT_DATA. Context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR.1060 Record is not available. Level: RECORD RUN_ERROR.1060 Record is not available. Level: RECORD RUN_ERROR.1980 You do not have security privileges to access this function. Level: OPERATION RUN_ERROR.1980 There are wrong fields in the requested list: &1. Level: RECORD RUN_ERROR.1980 Thes are wrong fields in the requested list: &1. Level: RECORD RUN_ERROR.1980 Context Parameter Name> + CTAD + <comma-separated available="" expension<="" list="" of="" td=""> RUN_ERROR,1980 The ara meter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,ISENTON RUN_ERROR,ISENTON RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure:</comma-separated>	plBatchKeySearc	hOK	<pre>whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found;</pre>	
<pre>starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if poBatchDirection = "NKXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YSS - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return extra data. NO - The operation did NOT return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: cany string> TOTS: D Description NO_CONTEXT_DATA.ccomma separated list of missed context data> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, MONG_CONTEXT_DATA.SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1060 RUN_ERROR,1060 RUN_ERROR,1040 You do not have security privileges to access this function. Level: OPERATION, REOORD RUN_ERROR,1980, query strings Invalid QUERY string: £1. Level: OPERATION RUN_ERROR,1980, query strings Invalid QUERY string: £1. Level: OPERATION RUN_ERROR,1980, query strings Invalid QUERY string: £1. Level: OPERATION RUN_ERROR,1980, query strings Invalid QUERY string: £1. Level: OPERATION RUN_ERROR,1980, query strings RUN_ERROR,1980, query strings RUN_ERROR,1980, query strings RUN_ERROR,1980, query strings Invalid QUERY string: £1. Level: OPERATION RUN_ERROR,1980, query strings Invalid QUERY string: £1. Level: OPERATION RUN_ERROR,1980, query strings RUN_ERROR,20CKED_CONTEXT_DA</pre>			NO - The record was NOT found.	
NO - The operation did NOT return extra data. plBatchOneLetterSearchKey search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was puring. Values: <any string=""> TOTS: ID Description NO_CONTEXT_DATA, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, MRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1060 RUN_ERROR,1060 RUN_ERROR,1240 Nou to not have security privileges to access this function. Level: OPERATION RUN_ERROR,1965 This function is not licensed. Level: OPERATION RUN_ERROR,1960, <query string=""> There are wrong fields in the requested list: &1. Level: RECORD RUM_ERROR,1960, <query string=""> Invalid QUERY string: &1. Level: OPERATION RUM_ERROR,1960, <query string=""> Invalid QUERY string: &1. Level: OPERATION RUM_ERROR,10CCNTEXT_DATA_<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">OPERATION RUM_ERROR,10CKED_CONTEXT_DATA_<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">OPERATION RUM_ERROR,10CKED_CONTEXT_DATA_<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">OPERATION RUM_ERROR,0CKED_CONTEXT_DATA_<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">OPERATION RUM_ERROR,0CKED_CONTEXT_DATA_<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">OPERATION RUM_ERROR,0CKED_CONTEXT_DATA_<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">OPERATION RUM_ERROR,0Service Session failure: Company/Branch access has not been set up for this user. (%Company%)/(%Branch%) access has not been set up for this user. Level: OPERATION RUM_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></comma-separated></tab></context></comma-separated></tab></context></comma-separated></tab></context></comma-separated></tab></context></comma-separated></tab></context></query></query></query></comma></any>	plBatchReturned	ExtraData	starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record.	
search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> 'Yalues: <any string.<="" td=""> RUN_ERROR, VRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1060 Record is not available. Level: RECORD RUN_ERROR,1435 This function is not licensed. Level: OPERATION RUN_ERROR,1980 -query string: Invalid QUERY string: \$1. Level: OPERATION RUM_ERROR,1980 -query string: Invalid QUERY string: \$1. Level: OPERATION RUM_ERROR,1980 -query string: Invalid QUERY string: \$1. Level: OPERATION RUM_ERROR,10XLD_CONTEXT_DATA,<context paramet<="" td=""><td></td><td></td><td></td><td></td></context></any></any></any></any></any></any></any></any></any></any></any></any></any>				
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This function is not licensed. Level: OPERATION RUN_ERROR,1965 There are wrong fields in the requested list: &1. Level: RECORD RUN_ERROR,1980, <query string=""> Invalid QUERY string: &1. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated available="" list="" of="" values=""> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></query>	RUN_ERROR,1240			
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Invalid QUERY string: &1. Level: OPERATION RUN_ERROR, INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context>		There are wr	ong fields in the requested list: &1. Level: RECORD	
available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION	RUN_ERROR,1980,		-	
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Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION	RIN FROR LOCKE		Δ	
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Invalid Session ID. Level: OPERATION	(#1170)		[%Branch%] access has not been set up for this user. Level:	
DUD DODUD DELVICE DESSION INTELLUTE: USED IN 15 DOD VALID. COM ACT VOUR SYSTEM ADMINISTRATOR FOR	RUN_ERROR,Servi			

rors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Service Types

piBranchID	Branch ID (unique within the Company).	Required
piCompanyID	Unique Company ID. Values: 1999	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
INPUT PARAMETE	RS	
Parameters: Name	Description	Туре
	Service Type Web Services> ADD Service Type Web Services> UPDATE	
	EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Service Types.	Update
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro Use cValmess and cObjectName fields in returned table to d RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	etect ds will t stop:
	NOTE: To add new service types (ADD record mode), the following condition should be met: - The srvtycd field of new records should be unique within the current Company/Branch The system will assign automatically generated values to the Service Type ID (srvtyid) fields of new records.	
	The cChkNew field is used as a record mode flag and can had following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of t plImportEnableUpdate parameter is set to YES (default), an is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	he d there as in record
	ENTITY TABLE: dsSrvType.ttSrvType FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsSrvType Dataset KEY FIELDS: srvtycd MANDATORY FIELDS: cid, bid, srvtycd IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
Description:	This operation creates new and/or updates information abou existing service types in the system.	t
Operation:	apSrvSrvTypeSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsSrvType	

Add/Update Service Types

Name		Description	Туре
INPUT PARAMETE	RS		
		<pre>will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be</pre>	
		<pre><comma-separated list=""> - List of DATA fields that will be updated; <mpty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></mpty></comma-separated></pre>	
pcUpdateExceptF	lieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableU	Jpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	Optiona
plUseBeforeImag	re	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optiona
pcConcurrencyFi	eldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
OUTPUT PARAMET	ERS		
ExecuteStatus		Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID	Description		
NO_CONTEXT_DATA		ed list of missed context data> t fields that are required for service and are not defined.	
	Level: OPERATI		
RUN_ERROR, WRON	IG_CONTEXT_DATA_ More than one	SERVICE service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005			
	invalid entry.	Level: RECORD	
RUN_ERROR,1020	Record already	exists. Level: RECORD	

Add/Update Service Types

rors: ID	Description
	Record is currently locked. Level: RECORD
RUN_ERROR,1065	
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	This function is not licensed. Level: OPERATION
RUN ERROR,1685	
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN ERROR, 1755,	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1765,	<pre><fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,1905	[%Service%] ID cannot be blank. Level: RECORD
RUN ERROR,1965	
RUN_ERROR, 1965	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAI available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
	ce Session failure: User ID is not valid. Contact your system administrator for
RUN_ERROR,Servi assistance. (#	

Delete Service Types

Operation: apSrvSrvTypeSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsSrvType Description: This operation deletes existing service types from the system. ENTITY TABLE: dsSrvType.ttSrvType FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsSrvType Dataset KEY FIELDS: srvtycd

MANDATORY FIELDS: cid, bid, srvtycd

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Service Types.

User Security: Service Type Web Services --> DELETE

Description	Туре
Action for present operation. Values: DELETE - Delete action is requested	Required
Unique Session ID string. Values: <any string=""></any>	Required
Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
Unique Company ID. Values: 1999	Required
Branch ID (unique within the Company). Values: 1999	Required
input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES.	Optional
A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
	Action for present operation. Values: DELETE - Delete action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <<empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output</empty></any></any></any>

ID Description

Delete Service Types

ID	Description
NO_CONTEXT_DATA	<pre>,<comma context="" data="" list="" missed="" of="" separated=""></comma></pre>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN_ERROR,1065	
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	This function is not licensed. Level: OPERATION
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1900,	<pre><service id="" type=""> + <tab> + <table description=""> + <tab> + <service &1="" [%service%]="" being="" code="" is="" pre="" record="" status="" used.<=""></service></tab></table></tab></service></pre>
	Error: &2 record found. Record can not be deleted. Note: Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
	ce Session failure: User ID is not valid. Contact your system administrator for
assistance. (#	1460) User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Read Locations

Operation:	apSrvLocationGet INPUT-OUTPUT dsContext, OUTPUT dsLocation	
Description:	This operation retrieves information about existing location the system.	ons from
	ENTITY TABLE: dsLocation.ttLocation FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsLocation Dataset KEY FIELDS: LocationObj	sets -
	Fields returned by this operation can be of the following t	hree
	<pre>types: - DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and - SYSTEM FIELDS, required for system purposes.</pre>	e of h in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	s.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Locations.	
User Security:	Location Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <pre></pre> <pre><pre><pre><pre><pre><pre><pre><</pre></pre></pre></pre></pre></pre></pre>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: Location.LocationName BEGINS "A" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by Location.LocationName Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	<pre>eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be</pre>	Optional
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Read Locations

Name	Description	Туре
NPUT PARAMETERS		
	read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Option
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Option
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Option
pcBatchKey	A Batch Key is ttLocation.LocationObj value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Option
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Option
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record in the batch first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key	Option

Read Locations

Name	Description	Туре
INPUT PARAMETERS		_
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchKeySearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab>+ <pcbatchkey2>, If <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey2></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: www.separated.com Values: www.separated.com Values: www.separated.com (pcUserID). Corresponding fields in the table will have default values.	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

Read Locations

Name		Description	Туре
TPUT PARAMET	TERS		
plBatchKeySear	chOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found;	
· ·		NO - The record was NOT found.	
plBatchReturne	dExtraData	<pre>Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data;</pre>	
		NO - The operation did NOT return extra data.	
plBatchOneLett	erSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors:			
ID	Descriptio	n	
NO_CONTENT_DAT	List of cont	rated list of missed context data> rext fields that are required for service and are not defined.	
	Level: OPERA	ATION	
RUN_ERROR, WRO	NG_CONTEXT_DAT		
RUN_ERROR, WROM	NG_CONTEXT_DAT More than on	A_SERVICE	
	NG_CONTEXT_DAT More than on Record is no	CA_SERVICE The service is set to be run by one call. Level: OPERATION of available. Level: RECORD Thave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R	CA_SERVICE The service is set to be run by one call. Level: OPERATION of available. Level: RECORD Thave security privileges to access this function. Level:	
RUN_ERROR,1060	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R	CA_SERVICE The service is set to be run by one call. Level: OPERATION of available. Level: RECORD Thave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R	CA_SERVICE he service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: MECORD	
RUN_ERROR,1060 RUN_ERROR,1240	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio	CA_SERVICE he service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: MECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr	CA_SERVICE he service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<="" td=""><td>CA_SERVICE he service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION</td><td></td></query>	CA_SERVICE he service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER</query>	<pre>PA_SERVICE ne service is set to be run by one call. Level: OPERATION ot available. Level: RECORD nave security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD mg></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param</query>	<pre>PA_SERVICE ne service is set to be run by one call. Level: OPERATION out available. Level: RECORD have security privileges to access this function. Level: NECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD Ng> NY string: &1. Level: OPERATION</pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1NVA available value	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param OPERATION</query>	<pre>PA_SERVICE ne service is set to be run by one call. Level: OPERATION of available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD reg> RY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level:</comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param OPERATION ED_CONTEXT_DAT</query>	<pre>PA_SERVICE ne service is set to be run by one call. Level: OPERATION out available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD hgs RY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: PA</comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1980	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param OPERATION ED_CONTEXT_DAT Context reco</query>	<pre>PA_SERVICE ne service is set to be run by one call. Level: OPERATION ot available. Level: RECORD have security privileges to access this function. Level: NECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD NG> NY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">neter's value must be one of the following: &2. Level: "A ord is currently locked. Level: OPERATION</comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,1980	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param OPERATION ED_CONTEXT_DAT Context reco ice Session fa [%Company%]/</query>	<pre>PA_SERVICE ne service is set to be run by one call. Level: OPERATION out available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD hgs RY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: PA</comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1965 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,100K RUN_ERROR,LOCK RUN_ERROR,Serv. (#1170)	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param OPERATION ED_CONTEXT_DAT Context reco ice Session fa [%Company%]/ OPERATION</query>	<pre>PA_SERVICE le service is set to be run by one call. Level: OPERATION bt available. Level: RECORD have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD MG> YY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">heter's value must be one of the following: &2. Level: PA ord is currently locked. Level: OPERATION Milure: Company/Branch access has not been set up for this user. [%Branch%] access has not been set up for this user. Level: hilure: Invalid Session ID. (#1670)</comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1965 RUN_ERROR,1980 RUN_ERROR,1980 RUN_ERROR,INVA RUN_ERROR,Serv. (#1170)	NG_CONTEXT_DAT More than on Record is no You do not h OPERATION, R This functio There are wr , <query strin<br="">Invalid QUER LID_CONTEXT_DA es> The &1 param OPERATION ED_CONTEXT_DAT Context reco ice Session fa [%Company%]/ OPERATION ice Session fa Invalid Sess</query>	<pre>PA_SERVICE le service is set to be run by one call. Level: OPERATION ot available. Level: RECORD leave security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD Ng> YY string: &1. Level: OPERATION NTA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" <="" access="" be="" been="" branch="" company="" currently="" following:="" for="" has="" is="" level:="" list="" locked.="" must="" neter's="" not="" of="" one="" operation="" ord="" pa="" pre="" set="" the="" this="" up="" user.="" value="" xilure:=""></comma-separated></tab></context></pre>	

Read Locations

rors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Locations

	Page 75 of 267	
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
piCompanyID	Unique Company ID. Values: 1999	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
INPUT PARAMETE		-150
Parameters: Name	Description	Туре
User Security:	Location Web Services> ADD Location Web Services> UPDATE	
	EXAMPLE: See eTime Xpress Web Services API Examples - Add Locations.	/Update
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level err Use cValmess and cObjectName fields in returned table to RECORD level errors. If such an error occurred, these fie contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will n only failed record transaction will be rolled back. The o will proceed to add/update remaining records.	detect lds will ot stop:
	to the LocationObj field of new records, overwriting valu in the input dataset. - The Location name (code) field of new records should be within the current Company.	es passed
	NOTE: To add new locations (ADD record mode), the followi conditions should be met: - The values of the KEY FIELD (LocationObj) should be uni the system. The system will assign automatically generate	que in
	<pre>following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of plImportEnableUpdate parameter is set to YES (default), a is already a record in the system with the same KEY FIELD the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mod</empty></pre>	nd there S as in record
	The cChkNew field is used as a record mode flag and can h	ave the
	ENTITY TABLE: dsLocation.ttLocation FIELDS DESCRIPTION: See eTime Xpress Web Services API Dat dsLocation Dataset KEY FIELDS: LocationObj MANDATORY FIELDS: cid, bid, LocationObj IGNORED FIELDS: all DATA-READ fields, all CALCULATED fiel SYSTEM fields	
Description:	This operation creates new and/or updates information abo existing locations in the system.	ut
Operation:	apSrvLocationSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsLocation	

Add/Update Locations

Name	Description	Туре
INPUT PARAMETERS		
pcUpdateRequestFieldsList	<pre>"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values:</pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	-
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID Descripti	on	
	rated list of missed context data> text fields that are required for service and are not defined. ATION	
RUN_ERROR, WRONG_CONTEXT_DA	TA_SERVICE	
More than o	ne service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005		
Invalid ent	ry. Level: RECORD	
RUN_ERROR,1020 Record alre	ady exists. Level: RECORD	
Record alre	ady_exists. Level: RECORD Page 76 of 267 Build 8010	

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Add/Update Locations

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Record has been changed by another user or system process. Refresh recommended. Level: RECORD RUN_EERROR,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_EERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_EERROR,Service Session failure: Company/Branch access has not been set up for this user. (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_EERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_EERROR,Service Session failure: User ID is not valid. Contact your system administrator for assistance. (#1460)</comma-separated></tab></context>		There are wrong fields in the requested list: &1. Level: RECORD
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RUN_ERROR, Service Session failure: Company/Branch access has not been set up for this user. (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR, Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR, Service Session failure: User ID is not valid. Contact your system administrator for assistance. (#1460)	RUN_ERROR,LOCKE	D_CONTEXT_DATA
<pre>(#1170)</pre>		Context record is currently locked. Level: OPERATION
<pre>[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrator for assistance. (#1460)</pre>		ce Session failure: Company/Branch access has not been set up for this user.
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assistance. (#1460)		
User ID is not valid. Contact your system administrator for assistance.		
Level: OPERATION		

Delete Locations

Operation: apSrvLocationSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsLocation Description: This operation deletes existing locations from the system. ENTITY TABLE: dsLocation.ttLocation FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsLocation Dataset KEY FIELDS: LocationObj MANDATORY FIELDS: cid, bid, LocationObj

> ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Locations.

User Security: Location Web Services --> DELETE

Description	Туре
Action for present operation. Values: DELETE - Delete action is requested	Required
Unique Session ID string. Values: <any string=""></any>	Required
Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
Unique Company ID. Values: 1999	Required
Branch ID (unique within the Company). Values: 1999	Required
Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
	Action for present operation. Values: DELETE - Delete action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <<enpty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output</enpty></any></any></any>

ID Description

Delete Locations

ID	Description
NO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN_ERROR,1065	
··· _ · ·	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN ERROR,1685	
,,,	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN ERROR,1910	
RUN_ERROR, 1910	Shifts exist in the schedule using this [%location%] record. Unable to delete. Level: RECORD
RUN_ERROR,1915	
	Travel time information has been defined for this [%location%] record. Unable to delete. Level: RECORD
RUN_ERROR,1920	
	[%Branch%] rules have been defined using this [%location%] record. Unable to delete. Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Read Shifts

Operation: apSrvShiftGet INPUT-OUTPUT dsContext, OUTPUT dsShifts Description: This operation retrieves information about existing shifts from the system. ENTITY TABLE: dsShifts.ttShifts FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsShifts Dataset KEY FIELDS: shiftid Fields returned by this operation can be of the following three types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and - SYSTEM FIELDS, required for system purposes. ERROR HANDLING:

Use ExecuteStatus parameter to detect OPERATION level errors.

EXAMPLE: See eTime Xpress Web Services API Examples - Read Shifts.

User Security: Shifts Web Services --> READ

Name	Description	Type
NPUT PARAMETERS		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pdFromDate	Shift's Scheduled From Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY</any>	Required
pdToDate	Shift's Scheduled To Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY</any>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: shifts.cid < 1 Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by shifts.shdate Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcReadRequestFieldsList	"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults	

Read Shifts

Name	Description	Туре
NPUT PARAMETERS		
	<pre>its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plGetMidnightDifference	<pre>Performs additional calculations related with Midnight Cut Off. Additional Midnight cutoff calculations process the portion of the shift occurring after midnight separately filling-in the following fields: ttShifts.MidDiffScheduled,ttShifts.MidDiffWorked, ttShifts.MidDiffOverlap1,ttShifts.MidDiffOverlap2, ttShifts.MidDiffWorkedOverlap1, ttShifts.MidDiffWorkedOverlap2. See more fields description in eTime Xpress Web Services API Datasets - dSShifts Dataset. Values: YES - Performs additional calculations related with Midnight Cutoff; NO - Does not perform additional calculations related with Midnight Cutoff. Default: NO</pre>	Optiona
pcEmpStat	<pre>Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optiona
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optiona
pcSiteStat	<pre>Site status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optiona
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
rrors: ID Description		

Read Shifts

D	Description
IO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,1980,	<query string=""> Invalid QUERY string: &1. Level: OPERATION</query>
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance.

Operation:	apSrvShiftSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsShifts	
Description:	This operation creates new and/or updates information about existing shifts in the system.	ut
	ENTITY TABLE: dsShifts.ttShifts FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShifts Dataset KEY FIELDS: shiftid MANDATORY FIELDS: cid, bid, shiftid	asets -
	The cChkNew field is used as a record mode flag and can had following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of the plImportEnableUpdate parameter is set to YES (default), and is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the nd there S as in record
	NOTE: The system will assign automatically generated value Shift ID (shiftid) fields of new records. This operation updates only fields supported by ETime Shi functionality.	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to o RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	detect lds will ot stop:
	EXAMPLE: See eTime Xpress Web Services API Examples - Add. Shifts.	/Update
User Security:	Shifts Web Services> ADD Shifts Web Services> UPDATE Shifts Web Services> UPDATE CONTROL CENTER Shifts Web Services> UPDATE TIME AND ATTENDANCE Shifts Web Services> UPDATE BILLING Shifts Web Services> UPDATE PAYROLL	
Parameters:		
	Description	Туре
INPUT PARAMETE		
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
	Values. ADD_OFDATE - Add/opdate action is requested	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcSessionID pcUserID	Unique Session ID string.	Required Required
	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed.</any>	
pcUserID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID.</any></any>	Required

Name	Description	Туре
IPUT PARAMETERS		
	listed below. The corresponding Message Type functionality checks will be ignored by the present operation for all	
	shifts. D - Employee is Double Booked to a Shift	
	T - Employee has Time Off	
	R - Shift is restricted Q - Employee Failed Shift Qualifications	
	W - Employee has that Day Off P - Max Pay Rate Exceeded	
	C - Shift Exceeds Counter	
	E - Employee Budget Exceeded S - Site Budget Exceeded	
	L - Location Travel Time H - Employee Minimum Rest Period Between Shifts	
	N - Shift is part of a rotation	
	F - Shift confirmed O - Shift worked	
	Y - Shift Self-Scheduled Z - Shift Published for Self-Scheduling	
	X - Employee has Requested that Time Off	
	1 - Employee Daily Budget Exceeded 2 - Employee Weekly Budget Exceeded	
	3 - Employee Monthly Budget Exceeded 4 - Customer Daily Budget Exceeded	
	5 - Customer Weekly Budget Exceeded 6 - Customer Monthly Budget Exceeded	
	7 - Site Daily Budget Exceeded	
	8 - Site Weekly Budget Exceeded 9 - Site Monthly Budget Exceeded	
	Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
pcUpdateRequestFieldsList	"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined.	Optional
	<pre>Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	
	<pre><comma-separated list=""> - List of DATA fields that will be updated;</comma-separated></pre>	
	<pre><empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></empty></pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be	Optional
	excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored.	-
	Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records;	Optional
	NO - Does not allow to update existing records. Default: YES	
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT	Optional
	ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used	Optional

Name	Description	Туре
NPUT PARAMETE	RS	
	for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
JTPUT PARAMET	ERS	
Executestatus	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
NO_CONTEXT_DATA	., <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma>	
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry. Level: RECORD	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1030	Start date cannot be greater than the End date. Level: RECORD	
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1130	OPEN shift cannot be set to worked. Level: RECORD	
RUN_ERROR,1145	Invalid entry. Enter hours as 00 to 23 and minutes as 00 to 59. Level: OPERATION	
RUN_ERROR,1240	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
RUN_ERROR,1665	Invalid [%Customer%] / [%Site%] combination. Level: RECORD	
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR,1700	Invalid [%Employee%] ID. Level: RECORD	
RUN_ERROR,1705	Invalid [%Customer%] ID. Level: RECORD	
RUN_ERROR,1755,	<pre><fields label=""> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD</max></tab></fields></pre>	

ID	Description
PIN FRROR 1760	<fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields>
KON_ERROR, 1700,	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD
RUN_ERROR,1765,	<pre><fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""> The &1 field's value must be one of the following: &2. Level: RECORD</comma-separated></tab></fields></pre>
RUN_ERROR,1815	
RUN_ERROR,1820	Invalid [%Service%]. Level: RECORD
	Invalid [%Location%] ID. Level: RECORD
RUN_ERROR,1825	Invalid [%Shift Tag%] Set. Level: RECORD
RUN_ERROR,1830	
	Unknown Error. Level: RECORD
RUN_ERROR,1835,	<pre><detail business-logic="" error="" from="" routine="" shift'="" string="" validation=""> <detail business-logic="" error="" from="" routine="" shift'="" string="" validation=""> </detail></detail></pre>
RUN_ERROR,1840,	Level: RECORD
<tab> +<current< td=""><td></td></current<></tab>	
	updated in current [%company%] &3 / [%branch%] &4. Level: RECORD
RUN_ERROR,1845	OPEN shift cannot be set to Tentative. Level: RECORD
RUN_ERROR,1850	
	Invalid Publishing Type. Level: RECORD
RUN_ERROR,1855,	<pre><start end="" or=""> Shift is published for Self-Scheduling. Invalid Self-Scheduling &l (Date/Time). Level: RECORD</start></pre>
RUN_ERROR,1965	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2105	
	Safe check time cannot be set on an OPEN shift. Level: RECORD
RUN_ERROR,2110,	<pre><fields value=""> + <tab> + <fields label=""> + <tab> + <fields label=""> When a shift is &3, the &2 must be set to &1. Level: RECORD</fields></tab></fields></tab></fields></pre>
RUN_ERROR,2115,	<fields label=""> + <tab> + <fields label=""></fields></tab></fields>
	&1 must be specified to set a shift as &2. Level: RECORD
RUN_ERROR,2120,	<fields label(s)=""> The &1 cannot be set due to insufficient licensing or user security rights. Level: RECORD</fields>
RUN_ERROR, 2125,	<pre><fields label=""> + <tab> + <fields label=""></fields></tab></fields></pre>
	Shift cannot be set as &1 without first being &2. Level: RECORD
RUN_ERROR,2130	This shift is not worked. Unable to lock for billing or payroll. Level:
	RECORD
RUN_ERROR,2185	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""></comma-separated></tab></context>

ID	Description
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	,LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
(#1170)	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
	OPERATION
RUN_ERROR	OPERATION ,Service Session failure: Invalid Session ID. (#1670)

Delete Shifts

Operation: apSrvShiftSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsShifts Description: This operation deletes existing shifts from the system. ENTITY TABLE: dsShifts.ttShifts FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsShifts Dataset KEY FIELDS: shiftid

MANDATORY FIELDS: cid, bid, shiftid

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Shifts.

