

# API Documentation

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# Chapter 1: Understanding the Adaptive Insights API

## The Adaptive REST API

Adaptive Insights offers a rich API for use by our customers and partners. The API adheres to the principles of RESTful Web Services, providing a lightweight interface through which users can access and manipulate data within their Adaptive Planning or Adaptive Consolidation instance. It accepts requests in the form of XML documents and returns XML documents as responses. This REST API is a full-featured data interface which allows users or client programs to retrieve data from versions, import data into various sheets, and read information about the customer metadata such as versions, accounts, organizational levels, and users. Each API call is individually authenticated to ensure that the user invoking the API call has the permission to perform the action and access the data being requested.

## The Basic REST API Approach

The Adaptive Insights API has three general areas:

- Metadata Retrieval and Manipulation
- Data Retrieval
- Data Creation/Updating

A client can invoke an API call by sending an HTTP POST request to the main Adaptive Insights web services endpoint. The endpoint has appended to it a version number indicating which version of the API is being invoked. The current version of the Adaptive Insights API is v13. API Versions are generally updated when new releases of Adaptive products are published, though not all releases of Adaptive products will result in a new API Version. The current version will continue to be supported for at least one year after the release of the subsequent version of the API.

```
https://api.adaptiveinsights.com/api/v13
```

The HTTP POST request will contain post data, which itself will be an XML document. This XML document contains some standard sections that are present on every API method call and some other sections that are specific to each API method call. The Adaptive Insights server will process the API method call and return the results as another XML document. Like the request, the response XML document has some sections that are the same for each API method and some sections that are specific for each API method.

All data retrieval is done in the form of a “search.” The caller specifies some criteria to match some number of elements, and the server responds with a list of metadata entities or data that match those criteria. Data creation and updating is done in the form of a bulk upload of data, also submitted via a POST directive.

## Security

All API requests are stateless, single-action requests. The user must be authenticated on each separate invocation, so there is no possibility of an intruder attempting to hijack any existing web service session.

All API requests are encrypted, as they are required to be performed using the https web protocol. The authentication credentials of the user performing the action are transmitted to Adaptive as part of the body of the web services request. This means that a user's login ID and password are encrypted by the web layer before they leave the computer generating the web services request, and are only decrypted once received by the target Adaptive server.

Authenticating a user in an API request does not create a persistent session for this user – each separate web service call must authenticate its user separately.

## Permissions and Data Access Control

There is no special permission required for an Adaptive user to be able to access web services. However, the user making the web service request must have the required permissions to actually perform the action being requested. For example, to call the `importData` web service method, a user must have the `Import` permission.

In addition, the web service methods restrict the output of each call to the set of data visible to the user making the request. For example, the `exportData` web service method limits the data returned to the data found on the set of levels owned by the calling user.

## Request and Response Message Formats

### The Request

Every API method in the Adaptive API expects the XML document in its body to have a structure that looks like the following:

```
1    <?xml version='1.0' encoding='UTF-8'?>
2    <call method="exportData" callerName="a string that identifies your client application">
3        <credentials login="sample@company.com" password="my_pwd"/>
4        method specific data goes here
5    </call>
```

Here is a description of each of the relevant lines:

1. This line indicates that the subsequent data is XML encoded in UTF-8.
2. The `<call>` tag indicates which API method is being called using its method attribute. In this example, the API method is `exportData`. In addition, `callerName` is a required attribute on the `<call>` tag. It identifies your client application to the system and is used for identification purposes when troubleshooting and logging.
3. Every API method needs to authenticate the user making the call. This is typically done by providing a login name and password. Other attributes are allowed to be specified here. See the documentation for each API function for more details on credentials.
4. Some API methods require additional data in the request. For example, the `exportData` method requires some criteria describing which months, accounts, levels, etc, should be used when retrieving its data. This portion of the request will vary from method to method.
5. This is the closing tag for the call tag on line 2.