User Security: Shifts Web Services --> DELETE

arameters: Name	Description	Туре
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcGlobalIgnoreList	A string containing zero or more Message Type Letters, listed below. The corresponding Message Type functionality checks will be ignored by the present operation for all shifts. D - Employee is Double Booked to a Shift N - Shift is part of a rotation F - Shift confirmed O - Shift worked Y - Shift Self-Scheduled Z - Shift Published for Self-Scheduling Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
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Delete Shifts

arameters: Name	Description	Туре
NPUT PARAMETE	RS	
JTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION</comma>	
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1330	This shift is locked for billing or payroll. Unable to delete. Level: RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
RUN_ERROR,1665	Invalid [%Customer%] / [%Site%] combination. Level: RECORD	
RUN_ERROR,1685	<pre>Invalid [%Company%] / [%Branch%] combination. Level: RECORD</pre>	
RUN_ERROR,1700	Invalid [%Employee%] ID. Level: RECORD	
RUN_ERROR,1785,	<pre><error &1.="" child="" delete.="" description="" from="" is="" level:="" pre="" process="" program="" record="" record<="" records="" the="" to="" unable="" when=""></error></pre>	deleted>
RUN_ERROR,1790	This shift is worked. Unable to delete. Level: RECORD	
RUN_ERROR,1795	Shift is part of a rotation. Level: RECORD	
RUN_ERROR,1800	Shift has been confirmed. Level: RECORD	
RUN_ERROR,1805	Shift has been self-scheduled. Level: RECORD	
RUN_ERROR,1810	Shift has been published for self-scheduling. Level: RECORD	
RUN_ERROR,2185		

Delete Shifts

ID	Description
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR available	,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	,LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR (#1170)	,Service Session failure: Company/Branch access has not been set up for this user.
	<pre>,Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION</pre>
(#1170)	[%Company%]/[%Branch%] access has not been set up for this user. Level:
(#1170) RUN_ERROR RUN_ERROR	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ,Service Session failure: Invalid Session ID. (#1670)

Read Shifts Distributions

Operation:	apSrvShiftDistrGet INPUT-OUTPUT dsContext, OUTPUT dsShiftDistribution	
Description:	This operation retrieves information about existing shifts distributions records from the system.	3
	ENTITY TABLE: dsShiftsDistribution.ttShifts FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShiftsDistribution Dataset KEY FIELDS: shiftid	asets -
	ENTITY TABLE: dsShiftsDistribution.ttShiftDis FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShiftsDistribution Dataset KEY FIELDS: shiftid	asets -
	DATA RELATIONSHIP: dsShiftsDistribution.ttShifts.shiftid - dsShiftsDistribution.ttShiftDis.shiftid	- 1:1 ->
	<pre>Fields returned by this operation can be of the following types:</pre>	ne of on in the
	Use ExecuteStatus parameter to detect OPERATION level error EXAMPLE: See eTime Xpress Web Services API Examples - Read Distributions.	
User Security:	Shifts Web Services> READ Shift Distributions Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required

piCompanyID	Unique Company ID. Values: 1999	Required	
piBranchID	Branch ID (unique within the Company). Values: 1999		
pdFromDate	Shift's Scheduled From Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY</any>	Required	
pdToDate	Shift's Scheduled To Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY</any>	Required	
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: shifts.cid < 1 Values: <any string=""></any>	Required	
pcSort	An additional SORT clause expression for the 4GL SELECT	Optional	

Read Shifts Distributions

Parameters: Name	Description	Туре
INPUT PARAMETERS		
	<pre>query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by shifts.shdate Values: <any string=""> Default: <empty string=""></empty></any></pre>	
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plGetMidnightDifference	<pre>Performs additional calculations related with Midnight Cut Off. Additional Midnight cutoff calculations process the portion of the shift occurring after midnight separately filling-in the following fields: ttShifts.MidDiffScheduled,ttShifts.MidDiffWorked, ttShifts.MidDiffGverlap1,ttShifts.MidDiffOverlap2, ttShifts.MidDiffWorkedOverlap1, ttShifts.MidDiffWorkedOverlap2. See more fields description in eTime Xpress Web Services API Datasets - dsShifts Dataset. Values: YES - Performs additional calculations related with Midnight Cutoff; NO - Does not perform additional calculations related with Midnight Cutoff. Default: NO</pre>	Optiona
DUTPUT PARAMETERS		
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID Description	1	
	ted list of missed context data>	

RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE

More than one service is set to be run by one call. Level: OPERATION

RUN_ERROR,1240

Read Shifts Distributions

ID	Description
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR, 1980,	<query string=""></query>
	Invalid QUERY string: &1. Level: OPERATION
RUN ERROR, LOCKE	The &1 parameter's value must be one of the following: &2. Level: OPERATION DECONTEXT DATA
,	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)

Operation:	apSrvCodesTableGet INPUT-OUTPUT dsContext, OUTPUT dsCodesTable					
Description:	This operation retrieves information about existing codes system.	from the				
	ENTITY TABLE: dsCodesTable.ttCodesTable FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsCodesTable Dataset KEY FIELDS: code-type, cds	sets -				
	Fields returned by this operation can be of the following types:					
 DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and SYSTEM FIELDS, required for system purposes. 						
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro					
lleer Security.	EXAMPLE: See eTime Xpress Web Services API Examples - Read Code Table Web Services> READ	Codes.				
Parameters:	COUE TABLE WED SELVICES> READ					
Name	Description Type					
INPUT PARAMETE	RS					
pcSessionID	Unique Session ID string. Values: <any string=""></any>					
pcUserID	Unique User ID, under which the operation is executed. Re Values: <any string=""></any>					
piCompanyID	Unique Company ID. Rec Values: 1999					
piBranchID	Branch ID (unique within the Company). Values: 1999	Required				
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: codes_table.cds <> "CD" Values: <any string=""></any>	Required				
pcCodeType	Code Type. There are available following Code Types:	Required				

Parameters: Name

Description

Type

INPUT PARAMETERS

EXREFCUSREF01	-	External	Cust Ref. 01 Lookup
EXREFCUSREF02	-	External	Cust Ref. 02 Lookup
EXREFCUSREF03	-	External	Cust Ref. 03 Lookup
EXREFCUSREF04	_	External	Cust Ref. 04 Lookup
EXREFCUSREF05	_	External	Cust Ref. 05 Lookup
EXREFCUSREF06	_	External	Cust Ref. 06 Lookup
		-	
EXREFCUSREF07	-	External	
EXREFCUSREF08	-	External	
EXREFCUSREF09	-	External	Cust Ref. 09 Lookup
EXREFCUSREF10	-	External	Cust Ref. 10 Lookup
EXREFEMP	-	External	Emp Ref.
EXREFEMPREF01	-	External	Emp Ref. 01 Lookup
EXREFEMPREF02	-	External	Emp Ref. 02 Lookup
EXREFEMPREF03	_	External	Emp Ref. 03 Lookup
EXREFEMPREF04	_	External	Emp Ref. 04 Lookup
EXREFEMPREF05	_	External	Emp Ref. 05 Lookup
EXREFEMPREF06	_	External	Emp Ref. 06 Lookup
EXREFEMPREF07		External	T T
	-		
EXREFEMPREF08	-	External	Emp Ref. 08 Lookup
EXREFEMPREF09	-	External	Emp Ref. 09 Lookup
EXREFEMPREF10	-	External	Emp Ref. 10 Lookup
EXREFLOC	-	External	Loc Ref.
EXREFLOCREF01	-	External	Loc Ref. 01 Lookup
EXREFLOCREF02	-	External	Loc Ref. 02 Lookup
EXREFLOCREF03	-	External	Loc Ref. 03 Lookup
EXREFLOCREF04	_	External	Loc Ref. 04 Lookup
EXREFLOCREF05	_	External	Loc Ref. 05 Lookup
EXREFLOCREF06	_	External	Loc Ref. 06 Lookup
EXREFLOCREF07	_	External	Loc Ref. 07 Lookup
EXREFLOCREF08	_	External	Loc Ref. 08 Lookup
EXREFLOCREF00		External	Loc Ref. 09 Lookup
EXREFLOCREF10		External	Loc Ref. 10 Lookup
	_		
EXREFSCH	-	External	Shift Ref. Labels
EXREFSCHREF1	-	External	Shift Ref. 1 Lookup
EXREFSCHREF2	-	External	Shift Ref. 2 Lookup
EXREFSCHREF3	-	External	Shift Ref. 3 Lookup
EXREFSCHREF4	-	External	Shift Ref. 4 Lookup
EXREFSCHREF5	-	External	Shift Ref. 5 Lookup
EXREFSIT	-	External	Site Ref.
EXREFSITREF01	-	External	Site Ref. 01 Lookup
EXREFSITREF02	-	External	Site Ref. 02 Lookup
EXREFSITREF03	-	External	Site Ref. 03 Lookup
EXREFSITREF04	-	External	Site Ref. 04 Lookup
EXREFSITREF05	-	External	Site Ref. 05 Lookup
EXREFSITREF06	_	External	Site Ref. 06 Lookup
EXREFSITREF07	_	External	Site Ref. 07 Lookup
EXREFSITREF08	_	External	Site Ref. 08 Lookup
EXREFSITREF09	_	External	Site Ref. 09 Lookup
EXREFSITREF10	_	External	Site Ref. 10 Lookup
EXREFSRV	_	External	Srv Ref
EXREFSRVREF01	_	External	Srv Ref. 01 Lookup
EXREFSRVREF02	_	External	Srv Ref. 02 Lookup
EXREFSRVREF02		External	Srv Ref. 03 Lookup
EXREFSRVREF03			-
	-	External	·····
EXREFSRVREF05	-	External	Srv Ref. 05 Lookup
EXREFSRVREF06	-		Srv Ref. 06 Lookup
EXREFSRVREF07	-		Srv Ref. 07 Lookup
EXREFSRVREF08			Srv Ref. 08 Lookup
EXREFSRVREF09		External	
EXREFSRVREF10			Srv Ref. 10 Lookup
GLACCTCATEGORY			unt Category Code*
GLACCTSTATUS	-		unt Status Code*
		C/T Adda	unt Type Code*
GLACCTTYPE	-	G/L ACCO	
GLACCTTYPE HOURTYPES		Hour Type	
	_	Hour Type HandPuncl	es* n TA Codes*
HOURTYPES	_	Hour Type	es* n TA Codes*
HOURTYPES HPTACODES	- - -	Hour Type HandPuncl Incident	es* n TA Codes* Code
HOURTYPES HPTACODES INCIDENTCODE		Hour Type HandPunch Incident Inventory	es* n TA Codes* Code
HOURTYPES HPTACODES INCIDENTCODE INVENTORYCODE		Hour Type HandPunch Incident Inventory Message	es* n TA Codes* Code y Code Box Types*
HOURTYPES HPTACODES INCIDENTCODE INVENTORYCODE MESSAGETYPES		Hour Type HandPunch Incident Inventory Message I Sort Orde	es* n TA Codes* Code y Code Box Types*
HOURTYPES HPTACODES INCIDENTCODE INVENTORYCODE MESSAGETYPES ORDERCODE		Hour Type HandPunch Incident Inventory Message I Sort Orde	es* n TA Codes* Code y Code Box Types* er Code* Threshold Code*

arameters: Name	Description	Туре
NPUT PARAMETERS		
	PLANWEEKDESC- Shift Planner Week Description*PUBLISHTYPE- Self-Schedule Publishing Types*QBXMLVERSION- QuickBooks XML Version*QUALIFCODE- Qualifications CodeRECORDSTATUS- Record Status Codes*RESTRICTCODE- Restriction CodeSEX- Sex Code*SITENOTETYPES- Site Notes CodeSTATDAYS- Statu/Province CodeTAXID- Tax Code*TERMINATION- Termination CodeTHRESHOLDTYPE- OT Threshold Periods*TIMEENTRYSTATUS- Time Entry Status*TIMEIMPORT- Time Import Codes*VOLUNTEERCODE- Volunteer CodeWEEKDAY- Weekday*	
	* - this code type has SYSTEM type and can be used in Read Codes operation only. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by codes_table.cds Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
plNoCodeType	No Code Type flag. Values: YES - Ignore code types in operation's bussiness logic. <any other="" values=""> or not passed to the server - Use code type in operation's bussiness logic. Default: NO</any>	Optiona
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields</empty></comma-separated></pre>	Optiona
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the	Optiona

Parameters: Name	Description	Type
INPUT PARAMETERS		
	operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	
pcBatchKey	A Batch Key is ttCodesTable.cds value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record in the batch first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the</string></current></current></character></tab></tab>	

Parameters: Name	Description	Туре
NPUT PARAMETERS		
	<pre>specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchKeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchOneLetterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <tab> + <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></tab></tab></tab></pcbatchkey2></tab></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Optiona
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	
plBatchKeySearchOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLetterSearchKey		

Errors:

Name	Description	Туре
JTPUT PARAMET	ERS	
Descr	ription	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined Level: OPERATION	l
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060		
	Record is not available. Level: RECORD	
RUN ERROR, 1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435		
	This function is not licensed. Level: OPERATION	
RUN ERROR, 1965		
	There are wrong fields in the requested list: &1. Level: RECORD	
RUN_ERROR, 1980,	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
	Invalid QUERY string: &1. Level: OPERATION	
RUN ERROR, INVAI	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list<="" td=""><td>of</td></comma-separated></tab></context>	of
available value		
	The &1 parameter's value must be one of the following: &2. Level: OPERATION	
RUN_ERROR,LOCKE	CONTEXT_DATA	
	Context record is currently locked. Level: OPERATION	
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this us	er.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION	
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)	
	Invalid Session ID. Level: OPERATION	
RUN_ERROR,Servi assistance. (‡	ce Session failure: User ID is not valid. Contact your system administrat 1460)	or for
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION	

Add/Update Codes

Operation:	apSrvCodesTableSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsCodesTable	
Description:	This operation creates new and/or updates information about existing codes in the system.	t
	ENTITY TABLE: dsCodesTable.ttCodesTable FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsCodesTable Dataset KEY FIELDS: code-type, cds MANDATORY FIELDS: code-type, cds IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
	The cChkNew field is used as a record mode flag and can ha following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of t plImportEnableUpdate parameter is set to YES (default), an is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	he d there as in record
	NOTE: To add new codes (ADD record mode), the following co should be met: - The values of the KEY FIELDS should be unique in the sys	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to d RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	etect ds will t stop:
	EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Codes.	Update
User Security:	Code Table Web Services> ADD Code Table Web Services> UPDATE	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcUpdateRequest	FieldsList "*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined.	Optional

Add/Update Codes

<pre>excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""> A flag specifying whether the present operation can update Options existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES plUseBeforeImage Enables the concurrency mode. NOTE: All concurency-related Options input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode. Default: NO</empty></any></pre>	NPUT PARAMETERS			
<pre>updated excluding poupdatexxceptFieldatist fields; ccomma-separated list> - List of DATA fields that will be updated; protpdateExceptFieldaList A comma-separated list of DATA fields that will be excluded from update by the present operation where, pheread and the present operation where, pheread and the present operation on update Options parameter will be incread. Values: carp string that corresponds to the description> Default: campt string. PlimportEnableUpdate A file specifying whether the present operation on update Options presents will be incread. Values: carp string that corresponds to the description> Default: campt string. PlimportEnableUpdate A file specifying whether the present operation and update Options records in the table, which are in the AUTO DETECT mode (have empty value of the CONNew filed). Values: YES - Allows to update existing records. Default: YKS PlUseBeforeImage FilesDes the concurrency mode. NOTE: All concurrency mode input/output parameters make sense only when the concurrency mode is enabled; plUseBeforeImage-TES. Operation should receive Before Image for the INUT-OUPTUT INTITY dataset. NO - Does not enable the concurrency mode. Default: NO pocConcurrency of each of the site is ampt string or the concurrency check. If the list is ampt string or the concurrency check. If the list is ampt string or the concurrency check. If the list is ampt string or the concurrency check. If the list is ampt string or the concurrency check. If the list is ampt string or the concurrency check. If the list is ampt string or the string > Default: very string > DEfault: very string > DEfault: campt string > DEfault: concurrency check data> List of context fields that are required for service and are not defined. L</pre>				
<pre>updated excluding poupdatesxceptFieldaList fields; ccomma-separated list> - List of DATA fields that will be updated; - All DATA fields will be updated excluding poUpdateExceptFieldaList fields Default: <empty brings<br="">poUpdateExceptFieldsList A comma-separated list of DATA fields that will be excluded from update by the present operation where, the parameter will be ignored. V:. Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty a="" string?<=""> plImportEnableUpdate A flag specifying whether the present operation and update Options tecords in the table, which are in the AUTO DETECT mode (have empty value of the colNew field). Values: YKS - Allows to update existing records. Default: YKS plUgeBeforeImage Fibeles the concurrency mode. NOTE: All concurrency-related Options input/output parameters make sense only when the concurrency mode is enabled; plUgeBeforeImage-FKS. Operation should receive Before Image for the NUTO-OUPTUT ENTIFY dataset. NO - Does not allow to update existing records. Default: NO pocConcurrency mode: Values: xany string that corresponds to the description> Default: NO pocConcurrency defined, the operation will use all DATA fields will use all DATA fields will use all DATA for the concurrency deck. If the list is empty string or the concurrency deck. If the list is empty string or the concurrency deck. If the list is empty string or the concurrency deck. If the list is empty string or the concurrency deck. If the list is empty used for the concurrency deck. If the list is empty using or the string strings UTPUT DARAMETERS ExecuteStatus Operation status. If there are no OPERATION level errors. His parameter will be excluded from the output output, strings UTPUT DARAMETERS ExecuteStatus Operation status. If there are no OPERATION level errors this parameter will be excluded from the output of concurrency provide and are not defined. Level: OPERATION RUM_ERROR,1005 ENV_ERROR,1005 ENV_ERROR,1005 ENV_ERROR,1005 ENV_ERROR,1005 ENV_ERROR</empty></any></empty></pre>				
<pre>comma-ceparated list> - List of DATA fields that will be updated:</pre>		Values:	updated excluding pcUpdateExceptFieldsList	
<pre>cempty strings - All DATA fields will be updated excluding proUpdateExceptFieldsList fields Default: cempty strings pcUpdateExceptFieldsList for any string that corresponds to the description pcUpdateExpected list of DATA fields that will be accluded from update by the present operation when pcUpdateExpected list of DATA fields that will be accluded from update by the present operation when pcUpdateExpected list of DATA fields that will be accluded from update by the present operation when pcUpdateExpected list of DATA fields that when pcUpdateExpected list of nised context data> List of context fields that are required for service and are not defined. Level: OPERATION RUM_ERCOR,1020 RUM</pre>			<comma-separated list=""> - List of DATA fields that</comma-separated>	
excluded from update by the present operation when polpdateRequestFieldList is empty or **. Otherwise, the parameter will be ignored. Values: Any string that corresponds to the descriptions Default: rempty strings A flag specifying whether the present operation can update Options existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETCT mode (have empty value of the cChNNew field). Values: YES plUseBeforeImage Reables the concurrency mode. NOTE: All concurency-related Options Operation should receive before Image for the INFUT-OUPTUT ENTITY dataset. NO - Does not allow to update existing records. Default: YES plUseBeforeImage Reables the concurrency mode. NOTE: All concurency-related Options Operation should receive before Image for the INFUT-OUPTUT ENTITY dataset. NO - Does not enable the concurrency mode. Default: NO pcConcurrencyFieldList A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or FIELDS. Yalues: vany string that corresponds to the descriptions Default: compty string> UTFUT PARAMETERS ExecuteStatus Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below rrors: ID Description NO_CONTEXT_DATA,comma separated list of missed context datas List of context fields that are required for service and are not defined. Level: OPERATION RUM_ERROR,1005 Invalid entry. Level: RECORD RUM_ERROR,1010 RUM_ERROR,1020		Default:	<pre><empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields</empty></pre>	
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errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below NO_CONTEXT_DATA, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1005 RUN_ERROR,1015 Required entry. Level: RECORD RUN_ERROR,1020</comma>	JTPUT PARAMETERS			
ID Description NO_CONTEXT_DATA, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1005 Invalid entry. Level: RECORD RUN_ERROR,1015 Required entry. Level: RECORD RUN_ERROR,1020 RUN_ERROR,1020</comma>	ExecuteStatus	errors, dsContex	this parameter will be excluded from the output t dataset.	
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RUN_ERROR,1015 Required entry. Level: RECORD RUN_ERROR,1020	RUN_ERROR,1005			
RUN_ERROR,1020	RUN_ERROR,1015			
Record already exists. Level: RECORD		ry. Level: 1	RECORD	
	Record alread	dy exists. 3	Level: RECORD	

Add/Update Codes

ID	Description
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	This function is not licensed. Level: OPERATION
RUN_ERROR,1685	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN ERROR, 1755,	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1760,	<pre><fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields></pre>
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD
RUN_ERROR, 1765,	<pre><fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR, 2005,	<code size="">)</code>
	Code length cannot exceed &1. Level: RECORD
RUN_ERROR,2010,	<code-type></code-type>
	Invalid code type &1. Level: RECORD
RUN_ERROR,2015	
	Cannot add/update/delete system code. Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance.

Delete Codes

Operation: apSrvCodesTableSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsCodesTable Description: This operation deletes existing codes from the system. ENTITY TABLE: dsCodesTable.ttCodesTable FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsCodesTable Dataset KEY FIELDS: code-type, cds MANDATORY FIELDS: code-type, cds

> ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Codes.

User Security: Code Table Web Services --> DELETE

Description	Туре
Action for present operation. Values: DELETE - Delete action is requested	Required
Unique Session ID string. Values: <any string=""></any>	Required
Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
Unique Company ID. Values: 1999	Required
Branch ID (unique within the Company). Values: 1999	Required
Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset.	
	<pre>Values: DELETE - Delete action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""> Operation status. If there are no OPERATION level</empty></any></any></any></pre>

ID Description

Delete Codes

rors: ID	Description
NO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN, ERROR, 2000,	<code> + <tab> + <description> + <tab> + <rule id="">+ <tab> + <rule title=""></rule></tab></rule></tab></description></tab></code>
	Cannot delete code. (&1 - &2) Code found in rule #&3 &4. Level: RECORD
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1540	
	Record is currently being used in the system. Cannot delete. Level: RECORD
RUN_ERROR,1685	
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1995,	<code> + <tab> + <description> + <tab> + <employee id=""></employee></tab></description></tab></code>
	Cannot delete code. (&1 - &2) Code found in employee #&3 qualifications. Level: RECORD
RUN_ERROR,2015	
	Cannot add/update/delete system code. Level: RECORD
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAI available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">es></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Read Employee Time Off Records

Operation:	apSrvTimeOffGet INPUT-OUTPUT dsContext, OUTPUT dsEmpTmOff	
Description:	This operation retrieves information about existing employ off records from the system.	ee time
	ENTITY TABLE: dsEmpTmOff.ttEmpTmOff FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsEmpTmOff Dataset KEY FIELDS: cid, bid, tmoffid	sets -
	Fields returned by this operation can be of the following	three
	<pre>types:</pre>	e of n in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	rs.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Employee Time Off Records.	
User Security:	Employee Time Off Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: emptmoff.tmoffid > 100 Values: <any string=""></any>	Required
pcToffStatus	<pre>Employee Time Off code status. Values: A - Active records;</pre>	Optional
pcEmpStat	<pre>Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system.	Optional
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Read Employee Time Off Records

Parameters: Name	Description	Туре
INPUT PARAMETERS		
	NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by emptmoff.tmoffid Values: <any string=""></any>	
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields</empty></comma-separated></pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values:	

Read Employee Time Off Records

ID	Description
RUN_ERROR	,LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR (#1170)	,Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	,Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	,Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Employee Time Off Records

pcSessionID pcUserID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""></any></any>	Required Required
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
Parameters: Name INPUT PARAMETE	Description	Туре
User Security:	Employee Time Off Web Services> ADD Employee Time Off Web Services> UPDATE	
	EXAMPLE: See eTime Xpress Web Services API Examples - Add Employee Time Off Records.	/Update
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it.	
	NOTE: The system will assign automatically generated values to the Time Off Record ID (ttEmpTmOff) field of new records.	
	The cChkNew field is used as a record mode flag and can have the following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of the plImportEnableUpdate parameter is set to YES (default), and there is already a record in the system with the same KEY FIELDS as in the current record, then the record will be in the UPDATE record mode. Otherwise, the record will be in the ADD record mode.</empty>	
	ENTITY TABLE: dsEmpTmOff.ttEmpTmOff FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsEmpTmOff Dataset KEY FIELDS: cid, bid, tmoffid MANDATORY FIELDS: cid, bid, tmoffid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
Description:	This operation creates new and/or updates information above existing employee time off records in the system.	ut
Operation:	apSrvTimeOffSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsEmpTmOff	

piCompanyID

piBranchID

_ _ _ _ _ _

pcUpdateRequestFieldsList

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will be updated;

parameters are not defined. Values: *

fields;

Branch ID (unique within the Company).

"*" string or a comma-separated list of DATA fields that

updated excluding pcUpdateExceptFieldsList

<comma-separated list> - List of DATA fields that

- All DATA fields will be

will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList

Unique Company ID.

Values: 1..999

Values: 1..999

Required

Required

Optional

Parameters: Name	Description	Туре
NPUT PARAMETERS		
	<pre><empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></empty></pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	Optiona
plAllowRewriteWebTime	<pre>Allows to update Time Off records created in WebX and imported into eTime (webtmoffid <> 0). Once such a record is modified, the webtmoffid field will be set to zero. Values: YES - Allows to update; NO - Does not allow to update. Default: NO</pre>	Optional
plRunAsOneTransaction	<pre>Process All Time Off records from dataset in one transaction. When adding multiple records in one transaction, it is possible to ignore errors of specific types using the plIgnoreUniqueError, plIgnoreEmployeeError, plIgnoreTimeOffCodeError, plIgnoreTimeOffCodeStatusError, and plIgnoreWebTimeOffPartError parameters. These parameters will not allow creating invalid records: if corresponding errors occur, the operation will roll back changes for the invalid record and return warning for it. All remaining records will be processed without rolling back the entire transaction. Values: YES - If any of the records cannot be added/updated, the changes for all records in the transaction will be rolled back; NO - If a record cannot be added/updated, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to add/update remaining records. Default: NO</pre>	Optiona
plIgnoreUniqueError	Returns a warning instead of the Unique Time Off record error. This error occurs if another Time Off record exists in the system with the same combination of Company/Branch/Employee/Date/Time Start/Time End/Time Off Code fields values. See more information in the description of the plRunAsOneTransaction parameter. Values: YES - Returns "IGNORE_UNIQUE" warning in the ttEmptmoff.cValmess field; NO - Returns error in the ttEmptmoff.cValmess field. Default: NO	Optiona:
plIgnoreEmployeeError	Returns a warning instead of the employee related errors. These errors occur if employee validation failed. See more information in the description of the plRunAsOneTransaction parameter. Values: YES - Returns "IGNORE_EMPLOYEE_NOT_ACTIVE" / "IGNORE_EMPLOYEE" warnings in the ttEmptmoff.cValmess field; NO - Returns error in the ttEmptmoff.cValmess	Optiona:

arameters: Name	Description	Туре
NPUT PARAMETERS		
	field. Default: NO	
plIgnoreTimeOffCodeStatusError	<pre>Returns a warning instead of the Time Off Code Status related errors. These errors occur if Time Off Code Status validation failed. See more information in the description of the plRunAsOneTransaction parameter. Values: YES - Returns "IGNORE_TIMEOFFCODESTATUS" warning</pre>	Optiona
plChangeIdWhenUpdate	Assigns a new value to Time Off Record identifier (timeoffid) each time when a record is updated. Values: YES - Assigns a new value; NO - Does not assign current value. Default: YES	Optiona
plIgnoreWebTimeOffPartError	Returns a warning instead of the Part of Time Off request error. These errors occur if Part of Time Off request validation failed. See more information in the description of the plRunAsOneTransaction parameter.	Option
	<pre>NOTE: if plAllowRewriteWebTime =YES, the record imported from WebX will be updated by the present operation and the value of the present parameter will be ignored. Values: YES - Returns "IGNORE_WEB_TIME_OFF_PART" warning</pre>	
plCheckShiftConflict	Returns a warning instead of the employee related errors. These errors occur if employee validation failed. See more information in the description of the plRunAsOneTransaction parameter. Specifies whether the present operation should check for conflicts with existing shifts. Such conflicts may occur between new/modified Time Off records and existing shifts for the same employee. If plCheckShiftConflict=YES and there are no conflicting shifts, then the Time Off records will be added/updated. If plCheckShiftConflict=YES and one or more scheduled shifts exist for a time range of a new/modified Time Off record, then the following algorithm is used: If the field ttEmpTmOff.ShowErrorMessage = yes, then the current Time Off record will NOT be added/updated and the "CLIENT_ASK" warning message will be returned. If the field ttEmpTmOff.ShowErrorMessage = no, then this Time Off record will be added/updated. If the field ttEmpTmOff.SetOpenShift=yes, then the conflicting shift(s) will be set open. If the field ttEmpTmOff.SetOpenShift=no, then the conflicting shift(s) will not be set open. If plCheckShiftConflict=VN, then the check will not be performed and all specified Time Off records will be always added/updated. The operation will return CheckShiftConflict warnings for all added records in the cValmess fields of the ttEmptmoff table. Values: YES - Checks for conflicts; NO - Does not check for conflicts. Default: YES	Option
plIgnoreTimeOffCodeError	Returns a warning instead of the Time Off Code related errors. These errors occur if Time Off Code validation failed. See more information in the description of the plRunAsOneTransaction parameter.	Option

Name		Descrip		Туре
NPUT PARAMETE	RS			
		Values: Default:	YES - Returns "IGNORE_TIMEOFFCODE" warning in the ttEmptmoff.cValmess field; NO - Returns error in the ttEmptmoff.cValmess field. NO	
plUseBeforeImag	e	input/out concurren Operation ENTITY da	YES - Enables the concurrency mode; NO - Does not enable the concurrency mode.	Option
pcConcurrencyFi	eldList	for the or it is FIELDS. Values:	separated list of DATA FIELDS that will be used concurrency check. If the list is empty string not defined, the operation will use all DATA <any corresponds="" description="" string="" that="" the="" to=""> <empty string=""></empty></any>	Option
UTPUT PARAMET	ERS			
ExecuteStatus		errors, t dsContext	n status. If there are no OPERATION level this parameter will be excluded from the output t dataset. See Errors part below	
rrors: ID	Description			
NO_CONTEXT_DATA		: fields t	f missed context data> that are required for service and are not defined.	
RUN_ERROR, WRON	G_CONTEXT_DATA_S	SERVICE	s set to be run by one call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry.			
RUN_ERROR,1020	Record already	exists. I	Level: RECORD	
RUN_ERROR,1025	Record is curre	ently loc}	ked. Level: RECORD	
RUN_ERROR,1065	Record no longe	er exists	. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1145	Invalid entry. OPERATION	Enter hou	urs as 00 to 23 and minutes as 00 to 59. Level:	
RUN_ERROR,1240	You do not have OPERATION, RECO		y privileges to access this function. Level:	
RUN_ERROR,1435	This function i	is not lid	censed. Level: OPERATION	

rors: ID	Description
RUN_ERROR,1685	Truelid [80amanel] / [8Duarahel] arrhination I and I DECODD
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1700	Invalid [%Employee%] ID. Level: RECORD
RUN ERROR, 1755,	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN ERROR,1760,	<pre><fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields></pre>
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD
RIN ERROR 1765	<pre><fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,1775	Wrong archive key. Level: RECORD
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2185	
KON_ERROR,2105	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,6005	
	Time Off Type &1 is Invalid. Level: RECORD
RUN_ERROR,6010	
	This record is a part of a time off request. Level: RECORD
RUN_ERROR,6015	
	Shift conflict with time off Level: RECORD
RUN_ERROR,INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D CONTEXT DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Employee Time Off Records

Operation: apSrvTimeOffSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsEmpTmOff
Description: This operation deletes existing employee time off records from the system.
ENTITY TABLE: dsEmpTmOff.ttEmpTmOff FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsEmpTmOff Dataset KEY FIELDS: cid, bid, tmoffid MANDATORY FIELDS: cid, bid, tmoffid ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect

Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Employee Time Off Records.

User Security: Employee Time Off Web Services --> DELETE

arameters: Name	Description	Type
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	

Errors: ID

Delete Employee Time Off Records

Name	Description	Туре
TPUT PARAMET	ERS	
NO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined Level: OPERATION	
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025		
	Record is currently locked. Level: RECORD	
RUN_ERROR,1065		
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435		
	This function is not licensed. Level: OPERATION	
RUN_ERROR,1685		
	Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR,1700		
	Invalid [%Employee%] ID. Level: RECORD	
RUN_ERROR,2185		
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD	
RUN_ERROR,6015		
	Shift conflict with time off Level: RECORD	
RUN_ERROR,INVAL available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<="" td=""><td>of</td></comma-separated></tab></context>	of
	The &1 parameter's value must be one of the following: &2. Level: OPERATION	
RUN_ERROR,LOCKE	D_CONTEXT_DATA	
	Context record is currently locked. Level: OPERATION	
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)	
	Invalid Session ID. Level: OPERATION	
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrate 1460)	or for
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION	

Read Volunteer Records

Operation:	apSrvVolunshGet INPUT-OUTPUT dsContext, OUTPUT dsVolunsh	
Description:	This operation retrieves information about existing volunt records from the system.	eer
	ENTITY TABLE: dsVolunsh.ttVolunsh FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsVolunsh Dataset KEY FIELDS: volunid	sets -
	Fields returned by this operation can be of the following	three
	<pre>types: - DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more informatio description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the ba the "raw" data, and - SYSTEM FIELDS, required for system purposes.</pre>	e of n in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Volunteer Records.	
User Security:	Volunteer Scheduling Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: volunsh.volcode <> "CD" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by volunsh.volcode Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcEmployeeStatu	<pre>s Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records.</empty></pre>	Optional
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Read Volunteer Records

Name		Description	Туре
NPUT PARAMETEI	RS		
		Default: <empty string=""></empty>	
pcCustomerStatu	s	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records.</empty>	Optiona
		Default: <empty string=""></empty>	
pcSiteStatus		<pre>Site status. Values: A - Active records;</pre>	Optiona
UTPUT PARAMETI	ERS		
ExecuteStatus		Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServ	iceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <a href="mailto:values : values : <a h<="" td=""><td></td>	
rrors:	Degguintien		
rrors: ID	Description	1	
ID	, <comma separat<="" td=""><td>ted list of missed context data> xt fields that are required for service and are not defined.</td><td></td></comma>	ted list of missed context data> xt fields that are required for service and are not defined.	
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Read Volunteer Records

ID	Description
	OPERATION
RUN_ERROP	,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
_	.,Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance.

escription:	INPUT-OUTPUT dsContext, INPUT-OUTPUT dsVolunsh This operation creates new and/or updates information abou existing volunteer records in the system.	ıt	
	ENTITY TABLE: dsVolunsh.ttVolunsh FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsVolunsh Dataset KEY FIELDS: volunid MANDATORY FIELDS: cid, bid, volunid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields		
	The cChkNew field is used as a record mode flag and can have following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of to plImportEnableUpdate parameter is set to YES (default), ar is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the nd there 3 as in record	
	NOTE: To add new volunteer records (ADD record mode), the following condition should be met: - The Volunteer Shift ID (volunid) field should be set to system will assign automatically generated values to the v field of new records.		
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not stop only failed record transaction will be rolled back. The operation will proceed to add/update remaining records.		
	RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not	lds will ot stop:	
	RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op	lds will ot stop: peration	
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ser Security: arameters: Name	RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Volunteer Records. Volunteer Scheduling Web Services> ADD	lds will ot stop: peration	
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arameters: Name	RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Volunteer Records. Volunteer Scheduling Web Services> ADD Volunteer Scheduling Web Services> UPDATE Description	lds will ot stop: peration /Update Type	
arameters: Name NPUT PARAMETE	RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Volunteer Records. Volunteer Scheduling Web Services> ADD Volunteer Scheduling Web Services> UPDATE Description RS Action for present operation.	lds will ot stop: oeration /Update Type Required	
arameters: Name NPUT PARAMETE pcAction	RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Volunteer Records. Volunteer Scheduling Web Services> ADD Volunteer Scheduling Web Services> UPDATE Description RS Action for present operation. Values: ADD_UPDATE - Add/Update action is requested Unique Session ID string.	lds will ot stop: peration /Update Type Required Required	
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Name	Description	Туре
INPUT PARAMETERS		
	pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be	
	<pre>updated excluding pcUpdateExceptFieldsList fields;</pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	Optional
pcEmpStat	<pre>Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcSiteStat	<pre>Site status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurrency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	Optional
pcConcurrencyFieldList	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	

TYPUT PARAMETERS TD Description NO_CONTEXT_DATA, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION RUM_ERROR,1005 More than one service is set to be run by one call. Level: OPERATION RUM_ERROR,1005 Invalid entry. Level: RECORD RUM_ERROR,1005 Record is currently locked. Level: RECORD RUM_ERROR,1005 Record is currently locked. Level: RECORD RUM_ERROR,1005 Record no longer exists. Refresh recommended. Level: OPERATION, RECORD RUM_ERROR,1055 Record no longer exists. Refresh recommended. Level: OPERATION, RECORD RUM_ERROR,1055 Record no longer exists. Refresh recommended. Level: OPERATION, RECORD RUM_ERROR,1145 Invalid entry. Enter hours as 00 to 23 and minutes as 00 to 59. Level: OPERATION RUM_ERROR,1240 You do not have security privileges to access this function. Level: OPERATION RUM_ERROR,1655 Invalid (%Company%) / (%Branch%) combination. Level: RECORD RUM_ERROR,1755 Fields Label> + <tab> + <max field's="" size<="" td=""> RUM_ERROR,1755 Fields Label> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""> / FRCORD RUM_ERROR,1755 Fields Label> + <tab> + <comma-separated avaulable="" list="" of="" record<="" td="" values=""> RUM_ERROR,1755 Fields Label> + <tab> + <comma-separa< th=""><th>Туре</th></comma-separa<></tab></comma-separated></tab></max></tab></min></tab></max></tab></comma>	Туре
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<pre>RUN_ERROR,1765,<fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""> The &1 field's value must be one of the following: &2. Level: RECORD RUN_ERROR,1815 Invalid [%Service%]. Level: RECORD RUN_ERROR,1965 There are wrong fields in the requested list: &1. Level: RECORD</comma-separated></tab></fields></pre>	
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RUN_ERROR,1815 Invalid [%Service%]. Level: RECORD RUN_ERROR,1965 There are wrong fields in the requested list: &1. Level: RECORD	
Invalid [%Service%]. Level: RECORD RUN_ERROR,1965 There are wrong fields in the requested list: &1. Level: RECORD	
There are wrong fields in the requested list: &1. Level: RECORD	
There are wrong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,2185	
Record has been changed by another user or system process. Refresh recommended. Level: RECORD	
RUN_ERROR,5095	
Record ID cannot be found. Unable to update. Level: RECORD	

Errors:

ID Description

available values>

The &1 parameter's value must be one of the following: &2. Level: <code>OPERATION</code>

RUN_ERROR,LOCKED_CONTEXT_DATA

Context record is currently locked. Level: OPERATION

RUN_ERROR, Service Session failure: Company/Branch access has not been set up for this user. (#1170)

 $[\mathrm{Company}]/[\mathrm{Branch}]$ access has not been set up for this user. Level: <code>OPERATION</code>

RUN_ERROR, Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION

RUN_ERROR, Service Session failure: User ID is not valid. Contact your system administrator for assistance. (#1460)

User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Volunteer Records

Operation:apSrvVolunshSave
INPUT-OUTPUT dsContext, INPUT-OUTPUT dsVolunshDescription:This operation deletes existing volunteer records from the system.

ENTITY TABLE: dsVolunsh.ttVolunsh FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsVolunsh Dataset KEY FIELDS: volunid MANDATORY FIELDS: cid, bid, volunid

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Volunteer Records.

User Security: Volunteer Scheduling Web Services --> DELETE

arameters: Name	Description	Туре
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcEmpStat	<pre>Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcSiteStat	<pre>Site status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
plDeleteRotation	Proceeds Delete rotation. Values: YES - Proceeds deletes rotation;	Optional
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related	Optional

Delete Volunteer Records

Name	Description	Туре
NPUT PARAMETE	RS	
	input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	
pcConcurrencyFi	eldList A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS.	Optiona
	Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
UTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
NO_CONTEXT_DATA	<pre>,<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma></pre>	
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
RUN_ERROR,1685		
RUN_ERROR,1705	Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR,1815	Invalid [%Customer%] ID. Level: RECORD	
RUN_ERROR,2185	Invalid [%Service%]. Level: RECORD Record has been changed by another user or system process. Refresh recommended. Level: RECORD	
RUN_ERROR, INVAL available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<="" td=""><td>f</td></comma-separated></tab></context>	f

Delete Volunteer Records

rors: ID	Description
RUN_ERROR,Ser (#1170)	vice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Ser	vice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Ser assistance.	vice Session failure: User ID is not valid. Contact your system administrator for (#1460)

Emp JT dsContext, INPUT dsShifts, OUTPUT dsAvailability	Operation:
tion determines availability of existing employees. It ployees which can be assigned to certain shifts.	Description:
LE: dsShifts.ttShifts CRIPTION: See eTime Xpress Web Services API Datasets - ataset s shiftid	
LE: dsAvailability.ttEmployee CRIPTION: See eTime Xpress Web Services API Datasets - Lity Dataset cid, eid	
LE: dsAvailability.ttAvailEmp CRIPTION: See eTime Xpress Web Services API Datasets - Lity Dataset e eid	
CONSHIP: dsAvailability.ttAvailEmp.eid 1:1> Lity.ttEmployee.eid	
arned by this operation can be of the following three	
LDS, which contain "raw" object information (some of ds are marked as DATA-READ - see more information in the of the Add/Update operation),	
lata, and ELDS, required for system purposes.	
ne contents of the dsShifts.ttShifts table, the will have different behaviour: e no records in the dsShifts.ttShifts table. The will create and use a temporary shift for availability re:	
s.shdate = <pdshiftdate> s.tmstart = <pishiftstart> s.tmend = <pishiftend></pishiftend></pishiftstart></pdshiftdate>	
-	
s.cid = <picompanyid></picompanyid>	
s.uid = <pishiftcustomerid></pishiftcustomerid>	
one record in the dsShifts.ttShifts table. The	
vill use information from all of its fields, except: s.shdate = <pdshiftdate></pdshiftdate>	
s.tmstart = <pishiftstart> s.tmend = <pishiftend></pishiftend></pishiftstart>	
s.breaks = <peshiftbreak></peshiftbreak>	
s.cid = <picompanyid></picompanyid>	
s.uid = <pishiftcustomerid></pishiftcustomerid>	
s.sid = <pishiftsiteid>. e two or more record in the dsShifts.ttShifts table. The</pishiftsiteid>	
vill apply MULTIPLE SHIFTS AVAILABILITY logic. In this	
eak>, <pcshiftservicetype>, <pishiftcustomerid>, ceID> will be ignored - each shift will should contain</pishiftcustomerid></pcshiftservicetype>	
<pre>RIPTION: See eTime Xpress Web Services API Datasetity Dataset .eid CONSHIP: dsAvailability.ttAvailEmp.eid 1:1> .lity.ttEmployee.eid rneed by this operation can be of the following three .DS, which contain "raw" object information (some of ls are marked as DATA-READ - see more information in th of the Add/Update operation), DF FIELDS, whose values are calculated on the basis of lata, and ELDS, required for system purposes. ne contents of the dsShifts.ttShifts table, the vill have different behaviour: e no records in the dsShifts.ttShifts table. The vill create and use a temporary shift for availability re: s.tmstart = <pishiftstart> s.tmend = <pishiftstart> s.tmend = <pishiftstervicetype> s.cid = <pishiftstervicetype> s.cid = <pishiftstate> s.tmstart = <pishiftstate> s.tmstart = <pishiftstate> s.tmstart = <pishiftstervicetype> s.cid = <pishiftstervicetype> s.cid = <pishiftend> s.tmestat = <pishiftstervicetype> s.tmstart = <pishiftend> s.tmstart = <pishiftend> s.tmestat = <pishiftstervicetype> s.cid = <pishiftend> s.tmstart = <pishiftend> s.t</pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftend></pishiftstervicetype></pishiftend></pishiftend></pishiftstervicetype></pishiftend></pishiftstervicetype></pishiftstervicetype></pishiftstate></pishiftstate></pishiftstate></pishiftstervicetype></pishiftstervicetype></pishiftstart></pishiftstart></pre>	

	correct all	correspondend field data.	
	Use cValmes RECORD leve	ING: Status parameter to detect OPERATION level erro s and cObjectName fields in returned dsShifts t l errors. If such an error occurred, these fiel or ID and name of the object, which caused it.	o detect
	EXAMPLE: Se Availabilit	e eTime Xpress Web Services API Examples - Get Y.	Employee
User Security:		o Services> READ ailability Web Services> READ	
Parameters: Name		Description	Туре
INPUT*/OUTPUT*	PARAMETERS		
Read Employee D	ata Parameters	 All Read Employee parameters EXCEPT pcStatus, pcSort, all *Batch* parameters. Also, pcWhere parameter is an optional. Based on parameters, the operation will select list of employees to be checked against specific availability rules. Values: See more details in the Read Employee data documentation part Default: N/A 	
INPUT PARAMETE	RS		
pdShiftDate		Shift Scheduled Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY</any>	Required
piShiftStart		Shift Scheduled Start. Values: HHMM - Etime's Time , where HH - 0023, MM - 0059	Required
piShiftEnd		Shift Scheduled End. Values: HHMM - Etime's Time , where HH - 0023, MM - 0059	Required
piShiftCustomer	ID	Shift Customer ID. Values: 1999	Required
piShiftSiteID		Shift Site ID. Values: 1999	Required
peShiftBreak		Shift Break, hours. Values: 099.999	Required
pcShiftServiceT	уре	Shift Service Type. Values: <any string=""></any>	Required
plExperienceAtC	ustomerSite	Applies the "Experience at customer site" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optional
plMeetsShiftQua	lifications	Applies the "Meets shift qualifications" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optional
plNoOvertimeCau	sed	Applies the "No overtime caused" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optional

arameters: Name	Description	Туре
IPUT PARAMETERS		
plNotScheduledOnThisDay	Applies the "Not scheduled on this day" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plListEmployeesWithDayOff	Applies the "List employees with day off" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plServiceTypeInEmpPayRates	Applies the "Service Type found in employee pay rates" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plDoesNotExceedSiteMaxPayRate	Applies the "Does not exceed site max pay rate" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plMatchesDefServiceType	Applies the "Matches default service type" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plUnionizedEmployee	Applies the "Unionized employee" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
piConsecutiveDayOff	Applies the "Not during <piconsecutivedayoff> consecutive days off" filter. Values: 199; not passed to the server - Does not apply the filter. Default: N/A</piconsecutivedayoff>	Optiona
pcDepartment	<pre>Applies the "<pcdepartment>" filter. The filter can be a single department code or a comma-separated list of departments. Values: <any string=""> - Applies the filter; not passed to the server - Does not apply the filter. Default: N/A</any></pcdepartment></pre>	Optiona
pcPosition	<pre>Applies the "<pcposition>" filter. The filter can be a single position code or a comma-separated list of positions. Values: <any string=""> - Applies the filter; not passed to the server - Does not apply the filter. Default: N/A</any></pcposition></pre>	Optiona
pcEmployeeType	<pre>Applies the "<pcemployeetype>" filter. The filter can be a single employee type code or a comma-separated list of employee types. Values: <any string=""> - Applies the filter; not passed to the server - Does not apply the filter. Default: N/A</any></pcemployeetype></pre>	Optiona
pcVolunteerCode	Applies the " <pcvolunteercode>" filter. The filter can be a single volunteer code or a comma-separated list of volunteer codes.</pcvolunteercode>	Optiona

Name	Description	Туре
IPUT PARAMETERS		
	<pre>Values: <any string=""> - Applies the filter; not passed to the server - Does not apply the filter. Default: N/A</any></pre>	
pcTotalHoursPeriod	<pre>Applies the "Total hrs less than <petotalhoursmax> hrs for <pctotalhoursperiod>" filter. Values: DAY - One day period;</pctotalhoursperiod></petotalhoursmax></pre>	Optiona
peTotalHoursMax	<pre>Applies the "Total hrs less than <petotalhoursmax> hrs for <pctotalhoursperiod>" filter. Values: 0999; not passed to the server - Does not apply the filter. Default: N/A</pctotalhoursperiod></petotalhoursmax></pre>	Optiona
peRestPeriodHours	Applies the "Rest Period between shifts <perest period<br="">Hours> hrs" filter. Values: 0504; not passed to the server - Does not apply the filter. Default: N/A</perest>	Optiona
plEmployeeIsDoubleBooked	Applies a rule that corresponds to the Company/Branch Message Type "Employee is Double Booked to a Shift" = "Error". Values: YES - Applies the rule; NO - Does not apply the rule. Default: NO	Optiona
plLocationTravelTime	Applies a rule that corresponds to the Company/Branch Message Type "Location Travel Time" = "Error". Values: YES - Applies the rule; NO - Does not apply the rule. Default: NO	Optiona
plEmployeeMinimumRestPeriod	Applies a rule that corresponds to the Company/Branch Message Type "Employee Minimum Rest Period Between Shifts" = "Error". Values: YES - Applies the rule; NO - Does not apply the rule. Default: NO	Optiona
plShiftIsRestricted	Applies a rule that corresponds to the Company/Branch Message Type "Shift is restricted" = "Error". Values: YES - Applies the rule; NO - Does not apply the rule. Default: NO	Optiona
plEmployeeHasTimeOff	Applies a rule that corresponds to the Company/Branch Message Type "Employee has Time Off" = "Error". Values: YES - Applies the rule; NO - Does not apply the rule. Default: NO	Optiona
plEmployeeHasRequestedTimeOff	<pre>Applies a rule that corresponds to the Company/Branch Message Type "Employee has Requested that Time Off" = "Error". Values: YES - Applies the rule; NO - Does not apply the rule. Default: NO</pre>	Optiona
plEmployeeBudgetIsExceeded	Applies the "Employee Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter.</any>	Optiona

Name	Description	Туре
PUT PARAMETERS		
	Default: NO	
plSiteBudgetIsExceeded	Applies the "Site Budget Exceeded" filter. Values: YES - Applies the filter;	Optiona
plEmployeeDailyBudget	<pre>Applies the "Employee Daily Budget Exceeded" filter. Values: YES - Applies the filter;</pre>	Optiona
plEmployeeWeeklyBudget	Applies the "Employee Weekly Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plEmployeeMonthlyBudget	<pre>Applies the "Employee Monthly Budget Exceeded" filter. Values: YES - Applies the filter;</pre>	Optiona
plCustomerDailyBudget	Applies the "Customer Daily Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plCustomerWeeklyBudget	Applies the "Customer Weekly Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plCustomerMonthlyBudget	Applies the "Customer Monthly Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plSiteDailyBudget	Applies the "Site Daily Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plSiteWeeklyBudget	Applies the "Site Weekly Budget Exceeded" filter. Values: YES - Applies the filter; <any other="" values=""> or not passed to the server - Does not apply the filter. Default: NO</any>	Optiona
plSiteMonthlyBudget	Applies the "Site Monthly Budget Exceeded" filter. Values: YES - Applies the filter;	Optiona
plAllowOverwriteGlobalRules	Ignores rules that correspond to the following Company/Branch Message Types: plEmployeeIsDoubleBooked plLocationTravelTime plEmployeeMinimumRestPeriod plShiftIsRestricted plEmployeeHasTimeOff plEmployeeHasRequestedTimeOff Values: YES - Does not use the above rules;	Optiona

IPUT PARAMETER	RS	
	NO - Uses the above rules (as in VS). Default: NO	
JTPUT PARAMETE		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rors: ID	Description	
NO_CONTEXT_DATA,	<pre>,<comma context="" data="" list="" missed="" of="" separated=""></comma></pre>	
	List of context fields that are required for service and are not defined Level: $\ensuremath{OPERATION}$	
RUN_ERROR, WRONG	J_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Record is not available. Level: RECORD	
RUN_ERROR,1115	Period week start day is not defined. Level: OPERATION	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435		
	This function is not licensed. Level: OPERATION	
RUN_ERROR,1835,	<pre><detail business-logic="" error="" from="" routine="" shift'="" string="" validation=""> <detail business-logic="" error="" from="" routine="" shift'="" string="" validation=""> Level: RECORD</detail></detail></pre>	
RUN_ERROR,1965		
	There are wrong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1980,	<query string=""> Invalid QUERY string: &1. Level: OPERATION</query>	
RUN_ERROR,2030,<	<pre><parameter value=""> + <tab> + <error description=""> Parameter &1 error: &2 Level: OPERATION</error></tab></parameter></pre>	
	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""><td>of</td></comma-separated></tab></context>	of
available values	s> The &1 parameter's value must be one of the following: &2. Level: OPERATION	
RUN_ERROR,LOCKEI	D_CONTEXT_DATA Context record is currently locked. Level: OPERATION	
RUN_ERROR,Servic (#1170)	ce Session failure: Company/Branch access has not been set up for this use	er.
(#11,0)	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION	
RUN_ERROR,Servic	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION	
	ce Session failure: User ID is not valid. Contact your system administrate	or for
assistance. (#1	L460)	

Errors: ID

Description

User ID is not valid. Contact your system administrator for assistance. Level: <code>OPERATION</code>

Operation:	apSrvEmpWebAcGet INPUT-OUTPUT dsContext, OUTPUT dsEmpWebAc	
Description:	This operation retrieves information about existing employ Xpress accounts from the system.	ree Web
	ENTITY TABLE: dsEmpWebAc.ttEmpWebAc FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsEmpWebAc Dataset KEY FIELDS: cid,bid,eid	sets -
	Fields returned by this operation can be of the following	three
	 types: DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more informatic description of the Add/Update operation), CALCULATED FIELDS, whose values are calculated on the bathe "raw" data, and SYSTEM FIELDS, required for system purposes. 	on in the
	NOTE: The value of the password field returned by this ope is always an empty string.	eration
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	ors.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Employee Web Xpress Accounts.	l
User Security:	Employee Web Xpress Account> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
INPUT PARAMETE	RS Unique Session ID string. Values: <any string=""></any>	Required
	Unique Session ID string.	Required Required
pcSessionID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed.</any>	
pcSessionID pcUserID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID.</any></any>	Required
pcSessionID pcUserID piCompanyID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company).</any></any>	Required
pcSessionID pcUserID piCompanyID piBranchID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: empwebac.loginid = "test"</any></any>	Required Required Required
pcSessionID pcUserID piCompanyID piBranchID pcWhere	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: empwebac.loginid = "test" Values: <any string=""> Web Xpress System Administrator Login ID. Values: <any string=""></any></any></any></any>	Required Required Required Required
pcSessionID pcUserID piCompanyID piBranchID pcWhere pcWEBXPLoginID	Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: empwebac.loginid = "test" Values: <any string=""> Web Xpress System Administrator Login ID. Values: <any string=""> Web Xpress System Administrator Password.</any></any></any></any>	Required Required Required Required

Parameters: Name	Description	Туре
INPUT PARAMETERS		
	<pre>be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttEmpWebAc.eid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch Key record. In case of the success, the original Batch Key record will not be the first record in the batch.</field></field>	

Name	Description	Туре
NPUT PARAMETERS		
	Values: <any string=""></any>	
pcBatchSearchKeyValue	<pre>Values: <any string=""> Default: <empty string=""> A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character search="" to=""> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails.</string></current></current></character></tab></tab></empty></any></pre>	Optiona
	NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchKeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchOneLetterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkeyl> + + <tab> + <tab>+ <pcbatchkeyl> fails, then the operation will try using <pcbatchkeyl>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkeyl></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></tab></pcbatchkeyl></tab>	Option
UTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	

	Description Ty	ype
TPUT PARAMETERS		
	record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	
plBatchKeySearchOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLetterSearchKey	 A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any> 	
rrors: ID Descrip	tion	
	eparated list of missed context data> context fields that are required for service and are not defined. PERATION	
RUN ERROR, WRONG CONTEXT	DATA SERVICE	
RUN_ERROR, WRONG_CONTEXT_ More than	DATA_SERVICE a one service is set to be run by one call. Level: OPERATION	
More than RUN_ERROR,1060	one service is set to be run by one call. Level: OPERATION	
More than RUN_ERROR,1060		
More than RUN_ERROR,1060 Record is RUN_ERROR,1240	one service is set to be run by one call. Level: OPERATION not available. Level: RECORD	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435	one service is set to be run by one call. Level: OPERATION not available. Level: RECORD	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435 This func	a one service is set to be run by one call. Level: OPERATION a not available. Level: RECORD of have security privileges to access this function. Level: I, RECORD	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435 This func RUN_ERROR,1685	a one service is set to be run by one call. Level: OPERATION a not available. Level: RECORD of have security privileges to access this function. Level: I, RECORD	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435 This func RUN_ERROR,1685	a one service is set to be run by one call. Level: OPERATION e not available. Level: RECORD of have security privileges to access this function. Level: I, RECORD etion is not licensed. Level: OPERATION	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435 This func RUN_ERROR,1685 Invalid [RUN_ERROR,1965	a one service is set to be run by one call. Level: OPERATION e not available. Level: RECORD of have security privileges to access this function. Level: I, RECORD etion is not licensed. Level: OPERATION	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435 This func RUN_ERROR,1685 Invalid [RUN_ERROR,1965 There are RUN_ERROR,1980, <query st<="" td=""><td>a one service is set to be run by one call. Level: OPERATION a not available. Level: RECORD but have security privileges to access this function. Level: U, RECORD attion is not licensed. Level: OPERATION &Company%] / [%Branch%] combination. Level: RECORD a wrong fields in the requested list: &1. Level: RECORD</td><td></td></query>	a one service is set to be run by one call. Level: OPERATION a not available. Level: RECORD but have security privileges to access this function. Level: U, RECORD attion is not licensed. Level: OPERATION &Company%] / [%Branch%] combination. Level: RECORD a wrong fields in the requested list: &1. Level: RECORD	
More than RUN_ERROR,1060 Record is RUN_ERROR,1240 You do no OPERATION RUN_ERROR,1435 This func RUN_ERROR,1685 Invalid [RUN_ERROR,1965 There are RUN_ERROR,1980, <query st<br="">Invalid Q RUN_ERROR,2035</query>	<pre>a one service is set to be run by one call. Level: OPERATION a not available. Level: RECORD at have security privileges to access this function. Level: [, RECORD attion is not licensed. Level: OPERATION %Company%] / [%Branch%] combination. Level: RECORD atting> [] wrong fields in the requested list: &1. Level: RECORD [] wrong fields list: &1. Le</pre>	

rors: ID	Description
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR (#1170)	Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
_	Service Session failure: User ID is not valid. Contact your system administrator for a. (#1460)
	User ID is not valid. Contact your system administrator for assistance.

Add/Update Employee Web Xpress Accounts

Operation:	apSrvEmpWebAcSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsEmpWebAc
Description:	This operation creates new employee Web Xpress accounts in the system.
	ENTITY TABLE: dsEmpWebAc.ttEmpWebAc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets - dsEmpWebAc Dataset KEY FIELDS: cid,bid,eid MANDATORY FIELDS: cid,bid,eid,loginid,password IGNORED FIELDS: all DATA-READ fields, all CALCULATED fields, all SYSTEM fields
	The cChkNew field is used as a record mode flag and can have the following values: - "A" or <empty string=""> - the ADD record mode</empty>
	NOTE: There is no update for this operation.
	To add new employee Web Xpress accounts (ADD record mode), the following condition should be met: - The loginid field of new records should be unique in the system The system will assign automatically generated values to the Employee Web Xpress Account ID (empwebid) fields of new records.
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to add/update remaining records.
	EXAMPLE: See eTime Xpress Web Services API Examples - Add/Update Employee Web Xpress Accounts.

User Security: Employee Web Xpress Account --> ADD

Parameters: Name	Description	Туре
INPUT PARAMETERS		
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcWEBXPLoginID	Web Xpress System Administrator Login ID. Values: <any string=""></any>	Required
pcWEBXPPassword	Web Xpress System Administrator Password. Values: <any string=""></any>	Required
pcUpdateRequestFieldsList	"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both	Optional

Add/Update Employee Web Xpress Accounts

Name	Description	Туре
NPUT PARAMETE	RS	
	<pre>pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be updated; <empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</empty></comma-separated></pre>	
pcUpdateExceptB	Default: <empty string=""> ZieldsList A comma-separated list of DATA fields that will be</empty>	Optiona
	excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
UTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
	Description	
	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma>	
NO_CONTEXT_DAT#	, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined.</comma>	
NO_CONTEXT_DAT#	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE</comma>	
NO_CONTEXT_DATA	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005 RUN_ERROR,1020	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Record already exists. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005 RUN_ERROR,1020 RUN_ERROR,1025	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005 RUN_ERROR,1020 RUN_ERROR,1025 RUN_ERROR,1065	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level:</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005 RUN_ERROR,1020 RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1025 RUN_ERROR, 1065 RUN_ERROR, 1240 RUN_ERROR, 1435	<pre>A,<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION</comma></pre>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005 RUN_ERROR,1020 RUN_ERROR,1025 RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1685	<pre>A,<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION Invalid [%Company%] / [%Branch%] combination. Level: RECORD</comma></pre>	

Add/Update Employee Web Xpress Accounts

	Description
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR, 2035	
	Invalid Web Xpress System Administrator login or password. Level: OPERATION
RUN_ERROR,2040	
	Web Xpress Login ID already exists. Level: RECORD
RUN ERROR, 2045	<pre><fields label=""> + <tab> + <min field's="" size=""></min></tab></fields></pre>
<u>-</u> - , - , - ,	&1 must be at least &2 characters in length. Level: RECORD
RUN_ERROR, 2050	
	[%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION
RUN_ERROR,INVAI available value	LID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">se> The &l parameter's value must be one of the following: &2. Level:</comma-separated></tab></context>
available value	28>
available value	The &1 parameter's value must be one of the following: &2. Level: OPERATION
available value RUN_ERROR,LOCKE	The &1 parameter's value must be one of the following: &2. Level: OPERATION ED_CONTEXT_DATA
available value RUN_ERROR,LOCKE RUN_ERROR,Servi	The &1 parameter's value must be one of the following: &2. Level: OPERATION CONTEXT_DATA Context record is currently locked. Level: OPERATION
available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	The &1 parameter's value must be one of the following: &2. Level: OPERATION CONTEXT_DATA Context record is currently locked. Level: OPERATION Context record is currently locked. Level: OPERATION Context record is currently locked. Level: OPERATION (%Company%]/[%Branch%] access has not been set up for this user. Level:
available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	The &1 parameter's value must be one of the following: &2. Level: OPERATION ED_CONTEXT_DATA Context record is currently locked. Level: OPERATION Ice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
available value RUN_ERROR,LOCKF RUN_ERROR,Servi (#1170) RUN_ERROR,Servi	The &1 parameter's value must be one of the following: &2. Level: OPERATION CONTEXT_DATA Context record is currently locked. Level: OPERATION Lee Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION Lee Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION Lee Session failure: User ID is not valid. Contact your system administrator for
available value RUN_ERROR,LOCKE (#1170) RUN_ERROR,Servi RUN_ERROR,Servi	The &1 parameter's value must be one of the following: &2. Level: OPERATION CONTEXT_DATA Context record is currently locked. Level: OPERATION Lee Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION Lee Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION Lee Session failure: User ID is not valid. Contact your system administrator for
available value RUN_ERROR,LOCKE (#1170) RUN_ERROR,Servi RUN_ERROR,Servi	The &1 parameter's value must be one of the following: &2. Level: OPERATION ED_CONTEXT_DATA Context record is currently locked. Level: OPERATION Lice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION Lice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION Lice Session failure: User ID is not valid. Contact your system administrator for #1460) User ID is not valid. Contact your system administrator for assistance.