### The Response

Every response from an API method will have the following structure:

```
1    <?xml version='1.0' encoding='UTF-8'?>
2    <response success="true">
3        <messages>
4            <message key="modeled-import-success">Personnel import successful. Rows imported: 100</message>
5        </messages>
```

```
6     <output>
7     ... method output ...
8     </output>
9 </response>
```

Here is a description of the relevant lines:

1. Similar to the request, this line indicates the subsequent data is formatted as XML and encoded in UTF-8.
2. Each response is enclosed in a <response> tag. If the request was successful, the success attribute on the response tag is set to true. If the request was unsuccessful, the success attribute is set to false.
3. Many API calls will return this optional <messages> block containing a list of server-generated messages. This block may not appear if the server had no messages to return in response to the call. Error messages will always appear within the messages block.
4. Each message within the messages block has a key attribute identifying the type of message being transmitted. The message tag also contains the text of the message from the server, including any return values, status values, or other standalone metadata about the success or failure of the request. A response may contain an unlimited number of message tags.
5. The closing messages tag.
6. The actual output from the API method call, if any is returned, is enclosed in an <output> tag.
7. The actual output from the API method call will appear here. This output varies depending upon which method was called.
8. The closing output tag.
9. The closing response tag.

## API Methods

The following methods are supported in the Adaptive API:

### Metadata and Data Create, Update, and Read Methods

- **createAccount** : lets users create new GL, Custom, or Assumption accounts
- **createDimension** : lets users create new dimensions.
- **createDimensionValue** : lets users create new dimension values.
- **createLevel** : lets users create new levels.
- **customReportValues** : returns a set of data for the requested report criteria in the requested instance
- **exportAccounts** : retrieve metadata about accounts in the system
- **exportActiveCurrencies** : retrieve metadata about currencies which have been configured in the system
- **exportAttributes** : retrieve metadata for all custom attributes in the system
- **exportCustomerLogo** : retrieve a URL that can be used to retrieve the Customer Logo
- **exportData** : retrieve a set of values from a specified version
- **exportDimensionFamilies** : retrieve metadata about how dimensions are related to the accounts in the system
- **exportDimensions** : retrieve metadata about custom dimensions in the system
- **exportInstances** : retrieve metadata about the instances to which a user has access (if the user has access to multiple instances)

- **exportLevels** : retrieve metadata about organization levels in the system
- **exportRoles** : retrieve metadata about roles in the system
- **exportSheetDefinition** : retrieve the definition of a modeled or cube sheet
- **exportSheets** : retrieve a list of all sheets with type, id and name
- **exportTime** : returns time metadata either for a specific version, or for all versions if none is specified
- **exportTransactionDefinition** : retrieve the definition of the transaction sheet
- **exportUsers** : retrieve metadata about users in the system
- **exportVersions** : retrieve metadata about versions in the system
- **publishChanges** : lets users publish any unpublished changes
- **unpublishChangesStatus** : lets users determine if admin publishing is enabled, as well as how many unpublished changes they have
- **updateAccount** : lets users update the properties of existing GL, Custom, or Assumption accounts
- **updateDimension** : lets users properties of existing dimensions.
- **updateDimensionValue** : lets users update properties of existing dimension values.
- **updateLevel** : lets users update properties of existing levels.

## Data Submission Methods

- **importConfigurableModelData** : submit a set of rows for a modeled sheet
- **importCubeData** : submit a set of data to be inserted into a cube sheet
- **importStandardData** : submit a set of data to be inserted into standard accounts (GL accounts, assumptions, or custom accounts)
- **importTransactions** : submit a set of transactions to be inserted into the transactions data, if the transactions feature has been enabled
- **eraseActuals** : erase numeric data in specified months and accounts of an actuals version.

## What's New in This Document?

This manual contains the following changes from the previous edition:

- Introduced v13 of the API.
- Updated **exportAccounts** and **exportLevels** to include a new optional element: sheet.
- Updated **exportLevels** to include a new optional response attribute: hasChildren.
- Updated **exportVersions** to include a new optional element: include.