Delete Employee Web Xpress Accounts

Operation: apSrvEmpWebAcSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsEmpWebAc Description: This operation deletes existing employee Web Xpress accounts from the system. ENTITY TABLE: dsEmpWebAc.ttEmpWebAc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsEmpWebAc Dataset KEY FIELDS: cid,bid,eid MANDATORY FIELDS: cid,bid,eid ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect

Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Employee Web Xpress Accounts.

User Security: Employee Web Xpress Account --> DELETE

Parameters: Name	Description	Туре
INPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcWEBXPLoginID	Web Xpress System Administrator Login ID. Values: <any string=""></any>	Required
pcWEBXPPassword	Web Xpress System Administrator Password. Values: <any string=""></any>	Required

ExecuteStatus

Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. **Values:** See Errors part below

Errors:

Description

NO_CONTEXT_DATA,<comma separated list of missed context data>

List of context fields that are required for service and are not defined. Level: $\ensuremath{\mathsf{OPERATION}}$

RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE

More than one service is set to be run by one call. Level: OPERATION

RUN_ERROR,1025

Delete Employee Web Xpress Accounts

You do not have security privileges to access this function. Level: OPERATION, RECORD RUN_ERROR,1435 This function is not licensed. Level: OPERATION RUN_ERROR,1685 Invalid [%Company%] / [%Branch%] combination. Level: RECORD RUN_ERROR,1785, <error child="" description="" from="" is<br="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: (*Company%]/(%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></error>	rors: ID	Description
Record no longer exists. Refresh recommended. Level: OPERATION, RECORD RUN_ERROR,1240 You do not have security privileges to access this function. Level: OPERATION, RECORD RUN_ERROR,1435 This function is not licensed. Level: OPERATION RUN_ERROR,1685 Invalid [%Company%] / [%Branch%] combination. Level: RECORD RUN_ERROR,1785, <error child="" description="" from="" is<br="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,1NVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: (%1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></error>		Record is currently locked. Level: RECORD
Record no longer exists. Refresh recommended. Level: OPERATION, RECORD RUN_ERROR,1240 You do not have security privileges to access this function. Level: OPERATION, RECORD RUN_ERROR,1435 This function is not licensed. Level: OPERATION RUN_ERROR,1685 Invalid [%Company%] / [%Branch%] combination. Level: RECORD RUN_ERROR,1785, <error child="" description="" from="" is<br="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,1NVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: (%1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></error>	RUN ERROR 1065	
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OPERATION, RECORD RUN_ERROR,1435 This function is not licensed. Level: OPERATION RUN_ERROR,1685 Invalid [%Company%] / [%Branch%] combination. Level: RECORD RUN_ERROR,1785, <error child="" description="" from="" is<br="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat</comma-separated></tab></context></error>	RUN_ERROR,1240	
<pre>RUN_ERROR,1685 Invalid [%Company%] / [%Branch%] combination. Level: RECORD RUN_ERROR,1785,<error child="" description="" from="" is<br="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></error></pre>		
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RUN_ERROR,1785, <error &1.="" child="" delete.="" description="" from="" is="" level:="" process="" program="" record="" record<="" records="" td="" the="" to="" unable="" when=""> RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated available="" list="" values=""> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUM_ERROR,Service Session failure: Company/Branch access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</comma-separated></tab></context></error>	RUN_ERROR,1685	
<pre>RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat</comma-separated></tab></context></pre>		Invalid [%Company%] / [%Branch%] combination. Level: RECORD
<pre>RUN_ERROR,2035 Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat</comma-separated></tab></context></pre>	RUN_ERROR, 1785,	Error description from the Process Child records program when record is deleted
Invalid Web Xpress System Administrator login or password. Level: OPERATION RUN_ERROR,2050 [%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat</comma-separated></tab></context>		&1. Unable to delete. Level: RECORD
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<pre>[%Company%]/[%Branch%] access has not been set up for Web Xpress System Administrator. Level: OPERATION RUN_ERROR,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list<br="">available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat</comma-separated></tab></context></pre>		
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available values> The &1 parameter's value must be one of the following: &2. Level: OPERATION RUN_ERROR,LOCKED_CONTEXT_DATA Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat		
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Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat		
RUN_ERROR, Service Session failure: Company/Branch access has not been set up for this us (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR, Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR, Service Session failure: User ID is not valid. Contact your system administrat	RUN_ERROR,LOCKE	D_CONTEXT_DATA
<pre>(#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat</pre>		Context record is currently locked. Level: OPERATION
OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat		ce Session failure: Company/Branch access has not been set up for this user.
Invalid Session ID. Level: OPERATION RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrat		
RUN_ERROR, Service Session failure: User ID is not valid. Contact your system administrat	RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
		Invalid Session ID. Level: OPERATION
assistance. (#1460)		
User ID is not valid. Contact your system administrator for assistance. Level: OPERATION		

Read Users

Operation:	apSrvZUsersGet INPUT-OUTPUT dsContext, OUTPUT dsZUsers	
Description:	This operation retrieves information about existing users system.	from the
	ENTITY TABLE: dsZUsers.ttZUsers FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZUsers Dataset KEY FIELDS: usrid	sets -
	Fields returned by this operation can be of the following	three
	 types: DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more informatio description of the Add/Update operation), CALCULATED FIELDS, whose values are calculated on the ba the "raw" data, and SYSTEM FIELDS, required for system purposes. 	e of n in the
	NOTE: The value of the usrpwd field returned by this opera always an empty string.	tion is
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	rs.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read	Users.
User Security:	User Security> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	User's Status Record Flag. Values: A - Active records; I - Inactive records; V - Void records; <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zusers.usrid = "test" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zusers.usrtype Values: <any string=""></any>	Optional
pcReadRequestF	ieldsList "*" string or a comma-separated list of fields that will	Optional

Read Users

arameters: Name	Description	Туре
NPUT PARAMETERS		
	<pre>its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated></pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZUsers.usrid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record. In case of the success, the original Batch Key record will not be the first record in the batch. Values: <any string=""></any></field></field>	Optiona

Read Users

	Description	Туре
NPUT PARAMETERS		
	Default: <empty string=""></empty>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchKeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchNeySearchOK parameter. Values: <any string=""></any></string></current></current></character></tab></tab>	Optiona
	Default: <empty string=""></empty>	
pcBatchRepositionKeys	<pre>Default: <empty string=""> A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkeyl> > t + <tab> + <tab> + <pcbatchkeyl> > fails, then the operation will try using <pcbatchkeyl>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkeyl></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></empty></pre>	Optiona
	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkeyl> + + <tab> + <tab>+ <pcbatchkeyl> fails, then the operation will try using <pcbatchkeyl> fails, then the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""></any></pcbatchkeyl></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></tab></pcbatchkeyl></tab>	Optiona
pcBatchRepositionKeys DUTPUT PARAMETERS ExecuteStatus	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkeyl> + + <tab> + <tab>+ <pcbatchkeyl> fails, then the operation will try using <pcbatchkeyl> fails, then the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""></any></pcbatchkeyl></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></tab></pcbatchkeyl></tab>	Optiona
OUTPUT PARAMETERS	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkeyl> + + <tab> + <tab> + <pcbatchkeyl> , If <pcbatchkeyl> fails, then the operation will try using <pcbatchkeyl>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkeyl></pcbatchkeyl></pcbatchkeyl></tab></tab></pcbatchkeyl></tab></tab></pcbatchkeyl></tab>	Optiona

Read Users

Name	Description	Туре
TPUT PARAMETERS		
	Values: YES - The last record was reached; NO - The last record was NOT reached.	
plBatchKeySearchOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data;	
plBatchOneLetterSearchKey	NO - The operation did NOT return extra data. A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors:		
ID Descriptio	on rated list of missed context data>	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT</comma>	rated list of missed context data> Lext fields that are required for service and are not defined. ATION	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060</comma>	rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE	
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NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060 RUN_ERROR,1240 You do not h OPERATION, F RUN_ERROR,1435 This function RUN_ERROR,1965 There are wr RUN_ERROR,1980, <query string<="" td=""><td>rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION ot available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION rong fields in the requested list: &1. Level: RECORD hg></td><td></td></query></comma>	rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION ot available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION rong fields in the requested list: &1. Level: RECORD hg>	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060 Record is no RUN_ERROR,1240 You do not h OPERATION, F RUN_ERROR,1435 This functio RUN_ERROR,1965 There are wr RUN_ERROR,1980, <query strir<br="">Invalid QUEF RUN_ERROR,INVALID_CONTEXT_DA</query></comma>	rated list of missed context data> text fields that are required for service and are not defined. ATION FA_SERVICE he service is set to be run by one call. Level: OPERATION bt available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060 Record is no RUN_ERROR,1240 You do not h OPERATION, F RUN_ERROR,1435 This function RUN_ERROR,1965 There are wr RUN_ERROR,1980, <query strin<br="">Invalid QUEF RUN_ERROR,INVALID_CONTEXT_DA available values></query></comma>	rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE he service is set to be run by one call. Level: OPERATION bt available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD hg> RY string: &1. Level: OPERATION	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060 Record is no RUN_ERROR,1240 You do not h OPERATION, F RUN_ERROR,12435 This function RUN_ERROR,1965 There are wr RUN_ERROR,1980, <query strint<br="">Invalid QUEF RUN_ERROR,1NVALID_CONTEXT_DA available values> The &1 paran OPERATION RUN_ERROR,LOCKED_CONTEXT_DA</query></comma>	<pre>rated list of missed context data> cext fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION out available. Level: RECORD nave security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD ag> RY string: &1. Level: OPERATION ATA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" be="" fa<="" following:="" level:="" list="" meter's="" must="" of="" one="" pre="" the="" value=""></comma-separated></tab></context></pre>	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060 Record is no RUN_ERROR,1240 You do not f OPERATION, F RUN_ERROR,1435 This function RUN_ERROR,1965 There are wr RUN_ERROR,1980, <query strin<br="">Invalid QUEF RUN_ERROR,1980, <query strin<br="">Invalid QUEF RUN_ERROR,INVALID_CONTEXT_DAT available values> The &l paran OPERATION RUN_ERROR,LOCKED_CONTEXT_DAT</query></query></comma>	<pre>crated list of missed context data> cext fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION obt available. Level: RECORD have security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION crong fields in the requested list: &1. Level: RECORD mg> RY string: &1. Level: OPERATION ATA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: FA ord is currently locked. Level: OPERATION</comma-separated></tab></context></pre>	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1060 Record is no RUN_ERROR,1240 You do not h OPERATION, F RUN_ERROR,1435 This functio RUN_ERROR,1965 There are wr RUN_ERROR,1980, <query strir<br="">Invalid QUEF RUN_ERROR,1980, <query strir<br="">Invalid QUEF RUN_ERROR,INVALID_CONTEXT_DAT available values> The &1 param OPERATION RUN_ERROR,LOCKED_CONTEXT_DAT Context recor RUN_ERROR,Service Session fa (#1170)</query></query></comma>	<pre>rated list of missed context data> cext fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION out available. Level: RECORD nave security privileges to access this function. Level: RECORD on is not licensed. Level: OPERATION cong fields in the requested list: &1. Level: RECORD ag> RY string: &1. Level: OPERATION ATA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" be="" fa<="" following:="" level:="" list="" meter's="" must="" of="" one="" pre="" the="" value=""></comma-separated></tab></context></pre>	

Read Users

ID	Description
	Invalid Session ID. Level: OPERATION
RIN ERROR	,Service Session failure: User ID is not valid. Contact your system administrator for
	e. (#1460)

Add/Update Users

Operation:	apSrvZUsersSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZUsers	
Description:	This operation creates new and/or updates information abo existing users in the system.	ut
	ENTITY TABLE: dsZUsers.ttZUsers FIELDS DESCRIPTION: See eTime Xpress Web Services API Dat dsZUsers Dataset KEY FIELDS: usrid MANDATORY FIELDS: usrid IGNORED FIELDS: all DATA-READ fields, all CALCULATED fiel SYSTEM fields	
	The cChkNew field is used as a record mode flag and can h following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of plImportEnableUpdate parameter is set to YES (default), a is already a record in the system with the same KEY FIELD the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mod</empty>	the nd there S as in record
	<pre>NOTE: To add new users (ADD record mode), the following c should be met: - The usrid field of new records should be unique in the - The usrpwd field is not empty To update users password (UPDATE record mode), the follow condition should be met: - The usrpwd field is not empty.</pre>	system
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level err Use cValmess and cObjectName fields in returned table to RECORD level errors. If such an error occurred, these fie contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will n only failed record transaction will be rolled back. The o will proceed to add/update remaining records.	detect lds will ot stop:
	EXAMPLE: See eTime Xpress Web Services API Examples - Add Users.	/Update
User Security:	User Security> ADD User Security> UPDATE User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Require
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Require
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Require
piCompanyID	Unique Company ID. Values: 1999	Require
piBranchID	Branch ID (unique within the Company). Values: 1999	Require
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Add/Update Users

Name		Description	Туре
IPUT PARAMETE	RS		
pcUpdateRequest		<pre>"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	Option
pcUpdateExcept		A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableU	-	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	Optiona
JTPUT PARAMET	ERS		
ExecuteStatus		Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
ExecuteStatus Frors: ID		errors, this parameter will be excluded from the output dsContext dataset.	
rors: ID	Description	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> : fields that are required for service and are not defined.	
TOTS: ID NO_CONTEXT_DATA	Description A, <comma separate<br="">List of context Level: OPERATIO</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> if fields that are required for service and are not defined.	
TOTS: ID NO_CONTEXT_DATA	Description A, <comma separate<br="">List of context Level: OPERATIO</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> if fields that are required for service and are not defined.	
TTOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON	Description A, <comma separate<br="">List of context Level: OPERATIO</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> c fields that are required for service and are not defined. NN SERVICE service is set to be run by one call. Level: OPERATION	
TTOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON	Description A, <comma separate<br="">List of context Level: OPERATIO IG_CONTEXT_DATA_S More than one s</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> fields that are required for service and are not defined. N SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005	Description A, <comma separate<br="">List of context Level: OPERATIO IG_CONTEXT_DATA_S More than one s Invalid entry. Required entry.</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> fields that are required for service and are not defined. N SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015	Description A, <comma separate<br="">List of context Level: OPERATIO IG_CONTEXT_DATA_S More than one s Invalid entry. Required entry. Record already</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> : fields that are required for service and are not defined. NN SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD Level: RECORD exists. Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020	Description A, <comma separate<br="">List of context Level: OPERATIO IG_CONTEXT_DATA_S More than one s Invalid entry. Required entry. Record already Record is curre</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> fields that are required for service and are not defined. N SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD Level: RECORD exists. Level: RECORD ently locked. Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1025	Description A, <comma separate<br="">List of context Level: OPERATIO IG_CONTEXT_DATA_S More than one s Invalid entry. Required entry. Record already Record is curre</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> : fields that are required for service and are not defined. NN SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD Level: RECORD exists. Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025	Description A, <comma separate<br="">List of context Level: OPERATIO IG_CONTEXT_DATA_S More than one s Invalid entry. Required entry. Record already Record is curre Record no longe</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> fields that are required for service and are not defined. N SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD Level: RECORD exists. Level: RECORD ently locked. Level: RECORD er exists. Refresh recommended. Level: OPERATION, RECORD e security privileges to access this function. Level:	

Add/Update Users

ID	Description
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR, 1755,	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1765,	<fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,1785,	<error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""> &1. Unable to delete. Level: RECORD</error>
RUN_ERROR,1865	Your User ID must be contain only numbers, letters, the hyphen symbol (-) or the underscore symbol (_). Please rename your User ID. Level: RECORD
RUN_ERROR,1965	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2080	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR,INVAI available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	ED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for £1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Users

Errors:

Operation:	apSrvZUsersSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZUsers	
Description:	This operation deletes existing users from the system.	
	ENTITY TABLE: dsZUsers.ttZUsers FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZUsers Dataset KEY FIELDS: usrid MANDATORY FIELDS: usrid	sets -
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to d RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop failed record transaction will be rolled back. The operati proceed to delete remaining records.	etect ds will : only
	EXAMPLE: See eTime Xpress Web Services API Examples - Dele Users.	te
User Security:	User Security> DELETE User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required

pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
OUTPUT PARAMETERS		

ExecuteStatus Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. **Values:** See Errors part below

ID	Description
NO_CONTEXT_DAI	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRC	NG_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	
	Record is currently locked. Level: RECORD
RUN_ERROR,1065	

Delete Users

Description
You do not have security privileges to access this function. Level: OPERATION, RECORD
This function is not licensed. Level: OPERATION
<error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""></error>
&1. Unable to delete. Level: RECORD
Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
Unable to delete. You are currently logged in under this user account. Level: RECORD
ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
The &1 parameter's value must be one of the following: &2. Level: OPERATION
D_CONTEXT_DATA
Context record is currently locked. Level: OPERATION
ce Session failure: Company/Branch access has not been set up for this user.
[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
ce Session failure: Invalid Session ID. (#1670)
Invalid Session ID. Level: OPERATION
ce Session failure: User ID is not valid. Contact your system administrator for 1460)
User ID is not valid. Contact your system administrator for assistance.

Operation:apSrvZAccessGet
INPUT-OUTPUT dsContext, OUTPUT dsZAccessDescription:This operation retrieves information about existing user security

company/branch access records. Each record in the dataset contains information about access of one user to one company/branch combination.

> ENTITY TABLE: dsZAccess.ttZAccess FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsZAccess Dataset KEY FIELDS: cid,bid,usrid

Fields returned by this operation can be of the following three types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the

description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and

- SYSTEM FIELDS, required for system purposes.

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors.

EXAMPLE: See eTime Xpress Web Services API Examples - Read User Security Company/Branch Access.

User Security: User Security Company/Branch Access --> READ

Parameters: Name	Description	Туре
NPUT PARAMETERS		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Reserved for future usage. Values: <empty string=""> - All records.</empty>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zaccess.usrid = "test" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zaccess.usrid Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFieldsList	"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be	Optional
	Page 152 of 267	

Name	Description	Туре
NPUT PARAMETERS		
	<pre>read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZAccess.zaccid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record. In case of the success, the original Batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	-

Name	Description	Туре
INPUT PARAMETERS		
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchNeySearchOK parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <pcbatchkeyn>. If <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></pcbatchkeyn></tab></tab></pcbatchkey2></tab></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Option
DUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <a href="mailto:values : values : <a h<="" td=""><td></td>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

JTPUT PARAMEI		Description	Туре
	ERS		
plBatchKeySeard	chOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found;	
plBatchReturnedExtraData plBatchOneLetterSearchKey		NO - The record was NOT found. Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data. A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
RUN_ERROR, WROL	List of conte Level: OPERA		
RUN_ERROR,1060		e service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1240		ave security privileges to access this function. Level:	
RUN_ERROR,1435	This function	n is not licensed. Level: OPERATION	
RUN_ERROR,1965	There are wro	ong fields in the requested list: &1. Level: RECORD	
	, <query string<="" td=""><td>ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION</td><td></td></query>	ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION	
RUN_ERROR, 1965 RUN_ERROR, 1980	, <query string<br="">Invalid QUER LID_CONTEXT_DA es></query>	g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""><td>f</td></comma-separated></tab></context>	f
RUN_ERROR, 1965 RUN_ERROR, 1980 RUN_ERROR, INVAI	, <query string<br="">Invalid QUER LID_CONTEXT_DA es></query>	g> Y string: &1. Level: OPERATION	£
RUN_ERROR, 1965 RUN_ERROR, 1980 RUN_ERROR, INVAI	<pre>, <query string<br="">Invalid QUER: LID_CONTEXT_DA: es> The &1 parame OPERATION ED_CONTEXT_DATA</query></pre>	g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	£
RUN_ERROR,1965 RUN_ERROR,1980 RUN_ERROR,INVAI available value RUN_ERROR,LOCKI	<pre>, <query string<br="">Invalid QUER LID_CONTEXT_DA es> The &1 parame OPERATION ED_CONTEXT_DAT Context recond ice Session fat</query></pre>	g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">eter's value must be one of the following: &2. Level: A</comma-separated></tab></context>	
RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,INVAI available value RUN_ERROR,LOCKM RUN_ERROR,Serv: (#1170)	<pre>, <query string<br="">Invalid QUER: LID_CONTEXT_DA: es> The &1 parame OPERATION ED_CONTEXT_DAT: Context recon ice Session fa: [%Company%]/ OPERATION ice Session fa:</query></pre>	<pre>g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">eter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION ilure: Company/Branch access has not been set up for this user</comma-separated></tab></context></pre>	

rrors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update User Security Company/Branch Access

Operation:			
	apSrvZAccessS INPUT-OUTPUT	Gave dsContext, INPUT-OUTPUT dsZAccess	
Description:	This operation existing user system.	on creates new and/or updates information abou r security company/branch access records in th	it ie
	FIELDS DESCRI dsZAccess Dat KEY FIELDS: c MANDATORY FIE	cid,bid,usrid ELDS: cid,bid,usrid DS: all DATA-READ fields, all CALCULATED field	
	following val - "A" - the A - "U" - the U - <empty stri<br="">plImportEnabl is already a the current r</empty>	Field is used as a record mode flag and can ha lues: ADD record mode JPDATE record mode ing> - the AUTO DETECT mode: if the value of t LeUpdate parameter is set to YES (default), an record in the system with the same KEY FIELDS record, then the record will be in the UPDATE ise, the record will be in the ADD record mode	the nd there as in record
	NOTE: The system will assign automatically generated values to the Company/Branch Access ID (zaccid) field of new records.		
	Use cValmess	atus parameter to detect OPERATION level erro and cObjectName fields in returned table to d	letect
	contain error If a record c only failed r	errors. If such an error occurred, these fiel ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records.	ot stop:
	contain error If a record c only failed r will proceed EXAMPLE: See	r ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op	ot stop: peration
Jser Security:	contain error If a record of only failed r will proceed EXAMPLE: See User Security User Security User Security	r ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/	ot stop: peration
Jser Security: Parameters: Name	contain error If a record of only failed r will proceed EXAMPLE: See User Security User Security User Security User should h	r ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ r Company/Branch Access. r Company/Branch Access> ADD r Company/Branch Access> UPDATE	ot stop: peration
Parameters:	contain error If a record of only failed r will proceed EXAMPLE: See User Security User Security User Security User should h	r ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ r Company/Branch Access. r Company/Branch Access> ADD r Company/Branch Access> UPDATE have an administration rights	ot stop: peration Update
Parameters: Name	contain error If a record of only failed r will proceed EXAMPLE: See User Security User Security User Security User should h E	r ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ r Company/Branch Access. r Company/Branch Access> ADD r Company/Branch Access> UPDATE have an administration rights	ot stop: peration Update Type
Parameters: Name INPUT PARAMETE	contain error If a record c only failed r will proceed EXAMPLE: See User Security User Security User Security User should h EXAMPLE: See User Security User Security	<pre>c ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ y Company/Branch Access. y Company/Branch Access> ADD y Company/Branch Access> UPDATE have an administration rights Description</pre>	ot stop: beration Update Type Required
Parameters: Name INPUT PARAMETE pcAction	contain error If a record c only failed r will proceed EXAMPLE: See User Security User Security User should h E RS V U U U U U U U U U U U U U	<pre>c ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ company/Branch Access. c Company/Branch Access> ADD c Company/Branch Access> UPDATE have an administration rights Description Action for present operation. Calues: ADD_UPDATE - Add/Update action is requested Dique Session ID string.</pre>	ot stop: beration Update Type Required
Parameters: Name INPUT PARAMETE pcAction pcSessionID	contain error If a record c only failed r will proceed EXAMPLE: See User Security User Security User should h E RS A V U U U U U U U U U U U U U	<pre>c ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ y Company/Branch Access. y Company/Branch Access> ADD y Company/Branch Access> UPDATE have an administration rights Description Action for present operation. Yalues: ADD_UPDATE - Add/Update action is requested mique Session ID string. Yalues: <any string=""> Descript ID, under which the operation is executed.</any></pre>	ot stop: peration Update Type Required Required Required
Parameters: Name INPUT PARAMETE pcAction pcSessionID pcUserID	contain error If a record c only failed r will proceed EXAMPLE: See User Security User Security User should h C C C C C C C C C C C C C	<pre>c ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op to add/update remaining records. eTime Xpress Web Services API Examples - Add/ y Company/Branch Access. y Company/Branch Access> ADD y Company/Branch Access> UPDATE have an administration rights Description Action for present operation. Yalues: ADD_UPDATE - Add/Update action is requested inique Session ID string. Yalues: <any string=""> Dinique User ID, under which the operation is executed. Yalues: <any string=""> Dinique Company ID.</any></any></pre>	t stop: beration Update Type Required Required

Add/Update User Security Company/Branch Access

Name		Description	Туре
IPUT PARAMETEI	RS		
		<pre>pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be</pre>	
		<pre><comma-separated list=""> - List of DATA fields that will be updated; <empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated></pre>	
pcUpdateExceptF.	ieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableU	pdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	
JTPUT PARAMETI	ERS		
ExecuteStatus		Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
ExecuteStatus Crors: ID	Description	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	, <comma separate<="" td=""><td>errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined.</td><td></td></comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined.	
rrors: ID	, <comma separato<br="">List of contex Level: OPERATIO G_CONTEXT_DATA_S</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE	
TTOTS: ID NO_CONTEXT_DATA	<pre>,<comma separato<br="">List of context Level: OPERATIO G_CONTEXT_DATA_S More than one set</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION	
TTOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRONG	<pre>,<comma separate<br="">List of context Level: OPERATIO G_CONTEXT_DATA_: More than one a Invalid entry.</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD	
run_error, 1005	<pre>,<comma separate<br="">List of context Level: OPERATIO G_CONTEXT_DATA : More than one set Invalid entry. Required entry</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD . Level: RECORD	
RUN_ERROR, 1005 RUN_ERROR, 1015	<pre>,<comma already<="" context="" entry="" entry.="" g_context_data_s="" invalid="" level:="" list="" more="" of="" one="" operatio="" pre="" record="" required="" s="" separate="" than=""></comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD . Level: RECORD	
TTOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRONG RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020	<pre>,<comma separate<br="">List of context Level: OPERATIO G_CONTEXT_DATA : More than one a Invalid entry. Required entry Record already Record is curre</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD . Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRONG RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025	<pre>,<comma a="" already="" context="" curre="" do="" entry="" entry.="" g_context_data_s="" have<="" invalid="" is="" level:="" list="" longe="" more="" no="" not="" of="" one="" operatio="" pre="" record="" required="" separata="" than="" you=""></comma></pre>	<pre>errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD . Level: RECORD exists. Level: RECORD ently locked. Level: RECORD er exists. Refresh recommended. Level: OPERATION, RECORD e security privileges to access this function. Level:</pre>	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRONG RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1025	<pre>,<comma separate<br="">List of context Level: OPERATIO G_CONTEXT_DATA_: More than one a Invalid entry. Required entry Record already Record already Record no longe You do not have OPERATION, RECO</comma></pre>	<pre>errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ed list of missed context data> t fields that are required for service and are not defined. ON SERVICE service is set to be run by one call. Level: OPERATION Level: RECORD . Level: RECORD exists. Level: RECORD ently locked. Level: RECORD er exists. Refresh recommended. Level: OPERATION, RECORD e security privileges to access this function. Level:</pre>	

Add/Update User Security Company/Branch Access

rors: ID	Description
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1765,	<pre><fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""> The &1 field's value must be one of the following: &2. Level: RECORD</comma-separated></tab></fields></pre>
RUN_ERROR,1785,	<error child="" deleted:<br="" description="" from="" is="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD</error>
RUN_ERROR,1965	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2055	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR,2065	
	Unable to update. Allow Access to All [%Sites%] permission is inherited from a security group. Level: RECORD
RUN_ERROR,2080	
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR,2085	
	Unable to update. Allow Access to All [%Employees%] permission is inherited from a security group. Level: RECORD
RUN_ERROR,INVAL available value	.ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvZAccessSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZAccess			
Description:	This operation deletes existing user security company/branch access records from the system.			
	ENTITY TABLE: dsZAccess.ttZAccess FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZAccess Dataset KEY FIELDS: cid,bid,usrid MANDATORY FIELDS: cid,bid,usrid	isets -		
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.			
	EXAMPLE: See eTime Xpress Web Services API Examples - Dele Security Company/Branch Access.	ete User		
User Security:	User Security Company/Branch Access> DELETE User should have an administration rights			
Parameters: Name	Description	Туре		
INPUT PARAMETE				
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required		
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required		
piCompanyID	Unique Company ID. Values: 1999	Required		
piBranchID	Branch ID (unique within the Company). Values: 1999	Required		
OUTPUT PARAMET	ERS			
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below			
Errors:				
ID	Description			
NO_CONTEXT_DATA	., <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION</comma>	l.		
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE			
	More than one service is set to be run by one call. Level: OPERATION			
RUN_ERROR,1025	Record is currently locked. Level: RECORD			
RUN_ERROR,1065	Percent no longer eviata Refresh recommended Level: ODERATION RECORD			

Record no longer exists. Refresh recommended. Level: OPERATION, RECORD

	Description
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1785	<pre>,<error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""></error></pre>
	&1. Unable to delete. Level: RECORD
RUN_ERROR,2055	
	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR,2060	, <company id=""> + <tab> + <branch id=""></branch></tab></company>
	Unable to delete. [%Company%] &1 / [%Branch%] &2 permission is inherited from a security group. Level: RECORD
RUN_ERROR,2080	
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR, INVA	LID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated es="" list="" of=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKI	ED_CONTEXT_DATA
RUN_ERROR,LOCK	ED_CONTEXT_DATA Context record is currently locked. Level: OPERATION
RUN_ERROR,Serv:	Context record is currently locked. Level: OPERATION
RUN_ERROR,Serv: (#1170)	Context record is currently locked. Level: OPERATION ice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level:
RUN_ERROR,Serv: (#1170)	Context record is currently locked. Level: OPERATION ice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Serv: (#1170) RUN_ERROR,Serv: RUN_ERROR,Serv:	Context record is currently locked. Level: OPERATION ice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ice Session failure: Invalid Session ID. (#1670)
RUN_ERROR,Serv: (#1170) RUN_ERROR,Serv: RUN_ERROR,Serv:	Context record is currently locked. Level: OPERATION ice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION ice Session failure: User ID is not valid. Contact your system administrator for
RUN_ERROR,Serv: (#1170) RUN_ERROR,Serv: RUN_ERROR,Serv:	Context record is currently locked. Level: OPERATION ice Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION ice Session failure: User ID is not valid. Contact your system administrator for #1460) User ID is not valid. Contact your system administrator for assistance.

Operation:	apSrvZUsrSAccGet INPUT-OUTPUT dsContext, OUTPUT dsZUsrSAcc			
Description:	This operation retrieves information about existing user secustomer/site access records from the system. Each record a dataset contains information about access of one user to or customer/site combination or to one customer/all sites.	in the		
	ENTITY TABLE: dsZUsrSAcc.ttZUsrSAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZUsrSAcc Dataset KEY FIELDS: cid,bid,usrid,uid,sid	sets -		
	Fields returned by this operation can be of the following t	three		
	<pre>types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and - SYSTEM FIELDS, required for system purposes.</pre>			
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	rs.		
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Security Customer/Site Access.	User		
User Security:	User Security Customer/Site Access> READ			
Parameters: Name	Description	Туре		
INPUT PARAMETE	IRS			
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required		
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required		
piCompanyID	Unique Company ID. Values: 1999	Required		
piBranchID	Branch ID (unique within the Company). Values: 1999	Required		
pcStatus	Status Record Flag. Reserved for future usage. Values: <empty string=""> - All records.</empty>	Required		
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zusrsacc.usrid = "test" Values: <any string=""></any>	Required		
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zusrsacc.usrid Values: <any string=""> Default: <empty string=""></empty></any>	Optional		
pcReadRequestFi	<pre>ieldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined.</pre>	Optional		

arameters: Name	Description	Туре
PUT PARAMETERS		
	<pre>Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZUsrSAcc.zusrsaid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	

Name	Description	Туре
INPUT PARAMETERS		
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the first character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchKeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchOneLetterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab>	Option
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkey1> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab>+ <pcbatchkeyn>. If <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></pcbatchkeyn></tab></tab></pcbatchkey2></tab></tab></pcbatchkey1></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <a href="mailto:values : Values:	

		Description	Туре
TPUT PARAMET	ERS		
plBatchKeySearc	hok	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData		Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLette	rSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	-
rors: ID	Descriptio	n	
		ated list of missed context data>	
	Level: OPERA	ext fields that are required for service and are not defined. TION	
RUN_ERROR, WRON	Level: OPERA	TION	
RUN_ERROR, WRON	Level: OPERA G_CONTEXT_DAT	TION	
RUN_ERROR, WRON RUN_ERROR,1060	Level: OPERA G_CONTEXT_DAT	TION A_SERVICE	
	Level: OPERA G_CONTEXT_DAT. More than on	TION A_SERVICE	
	Level: OPERA G_CONTEXT_DAT. More than on	TION A_SERVICE e service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Level: OPERA G_CONTEXT_DAT. More than on Record is no	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1060	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	Level: OPERA G_CONTEXT_DAT More than on Record is no You do not h OPERATION, R	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	Level: OPERA G_CONTEXT_DAT More than on Record is no You do not h OPERATION, R	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	Level: OPERA G_CONTEXT_DAT. More than on. Record is no You do not h. OPERATION, R This function There are wr <query string<="" td=""><td>TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD</td><td></td></query>	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query string<br="">Invalid QUER ID_CONTEXT_DA</query>	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query string<br="">Invalid QUER ID_CONTEXT_DA s></query>	<pre>TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION</pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	Level: OPERA' G_CONTEXT_DAT. More than on. Record is no You do not h. OPERATION, R' This function There are wr <query string<br="">Invalid QUER' ID_CONTEXT_DAT. D_CONTEXT_DAT.</query>	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAL available value RUN_ERROR,LOCKE RUN_ERROR,Servi	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query string<br="">Invalid QUER ID_CONTEXT_DA S> The &1 param OPERATION D_CONTEXT_DAT. Context record</query>	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<br="">eter's value must be one of the following: &2. Level: A</comma-separated></tab></context>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,10VAL available value RUN_ERROR,LOCKE	Level: OPERA G_CONTEXT_DAT. More than on. Record is no You do not h. OPERATION, R This function There are wr <query string<br="">Invalid QUER ID_CONTEXT_DAT S> The &1 param OPERATION D_CONTEXT_DAT. Context record ce Session factors</query>	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<br="">eter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION</comma-separated></tab></context>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,100KE RUN_ERROR,Servi (#1170)	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr There are wr (query string Invalid QUER ID_CONTEXT_DAT S> The &1 param OPERATION D_CONTEXT_DAT. Context record Context record Con	TION A_SERVICE e service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" o<br="">eter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION ilure: Company/Branch access has not been set up for this use</comma-separated></tab></context>	

Errors:	
ID	Description
RUN_ERROR,Se assistance.	ervice Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update User Security Customer/Site Access

Save dsContext, INPUT-OUTPUT dsZUsrSAcc	
n creates new user security customer/site acc e system.	ess
dsZUsrSAcc.ttZUsrSAcc PTION: See eTime Xpress Web Services API Data taset id,bid,usrid,uid,sid LDS: cid,bid,usrid,uid,sid S: all DATA-READ fields, all CALCULATED field	
ield is used as a record mode flag and can ha ues: ty string> - the ADD record mode	ve the
s no update for this operation. ll assign automatically generated values to t D (zusrsaid) fields of new records. rovide access to ALL customers and sites with mpany/branch, set the corresponding acallsit by the Add/Update User Security Company/Bra ion.	in a field
G: atus parameter to detect OPERATION level erro and cObjectName fields in returned table to d errors. If such an error occurred, these fiel ID and name of the object, which caused it. annot be added/updated, the operation will no ecord transaction will be rolled back. The op to add/update remaining records.	etect ds will t stop:
eTime Xpress Web Services API Examples - Add/ Customer/Site Access.	Update
Customer/Site Access> ADD ave an administration rights	
escription	Туре
ction for present operation. alues: ADD_UPDATE - Add/Update action is requested	Required
nique Session ID string. alues: <any string=""></any>	Required
nique User ID, under which the operation is executed. alues: <any string=""></any>	Required
nique Company ID. alues: 1999	Required
ranch ID (unique within the Company). alues: 1999	Required
<pre>cUpdateRequestFieldsList and pcUpdateExceptFieldsList arameters are not defined. alues: * - All DATA fields will be</pre>	Optional
	defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined.

Add/Update User Security Customer/Site Access

Name	Description	Туре
NPUT PARAMETE	RS	
	<pre><comma-separated list=""> - List of DATA fields that will be updated; <mpty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></mpty></comma-separated></pre>	
pcUpdateExceptF	FieldsListA comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored.Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
UTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
NO_CONTEXT_DATA	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma>	
RUN ERROR, WRON	IG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry. Level: RECORD	
RUN_ERROR,1015		
RUN_ERROR, 1015	Required entry. Level: RECORD	
RUN ERROR,1020		
KON_ERROR, 1020	Record already exists. Level: RECORD	
RUN_ERROR,1025	· •	
KON_ERROR, 1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065		
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1170		
	[%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435		
	This function is not licensed. Level: OPERATION	
	, <fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>	
RUN_ERROR, 1755,		
RUN_ERROR, 1755,	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD	

Add/Update User Security Customer/Site Access

D	Description
	&1. Unable to delete. Level: RECORD
RUN_ERROR,196	5
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,205	5
	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR,207	5, <company id=""> + <tab> + <branch id=""></branch></tab></company>
	Unable to add. User already has permission to access all [%sites%] for [%Company%] &1/ [%Branch%] &2. Level: RECORD
RUN_ERROR,208	0
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR,INV	ALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">ues></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOC	KED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Ser (#1170)	vice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Ser	vice Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Ser	vice Session failure: User ID is not valid. Contact your system administrator for (#1460)

Delete User Security Customer/Site Access

Operation:	apSrvZUsrSAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZUsrSAcc	
Description:	This operation deletes existing user security customer/site records from the system.	access
	ENTITY TABLE: dsZUsrSAcc.ttZUsrSAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZUsrSAcc Dataset KEY FIELDS: cid,bid,usrid,uid,sid MANDATORY FIELDS: cid,bid,usrid,uid,sid	sets -
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to de RECORD level errors. If such an error occurred, these field contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stops failed record transaction will be rolled back. The operation proceed to delete remaining records.	etect As will only
	EXAMPLE: See eTime Xpress Web Services API Examples - Delet Security Customer/Site Access.	e User
User Security:	User Security Customer/Site Access> DELETE User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
OUTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID	Description	
NO CONTEXT DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined. Level: OPERATION	
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065		

RUN_ERROR,1065

Record no longer exists. Refresh recommended. Level: OPERATION, RECORD

Delete User Security Customer/Site Access

rors: ID	Description
RUN ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1705	
	Invalid [%Customer%] ID. Level: RECORD
RUN_ERROR,1785,	<pre><error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""> &1. Unable to delete. Level: RECORD</error></pre>
RUN_ERROR,2055	
	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR,2070,	<customer id=""> + <tab> + <site id=""></site></tab></customer>
	Unable to delete. [%Customer%] &1/ [%Site%] &2 is inherited from a security group. Level: RECORD
RUN_ERROR,2080	
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR,INVAL available value	NID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<="" td=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

pcStatus pcWhere pcSort pcSort	<pre>query that retrieves data from the system. Example: zusreacc.usrid = "test" Values: <any string=""> An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zusreacc.usrid Values: <any string=""> Default: <empty string=""></empty></any></any></pre>	Required Required Optional
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zusreacc.usrid = "test" Values: <any string=""> An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zusreacc.usrid Values: <any string=""></any></any>	Required
	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zusreacc.usrid = "test"	
	Status Record Flag. Reserved for future usage.	
piBranchID	Values: 1999	Required
piCompanyID	Values: 1999	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
INPUT PARAMETE		-152
Parameters: Name		Туре
User Security:	Security Employee Access.	
	Use ExecuteStatus parameter to detect OPERATION level error EXAMPLE: See eTime Xpress Web Services API Examples - Read	
	ERROR HANDLING:	.a
	 CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and SYSTEM FIELDS, required for system purposes. 	sis of
	- DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation),	in the
	Fields returned by this operation can be of the following t types:	
	ENTITY TABLE: dsZUsrEAcc.ttZUsrEAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZUsrEAcc Dataset KEY FIELDS: cid,bid,usrid,eid	sets -
	employee access records from the system. Each record in the dataset contains information about access of one user to on employee record.	2
• • • •	This operation retrieves information about existing user se	curity
Description:	INPUT-OUTPUT dsContext, OUTPUT dsZUsrEAcc	

Name	Description	Туре
NPUT PARAMETERS		
	<pre>Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZUsrEAcc.zusreaid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	-

Name	Description	Туре
INPUT PARAMETERS		
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeyEsearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkey1> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <tab> + <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></tab></tab></tab></pcbatchkey2></tab></tab></pcbatchkey1></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

Name		Description	Туре
PUT PARAMET	ERS		
plBatchKeySearc	hOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturned	ExtraData	Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLette	rSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors: ID	Descriptio	n	
NO_CONTEXT_DATA	List of conte Level: OPERAT		
RUN_ERROR,1060		e service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1240		ave security privileges to access this function. Level:	
RUN_ERROR,1435	This function	n is not licensed. Level: OPERATION	
RUN_ERROR,1965	There are wro	ong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1980,		g> Y string: &1. Level: OPERATION	
RUN_ERROR,INVAL available value	s>	TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	E
RUN_ERROR,LOCKE			
RUN_ERROR,Servi (#1170)		rd is currently locked. Level: OPERATION	r. –
(= = = = = = = = = = = = = = = = = = =	[%Company%]/ OPERATION	[%Branch%] access has not been set up for this user. Level:	
RUN_ERROR,Servi		ilure: Invalid Session ID. (#1670) ion ID. Level: OPERATION	

Errors:	
ID	Description
RUN_ERROR,S	Service Session failure: User ID is not valid. Contact your system administrator for . (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update User Security Employee Access

Operation:	apSrvZUsrEA INPUT-OUTPU	ccSave T dsContext, INPUT-OUTPUT dsZUsrEAcc	
Description:	This operat in the syst	ion creates new user security employee access reader.	ecords
	FIELDS DESC dsZUsrEAcc KEY FIELDS: MANDATORY F	cid,bid,usrid,eid TELDS: cid,bid,usrid,eid ELDS: all DATA-READ fields, all CALCULATED fields	
	following v	y field is used as a record mode flag and can hav values: empty string> - the ADD record mode	ve the
	The system Employee Ac In order to company/bra	e is no update for this operation. will assign automatically generated values to the cess ID (zusreaid) fields of new records. o provide access to ALL employees within a particular unch, set the corresponding acallemp field value Update User Security Company/Branch Access operation	cular to True
	Use cValmes RECORD leve contain err If a record only failed	ING: Status parameter to detect OPERATION level error as and cObjectName fields in returned table to de el errors. If such an error occurred, these field for ID and name of the object, which caused it. I cannot be added/updated, the operation will not record transaction will be rolled back. The operation ed to add/update remaining records.	etect ds will t stop:
		e eTime Xpress Web Services API Examples - Add/ ty Employee Access.	Update
Jser Security:		ty Employee Access> ADD have an administration rights	
Parameters: Name		Description	Туре
INPUT PARAMETE	RS		
pcAction		Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID		Unique Session ID string. Values: <any string=""></any>	Required
pcUserID			
Foodering		Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID			Required Required
		Values: <any string=""> Unique Company ID.</any>	

Add/Update User Security Employee Access

	Description	Туре
NPUT PARAMETE	RS	
	<pre>will be updated; <empty string=""> - All DATA fields will be</empty></pre>	
	updated excluding pcUpdateExceptFieldsList fields	
	Default: <empty string=""></empty>	
pcUpdateExceptH		Optiona
	excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise,	
	the parameter will be ignored.	
	Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
UTPUT PARAMEI	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level	
	errors, this parameter will be excluded from the output dsContext dataset.	
	Values: See Errors part below	
rrors:		
ID	Description	
	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
NO_CONTEXT_DATA	List of context fields that are required for service and are not defined. Level: OPERATION	
RUN_ERROR, WRON	NG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005		
	Invalid entry. Level: RECORD	
RUN_ERROR,1015		
	Required entry. Level: RECORD	
RUN_ERROR,1020	Record already exists. Level: RECORD	
RUN_ERROR,1025		
	Depend is summer the lesked terrel, DECODD	
	Record is currently locked. Level: RECORD	
RUN_ERROR,1065	Record is currently locked. Level. RECORD	
RUN_ERROR,1065	Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1065 RUN_ERROR,1170	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1170	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level:	
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD	
RUN_ERROR,1170	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level:	
RUN_ERROR,1170 RUN_ERROR,1240	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level:	
RUN_ERROR,1170	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level:	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435	<pre>Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION </pre> (Fields Label> + <tab> + <max field's="" size=""></max></tab>	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1755	<pre>Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION </pre> CFields Label> + <tab> + <max field's="" size=""></max></tab> The &l field's size exceeds maximum size: &2 character(s). Level: RECORD	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1755	<pre>Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION </pre> (Fields Label> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD (Fields Label> + <tab> + <comma-separated available="" list="" of="" values=""></comma-separated></tab></max></tab>	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1755	<pre>Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION </pre> CFields Label> + <tab> + <max field's="" size=""></max></tab> The &l field's size exceeds maximum size: &2 character(s). Level: RECORD	
RUN_ERROR,1170 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1755, RUN_ERROR,1765,	<pre>Record no longer exists. Refresh recommended. Level: OPERATION, RECORD [%Company%]/[%Branch%] access has not been set up for this user. Level: RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION </pre> (Fields Label> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD (Fields Label> + <tab> + <comma-separated available="" list="" of="" values=""></comma-separated></tab></max></tab>	

Add/Update User Security Employee Access

ID	Description
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,2055	
	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR,2080	
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR,2100,	<company id=""> + <tab> + <branch id=""></branch></tab></company>
	Unable to add. User already has permission to access all [%employees%] for [%Company%] &1/ [%Branch%] &2. Level: RECORD
RUN_ERROR,INVAL available value	<pre>JID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated as="" list="" of=""> The &1 parameter's value must be one of the following: &2. Level: OPERATION</comma-separated></tab></context></pre>
	ED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for
appiblance. (#	User ID is not valid. Contact your system administrator for assistance.

Delete User Security Employee Access

Operation:	apSrvZUsrEAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZUsrEAcc			
Description:	This operation deletes existing user security employee accords from the system.	288		
	ENTITY TABLE: dsZUsrEAcc.ttZUsrEAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZUsrEAcc Dataset KEY FIELDS: cid,bid,usrid,eid MANDATORY FIELDS: cid,bid,usrid,eid	sets -		
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to de RECORD level errors. If such an error occurred, these field contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop failed record transaction will be rolled back. The operation proceed to delete remaining records.	etect ds will : only		
	EXAMPLE: See eTime Xpress Web Services API Examples - Delet Security Employee Access.	te User		
User Security:	User Security Employee Access> DELETE User should have an administration rights			
Parameters: Name	Description	Туре		
INPUT PARAMETERS				
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required		
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required		
piCompanyID	Unique Company ID. Values: 1999	Required		
piBranchID	Branch ID (unique within the Company). Values: 1999	Required		
OUTPUT PARAMETERS				
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below			
Errors: ID	Description			
NO_CONTEXT_DATA, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma>				
RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE				
RUN_ERROR,1025	More than one service is set to be run by one call. Level: OPERATION			
	Record is currently locked. Level: RECORD			
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD			

Delete User Security Employee Access

ID	Description
RUN ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1700	Invalid [%Employee%] ID. Level: RECORD
RUN_ERROR,1785,	<pre><error child="" deleted:<="" description="" from="" is="" pre="" process="" program="" record="" records="" the="" when=""></error></pre>
	&1. Unable to delete. Level: RECORD
RUN_ERROR,2055	
	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR, 2080	
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR, 2095,	<employee id=""></employee>
	Unable to delete. [%Employee%] &1 is inherited from a security group. Level: RECORD
RUN_ERROR, INVAL available value	ID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">s></comma-separated></tab></context>
	The &l parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvZUsrGrpxGet INPUT-OUTPUT dsContext, OUTPUT dsZUsrGrpx				
Description:	This operation retrieves information from the system about the membership of eTime Xpress users in security groups. Each record in the dataset contains information about the membership of one user in one security group.				
	ENTITY TABLE: dsZUsrGrpx.ttZUsrGrpx FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZUsrGrpx Dataset KEY FIELDS: usrid,grpid	sets -			
	<pre>Fields returned by this operation can be of the following types:</pre>	ne of on in the			
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	prs.			
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Security Groups.	l User			
User Security:	User Security Groups> READ				
	User should have an administration rights				
Parameters: Name	User should have an administration rights Description	Туре			
	Description	Туре			
Name	Description	Type Required			
Name INPUT PARAMETE	Description RS Unique Session ID string.				
Name INPUT PARAMETE pcSessionID	Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed.</any>	Required			
Name INPUT PARAMETE pcSessionID pcUserID	Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID.</any></any>	Required Required			
Name INPUT PARAMETE pcSessionID pcUserID piCompanyID	Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company).</any></any>	Required Required Required			
Name INPUT PARAMETE pcSessionID pcUserID piCompanyID piBranchID	Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Status Record Flag. Reserved for future usage.</any></any>	Required Required Required Required			

pcReadRequestFieldsList "*" string or a comma-separated list of fields that will Optional be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined.

Name	Description	Туре
NPUT PARAMETERS		
	<pre>Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is (ttZUsrGrpx.usrid + <tab> + ttZUsrGrpx.grpid) value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any></tab>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record. In case of the success, the original Batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	-

Parameters: Name	Description	Туре	
INPUT PARAMETERS			
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record whose is a character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchNoneLetterSearchKey parameter.</string></current></current></character></tab></tab>		
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkey1> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab>+ <pcbatchkeyn>. If <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></pcbatchkeyn></tab></tab></pcbatchkey2></tab></tab></pcbatchkey1></tab>	Optiona	
OUTPUT PARAMETERS			
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below		
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>		
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached;		

Name		Description	Туре
TPUT PARAMETE	IRS		
		NO - The last record was NOT reached.	
plBatchKeySearchOK		Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData		Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLetter	rSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors: ID	Description	n	
NO_CONTEXT_DATA	-	ted list of missed context data> Ext fields that are required for service and are not defined. TION	
RUN_ERROR, WRONG		SERVICE service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Record is not	available. Level: RECORD	
RUN_ERROR,1240			
	You do not ha OPERATION, RE	ve security privileges to access this function. Level:	
RUN_ERROR,1435			
	This function	is not licensed. Level: OPERATION	
RUN_ERROR,1965			
	There are wro	ng fields in the requested list: &1. Level: RECORD	
RUN_ERROR, 1980,	<query string<="" td=""><td>></td><td></td></query>	>	
	Invalid QUERY	string: &1. Level: OPERATION	
RUN_ERROR, INVAL available values		A, <context name="" parameter=""> + <tab> + <comma-separated list="" o<="" td=""><td>£</td></comma-separated></tab></context>	£
	The &1 parame OPERATION	ter's value must be one of the following: &2. Level:	
RUN_ERROR,LOCKEI	D_CONTEXT_DATA	·	
	Context recor	d is currently locked. Level: OPERATION	
RUN_ERROR,Servic (#1170)		lure: Company/Branch access has not been set up for this use	r.
	[%Company%]/[<pre>%Branch%] access has not been set up for this user. Level:</pre>	
	OPERATION		

Errors: ID

Description

RUN_ERROR, Service Session failure: User ID is not valid. Contact your system administrator for assistance. (#1460)

User ID is not valid. Contact your system administrator for assistance. Level: $\ensuremath{\mathsf{OPERATION}}$

Add/Update User Security Groups

Operation:	apSrvZUsrGrpxSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZUsrGrpx					
Description:	This operation creates new user/security group membership in the system. Creating a new membership record is equival adding a user to a security group.					
	ENTITY TABLE: dsZUsrGrpx.ttZUsrGrpx FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets - dsZUsrGrpx Dataset KEY FIELDS: usrid,grpid MANDATORY FIELDS: usrid,grpid IGNORED FIELDS: all DATA-READ fields, all CALCULATED fields, all SYSTEM fields					
	The cChkNew field is used as a record mode flag and can ha following values: - "A" or <empty string=""> - the ADD record mode</empty>	ave the				
	NOTE: There is no update for this operation.					
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to add/update remaining records.					
	EXAMPLE: See eTime Xpress Web Services API Examples - Add User Security Groups.	/Update				
User Security:	User Security Groups> ADD User should have an administration rights					
Parameters: Name	Description	Туре				
INPUT PARAMETE	IRS					
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required				
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required				
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required				

piCompanyID piBranchID

pcUpdateRequestFieldsList

ekequestfieldslist	will be defaults pcUpdate	ng or a comma-separated fist of DATA fields that Opt updated in the present operation. The system its value to "*" when both RequestFieldsList and pcUpdateExceptFieldsList rs are not defined. * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;
	Default:	<pre>comma-separated list> - List of DATA fields that will be updated; <empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields <empty string=""></empty></empty></pre>
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Branch ID (unique within the Company). Values: 1..999

"*" string or a comma-separated list of DATA fields that

Required

Required

Optional

Unique Company ID.

Values: 1..999

Add/Update User Security Groups

Name		Description	Type	
NPUT PARAMETE	RS			
pcUpdateExceptFieldsList		A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>		
UTPUT PARAMET	ERS			
ExecuteStatus		Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below		
rrors: ID	Descriptio	on		
NO_CONTEXT_DAT		rated list of missed context data> ext fields that are required for service and are not defined.		
RUN_ERROR, WRON	IG_CONTEXT_DAT	A_SERVICE		
RUN_ERROR,1005		e service is set to be run by one call. Level: OPERATION		
RUN_ERROR,1015		ry. Level: RECORD		
RUN_ERROR,1020		ady exists. Level: RECORD		
RUN_ERROR,1025	Record is cu	arrently locked. Level: RECORD		
RUN_ERROR,1065	Record no lo	onger exists. Refresh recommended. Level: OPERATION, RECORD		
RUN_ERROR,1240	You do not h OPERATION, R	nave security privileges to access this function. Level: RECORD		
RUN_ERROR,1435	This functio	on is not licensed. Level: OPERATION		
RUN_ERROR, 1755		<pre>> + <tab> + <max field's="" size=""> d's size exceeds maximum size: &2 character(s). Level:</max></tab></pre>		
RUN_ERROR, 1765,		> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab>		
RUN_ERROR,1785		ption from the Process Child records program when record is d to delete. Level: RECORD	leleted>	
RUN_ERROR,1965	There are wr	rong fields in the requested list: &1. Level: RECORD		
RUN_ERROR,2055	Security per rights. Leve	rmissions cannot be updated for users with administrator el: RECORD		

Add/Update User Security Groups

ID	Description
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR available	<pre>R,INVALID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context></pre>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR (#1170)	,Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	,Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
_	,Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete User Security Groups

Operation:apSrvZUsrGrpxSave
INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZUsrGrpxDescription:This operation deletes existing user/security group membership
records from the system. Deleting a membership record is
equivalent to excluding a user from a security group.ENTITY TABLE:dsZUsrGrpx.ttZUsrGrpx

FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsZUsrGrpx Dataset KEY FIELDS: usrid,grpid MANDATORY FIELDS: usrid,grpid

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete User Security Groups.