# Chapter 2: Metadata and Data Create, Update, and Read Methods

## createAccount

<b>Category</b>	Metadata modification
<b>Description</b>	Create an account in the system. This API either returns an error message when validation or creation fails, or it returns metadata for the created account upon success. This API supports only the following account types: Assumption, GL Account, and Custom Account. It does not support system or linked accounts.
<b>Permissions Required To Invoke</b>	Model for GL and Custom account. Assumptions for Assumptions.
<b>Parameters Required On Request</b>	Credentials

This method's request contains a `credentials` tag to identify and authorize the calling user. User must have Model or Assumptions permission to perform the account creation. The XML request is validated for each field and against certain business logic. Error messages are returned as part of the response when the creation fails. The operation may be halted and a warning message provided when a risky operation (one that would potentially have unexpected side effects on other accounts or data) is detected; in which case, the request needs to be resubmitted with the attribute "ignoreWarnings" set to 1 in order to complete the account creation.

## Request Format

The request schema is provided in the Relax NG Compact format.

```

default namespace = ""

start =
  element account {
    attribute parentId { xsd:integer }, #id of the parent account the new account should roll up to
    attribute name { xsd:string { maxLength="2048" minLength="1" } }, #Non-empty string with a maximum length of
    2048 characters.
    attribute isGroup { string "0" | string "1" }, #0=No, 1=Yes
    attribute code { xsd:string { maxLength="2048" } }, #String with a maximum length of 2048 characters.
    attribute description { xsd:string { maxLength="2048" } }?, #Potentially empty string with a maximum length
    of 2048 characters.
    attribute shortName { xsd:string { maxLength="64" } }?, #Potentially empty string with a maximum length of 64
    characters.
    attribute exchangeRateType { xsd:string }?, #displayAs must be CURRENCY (only if multicurrency is enabled)
    attribute hasSalaryDetail { string "0" | string "1" }?, #0=No, 1=Yes
    attribute dataPrivacy { string "PRIVATE" | string "PUBLIC_TOP" | string "PUBLIC_ALL" }?,
    attribute isBreakbackEligible { string "0" | string "1" }?, #0=No, 1=Yes
    attribute proceedWithWarnings { string "0" | string "1" }?, #0=No, 1=Yes
    element attributes{
      element attribute{
        attribute attributeId{ xsd:integer },
        attribute valueId{ xsd:integer }
      }*
    }?
  }

```

## Example

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="createAccount" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <account
    parentId="441"
    isGroup="0"
    name="Account Name"
    code="Account_Code"
    description="Account Description"
    shortName="Short Name"
    exchangeRateType="A"
    hasSalaryDetail="1"
    dataPrivacy="PRIVATE" >
  <attributes>
    <attribute attributeId="20" valueId="170" />
  </attributes>
</account>
</call>
```

credentials element			
Tag Name	credentials		
Description	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the <code>exportInstances</code> API.	MYINSTANCE1

Contents of the Element
(none)

account element			
Tag Name	account		
Description	Specifies an account to create.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
parentId	Y	The internal system ID number for the account's roll-up-to account.	16
name	Y	The name of the account, as it appears on reports and sheets.	Current Assets
isGroup	Y	Whether to create an account group, 0 for no, 1 for yes.	1
code	N	The code of the account, alphanumeric characters and underscores only. Must be empty or not supplied if creating an account group.	Cur_Assets
description	N	The textual description of the account. Defaults to empty string.	Total current assets
shortName	N	The short name for the account. Defaults to empty string.	CA
exchangeRateType	N	Only present for instances with multicurrency enabled and for accounts with displayAs="CURRENCY". Possible values: any of the exchange rate type codes present in the instance, as configured in Manage Currencies. "A"=Monthly Average, "E"=End of Month. Inherits from parent if not set. If multicurrency is disabled or parent doesn't have an exchangeRateType, this defaults to E for cumulative accounts and A for everything else.	E
hasSalaryDetail	N	Viewing splits of account requires salary detail permission. 0 for no, 1 for yes. Inherits from parent if not set, or if parent does not have hasSalaryDetail, this default to 0.	1
dataPrivacy	N	Choose whether the value of account is private ( <i>PRIVATE</i> ), public at top level only ( <i>PUBLIC_TOP</i> ) or public at all levels ( <i>PUBLIC_ALL</i> ). This defaults to <i>PRIVATE</i> .	PRIVATE
isBreakbackEligible	N	Available as a weighting choice in breakback. 0 for no, 1 for yes. Applicable only for assumptions. This defaults to 0.	0
proceedWithWarnings	N	Indicates whether the user wants to ignore warning messages and go ahead with the create operation. 0 for no, 1 for yes. If there are warnings and proceedWithWarnings=0, then the account will not be created. Set proceedWithWarnings=1 to create the account when there are warnings.	1
Contents of the Element			
One optional attributes element if you want to add one or more account attributes associated with the account.			

attributes element			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more account attribute elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>attribute</code> elements.			

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents one <i>account attribute</i> element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The ID of the account attribute that was generated by the system.	20
valueID	Y	The unique ID of the account attribute value that was generated by the system. If this value is 0, then this attribute will be removed from the account.	170
Contents of the Element			
none			

## Response Format

These are examples of responses for successful and unsuccessful creating of an account.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message type="WARNING" key="warning-unpublished-changes" values="" parentId="1">You have unpublished changes.
    Your changes will not be visible every where until it is published.</message>
  </messages>
  <output>
    <accounts>
      <account id="1" code="AssetsChild" name="AssetsChild" description="Total Assets Child"
      displayAs="CURRENCY"
      accountTypeCode="A" decimalPrecision="0" isAssumption="0" suppressZeroes="1" isDefaultRoot="1"
```

```

shortName="" exchangeRateType="E" balanceType="DEBIT" formula="" isLinked="0" owningSheetId=""
isSystem="0" isIntercompany="0" dataEntryType="" planBy="DELTA" timeRollup="LAST" timeWeightAcctId=""
levelDimRollup="SUM" levelDimWeightAcctId="" rollupText="" startExpanded="1" hasSalaryDetail=""
dataPrivacy="PRIVATE" isBreakbackEligible="" subType="CUMULATIVE" enableActuals="1" isGroup="0" />
</accounts>
</output>
</response>