User	Security:	User	Securit	cy Gro	oups	s> DELH	STE	
		User	should	have	an	administ	cation	rights

arameters: Name	Description	Туре
NPUT PARAMETE	RS	
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
UTPUT PARAMEI	'ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
NO_CONTEXT_DATA	List of context fields that are required for service and are not defined Level: OPERATION	1.
RUN_ERROR, WROI	NG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025		
	Record is currently locked. Level: RECORD	

RUN_ERROR,1065

Delete User Security Groups

ID	Description
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1785,	<error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""></error>
	&1. Unable to delete. Level: RECORD
RUN_ERROR,2055	
	Security permissions cannot be updated for users with administrator rights. Level: RECORD
RUN_ERROR,2080	
	Security permissions cannot be added/updated/deleted for default admin user and system users. Level: RECORD
RUN_ERROR, INVAL available value	JID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">es></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN ERROR, Servi	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
assistance. (#	

Operation:	apSrvZGroupsGet INPUT-OUTPUT dsContext, OUTPUT dsZGroups	
Description:	This operation retrieves information about existing securit groups from the system.	У
	ENTITY TABLE: dsZGroups.ttZGroups FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZGroups Dataset KEY FIELDS: grpid	sets -
	Fields returned by this operation can be of the following to types: - DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bas the "raw" data, and - SYSTEM FIELDS, required for system purposes.	e of n in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error EXAMPLE: See eTime Xpress Web Services API Examples - Read Security Groups.	ŝ.
User Security:	Security Groups. Security Groups> READ User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Reserved for future usage. Values: <empty string=""> - All records.</empty>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zgroups.grpid = "test" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zgroups.grpid Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be	Optional
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Name	Description	Туре
NPUT PARAMETERS		
	<pre>read excluding pcReadExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that will be read; <empty string=""> - All DATA fields will be read excluding pcReadExceptFieldsList fields Default: <empty string=""></empty></empty></comma-separated></pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZGroups.grpid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Option
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Option
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record in case of the success, the original Batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key	Optiona

Name	Description	Туре
INPUT PARAMETERS		
	<pre>search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchKey. 2) MULTIPLE CHARACTERS SEARCH: The operation will try to find a first record whose pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchKeySearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab></pre>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: cpcBatchKeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <tab> + <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></tab></tab></tab></pcbatchkey2></tab></tab></tab>	
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: www.separated.com Values: www.separated.com Values: www.separated.com (pcUserID). Corresponding fields in the table will have default values.	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

Name		Description	Туре
JTPUT PARAMET	ERS		
plBatchKeySearc	ЪЮК	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found;	
		NO - The record was NOT found.	
plBatchReturned	ExtraData	<pre>Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; </pre>	
		NO - The operation did NOT return extra data.	
plBatchOneLette	rSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors:			
ID ID	Descriptio	n	
	List of cont Level: OPERA	ext fields that are required for service and are not defined. $\ensuremath{\mathtt{TION}}$	
RUN_ERROR, WRON	Level: OPERA IG_CONTEXT_DAT	TION	
RUN_ERROR, WRON RUN_ERROR,1060	Level: OPERA IG_CONTEXT_DAT More than on	TION A_SERVICE Ne service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Level: OPERA IG_CONTEXT_DAT More than on	TION	
	Level: OPERA IG_CONTEXT_DAT More than on Record is no	TION A_SERVICE We service is set to be run by one call. Level: OPERATION We available. Level: RECORD Have security privileges to access this function. Level:	
RUN_ERROR,1060	Level: OPERA G_CONTEXT_DAT More than on Record is no You do not h	TION A_SERVICE We service is set to be run by one call. Level: OPERATION We available. Level: RECORD Have security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R	TION A_SERVICE We service is set to be run by one call. Level: OPERATION We available. Level: RECORD Have security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R	TION A_SERVICE We service is set to be run by one call. Level: OPERATION At available. Level: RECORD Have security privileges to access this function. Level: ECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This functio	TION A_SERVICE We service is set to be run by one call. Level: OPERATION At available. Level: RECORD Have security privileges to access this function. Level: ECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This functio There are wr	TION A_SERVICE We service is set to be run by one call. Level: OPERATION At available. Level: RECORD Have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION From fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query string<="" td=""><td>TION A_SERVICE We service is set to be run by one call. Level: OPERATION At available. Level: RECORD Have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION From fields in the requested list: &1. Level: RECORD</td><td></td></query>	TION A_SERVICE We service is set to be run by one call. Level: OPERATION At available. Level: RECORD Have security privileges to access this function. Level: LECORD on is not licensed. Level: OPERATION From fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER .ID_CONTEXT_DA</query>	TION A_SERVICE we service is set to be run by one call. Level: OPERATION t available. Level: RECORD we security privileges to access this function. Level: ECORD m is not licensed. Level: OPERATION rong fields in the requested list: &1. Level: RECORD g>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This functio There are wr <query strint<br="">Invalid QUER ID_CONTEXT_DA S></query>	TION A_SERVICE te service is set to be run by one call. Level: OPERATION t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query strin.<br="">Invalid QUER DECONTEXT_DA S> The &1 param OPERATION</query>	TION A_SERVICE te service is set to be run by one call. Level: OPERATION t available. Level: RECORD have security privileges to access this function. Level: ECORD an is not licensed. Level: OPERATION tong fields in the requested list: &1. Level: RECORD ag> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level:</comma-separated></tab></context>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,1NVAL available value	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query strin.<br="">Invalid QUER DECONTEXT_DAT. ID_CONTEXT_DAT.</query>	TION A_SERVICE te service is set to be run by one call. Level: OPERATION t available. Level: RECORD have security privileges to access this function. Level: ECORD an is not licensed. Level: OPERATION tong fields in the requested list: &1. Level: RECORD ag> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level:</comma-separated></tab></context>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER HD_CONTEXT_DA S> The &1 param OPERATION ED_CONTEXT_DAT. Context reco</query>	TION A_SERVICE te service is set to be run by one call. Level: OPERATION t available. Level: RECORD have security privileges to access this function. Level: ECORD m is not licensed. Level: OPERATION tong fields in the requested list: &1. Level: RECORD mg> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: A</comma-separated></tab></context>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,100KE RUN_ERROR,LOCKE RUN_ERROR,Servi	Level: OPERA G_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This function There are wr <query strin<br="">Invalid QUER DECONTEXT_DA CONTEXT_DAT. Context reco Context reco</query>	<pre>TION "A_SERVICE te service is set to be run by one call. Level: OPERATION tt available. Level: RECORD tt available. Level: RECORD the security privileges to access this function. Level: ECORD on is not licensed. Level: OPERATION to not licensed. Level: OPERATION The requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated &2.="" be="" currently="" following:="" is="" level:="" list="" locked.="" must="" of="" one="" operation<="" pre="" rd="" ta="" tetr's="" the="" value=""></comma-separated></tab></context></pre>	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	Level: OPERA IG_CONTEXT_DAT. More than on Record is no You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER DECONTEXT_DAT. CONTEXT_DAT. Context reco Ce Session fa [%Company%]/ OPERATION Ce Session fa</query>	TION A_SERVICE we service is set to be run by one call. Level: OPERATION at available. Level: RECORD we security privileges to access this function. Level: ECORD an is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION ilure: Company/Branch access has not been set up for this user</comma-separated></tab></context>	

rors:	
ID	Description
assistance.	(#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Security Groups

Operation:	apSrvZGroup INPUT-OUTPU	sSave I dsContext, INPUT-OUTPUT dsZGroups	
Description:		ion creates new and/or updates information abou curity groups in the system.	.t
	FIELDS DESC dsZGroups D KEY FIELDS: MANDATORY F	grpid IELDS: grpid LDS: all DATA-READ fields, all CALCULATED field	
	<pre>following v - "A" - the - "U" - the - <empty already="" current<="" is="" plimportenal="" pre="" st="" the=""></empty></pre>	field is used as a record mode flag and can ha alues: ADD record mode UPDATE record mode ring> - the AUTO DETECT mode: if the value of t bleUpdate parameter is set to YES (default), an a record in the system with the same KEY FIELDS record, then the record will be in the UPDATE wise, the record will be in the ADD record mode	he d there as in record
	condition s	d new security groups (ADD record mode), the fo hould be met: field of new records should be unique in the s	
	Use cValmes RECORD leve contain error If a record only failed	ING: Status parameter to detect OPERATION level erro s and cObjectName fields in returned table to d l errors. If such an error occurred, these fiel or ID and name of the object, which caused it. cannot be added/updated, the operation will no record transaction will be rolled back. The op d to add/update remaining records.	letect ds will ot stop:
	EXAMPLE: Security Gr	e eTime Xpress Web Services API Examples - Add/ oups.	Update
Jser Security:	Security Gr	oups> ADD oups> UPDATE have an administration rights	
Parameters: Name		Description	Туре
INPUT PARAMETE	RS		
pcAction		Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID		Unique Session ID string. Values: <any string=""></any>	Required
pcUserID		Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID		Unique Company ID. Values: 1999	Required
piBranchID		Branch ID (unique within the Company). Values: 1999	Required
pcUpdateRequest	FieldsList	"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList	Optional

Add/Update Security Groups

Name	Description	Туре
NPUT PARAMETERS		
	<pre>parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	Optiona
JTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset.	
	Values: See Errors part below	
ID Description NO_CONTEXT_DATA, <comma of="" separation="" separation<="" td="" the=""><td>Values: See Errors part below on rated list of missed context data></td><td></td></comma>	Values: See Errors part below on rated list of missed context data>	
ID Description NO_CONTEXT_DATA, <comma of="" separation="" separation<="" td="" the=""><td><pre>Values: See Errors part below on rated list of missed context data> text fields that are required for service and are not defined.</pre></td><td></td></comma>	<pre>Values: See Errors part below on rated list of missed context data> text fields that are required for service and are not defined.</pre>	
ID Description NO_CONTEXT_DATA, <comma separa<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT</comma>	Values: See Errors part below on rated list of missed context data> text fields that are required for service and are not defined. ATION	
NO_CONTEXT_DATA, <comma separ<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1015</comma>	<pre>Values: See Errors part below on rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION</pre>	
ID Description NO_CONTEXT_DATA, <comma separa<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1015 Required ent RUN_ERROR,1020</comma>	<pre>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD </pre>	
ID Description NO_CONTEXT_DATA, <comma separa<br="">List of cont Level: OPERA RUN_ERROR, WRONG_CONTEXT_DAT More than or RUN_ERROR,1015 Required ent RUN_ERROR,1020</comma>	<pre>Values: See Errors part below on rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION</pre>	
ID Description NO_CONTEXT_DATA, <comma alrea="" cont="" cu<="" ent="" is="" level:="" list="" more="" of="" opera="" or="" record="" required="" run_error,="" run_error,1015="" run_error,1020="" run_error,1025="" separa="" td="" than="" wrong_context_dat=""><td><pre>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD </pre></td><td></td></comma>	<pre>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD </pre>	
ID Description NO_CONTEXT_DATA, <comma alrea="" cont="" cu="" ent="" is="" level:="" list="" more="" of="" opera="" or="" record="" required="" run_error,="" run_error,1015="" run_error,1020="" run_error,1025="" run_error,1065<="" separa="" td="" than="" wrong_context_dat=""><td><pre>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD ady exists. Level: RECORD</pre></td><td></td></comma>	<pre>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD ady exists. Level: RECORD</pre>	
ID Description NO_CONTEXT_DATA, <comma alrea="" cont="" cu="" ent="" is="" level:="" list="" lo<="" more="" no="" of="" opera="" or="" record="" required="" run_error,="" run_error,1015="" run_error,1025="" run_error,1065="" separa="" td="" than="" wrong_context_dat=""><td>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD try. Level: RECORD ady exists. Level: RECORD urrently locked. Level: RECORD onger exists. Refresh recommended. Level: OPERATION, RECORD have security privileges to access this function. Level:</td><td></td></comma>	Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD try. Level: RECORD ady exists. Level: RECORD urrently locked. Level: RECORD onger exists. Refresh recommended. Level: OPERATION, RECORD have security privileges to access this function. Level:	
ID Description NO_CONTEXT_DATA, <comma alrea="" cont="" do="" ent="" h="" level:="" list="" more="" not="" of="" opera="" operation,="" or="" record="" required="" run_error,="" run_error,1015="" run_error,1020="" run_error,1025="" run_error,1065="" run_error,1240="" run_error,1435<="" separa="" td="" than="" wrong_context_dat="" you=""><td><pre>Values: See Errors part below On rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD ady exists. Level: RECORD urrently locked. Level: RECORD onger exists. Refresh recommended. Level: OPERATION, RECORD have security privileges to access this function. Level: RECORD</pre></td><td></td></comma>	<pre>Values: See Errors part below On rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD ady exists. Level: RECORD urrently locked. Level: RECORD onger exists. Refresh recommended. Level: OPERATION, RECORD have security privileges to access this function. Level: RECORD</pre>	
ID Description NO_CONTEXT_DATA, <comma alrea="" cont="" do="" ent="" f="" function<="" h="" level:="" list="" lo="" more="" no="" not="" of="" opera="" operation,="" or="" record="" required="" run_error,="" run_error,1015="" run_error,1025="" run_error,1240="" run_error,1435="" separa="" td="" than="" this="" wrong_context_dat="" you=""><td>Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD try. Level: RECORD ady exists. Level: RECORD urrently locked. Level: RECORD onger exists. Refresh recommended. Level: OPERATION, RECORD have security privileges to access this function. Level:</td><td></td></comma>	Values: See Errors part below ON rated list of missed context data> text fields that are required for service and are not defined. ATION TA_SERVICE ne service is set to be run by one call. Level: OPERATION try. Level: RECORD try. Level: RECORD ady exists. Level: RECORD urrently locked. Level: RECORD onger exists. Refresh recommended. Level: OPERATION, RECORD have security privileges to access this function. Level:	

Add/Update Security Groups

ID	Description
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,17	785, <error child="" deleted<br="" description="" from="" is="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD</error>
RUN_ERROR,19	765 There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,IN available va	NVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated alues="" list="" of=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LO	OCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Se (#1170)	ervice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Se	ervice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Se assistance.	ervice Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Security Groups

ID

Operation:	apSrvZGroupsSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGroups
Description:	This operation deletes existing security groups from the system.
	ENTITY TABLE: dsZGroups.ttZGroups FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets - dsZGroups Dataset KEY FIELDS: grpid MANDATORY FIELDS: grpid
	ERROR HANDLING:

Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Security Groups.

User Security: Security Groups --> DELETE User should have an administration rights

Parameters: Name	Description	Туре
INPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset.	

dsContext dataset. Values: See Errors part below Errors:

Description

NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>
	List of context fields that are required for service and are not defined. Level: OPERATION
RUN_ERROR, WRC	NG_CONTEXT_DATA_SERVICE
	More than one service is set to be run by one call. Level: OPERATION
RUN_ERROR,1025	
RUN_ERROR,1025	
RUN_ERROR,1025	Record is currently locked. Level: RECORD

Delete Security Groups

ID	Description
RUN_ERROR,1	.240
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1	435
	This function is not licensed. Level: OPERATION
RUN_ERROR,1	1785, <error child="" deleted<="" description="" from="" is="" process="" program="" record="" records="" td="" the="" when=""></error>
	&1. Unable to delete. Level: RECORD
RUN_ERROR,I available v	INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">values></comma-separated></tab></context>
	The &l parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,I	JOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,S (#1170)	Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,S	Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR, Sassistance.	Service Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvZGrpBAccGet INPUT-OUTPUT dsContext, OUTPUT dsZGrpBAcc	
Description:	This operation retrieves information about existing securi company/branch access records from the system. Each record dataset contains information about access of one group to company/branch combination.	in the
	ENTITY TABLE: dsZGrpBAcc.ttZGrpBAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZGrpBAcc Dataset KEY FIELDS: cid,bid,grpid	sets -
	Fields returned by this operation can be of the following	three
	types: - DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more informatic description of the Add/Update operation),	n in the
	- CALCULATED FIELDS, whose values are calculated on the ba	sis of
	- SYSTEM FIELDS, required for system purposes.	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	rs.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Security Group Company/Branch Access.	
User Security:	Security Group Company/Branch Access> READ User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Reserved for future usage. Values: <empty string=""> - All records.</empty>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zgrpbacc.grpid = "test" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zusers.zgrpbacc Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	<pre>.eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system default; its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined.</pre>	Optional

Parameters: Name	Description	Туре
NPUT PARAMETERS		
	<pre>Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZGrpBAcc.zgrpbid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record in case of the success, the original Batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	-

Name	Description	Туре
INPUT PARAMETERS		
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeySearchKy parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab>	Optiona
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab>+ <pcbatchkeyn>. If <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkeyn></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Optiona
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

		Description	Туре
TPUT PARAMET	ERS		
plBatchKeySearc	hOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturned	ExtraData	<pre>Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.</pre>	
plBatchOneLette	erSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors: ID	Descriptio	on	
NU_CONTEXT_DATA	List of cont Level: OPERA		
RUN_ERROR,1060	Record is no	t available. Level: RECORD	
		ave security privileges to access this function. Level:	
RUN_ERROR,1240	You do not h OPERATION, R	ave security privileges to access this function. Level:	
RUN_ERROR,1060 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965	You do not h OPERATION, R This functio	ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1240 RUN_ERROR,1435	You do not h OPERATION, R This functio There are wr <query strin<="" td=""><td>ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD</td><td></td></query>	ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD	
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RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,INVAL	You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER HD_CONTEXT_DA SS> The &1 param OPERATION</query>	ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" or<br="">meter's value must be one of the following: &2. Level:</comma-separated></tab></context>	 £
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,INVAL available value RUN_ERROR,LOCKE	You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER DID_CONTEXT_DA S> The &1 param OPERATION DECONTEXT_DAT Context reco</query>	ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: A</comma-separated></tab></context>	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, available value RUN_ERROR,LOCKE	You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER DID_CONTEXT_DA CONTEXT_DAT Context reco</query>	<pre>ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION</comma-separated></tab></context></pre>	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	You do not h OPERATION, R This functio There are wr <query strin<br="">Invalid QUER DID_CONTEXT_DA SS> The &1 param OPERATION Context reco Context reco Ce Session fa [%Company%]/ OPERATION Ce Session fa</query>	<pre>ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA,<context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">meter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION ilure: Company/Branch access has not been set up for this use:</comma-separated></tab></context></pre>	

Errors: ID	Description
RUN_ERROR,S assistance.	Service Session failure: User ID is not valid. Contact your system administrator for . (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Security Group Company/Branch Access

Operation:		
speraeron.	apSrvZGrpBAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGrpBAcc	
Description:	This operation creates new and/or updates information about existing security group company/branch access records in t system.	
	ENTITY TABLE: dsZGrpBAcc.ttZGrpBAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZGrpBAcc Dataset KEY FIELDS: cid,bid,grpid MANDATORY FIELDS: cid,bid,grpid IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
	The cChkNew field is used as a record mode flag and can had following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of t plImportEnableUpdate parameter is set to YES (default), and is already a record in the system with the same KEY FIELDS the current record, then the record will be in the UPDATE mode. Otherwise, the record will be in the ADD record mode</empty>	the Id there as in record
	NOTE: The system will assign automatically generated value Group Company/Branch Access ID (zgrpbid) field of new reco	s to the ords.
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to d RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	letect .ds will ot stop:
	EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Security Group Company/Branch Access.	IIndate
	becarity droup company, branch Access.	opuace
User Security:	Security Group Company/Branch Access. Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights	opulle
User Security: Parameters: Name	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE	Туре
Parameters:	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights Description	
Parameters: Name	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights Description	
Parameters: Name INPUT PARAMETE	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights Description RS Action for present operation.	Туре
Parameters: Name INPUT PARAMETE pcAction	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights Description RS Action for present operation. Values: ADD_UPDATE - Add/Update action is requested Unique Session ID string.	Type Required
Parameters: Name INPUT PARAMETE pcAction pcSessionID	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights Description RS Action for present operation. Values: ADD_UPDATE - Add/Update action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed.</any>	Type Required Required
Parameters: Name INPUT PARAMETE pcAction pcSessionID pcUserID	Security Group Company/Branch Access> ADD Security Group Company/Branch Access> UPDATE User should have an administration rights Description RS Action for present operation. Values: ADD_UPDATE - Add/Update action is requested Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID.</any></any>	Type Required Required Required

Add/Update Security Group Company/Branch Access

Name		Description	Туре
IPUT PARAMETE	RS		
		pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined.	
		<pre>Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	
		<comma-separated list=""> - List of DATA fields that will be updated;</comma-separated>	
		<pre><empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></empty></pre>	
pcUpdateExceptF	ieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plImportEnableU	pdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records.	
		Default: YES	
TPUT PARAMET	ERS		
ExecuteStatus		Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
ExecuteStatus rors: ID	Description	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rors: ID	, <comma separat<="" td=""><td>errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined.</td><td></td></comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined.	
TOTS: ID NO_CONTEXT_DATA	, <comma separat<br="">List of contex Level: OPERATI</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION	
rors: ID	, <comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION	
TOTS: ID NO_CONTEXT_DATA	, <comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> xt fields that are required for service and are not defined. ION SERVICE	
TTOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON	, <comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> xt fields that are required for service and are not defined. ION SERVICE	
TTOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON	, <comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION 	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005	, <comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry.</comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION 	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005	<pre>,<comma contex="" entry.="" entry<="" g_context_data_="" invalid="" level:="" list="" more="" of="" one="" operati="" pre="" required="" separat="" than=""></comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION SERVICE service is set to be run by one call. Level: OPERATION . Level: RECORD y. Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015	<pre>,<comma contex="" entry.="" entry<="" g_context_data_="" invalid="" level:="" list="" more="" of="" one="" operati="" pre="" required="" separat="" than=""></comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION SERVICE service is set to be run by one call. Level: OPERATION . Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION 	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION SERVICE service is set to be run by one call. Level: OPERATION . Level: RECORD y. Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already Record is curr</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kxt fields that are required for service and are not defined. ION SERVICE service is set to be run by one call. Level: OPERATION . Level: RECORD y. Level: RECORD y exists. Level: RECORD rently locked. Level: RECORD	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already Record is curr</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> kt fields that are required for service and are not defined. ION 	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already Record is curr Record is curr Record no long You do not hav</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> xt fields that are required for service and are not defined. ION 	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1025 RUN_ERROR, 1025 RUN_ERROR, 1065	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already Record is curr Record is curr Record no long</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> xt fields that are required for service and are not defined. ION 	
TOTS: ID NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1025 RUN_ERROR, 1025 RUN_ERROR, 1065	<pre>,<comma separat<br="">List of contex Level: OPERATI G_CONTEXT_DATA_ More than one Invalid entry. Required entry Record already Record is curr Record is curr Record no long You do not hav OPERATION, RECORD</comma></pre>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ted list of missed context data> xt fields that are required for service and are not defined. ION 	

Add/Update Security Group Company/Branch Access

ID	Description
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,176	5, <fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""> The &1 field's value must be one of the following: &2. Level: RECORD</comma-separated></tab></fields>
RUN_ERROR,178	5, <error child="" deleted:<br="" description="" from="" is="" process="" program="" record="" records="" the="" when="">&1. Unable to delete. Level: RECORD</error>
RUN_ERROR,196	5 There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,INV available val	ALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">ues></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOC	KED_CONTEXT_DATA Context record is currently locked. Level: OPERATION
RUN_ERROR,Ser (#1170)	vice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Ser	vice Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Ser assistance.	vice Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvZGrpBAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGrpBAcc		
Description:	This operation deletes existing security group company/branch access records from the system.		
	ENTITY TABLE: dsZGrpBAcc.ttZGrpBAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZGrpBAcc Dataset KEY FIELDS: cid,bid,grpid MANDATORY FIELDS: cid,bid,grpid	sets -	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to de RECORD level errors. If such an error occurred, these field contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop failed record transaction will be rolled back. The operation proceed to delete remaining records.	etect Is will only	
	EXAMPLE: See eTime Xpress Web Services API Examples - Delet Security Group Company/Branch Access.	e	
User Security:	Security Group Company/Branch Access> DELETE User should have an administration rights		
Parameters: Name	Description	Туре	
INPUT PARAMETE	RS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required	
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required	
piCompanyID	Unique Company ID. Values: 1999	Required	
piBranchID	Branch ID (unique within the Company). Values: 1999	Required	
OUTPUT PARAMET	ERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below		
Errors: ID	Description		
NO CONTEXT DATA	, <comma context="" data="" list="" missed="" of="" separated=""></comma>		
	List of context fields that are required for service and are not defined. Level: OPERATION		
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE		
	More than one service is set to be run by one call. Level: OPERATION		
RUN_ERROR,1025			
	Record is currently locked. Level: RECORD		
RUN ERROR, 1065			

RUN_ERROR,1065

Record no longer exists. Refresh recommended. Level: OPERATION, RECORD

ID	Description
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR, 1785,	<pre><error child="" deleted:<="" description="" from="" is="" process="" program="" record="" records="" td="" the="" when=""></error></pre>
RUN_ERROR,INVAL available value	JID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated b="" list="" of<=""> se> The &1 parameter's value must be one of the following: &2. Level: OPERATION</comma-separated></tab></context>
RUN_ERROR,LOCKE	CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)

Operation:	apSrvZGrpSAccGet INPUT-OUTPUT dsContext, OUTPUT dsZGrpSAcc	
Description:	This operation retrieves information about existing securit customer/site access records from the system. Each record is dataset contains information about access of one group to o customer/site combination or to one customer/all sites.	n the
	ENTITY TABLE: dsZGrpSAcc.ttZGrpSAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZGrpSAcc Dataset KEY FIELDS: cid,bid,grpid,uid,sid	sets -
	Fields returned by this operation can be of the following t types:	hree
	 DATA FIELDS, which contain "raw" object information (some these fields are marked as DATA-READ - see more information description of the Add/Update operation), CALCULATED FIELDS, whose values are calculated on the bas 	n in the
	the "raw" data, and - SYSTEM FIELDS, required for system purposes.	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error	îs.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Security Group Customer/Site Access.	
User Security:	Security Group Customer/Site Access> READ User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcStatus	Status Record Flag. Reserved for future usage. Values: <empty string=""> - All records.</empty>	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zgrpsacc.grpid = "test" Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zgrpsacc.grpid Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	eldsList "*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined.	Optional

Name	Description	Туре
NPUT PARAMETERS		
	<pre>Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona:
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZGrpSAcc.zgrpsaid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optional
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	-

Name	Description	Туре
INPUT PARAMETERS		
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record key> is the business object ID value for the current record and has the same format as pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKey Value parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchOneLetterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab>	
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkey1> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <pcbatchkeyn>. If <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></pcbatchkeyn></tab></tab></pcbatchkey2></tab></tab></pcbatchkey1></tab>	Option
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

	Description	Туре
TPUT PARAMET	ERS	
plBatchKeySearc	 hOK Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, wa successful. Values: YES - The record was found; NO - The record was NOT found. 	5
plBatchReturned	<pre>ExtraData Indicates whether the present operation returned records starting not from the Batch Key value obtained as a resul of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.</pre>	
plBatchOneLette	·	-
rors: ID	Description	
	<pre>,<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION</comma></pre>	
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060	Record is not available. Level: RECORD	
RUN_ERROR,1240	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
RUN_ERROR,1965	There are wrong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1980,	<pre><query string=""> Invalid QUERY string: &1. Level: OPERATION</query></pre>	
RUN_ERROR,INVAL available value	-	of
	The &1 parameter's value must be one of the following: &2. Level: OPERATION	
RUN_ERROR,LOCKE	D_CONTEXT_DATA Context record is currently locked. Level: OPERATION	
	ce Session failure: Company/Branch access has not been set up for this us	er.
RUN_ERROR,Servi (#1170)	[%Company%]/[%Branch%] access has not been set up for this user. Level:	
(#1170)	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ce Session failure: Invalid Session ID. (#1670)	

Errors:				
ID	Description			
RUN_ERROR,Service Session failure: User ID is not valid. Contact your system administrator for assistance. (#1460)				
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION			

Add/Update Security Group Customer/Site Access

Operation:	apSrvZGrpSAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGrpSAcc	
Description:	This operation creates new a security group customer/site records in the system.	access
	ENTITY TABLE: dsZGrpSAcc.ttZGrpSAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Dat dsZGrpSAcc Dataset KEY FIELDS: cid,bid,grpid,uid,sid MANDATORY FIELDS: cid,bid,grpid,uid,sid IGNORED FIELDS: all DATA-READ fields, all CALCULATED fiel SYSTEM fields	
	The cChkNew field is used as a record mode flag and can h following values: - "A" or <empty string=""> - the ADD record mode</empty>	ave the
	NOTE: There is no update for this operation. The system will assign automatically generated values to Site Access ID (zgrpsaid) fields of new records. In order to provide access to ALL customers and sites wit particular company/branch, set the corresponding acallsit value to True by the Add/Update Security Group Company/B Access operation.	hin a field
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level err Use cValmess and cObjectName fields in returned table to RECORD level errors. If such an error occurred, these fie contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will n only failed record transaction will be rolled back. The o will proceed to add/update remaining records.	detect lds will ot stop:
	EXAMPLE: See eTime Xpress Web Services API Examples - Add Security Group Customer/Site Access.	/Update
User Security:	Security Group Customer/Site Access> ADD User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required

pcUpdateRequestFieldsList

piBranchID

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parameters are not defined.

fields;

Values:

Branch ID (unique within the Company). Values: 1..999

"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList

updated excluding pcUpdateExceptFieldsList

- All DATA fields will be

Required

Optional

Add/Update Security Group Customer/Site Access

	Description	Туре
NPUT PARAMETE	IRS	
	<pre><comma-separated list=""> - List of DATA fields th will be updated; <empty string=""> - All DATA fields will b</empty></comma-separated></pre>	
	updated excluding pcUpdateExceptFieldsList fiel Default: <empty string=""></empty>	lds
pcUpdateExcept	<pre>FieldsList A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description<br="" string="" that="" the="" to="">Default: <empty string=""></empty></any></pre>	Option.
UTPUT PARAMET	'ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not define Level: OPERATION	ed.
RUN_ERROR, WRON	NG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005		
	Invalid entry. Level: RECORD	
RUN_ERROR,1015	Deguined optime Level: DECODD	
	Required entry. Level: RECORD	
RUN_ERROR,1020	Record already exists. Level: RECORD	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065		
,,,	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
	<pre>,<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields></pre>	
RIIN ERROR 1755	The &1 field's size exceeds maximum size: &2 character(s). Level:	
RUN_ERROR,1755,	RECORD	
	RECORD <pre>/<fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>	
RUN_ERROR, 1765,	, <fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields>	s deleted>

Add/Update Security Group Customer/Site Access

ID	Description
RUN_ERROR,	2075, <company id=""> + <tab> + <branch id=""></branch></tab></company>
	Unable to add. User already has permission to access all [%sites%] for [%Company%] &1/ [%Branch%] &2. Level: RECORD
RUN_ERROR,	.2090
	[%Company%]/[%Branch%] access has not been set up for this security group. Level: RECORD
RUN_ERROR, available	INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,	LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR, (#1170)	Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,	Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	Service Session failure: User ID is not valid. Contact your system administrator for a. (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Security Group Customer/Site Access

Operation:	apSrvZGrpSAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGrpSAcc	
Description:	This operation deletes existing security group customer/si access records from the system.	te
	ENTITY TABLE: dsZGrpSAcc.ttZGrpSAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsZGrpSAcc Dataset KEY FIELDS: cid,bid,grpid,uid,sid MANDATORY FIELDS: cid,bid,grpid,uid,sid	sets -
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to o RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop failed record transaction will be rolled back. The operation proceed to delete remaining records.	letect ds will o: only
	EXAMPLE: See eTime Xpress Web Services API Examples - Dele Security Group Customer/Site Access.	te
User Security:	Security Group Customer/Site Access> DELETE User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
OUTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID	Description	
	-	
NO_CONTEXT_DATA	, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION</comma>	
RUN_ERKOR, WRON	G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025		
RON_ERROR, 1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065	Record no longer exists Refresh recommended Level: OPERATION RECORD	

Record no longer exists. Refresh recommended. Level: OPERATION, RECORD

Delete Security Group Customer/Site Access

ID	Description
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1705	
	Invalid [%Customer%] ID. Level: RECORD
RUN_ERROR, 1785,	<pre><error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""> &1. Unable to delete. Level: RECORD</error></pre>
RUN_ERROR, INVAI available value	-
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	D_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Operation:	apSrvZGrpEAc INPUT-OUTPUT	ccGet F dsContext, OUTPUT dsZGrpEAcc	
Description:	employee acc	ion retrieves information about existing securit cess records from the system. Each record in the cains information about access of one group to c cord.	9
	FIELDS DESCE dsZGrpEAcc I	E: dsZGrpEAcc.ttZGrpEAcc RIPTION: See eTime Xpress Web Services API Datas Dataset cid,bid,grpid,eid	sets -
	types: - DATA FIELD these fields description - CALCULATED the "raw" da	rned by this operation can be of the following to DS, which contain "raw" object information (some s are marked as DATA-READ - see more information of the Add/Update operation), D FIELDS, whose values are calculated on the bas ata, and ELDS, required for system purposes.	e of n in the
	ERROR HANDLI		ſs.
		e eTime Xpress Web Services API Examples - Read oup Employee Access.	
User Security:		oup Employee Access> READ have an administration rights	
Parameters: Name		Description	Туре
INPUT PARAMETE	RS		
pcSessionID		Unique Session ID string. Values: <any string=""></any>	Required
pcUserID		Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID		Unique Company ID. Values: 1999	Required
piBranchID		Branch ID (unique within the Company). Values: 1999	Required
pcStatus		Status Record Flag. Reserved for future usage. Values: <empty string=""> - All records.</empty>	Required
pcWhere		An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: zgrpeacc.grpid = "test" Values: <any string=""></any>	Required
pcSort		An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by zgrpeacc.grpid Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcReadRequestFi	eldsList	"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined.	Optional

Name	Description	Туре
IPUT PARAMETERS		
	<pre>Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plBatch	Enables the Batch mode. NOTE: All batch-related input/output parameters make sense only when the Batch mode is enabled: plBatch=YES and piBatchLimit<>0. Values: YES - Enables the Batch mode; NO - Does not enable the Batch mode. Default: NO	Optiona
piBatchLimit	The maximum number of records in the table which could be returned by the operation. If piBatchLimit=0 then the Batch mode is not enabled regardless of the value of the plBatch parameter. NOTE: If piBatchLimit=1 then the operation can return up to two records, including the current one. Values: <any integer="" positive="" value=""> Default: 0</any>	Optiona
pcBatchKey	A Batch Key is ttZGrpEAcc.zgrpeaid value that defines start record for a batch. NOTE: The value of this parameter is ignored if the Batch Key search is used (see gcBatchSearchKey parameter description). Values: <any string=""> Default: <empty string=""></empty></any>	Optiona
pcBatchDirection	Direction of the batch. Values: NEXT - Next batch. If the pcBatchKey parameter has empty or zero value, it is equivalent to FIRST; PREV - Previous batch. If the pcBatchKey parameter has empty value, it is equivalent to LAST; FIRST - First batch; LAST - Last batch. Default: NEXT	Optiona
pcBatchSearchKey	A field used in the Batch Key search. If the value of this parameter is not empty, the Batch Key search will be performed. A Batch Key, obtained as a result of this search, will be used in the pcBatchKey parameter, instead of its explicitly specified value. The format of the value of the present parameter is: . <field>, where <field> - any DATA type field in the table (same as in the pcWhere parameter). The details of the Batch Key search algorithm are given in the description of the pcBatchSearchKeyValue parameter. NOTE: If pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record, the operation will still try returning piBatchLimit records. This will be done by adding to the batch a required number of records which go prior to the Batch Key record will not be the first record in the batch. Values: <any string=""> Default: <empty string=""></empty></any></field></field>	

Name	Description	Туре
INPUT PARAMETERS		
pcBatchSearchKeyValue	A string used in the Batch Key search. For the Batch Key search to be performed, the pcBatchSearchKey parameter should not be empty. Depending on the value of the present parameter, two search algorithms can be used: 1) FIRST CHARACTER SEARCH: The operation will try to find a first record (after the current record) whose pcBatchSearchKey field's value starts from a specified character. In this case the pcBatchSearchKeyValue parameter value format is: <tab> + <tab> + <character to<br="">search> + <current key="" record="">, where <current key="" record=""> is the business object ID value for the current record and has the same format as pcBatchSearchKey field value matches as many symbols as possible in the specified string. In this case the pcBatchSearchKeyValue parameter value format is: <string search="" to="">. The comparison will be done on a character by character basis. At the first step, the operation is looking for a first record where the first character in the pcBatchSearchKey field value is equal to the first character in the specified string. Then, starting from just found record, it looks for a first record where the second character in the field value is equal to the second character in the string, and so on. The search is finished when it finds a record whose first characters of the field value are equal to the specified string, or there is a character in the specified string for which the above character by character comparison fails. NOTE: In both algorithms, if a record is not found during the first character comparison, the present operation will return an empty table. The success flag of the search operation is written to the plBatchNeySearchOK parameter, and the Batch Key value of the returned record will be returned in the plBatchOneLetterSearchKey parameter. Values: <any string=""> Default: <empty string=""></empty></any></string></current></current></character></tab></tab>	Optiona
pcBatchRepositionKeys	A double <tab>-separated list of reposition (alternative) Batch Keys. If the present operation does not find a business object with the requested business object ID value, then, instead of the value of the pcBatchKey parameter, it will try to use one or more reposition Batch Keys values. The format of the list is: <pcbatchkeyl> + <tab> + <tab> + <pcbatchkey2> + + <tab> + <tab> + <tab> + <pcbatchkeyn>. If <pcbatchkey1> fails, then the operation will try using <pcbatchkey2>, and so on, until the corresponding business object is found. NOTE: If this parameter is empty, or no objects can be found for all specified reposition Batch Keys, an empty pcBatchKey parameter value will be used by the present operation. Values: <any string=""> Default: N/A</any></pcbatchkey2></pcbatchkey1></pcbatchkeyn></tab></tab></tab></pcbatchkey2></tab></tab></pcbatchkeyl></tab>	Optiona
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: www.separated.com to the description>	
plBatchLast	Last Record flag, which indicates whether the last record was reached in the current batch operation. Values: YES - The last record was reached; NO - The last record was NOT reached.	

		Description	Туре
TPUT PARAMET	ERS		
plBatchKeySearc	SHOK	Batch Key search success flag. This parameter indicates whether the Batch Key search, performed using the pcBatchSearchKey and pcBatchSearchKeyValue parameters, was successful. Values: YES - The record was found; NO - The record was NOT found.	
plBatchReturnedExtraData		Indicates whether the present operation returned records starting not from the Batch Key value obtained as a result of the Batch Key search. This is possible if pcBatchDirection = "NEXT" and there are less than piBatchLimit-1 records in the batch after the Batch Key record. Values: YES - The operation returned extra data; NO - The operation did NOT return extra data.	
plBatchOneLette	erSearchKey	A value returned by the Batch Key search. If the Batch Key search was successful, this parameter will return the corresponding Batch Key value. If the Batch Key search was not successful, this parameter will contain an empty string. Values: <any string=""></any>	
rors: ID	Descriptic	n	
RUN_ERROR, WRON	Level: OPERA		
	More than one	e service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1060		e service is set to be run by one call. Level: OPERATION t available. Level: RECORD	
RUN_ERROR,1060 RUN_ERROR,1240	Record is not	t available. Level: RECORD ave security privileges to access this function. Level:	
	Record is not You do not ha	t available. Level: RECORD ave security privileges to access this function. Level:	
RUN_ERROR,1240	Record is not You do not ha OPERATION, RE This function	t available. Level: RECORD ave security privileges to access this function. Level: ECORD	
RUN_ERROR,1240 RUN_ERROR,1435	Record is not You do not h OPERATION, R This function There are wr <query string<="" td=""><td>t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD</td><td></td></query>	t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980,	Record is not You do not had OPERATION, RI This function There are wr cquery string Invalid QUER ID_CONTEXT_DAT	t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" or<="" td=""><td></td></comma-separated></tab></context>	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, available value	Record is not You do not ha OPERATION, RI This function There are wro <query string<br="">Invalid QUER HD_CONTEXT_DA SS> The &1 parame OPERATION</query>	t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" or<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1NVAL	Record is not You do not ha OPERATION, RI This function There are wro <query string<br="">Invalid QUER HD_CONTEXT_DA SS> The &1 parame OPERATION</query>	t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" or<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, available value RUN_ERROR,LOCKE	Record is not You do not ha OPERATION, RI This function There are wro <query string<br="">Invalid QUER Invalid QUER ID_CONTEXT_DAY SP> The &1 paramo OPERATION CONTEXT_DAT Context records .ce Session fat [%Company%]/</query>	t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" or<br="">eter's value must be one of the following: &2. Level:</comma-separated></tab></context>	
RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1965 RUN_ERROR,1980, RUN_ERROR,1980, available value RUN_ERROR,LOCKE RUN_ERROR,Servi (#1170)	Record is not You do not ha OPERATION, R This function There are wro <query string<br="">Invalid QUER</query>	t available. Level: RECORD ave security privileges to access this function. Level: ECORD n is not licensed. Level: OPERATION ong fields in the requested list: &1. Level: RECORD g> Y string: &1. Level: OPERATION TA, <context name="" parameter=""> + <tab> + <comma-separated list="" or<br="">eter's value must be one of the following: &2. Level: A rd is currently locked. Level: OPERATION ilure: Company/Branch access has not been set up for this user</comma-separated></tab></context>	

Errors:	
ID	Description
RUN_ERROR,Se assistance.	ervice Session failure: User ID is not valid. Contact your system administrator for (#1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Add/Update Security Group Employee Access

Operation:	apSrvZGrpEAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGrpEAcc				
Description:	This operation creates new a security group employee access records in the system.	5			
	ENTITY TABLE: dsZGrpEAcc.ttZGrpEAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZGrpEAcc Dataset KEY FIELDS: cid,bid,grpid,eid MANDATORY FIELDS: cid,bid,grpid,eid IGNORED FIELDS: all DATA-READ fields, all CALCULATED fields SYSTEM fields				
	The cChkNew field is used as a record mode flag and can have the following values: - "A" or <empty string=""> - the ADD record mode NOTE: There is no update for this operation. The system will assign automatically generated values to the Group Employee Access ID (zgrpeaid) fields of new records. In order to provide access to ALL employees within a particular company/branch, set the corresponding acallemp field value to True by the Add/Update Security Group Company/Branch Access operation.</empty>				
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to de RECORD level errors. If such an error occurred, these field contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not only failed record transaction will be rolled back. The operation will proceed to add/update remaining records.	etect ds will t stop: eration			
User Security:	EXAMPLE: See eTime Xpress Web Services API Examples - Add/U Security Group Employee Access. Security Group Employee Access> ADD	Jpdale			
Parameters: Name	User should have an administration rights Description	Tripo			
INPUT PARAMETE	-	Туре			
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required			
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required			
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required			
piCompanyID	Unique Company ID. Values: 1999	Required			
piBranchID	Branch ID (unique within the Company). Values: 1999	Required			
pcUpdateRequest	<pre>FieldsList "*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields; <comma-separated list=""> - List of DATA fields that</comma-separated></pre>	Optional			

Add/Update Security Group Employee Access

Name	Description	Туре
NPUT PARAMETE	RS	
	will be updated; <empty string=""> - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields Default: <empty string=""></empty></empty>	
pcUpdateExceptF	PieldsListA comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored.Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
UTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors:		
ID	Description	
NO CONTEXT DATA	A, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
No_contini	List of context fields that are required for service and are not defined. Level: OPERATION	
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE	
	More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005		
	Invalid entry. Level: RECORD	
RUN_ERROR,1015		
	Required entry. Level: RECORD	
RUN_ERROR,1020		
	Record already exists. Level: RECORD	
RUN_ERROR,1025		
	Record is currently locked. Level: RECORD	
RUN_ERROR,1065		
	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
RUN_ERROR,1240		
	You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION	
	This function is not licensed. Level: OPERATION <fields label=""> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD</max></tab></fields>	
RUN_ERROR, 1755,	<fields label=""> + <tab> + <max field's="" size=""> The &l field's size exceeds maximum size: &2 character(s). Level:</max></tab></fields>	
RUN_ERROR,1755, RUN_ERROR,1765,	<pre><fields label=""> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD </max></tab></fields></pre> <pre><fields label=""> + <tab> + <comma-separated available="" list="" of="" values=""></comma-separated></tab></fields></pre>	eleted>
RUN_ERROR,1755, RUN_ERROR,1765,	<pre><fields label=""> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD </max></tab></fields> + <tab> + <comma-separated avaulable="" list="" of="" values=""> The &1 field's value must be one of the following: &2. Level: RECORD <td>eleted></td></comma-separated></tab></pre>	eleted>

Add/Update Security Group Employee Access

ID	Description
RUN_ERROR,2090	
	[%Company%]/[%Branch%] access has not been set up for this security group. Level: RECORD
RUN_ERROR,2100,	<company id=""> + <tab> + <branch id=""></branch></tab></company>
	Unable to add. User already has permission to access all [%employees%] for [%Company%] &1/ [%Branch%] &2. Level: RECORD
RUN_ERROR, INVAI available value	JID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated es="" list="" of=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	ID_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	ce Session failure: User ID is not valid. Contact your system administrator for
assistance. (‡	
	User ID is not valid. Contact your system administrator for assistance.

Delete Security Group Employee Access

Operation:	apSrvZGrpEAccSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsZGrpEAcc	
Description:	This operation deletes existing security group employee accords from the system.	cess
	ENTITY TABLE: dsZGrpEAcc.ttZGrpEAcc FIELDS DESCRIPTION: See eTime Xpress Web Services API Datas dsZGrpEAcc Dataset KEY FIELDS: cid,bid,grpid,eid MANDATORY FIELDS: cid,bid,grpid,eid	sets -
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to de RECORD level errors. If such an error occurred, these field contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop failed record transaction will be rolled back. The operation proceed to delete remaining records.	etect ds will : only
	EXAMPLE: See eTime Xpress Web Services API Examples - Delet Security Group Employee Access.	ce
User Security:	Security Group Employee Access> DELETE User should have an administration rights	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
OUTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Errors: ID	Description	
NO_CONTEXT_DATA	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma>	
RUN_ERROR, WRON	G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	

Delete Security Group Employee Access

ID	Description
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1700	
	Invalid [%Employee%] ID. Level: RECORD
RUN_ERROR, 1785,	<error child="" deleted="" description="" from="" is="" process="" program="" record="" records="" the="" when=""> %1. Unable to delete. Level: RECORD</error>
RUN_ERROR,INVAL available value	JID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated b="" list="" of<=""> se> The &1 parameter's value must be one of the following: &2. Level: OPERATION</comma-separated></tab></context>
RUN_ERROR,LOCKE	
non_main, poola	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Read Pay Rates

Operation: apSrvPayRatesGet INPUT-OUTPUT dsContext, OUTPUT dsPayRates Description: This operation retrieves information about existing pay rates records from the system. ENTITY TABLE: dsPayRates.ttPayRates FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsPayRates Dataset KEY FIELDS: cid, bid, uid, sid, eid, srvcode, pyratety, effdate Fields returned by this operation can be of the following three types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and - SYSTEM FIELDS, required for system purposes. ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors.

EXAMPLE: See eTime Xpress Web Services API Examples - Read Pay Rates.

User Security: Pay Rates Web Services --> READ

Name	Description	Туре
NPUT PARAMETERS		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: payrates.uid = 1 Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by payrates.uid by payrates.sid Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcSiteStat	Site status.	Optional

Read Pay Rates

Name	Description	Туре
IPUT PARAMETERS		
	Values: A - Active records; I - Inactive records; V - Void records;	
	<empty string=""> - All records. Default: <empty string=""></empty></empty>	
pcEmpStat	<pre>Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records.</empty></pre>	Optiona
	Default: <empty string=""></empty>	
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	Option
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Option
JTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsLis	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
rors:		
ID Descript:	ion	
NO_CONTEXT_DATA, <comma sepa<="" td=""><td>arated list of missed context data></td><td></td></comma>	arated list of missed context data>	
List of con Level: OPEN	ntext fields that are required for service and are not defined. RATION	
RUN_ERROR, WRONG_CONTEXT_DA	—	
	one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1240 You do not OPERATION,	have security privileges to access this function. Level: RECORD	
RUN_ERROR,1435 This funct:	ion is not licensed. Level: OPERATION	
RUN_ERROR,1965		
_1	vrong fields in the requested list: &1. Level: RECORD	
There are t		
RUN_ERROR,1980, <query str:<="" td=""><td>ing> ERY string: &1. Level: OPERATION</td><td></td></query>	i ng> ERY string: &1. Level: OPERATION	

Read Pay Rates

ID	Description
RUN_ERROR available	,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	,LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR (#1170)	,Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	,Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	,Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance.

Operation: apSrvPayRatesSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsPayRates Description: This operation creates new and/or updates information about existing pay rates records in the system. ENTITY TABLE: dsPayRates.ttPayRates FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsPayRates Dataset KEY FIELDS: cid, bid, uid, sid, eid, srvcode, pyratety, effdate MANDATORY FIELDS: cid, bid, uid, sid, eid, srvcode, pyratety, effdate IGNORED FIELDS: all DATA-READ fields, all CALCULATED fields, all SYSTEM fields The cChkNew field is used as a record mode flag and can have the following values: - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string> - the AUTO DETECT mode: if the value of the plImportEnableUpdate parameter is set to YES (default), and there is already a record in the system with the same KEY FIELDS as in the current record, then the record will be in the UPDATE record mode. Otherwise, the record will be in the ADD record mode. NOTE: To add new pay rates record (ADD record mode), the following condition should be met: - The values of the KEY FIELDS should be unique in the system. NOTE: The result list of fields that will be updated in the present operation will be created based on the pcUpdateRequestFieldsList/pcUpdateExceptFieldsList input parameters and it should include all MANDATORY FIELDS mentioned above. The valid Pay rate type (pyratety) should be set: "B" - Branch pay rates, "E" - Employee pay rates, "S" - Site pay rates, "X" -Combination pay rates. NOTE: When Pay rate type field is set to "B", the Customer ID (uid), Site ID (sid), Employee ID (eid) fields values will be ignored. When Pay rate type field is set to "E", the Customer ID (uid), Site ID (sid) fields values will be ignored. When Pay rate type field is set to "S", the Employee ID (eid) field's value will be ignored. When Use Custom Factors (usecustom) field is set to No, the factor-related fields will be ignored: dtfactortype, dtfactor, otfactor, otfactortype, stfactortype, stfactor, trfactortypetrfactor, ohfactortype, ohfactor. ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to add/update remaining records. EXAMPLE: See eTime Xpress Web Services API Examples - Add/Update Pay Rates. User Security: Pay Rates Web Services --> ADD Pay Rates Web Services --> UPDATE Parameters:

ame De	escription Type	
NPUT PARAMETERS		
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Require
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Require
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Requir
piCompanyID	Unique Company ID. Values: 1999	Requir
piBranchID	Branch ID (unique within the Company). Values: 1999	Requir
pcUpdateRequestFieldsLis	<pre>st "*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	Option
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Option
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Option
pcSiteStat	<pre>Site status. Values: A - Active records;</pre>	Option
pcEmpStat	<pre>Employee status. Values: A - Active records;</pre>	Option
plRecalculateShifts	<pre>Shifts Distribution Recalculation flag. Values: YES - Apply the shifts distribution</pre>	Option
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records. Default: YES	Option
plUseBeforeImage	Enables the concurrency mode. NOTE: All concurency-related	Option

NPUT PARAMETE	Description	Туре
	RS	
	concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO	
pcConcurrencyFi	A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona:
UTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
Crrors: ID	Description	
NO_CONTEXT_DATA	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION</comma>	
RUN_ERROR, WRON	IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry. Level: RECORD	
RUN_ERROR,1015	Required entry. Level: RECORD	
RUN_ERROR,1020	Record already exists. Level: RECORD	
RUN_ERROR,1025	Record is currently locked. Level: RECORD	
RUN_ERROR,1025 RUN_ERROR,1065	Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD	
	Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR, 1065	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level:	
RUN_ERROR,1065 RUN_ERROR,1240	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION	
RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1535	Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION All required fields must be included in the import. Level: RECORD	

ID	Description
RUN ERROR,1705	
RUN_ERROR,1705	Invalid [%Customer%] ID. Level: RECORD
RUN_ERROR,1755	<pre>,<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields></pre>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR,1760	<pre>,<fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields></pre>
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD
RUN_ERROR,1765	<pre>,<fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,1815	
	Invalid [%Service%]. Level: RECORD
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR,1980	, <query string=""></query>
	Invalid QUERY string: &1. Level: OPERATION
RUN_ERROR,2185	
	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVA available valu	LID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">es></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCK	ED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Serv (#1170)	ice Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Serv	ice Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Serv assistance. (ice Session failure: User ID is not valid. Contact your system administrator for #1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Pay Rates

Operation:apSrvPayRatesSave
INPUT-OUTPUT dsContext, INPUT-OUTPUT dsPayRatesDescription:This operation deletes existing pay rates records from the system.

ENTITY TABLE: dsPayRates.ttPayRates FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsPayRates Dataset KEY FIELDS: cid,bid,uid,sid,eid,srvcode,pyratety,effdate MANDATORY FIELDS: cid,bid,uid,sid,eid,srvcode,pyratety,effdate

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Pay Rates.

User Security: Pay Rates Web Services --> DELETE

Name	Description	Type
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcSiteStat	Site status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcEmpStat	<pre>Employee status. Values: A - Active records;</pre>	Optional
plRecalculateShifts	<pre>Shifts Distriburion Recalculation flag. Values: YES - Apply the shifts distriburion recalculation; NO - Does not apply the shifts distriburion recalculation. Default: NO</pre>	Optional

Delete Pay Rates

Name	Description	Туре
NPUT PARAMETE	RS	
plUseBeforeImag	 Enables the concurrency mode. NOTE: All concurency-related input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO 	
pcConcurrencyFi	for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
UTPUT PARAMET	ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID	Description	
NO_CONTEXT DATA		
	, <comma context="" data="" list="" missed="" of="" separated=""></comma>	
	List of context fields that are required for service and are not defined.	
	List of context fields that are required for service and are not defined. Level: OPERATION	
	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE	
RUN_ERROR, WRON	List of context fields that are required for service and are not defined. Level: OPERATION	
	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE	
RUN_ERROR, WRON	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR, WRON RUN_ERROR,1025	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION	
RUN_ERROR, WRON RUN_ERROR,1025	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level:	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level:	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1665	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1665	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION Invalid [%Customer%] / [%Site%] combination. Level: RECORD Invalid [%Company%] / [%Branch%] combination. Level: RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1665 RUN_ERROR,1685 RUN_ERROR,1700	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION Invalid [%Customer%] / [%Site%] combination. Level: RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1665 RUN_ERROR,1685	List of context fields that are required for service and are not defined. Level: OPERATION G_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION Invalid [%Customer%] / [%Site%] combination. Level: RECORD Invalid [%Company%] / [%Branch%] combination. Level: RECORD Invalid [%Employee%] ID. Level: RECORD	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1665 RUN_ERROR,1685 RUN_ERROR,1700 RUN_ERROR,1705	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION Invalid [%Customer%] / [%Site%] combination. Level: RECORD Invalid [%Company%] / [%Branch%] combination. Level: RECORD Invalid [%Customer%] ID. Level: RECORD Invalid [%Customer%] ID. Level: RECORD <pre> Invalid [%Customer%] ID. Level: RECORD </pre>	
RUN_ERROR, WRON RUN_ERROR,1025 RUN_ERROR,1065 RUN_ERROR,1240 RUN_ERROR,1240 RUN_ERROR,1435 RUN_ERROR,1665 RUN_ERROR,1685 RUN_ERROR,1700 RUN_ERROR,1705	List of context fields that are required for service and are not defined. Level: OPERATION IG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION Invalid [%Customer%] / [%Site%] combination. Level: RECORD Invalid [%Customer%] ID. Level: RECORD Invalid [%Customer%] ID. Level: RECORD	

Delete Pay Rates

ID	Description
RUN_ERROF available	,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">values></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROF	LOCKED_CONTEXT_DATA
	Contaut regard is surroutly lasted laws! OPEDATION
	Context record is currently locked. Level: OPERATION
	[%Company%]/[%Branch%] access has not been set up for this user. OPERATION
(#1170)	Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level:
(#1170)	Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
(#1170) RUN_ERROF RUN_ERROF	<pre>%,Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION %,Service Session failure: Invalid Session ID. (#1670)</pre>

Read Bill Rates

Operation: apSrvBillRateGet INPUT-OUTPUT dsContext, OUTPUT dsBillRate Description: This operation retrieves information about existing bill rates records from the system. ENTITY TABLE: dsBillRate.ttBillRate FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsBillRate Dataset KEY FIELDS: cid,bid,uid,sid,eid,bisrtycd,blratety,effdate Fields returned by this operation can be of the following three types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and - SYSTEM FIELDS, required for system purposes. ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors.

EXAMPLE: See eTime Xpress Web Services API Examples - Read Bill Rates.

User Security: Bill Rates Web Services --> READ

Name	Description	Туре
NPUT PARAMETERS		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: billrate.uid = 1 Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by billrate.uid by billrate.sid Values: <any string=""> Default: <empty string=""></empty></any>	Optional
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcSiteStat	Site status.	Optional

Read Bill Rates

	Description	Туре
INPUT PARAMETERS		
	<pre>Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	
pcEmpStat	<pre>Employee status. Values: A - Active records;</pre>	Optional
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	Optional
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
Errors: ID Description	1	
List of conter	ted list of missed context data> xt fields that are required for service and are not defined.	
Level: OPERATI	SERVICE	
RUN_ERROR, WRONG_CONTEXT_DATA_ More than one	service is set to be run by one call. Level: OPERATION	
More than one RUN_ERROR,1240	service is set to be run by one call. Level: OPERATION ve security privileges to access this function. Level: CORD	
More than one RUN_ERROR,1240 You do not hav OPERATION, REC RUN_ERROR,1435	ve security privileges to access this function. Level:	
More than one RUN_ERROR,1240 You do not hav OPERATION, REC RUN_ERROR,1435 This function RUN_ERROR,1965	ve security privileges to access this function. Level: CORD	

Read Bill Rates

ID	Description
RUN_ERROR available	,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	,LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR (#1170)	,Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	,Service Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
	,Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance.

arameters: Name	Description Type
ser Security:	Bill Rates Web Services> ADD Bill Rates Web Services> UPDATE
	EXAMPLE: See eTime Xpress Web Services API Examples - Add/Updat Bill Rates.
	only failed record transaction will be rolled back. The operation will proceed to add/update remaining records.
	contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will not sto
	Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields with
	ERROR HANDLING:
	When Bill rate type field is set to "S", the Employee ID (eid) field's value will be ignored.
	When Bill rate type field is set to "E", the Customer ID (uid), Site ID (sid) fields values will be ignored.
	NOTE: When Bill rate type field is set to "B", the Customer ID (uid), Site ID (sid), Employee ID (eid) fields values will be ignored.
	<pre>bill rates, "E" - Employee bill rates, "S" - Site bill rates, ' - Combination bill rates.</pre>
	parameters and it should include all MANDATORY FIELDS mentioned above. The valid Bill rate type (blratety) should be set: "B" - Branch
	present operation will be created based on the pcUpdateRequestFieldsList/pcUpdateExceptFieldsList input
	- The values of the KEY FIELDS should be unique in the system. NOTE: The result list of fields that will be updated in the
	NOTE: To add new bill rates record (ADD record mode), the following condition should be met:
	mode. Otherwise, the record will be in the ADD record mode.
	plImportEnableUpdate parameter is set to YES (default), and the is already a record in the system with the same KEY FIELDS as the current record, then the record will be in the UPDATE record
	 - "A" - the ADD record mode - "U" - the UPDATE record mode - <empty string=""> - the AUTO DETECT mode: if the value of the</empty>
	The cChkNew field is used as a record mode flag and can have the following values:
	MANDATORY FIELDS: cid,bid,uid,sid,eid,bisrtycd,blratety,effdate IGNORED FIELDS: all DATA-READ fields, all CALCULATED fields, al SYSTEM fields
	dsBillRate Dataset KEY FIELDS: cid,bid,uid,sid,eid,bisrtycd,blratety,effdate
	ENTITY TABLE: dsBillRate.ttBillRate FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets
escription:	This operation creates new and/or updates information about existing bill rates records in the system.