```

## Error Example

```

<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message type="ERROR" key="invalid-attributevalueid" values="-50" parentId="-50">Invalid account id: "-
50"</message>
  </messages>
</response>

```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true
Contents of the Element			
A single optional messages element and/or a single optional output element.			

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <i>accounts</i> element. This <i>output</i> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

messages element	
<b>Tag Name</b>	messages
<b>Description</b>	Container for one or more message elements.
Attributes of the Element	
(none)	

<b>Contents of the Element</b>
One or more message elements.

<b>message element</b>			
<b>Tag Name</b>	message		
<b>Description</b>	Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
type	Y	Type is a way to identify the type of message. The different types are INFO, WARNING and ERROR. Type ERROR means that this request was not processed.	WARNING
key	Y	A key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	warning-invalid-timespan-start
values	N	When given, the values represent variables used in the message text.	199,12
parentId	N	When available, the ID of the new account's parent that was supplied in the request.	50
<b>Contents of the Element</b>			
The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value that caused an error.			

<b>accounts element</b>	
<b>Tag Name</b>	accounts
<b>Description</b>	Container for one or more account elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more account elements.	

<b>account element</b>			
<b>Tag Name</b>	account		
<b>Description</b>	Represents a single account being returned in the response to an <code>exportAccounts</code> API call. If this element is directly within the enclosing <code>accounts</code> element of the response (that is, it is not enclosed within another <code>account</code> element), this account element represents a <i>root account</i> , an account which has no parent.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
name	Y	The name of the account, as it appears on reports and sheets.	Current Assets
code	Y	The code of the account, as it appears when referenced in formulas.	Cur_Assets
id	N	The internal system ID number for the account. This can be used to identify accounts in other API calls, such as <code>exportDimensionFamilies</code> .	16