Name	Description	Туре
PUT PARAMETERS		
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Require
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Require
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Require
piCompanyID	Unique Company ID. Values: 1999	Require
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcUpdateRequestFieldsList	<pre>"*" string or a comma-separated list of DATA fields that will be updated in the present operation. The system defaults its value to "*" when both pcUpdateRequestFieldsList and pcUpdateExceptFieldsList parameters are not defined. Values: * - All DATA fields will be updated excluding pcUpdateExceptFieldsList fields;</pre>	Optiona
pcUpdateExceptFieldsList	A comma-separated list of DATA fields that will be excluded from update by the present operation when pcUpdateRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optiona:
pcSiteStat	Site status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcEmpStat	<pre>Employee status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
plRecalculateShifts	<pre>Shifts Distriburion Recalculation flag. Values: YES - Apply the shifts distriburion recalculation; NO - Does not apply the shifts distriburion recalculation. Default: NO</pre>	Optiona:
plImportEnableUpdate	A flag specifying whether the present operation can update existing records. This parameter is applicable only to the records in the table, which are in the AUTO DETECT mode (have empty value of the cChkNew field). Values: YES - Allows to update existing records; NO - Does not allow to update existing records.	Optiona:

	Description	
NPUT PARAMETE	RS	
	Default: YES	
plUseBeforeImag	input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTU ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode.	-
pcConcurrencyF	Default: NO ieldList A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA	Optiona
	FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	
UTPUT PARAMEI	'ERS	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors:		
ID	Description	
	Description A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION</comma>	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined</comma>	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION NG_CONTEXT_DATA_SERVICE</comma>	
NO_CONTEXT_DAT	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION NG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION WG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WROM RUN_ERROR,1005 RUN_ERROR,1015	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION NG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WRON RUN_ERROR,1005 RUN_ERROR,1015 RUN_ERROR,1020	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION NG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WROM RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION WG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WROM RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1025	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION NG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WROM RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1025	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION WG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level:</comma>	
NO_CONTEXT_DATA RUN_ERROR, WROM RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1065 RUN_ERROR, 1065	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION KG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD</comma>	
NO_CONTEXT_DATA RUN_ERROR, WROM RUN_ERROR, 1005 RUN_ERROR, 1015 RUN_ERROR, 1015 RUN_ERROR, 1020 RUN_ERROR, 1025 RUN_ERROR, 1065 RUN_ERROR, 1240 RUN_ERROR, 1435	A, <comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined Level: OPERATION KG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION Invalid entry. Level: RECORD Required entry. Level: RECORD Record already exists. Level: RECORD Record is currently locked. Level: RECORD Record no longer exists. Refresh recommended. Level: OPERATION, RECORD You do not have security privileges to access this function. Level: OPERATION, RECORD This function is not licensed. Level: OPERATION</comma>	

ID	Description
RUN_ERROR,1700	
	Invalid [%Employee%] ID. Level: RECORD
RUN_ERROR,1705	
	Invalid [%Customer%] ID. Level: RECORD
RUN ERROR, 1755	<fields label=""> + <tab> + <max field's="" size=""></max></tab></fields>
	The &1 field's size exceeds maximum size: &2 character(s). Level: RECORD
RUN_ERROR, 1760,	<pre><fields label=""> + <tab> + <min decimal="" value=""> + <tab> + <max decimal="" value=""></max></tab></min></tab></fields></pre>
	The &1 field's value cannot be less than &2 and greater than &3. Level: RECORD
RUN_ERROR, 1765,	<pre><fields label=""> + <tab> + <comma-separated avaulable="" list="" of="" values=""></comma-separated></tab></fields></pre>
	The &1 field's value must be one of the following: &2. Level: RECORD
RUN_ERROR,1815	
	Invalid [%Service%]. Level: RECORD
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN ERROR 1980	<pre><query string=""></query></pre>
,,,	Invalid QUERY string: &1. Level: OPERATION
RUN_ERROR,2185	
KUN_EKKOK,2105	Record has been changed by another user or system process. Refresh recommended. Level: RECORD
RUN_ERROR,INVAI available value	JD_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of<br="">es></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR,LOCKE	CD_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)
	Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)
	User ID is not valid. Contact your system administrator for assistance. Level: OPERATION

Delete Bill Rates

Operation:apSrvBillRateSave
INPUT-OUTPUT dsContext, INPUT-OUTPUT dsBillRateDescription:This operation deletes existing bill rates records from the
system.ENTITY TABLE:dsBillRate.ttBillRate
FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets -
dsBillRate Dataset
KEY FIELDS:cid,bid,uid,sid,eid,bisrtycd,blratety,effdate

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

MANDATORY FIELDS: cid,bid,uid,sid,eid,bisrtycd,blratety,effdate

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Bill Rates.

User Security: Bill Rates Web Services --> DELETE

Parameters: Name	Description	Type
NPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcCustStat	Customer status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty>	Optional
pcSiteStat	<pre>Site status. Values: A - Active records; I - Inactive records; V - Void records; <empty string=""> - All records. Default: <empty string=""></empty></empty></pre>	Optional
pcEmpStat	<pre>Employee status. Values: A - Active records;</pre>	Optional
plRecalculateShifts	Shifts Distriburion Recalculation flag. Values: YES - Apply the shifts distriburion recalculation; NO - Does not apply the shifts distriburion recalculation.	Optional

Delete Bill Rates

NO_CONTEXT_DATA, <comma List o Level: RUN_ERROR, WRONG_CONTE More t RUN_ERROR,1025 Record RUN_ERROR,1065 RUN_ERROR,1240 You do OPERAT RUN_ERROR,1435 This f RUN_ERROR,1665</comma 	for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION</empty></any>
pcConcurrencyFieldList DUTPUT PARAMETERS ExecuteStatus Errors: ID Desci NO_CONTEXT_DATA, <comma List o List o List o RUN_ERROR, 1025 RUN_ERROR, 1025 Record RUN_ERROR, 1065 RUN_ERROR, 1240 You do OPERAT RUN_ERROR, 1435 RUN_ERROR, 1665</comma 	Enables the concurrency mode. NOTE: All concurency-related Options input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO t A comma-separated list of DATA FIELDS that will be used Options for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</empty></any>
pcConcurrencyFieldList UTPUT PARAMETERS ExecuteStatus rrors: ID Desci NO_CONTEXT_DATA, <comma List o Level: RUN_ERROR, WRONG_CONTE RUN_ERROR,1025 Record RUN_ERROR,1065 RUN_ERROR,1240 You do OPERAT RUN_ERROR,1435 This f RUN_ERROR,1665</comma 	<pre>input/output parameters make sense only when the concurrency mode is enabled: plUseBeforeImage=YES. Operation should receive Before Image for the INPUT-OUPTUT ENTITY dataset. Values: YES - Enables the concurrency mode; NO - Does not enable the concurrency mode. Default: NO t A comma-separated list of DATA FIELDS that will be used Options for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</empty></any></pre>
UTPUT PARAMETERS ExecuteStatus rrors: ID Desci NO_CONTEXT_DATA, <comma List o Level: RUN_ERROR, WRONG_CONTE RUN_ERROR,1025 Record RUN_ERROR,1065 RUN_ERROR,1240 You do OPERAT RUN_ERROR,1435 This f</comma 	Default: N0 t A comma-separated list of DATA FIELDS that will be used for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: any string that corresponds to the description> Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</empty>
UTPUT PARAMETERS ExecuteStatus TTOTS: ID Desci NO_CONTEXT_DATA, <comma List o Level: RUN_ERROR, WRONG_CONTE RUN_ERROR, 1025 Record RUN_ERROR, 1065 RUN_ERROR, 1240 You do OPERAT RUN_ERROR, 1435 This f RUN_ERROR, 1665</comma 	for the concurrency check. If the list is empty string or it is not defined, the operation will use all DATA FIELDS. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</empty></any>
ExecuteStatus rrors: ID Descr NO_CONTEXT_DATA, <comma do="" f="" level:="" list="" o="" operat="" record="" run_error,="" run_error,1025="" run_error,1065="" run_error,1240="" run_error,1435="" run_error,1665<="" td="" this="" wrong_conte="" you=""><td>Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</empty></td></comma>	Default: <empty string=""> Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</empty>
ExecuteStatus rrors: ID Descr NO_CONTEXT_DATA, <comma do="" f="" level:="" list="" o="" operat="" record="" run_error,="" run_error,1025="" run_error,1065="" run_error,1240="" run_error,1435="" run_error,1665<="" td="" this="" wrong_conte="" you=""><td>errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE</td></comma>	errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below ription a separated list of missed context data> of context fields that are required for service and are not defined. : OPERATION EXT_DATA_SERVICE
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You do OPERAT RUN_ERROR,1435 This f RUN_ERROR,1665	d no longer exists. Refresh recommended. Level: OPERATION, RECORD
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This f	o not have security privileges to access this function. Level: TION, RECORD
RUN_ERROR,1665	
	function is not licensed. Level: OPERATION
	id [%Customer%] / [%Site%] combination. Level: RECORD
RUN_ERROR, 1685	
	id [%Company%] / [%Branch%] combination. Level: RECORD
RUN_ERROR,1700	id [%Employee%] ID. Level: RECORD
RUN_ERROR,1705 Invali	id [%Customer%] ID. Level: RECORD
RUN_ERROR,1980, <query Invali</query 	
RUN_ERROR,2185	y string> id QUERY string: &1. Level: OPERATION

Delete Bill Rates

ID	Description
	recommended. Level: RECORD
RUN_ERROR available	,INVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context>
	The &1 parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	,LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
	Context record is currently locked. Level: OPERATION ,Service Session failure: Company/Branch access has not been set up for this user.
(#1170)	,Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level:
(#1170)	,Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
(#1170) RUN_ERROR RUN_ERROR	<pre>,Service Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ,Service Session failure: Invalid Session ID. (#1670)</pre>

Read Shift Allowances

Operation: apSrvShAllownGet

INPUT-OUTPUT dsContext, INPUT-OUTPUT dsShAllown

Description: This operation retrieves information about existing Shift Allowances records from the system.

ENTITY TABLE: dsShAllown.ttShAllown FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsShAllown Dataset KEY FIELDS: shiftid, dbRow

Fields returned by this operation can be of the following three types: - DATA FIELDS, which contain "raw" object information (some of these fields are marked as DATA-READ - see more information in the description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the basis of the "raw" data, and - SYSTEM FIELDS, required for system purposes.

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors.

EXAMPLE: See eTime Xpress Web Services API Examples - Read Shift Allowances.

User Security: Allowance Web Services --> READ

Parameters: Name	Description	Туре
INPUT PARAMETERS		
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: 	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
pcWhere	An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: shifts.uid = 1 Values: <any string=""></any>	Required
pcSort	An additional SORT clause expression for the 4GL SELECT query that retrieves data from the system. NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. Parameters is not used by operation. Values: <any string=""> Default: <empty string=""></empty></any>	Optional
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values.	
	Dage 252 of 267	

Read Shift Allowances

TPUT PARAMETERS Values: <any corresponds="" description="" string="" that="" the="" to=""> TOTS: ID Description No_CONTEXT_DATA,<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1240 You do not have security privileges to access this function. Level: OPERATION, RECORD RUN_ERROR,1955 This function is not licensed. Level: OPERATION RUN_ERROR,1960, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query string=""> Invalid QUERY string: £1. Level: OPERATION RUM_ERROR,1980, <query &="" (#1670)="" <query="" been="" ceess="" failure:="" for="" has="" id.="" invalid="" la="" level:="" not="" operation="" query="" rum_error,1980,="" rum_error,service="" seesion="" set="" string="" string:="" th="" this="" up="" user.="" userition="" userition<="" £1.=""><th>rameters: Name</th><th>Description</th><th>Туре</th></query></query></query></query></query></query></query></query></query></query></query></comma></any>	rameters: Name	Description	Туре
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Context record is currently locked. Level: OPERATION RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION			
<pre>RUN_ERROR,Service Session failure: Company/Branch access has not been set up for this user (#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</pre>	RUN_ERROR,LOCKE	D_CONTEXT_DATA	
<pre>(#1170) [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION</pre>		Context record is currently locked. Level: OPERATION	
OPERATION RUN_ERROR,Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION		ce Session failure: Company/Branch access has not been set up for this use	r.
Invalid Session ID. Level: OPERATION			
	RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670)	
RUN ERROR Service Session failure: User ID is not valid. Contact your system administrator		Invalid Session ID. Level: OPERATION	
assistance. (#1460)			r for
User ID is not valid. Contact your system administrator for assistance. Level: OPERATION			

Add/Update Shift Allowances

pcUserID piCompanyID	Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999</any>	Required Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcAction	Action for present operation. Values: ADD_UPDATE - Add/Update action is requested	Required
INPUT PARAMETER		-15.4
Parameters: Name	Description	Туре
User Security:	Allowance Web Services> ADD Allowance Web Services> UPDATE	
	EXAMPLE: See eTime Xpress Web Services API Examples - Add/ Shift Allowances.	Update
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level error Use cValmess and cObjectName fields in returned table to do RECORD level errors. If such an error occurred, these fiel contain error ID and name of the object, which caused it. If a record cannot be added/updated, the operation will no only failed record transaction will be rolled back. The op will proceed to add/update remaining records.	letect ds will ot stop:
	 The shiftid value should correspond to valid worked shi record. The dbRow field should correspond to valid shift allowa record. 	
	<pre>record The dbRow field should be an empty string. To update Shift Allowances record (UPDATE record mode), th following condition should be met:</pre>	le
	NOTE: To add new Shift Allowances record (ADD record mode) following condition should be met: - The shiftid value should correespond to valid worked shi	
	The dbRow field is used as a record mode flag and can have following values: - <empty string=""> - the ADD record mode - <non-empty string=""> - the UPDATE record mode. It will use as a key value.</non-empty></empty>	
	ENTITY TABLE: dsShAllown.ttShAllown FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShAllown Dataset KEY FIELDS: shiftid, dbRow MANDATORY FIELDS: shiftid, dbRow IGNORED FIELDS: all DATA-READ fields, all CALCULATED field SYSTEM fields	
Description:	This operation creates new and/or updates information about existing Shift Allowances records in the system.	it
	INPUT-OUTPUT dsContext, INPUT-OUTPUT dsShAllown	

Add/Update Shift Allowances

	Description		ype
NPUT PARAMETE	S		
plImportEnableU	existing records. This paramet records in the table, which ar (have empty value of the cChkW Values: YES - Allows to update	er is applicable only to the e in the AUTO DETECT mode ew field).	ption
UTPUT PARAMET	RS		
ExecuteStatus	Operation status. If there are errors, this parameter will be dsContext dataset. Values: See Errors part below	excluded from the output	
rrors: ID	Description		
NO_CONTEXT_DATA	<comma context="" data="" list="" missed="" of="" separated=""> List of context fields that are required for a Level: OPERATION</comma>	service and are not defined.	
RUN_ERROR, WRON	_CONTEXT_DATA_SERVICE More than one service is set to be run by one	call. Level: OPERATION	
RUN_ERROR,1005	Invalid entry. Level: RECORD		
RUN_ERROR,1015	Required entry. Level: RECORD		
RUN_ERROR,1020	Record already exists. Level: RECORD		
RUN_ERROR,1025	Record is currently locked. Level: RECORD		
RUN_ERROR,1065	Record no longer exists. Refresh recommended.	Level: OPERATION, RECORD	
RUN_ERROR,1240	You do not have security privileges to access OPERATION, RECORD	this function. Level:	
RUN_ERROR,1435	This function is not licensed. Level: OPERATION		
RUN_ERROR,1755,	Fields Label> + <tab> + <max field's="" size=""> The &1 field's size exceeds maximum size: &2 (RECORD</max></tab>	character(s). Level:	
RUN_ERROR,1760,	Fields Label> + <tab> + <min decimal="" value=""> + The &1 field's value cannot be less than &2 at RECORD</min></tab>		
RUN_ERROR, 1765,	Fields Label> + <tab> + <comma-separated list<br="">The &1 field's value must be one of the follow</comma-separated></tab>		
RUN_ERROR,1965	There are wrong fields in the requested list:	&l. Level: RECORD	
RUN_ERROR,1980,	<query string=""></query>		

Add/Update Shift Allowances

ID	Description
RUN_ERROR	2225
	This shift has not been worked. Unable to add/update allowances. Level: RECORD
RUN_ERROR	NVALID_CONTEXT_DATA, <context name="" parameter=""> + <tab> + <comma-separated list="" of="" values=""></comma-separated></tab></context>
	The &l parameter's value must be one of the following: &2. Level: OPERATION
RUN_ERROR	LOCKED_CONTEXT_DATA
	Context record is currently locked. Level: OPERATION
RUN_ERROR	Service Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR	Service Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
	Service Session failure: User ID is not valid. Contact your system administrator for e. (#1460)
	User ID is not valid. Contact your system administrator for assistance.

Delete Shift Allowances

Operation: apSrvShAllownSave INPUT-OUTPUT dsContext, INPUT-OUTPUT dsShAllown

Description: This operation deletes existing Shift Allowances records from the system.

ENTITY TABLE: dsShAllown.ttShAllown FIELDS DESCRIPTION: See eTime Xpress Web Services API Datasets dsShAllown Dataset KEY FIELDS: dbRow MANDATORY FIELDS: dbRow

ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level errors. Use cValmess and cObjectName fields in returned table to detect RECORD level errors. If such an error occurred, these fields will contain error ID and name of the object, which caused it. If a record cannot be deleted, the operation will not stop: only failed record transaction will be rolled back. The operation will proceed to delete remaining records.

EXAMPLE: See eTime Xpress Web Services API Examples - Delete Shift Allowances.

User Security: Allowance Web Services --> DELETE

Parameters: Name	Description	Туре
INPUT PARAMETERS		
pcAction	Action for present operation. Values: DELETE - Delete action is requested	Required
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed. Values: <any string=""></any>	Required
piCompanyID	Unique Company ID. Values: 1999	Required
piBranchID	Branch ID (unique within the Company). Values: 1999	Required
OUTPUT PARAMETERS		
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	

Errors: ID

Description

NO_CONTEXT_DATA,<comma separated list of missed context data> List of context fields that are required for service and are not defined. Level: OPERATION RUN_ERROR, WRONG_CONTEXT_DATA_SERVICE More than one service is set to be run by one call. Level: OPERATION RUN_ERROR,1025 Record is currently locked. Level: RECORD RUN_ERROR,1065 Record no longer exists. Refresh recommended. Level: OPERATION, RECORD

Delete Shift Allowances

ID	Description
RUN_ERROR,1240	
	You do not have security privileges to access this function. Level: OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR, 1980,	<query string=""></query>
	Invalid QUERY string: &1. Level: OPERATION
RUN_ERROR, 2225	
	This shift has not been worked. Unable to add/update allowances. Level: RECORD
RUN_ERROR,INVAL available value	<pre>SID_CONTEXT_DATA,<context name="" parameter=""> + <tab> + <comma-separated list="" of="" s=""> The &1 parameter's value must be one of the following: &2. Level: OPERATION</comma-separated></tab></context></pre>
	D CONTEXT DATA
RUN_ERROR,LOCKE	
RUN_ERROR,LOCKE	Context record is currently locked. Level: OPERATION
	Context record is currently locked. Level: OPERATION ce Session failure: Company/Branch access has not been set up for this user.
RUN_ERROR,Servi	
 RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level:
 RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi (#1170) RUN_ERROR,Servi	<pre>ce Session failure: Company/Branch access has not been set up for this user. [%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION ce Session failure: User ID is not valid. Contact your system administrator for</pre>

Read Shifts Tasks

Operation:	apSrvShiftToDoGet INPUT-OUTPUT dsContext, OUTPUT dsShifts	lithTasks
Description:	This operation retrieves information about existing shifts	
Description.	records from the system.	Casks
	ENTITY TABLE: dsShiftsWithTasks.ttShifts FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShiftsWithTasks Dataset KEY FIELDS: shiftid	asets -
	ENTITY TABLE: dsShiftsWithTasks.ttToDo FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShiftsWithTasks Dataset KEY FIELDS: todoid	asets -
	DATA RELATIONSHIP: dsShiftsWithTasks.ttShifts.shiftid - 1: dsShiftsWithTasks.ttTodo.shiftid	N ->
	<pre>Fields returned by this operation can be of the following types: - DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more information description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the bat the "raw" data, and - SYSTEM FIELDS, required for system purposes.</pre>	ne of on in the
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	ors.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Tasks.	l Shifts
User Security:	Shifts Web Services> READ Shift Tasks Web Services> READ	
User Security: Parameters: Name		Туре
Parameters:	Shift Tasks Web Services> READ Description	Туре
Parameters: Name	Shift Tasks Web Services> READ Description	Type Required
Parameters: Name INPUT PARAMETE	Shift Tasks Web Services> READ Description RS Unique Session ID string.	
Parameters: Name INPUT PARAMETE pcSessionID	Shift Tasks Web Services> READ Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed.</any>	Required
Parameters: Name INPUT PARAMETE pcSessionID pcUserID	Shift Tasks Web Services> READ Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID.</any></any>	Required
Parameters: Name INPUT PARAMETE pcSessionID pcUserID piCompanyID	Shift Tasks Web Services> READ Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company).</any></any>	Required Required Required
Parameters: Name INPUT PARAMETE pcSessionID pcUserID piCompanyID piBranchID	Shift Tasks Web Services> READ Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Shift's Scheduled From Date. Values: <any corresponds="" data="" datatime="" date="" etime="" string="" that="" the="" to="" type="" valid="" xpress="">. For example,</any></any></any>	Required Required Required Required
Parameters: Name INPUT PARAMETE pcSessionID pcUserID piCompanyID piBranchID pdFromDate	Shift Tasks Web Services> READ Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Shift's Scheduled From Date. Values: <any corresponds="" data="" datatime="" date="" etime="" string="" that="" the="" to="" type="" valid="" xpress="">. For example, MM/DD/YYYY Shift's Scheduled To Date. Values: <any corresponds="" data="" datatime="" date="" etime="" string="" that="" the="" to="" type="" valid="" xpress="">. For example,</any></any></any></any>	Required Required Required Required Required
Parameters: Name INPUT PARAMETE pcSessionID pcUserID piCompanyID piBranchID pdFromDate pdToDate	Shift Tasks Web Services> READ Description RS Unique Session ID string. Values: <any string=""> Unique User ID, under which the operation is executed. Values: <any string=""> Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Shift's Scheduled From Date. Values: <any corresponds="" data="" datatime="" date="" etime="" string="" that="" the="" to="" type="" valid="" xpress="">. For example, MM/DD/YYYY Shift's Scheduled To Date. Values: <any corresponds="" data="" datatime="" date="" etime="" string="" that="" the="" to="" type="" valid="" xpress="">. For example, MM/DD/YYYY An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: shifts.cid < 1</any></any></any></any>	Required Required Required Required Required

Read Shifts Tasks

Name	Description	Туре
NPUT PARAMETERS		
	NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by shifts.shdate Values: <any string=""> Default: <empty string=""></empty></any>	
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plGetMidnightDifference	<pre>Performs additional calculations related with Midnight Cut Off. Additional Midnight cutoff calculations process the portion of the shift occurring after midnight separately filling-in the following fields: ttShifts.MidDiffScheduled,ttShifts.MidDiffWorked, ttShifts.MidDiffOverlap1,ttShifts.MidDiffOverlap2, ttShifts.MidDiffWorkedOverlap1, ttShifts.MidDiffWorkedOverlap2. See more fields description in eTime Xpress Web Services API Datasets - dsShifts Dataset. Values: YES - Performs additional calculations related with Midnight Cutoff; NO - Does not perform additional calculations related with Midnight Cutoff.</pre>	Optiona
	Default: NO	
UTPUT PARAMETERS		
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID Description		
	ted list of missed context data> kt fields that are required for service and are not defined. ION	
RUN_ERROR, WRONG_CONTEXT_DATA		

RUN_ERROR,1240

You do not have security privileges to access this function. Level:

Read Shifts Tasks

ID	Description
	OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR, 1980,	<query string=""></query>
	Invalid QUERY string: &1. Level: OPERATION
RUN_ERROR,LOCKE	
	Context record is currently locked. Level: OPERATION
	ce Session failure: Company/Branch access has not been set up for this user.
(#1170)	
(#1170)	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
	OPERATION
RUN_ERROR,Servi	OPERATION ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION ce Session failure: User ID is not valid. Contact your system administrator for

Read Shifts Events

Operation:		
	apSrvShiftEventGet INPUT-OUTPUT dsContext, OUTPUT dsShiftW	ithEvent
Description:	This operation retrieves information about existing shifts records from the system.	event
	ENTITY TABLE: dsShiftsWithEvent.ttShifts FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShiftsWithEvent Dataset KEY FIELDS: shiftid	sets -
	ENTITY TABLE: dsShiftsWithEvent.ttEventReadOnly FIELDS DESCRIPTION: See eTime Xpress Web Services API Data dsShiftsWithEvent Dataset KEY FIELDS: eventUuid	sets -
	DATA RELATIONSHIP: dsShiftsWithEvent.ttShifts.eventUuid - dsShiftsWithEvent.ttEventReadOnly.eventUuid	1:1 ->
	<pre>Fields returned by this operation can be of the following types: - DATA FIELDS, which contain "raw" object information (som these fields are marked as DATA-READ - see more informatio description of the Add/Update operation), - CALCULATED FIELDS, whose values are calculated on the ba the "raw" data, and</pre>	e of n in the
	- SYSTEM FIELDS, required for system purposes.	
	ERROR HANDLING: Use ExecuteStatus parameter to detect OPERATION level erro	rs.
	EXAMPLE: See eTime Xpress Web Services API Examples - Read Events.	Shifts
User Security:	Shifts Web Services> READ Shifts Events Web Services> READ	
Parameters: Name	Description	Туре
INPUT PARAMETE	RS	
pcSessionID	Unique Session ID string. Values: <any string=""></any>	Required
pcUserID	Unique User ID, under which the operation is executed.	
	Values: <any string=""></any>	Required
piCompanyID	Values: <any string=""> Unique Company ID. Values: 1999</any>	Required Required
piCompanyID piBranchID	Unique Company ID.	
	Unique Company ID. Values: 1999 Branch ID (unique within the Company).	Required
piBranchID	Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Shift's Scheduled From Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example,</any>	Required
piBranchID pdFromDate	Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Shift's Scheduled From Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY Shift's Scheduled To Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, Shift's Scheduled To Date.</any></any>	Required Required Required
piBranchID pdFromDate pdToDate	Unique Company ID. Values: 1999 Branch ID (unique within the Company). Values: 1999 Shift's Scheduled From Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY Shift's Scheduled To Date. Values: <any corresponds="" date="" string="" that="" the<br="" to="" valid="">eTime Xpress Datatime data type>. For example, MM/DD/YYYY An additional WHERE clause expression for the 4GL SELECT query that retrieves data from the system. Example: shifts.cid < 1</any></any>	Required Required Required Required

Read Shifts Events

arameters: Name	Description	Туре
NPUT PARAMETERS		
	NOTE: Records in the returned table are sorted by default primary index and their order does not depend on the value of the present parameter. This parameter makes sense only when used in the Batch mode - sorting of records is performed before selecting them for a batch. Example: by shifts.shdate Values: <any string=""> Default: <empty string=""></empty></any>	
pcReadRequestFieldsList	<pre>"*" string or a comma-separated list of fields that will be retrieved in the present operation. The system defaults its value to "*" when both pcReadRequestFieldsList and pcReadExceptFieldsList parameters are not defined. Values: * - All DATA fields will be read excluding pcReadExceptFieldsList fields;</pre>	
pcReadExceptFieldsList	A comma-separated list of fields that will be excluded from read by the present operation when pcReadRequestFieldsList is empty or "*". Otherwise, the parameter will be ignored. Values: <any corresponds="" description="" string="" that="" the="" to=""> Default: <empty string=""></empty></any>	Optiona
plGetMidnightDifference	<pre>Performs additional calculations related with Midnight Cut Off. Additional Midnight cutoff calculations process the portion of the shift occurring after midnight separately filling-in the following fields: ttShifts.MidDiffScheduled,ttShifts.MidDiffWorked, ttShifts.MidDiffGoverlap1,ttShifts.MidDiffOverlap2, ttShifts.MidDiffWorkedOverlap1, ttShifts.MidDiffWorkedOverlap2. See more fields description in eTime Xpress Web Services API Datasets - dsShifts Dataset. Values: YES - Performs additional calculations related with Midnight Cutoff; NO - Does not perform additional calculations related with Midnight Cutoff. Default: NO</pre>	Optiona
UTPUT PARAMETERS		
pcIgnoredInServiceFieldsList	A comma-separated list of fields that are restricted for the current user (pcUserID). Corresponding fields in the table will have default values. Values: <any corresponds="" description="" string="" that="" the="" to=""></any>	
ExecuteStatus	Operation status. If there are no OPERATION level errors, this parameter will be excluded from the output dsContext dataset. Values: See Errors part below	
rrors: ID Description	1	
	ted list of missed context data>	
List of contex Level: OPERAT	xt fields that are required for service and are not defined. ION	
RUN_ERROR, WRONG_CONTEXT_DATA_	-	
More than one	service is set to be run by one call. Level: OPERATION	

You do not have security privileges to access this function. Level:

Read Shifts Events

ID	Description
	OPERATION, RECORD
RUN_ERROR,1435	
	This function is not licensed. Level: OPERATION
RUN_ERROR,1965	
	There are wrong fields in the requested list: &1. Level: RECORD
RUN_ERROR, 1980,	<query string=""></query>
	Invalid QUERY string: &1. Level: OPERATION
RUN_ERROR,LOCKE	OPERATION D_CONTEXT_DATA Context record is currently locked. Level: OPERATION
RUN_ERROR,Servi (#1170)	ce Session failure: Company/Branch access has not been set up for this user.
	[%Company%]/[%Branch%] access has not been set up for this user. Level: OPERATION
RUN_ERROR,Servi	ce Session failure: Invalid Session ID. (#1670) Invalid Session ID. Level: OPERATION
RUN_ERROR,Servi assistance. (#	ce Session failure: User ID is not valid. Contact your system administrator for 1460)