accountTypeCode	N	The letter code corresponding to the data type of this account.			
		<b>Type Code</b>	<b>Account Type</b>	<b>Account Class</b>	
		A	Asset	GL	
		B	Current Asset	GL	
		C	Liability & Equity	GL	
		CUBE	Cube	Cube	
		EN	YTD Earnings/Loss	GL	
		F	Fixed Asset	GL	
		G	Cost of Goods Sold	GL	
		I	Income	GL	
		J	Non-Operating Income	GL	
		K	Cumulative Translation Adjustment	System	
		L	Liability	GL	
		M	Current Liability	GL	
		MI	Consolidation Percentages	Predefined	
		MT	Metric	Metric	
		N	Net Income	GL	
		O	Other Asset	GL	
		Q	Equity	GL	
		R	Long Term Asset	GL	
		S	Assumption	Assumption	
		T	Long Term Liability	GL	
		W	Modeled	Modeled	
X	Expense	GL			
XR	Exchange Rate	Predefined			
Y	Non-Operating Expenses	GL			
Z	Custom	Custom			
description	N	The textual description of the account, if any, as entered in Account Administration		Total current assets	
shortName	N	The short name for the account, if any, as entered in Account Administration		CA	
displayAs	N	The account's output display setting: <i>NUMBER</i> , <i>CURRENCY</i> , or <i>PERCENT</i> . Only provided for accounts that have a Display As property in Account Administration.		NUMBER	
isAssumption	N	Either "0" or "1", indicating whether the account is an assumption. This is set to "1" for assumptions and exchange rate accounts.		1	
suppressZeroes	N	Flag indicating whether the account allows users to suppress zeroes on sheets or not. 0 is disallowed, 1 is allowed. Only provided for accounts that have a Suppress Zeroes property in Account Administration.		1	



isDefaultRoot	N	Either "0" or "1", indicating whether the account or account group is a default root.	1
decimalPrecision	N	Number of decimal places to display for numbers in this account. Default is 0. The special value of 99 is used to indicate a Linked Account that inherits the decimal precision of its target. A value of -1 means the account is a currency account and uses the precision of whichever currency it is displaying.	0
planBy	N	For Cumulative accounts, indicates whether the account is plan by balance ( <i>BALANCE</i> ) or plan by delta ( <i>DELTA</i> ).	BALANCE
exchangeRateType	N	Only present for accounts with displayAs="CURRENCY". Possible values: any of the exchange rate type codes present in the instance, as configured in Manage Currencies. "A"=Monthly Average, "E"=End of Month.	E
isImportable	N	Indicates whether the account is able to accept imported data. 0 means the account is not importable and 1 is importable. Only present if <code>versionName</code> or <code>versionId</code> is specified in the request.  Note: <code>isImportable</code> only indicates that an account is available for import in the specified version, not that the user making the API call has the permission to import into the version or account. Use <code>exportVersions</code> to see which versions are available to the user for import.	1
balanceType	N	Indicates the balance type of an account, <i>DEBIT</i> or <i>CREDIT</i> . This attribute is empty if the account does not have an associated balance type. Only GL accounts have a balance type.	DEBIT
dataEntryType	N	Indicates the data entry type of an account. Either <i>STANDARD</i> or <i>CUBE</i> . A blank value indicates that data entry type is not applicable to an account. For example, a linked account or a modeled account will have a blank data entry type.	CUBE
timeRollUp	N	Indicates how the account behaves when rolled up over a time period. Can be <i>SUM</i> , <i>WEIGHTED_AVERAGE</i> , <i>LAST</i> , or <i>AVERAGE</i> . This will be empty for account groups and metric accounts.	SUM
timeWeightAcctId	N	If this account has a timeRollup of <i>WEIGHTED_AVERAGE</i> , this will be the internal system id number of the account from where the weights are determined. This will be empty if no weight account exists or the account does not have a timeRollup of <i>WEIGHTED_AVERAGE</i> .	133
hasSalaryDetail	N	Either 0 or 1 to indicate whether this account has splits that require the Access Salary Detail permission to be viewed. This will be empty if not applicable to this account.	1
dataPrivacy	N	Indicates which levels the account's values are public on and able to be referenced in other levels when writing formulas. Can be <i>PRIVATE</i> so that the account's values are private, <i>PUBLIC_TOP</i> so that the account's values are public at only the top level, or <i>PUBLIC_ALL</i> so that the account's values are public at all levels. Assumptions do not have a dataPrivacy setting since they are always public.	PRIVATE

subType	N	Indicates whether the account is <i>PERIODIC</i> or <i>CUMULATIVE</i> . If an account is periodic, its value in a given month equals the net activity for the month. Examples include revenue and expense accounts. If an account is cumulative, its value equals the ending balance for a given month. This is the prior month's value plus or minus any activity in the given month. Balance sheet accounts are cumulative. This will be empty for account groups and metric accounts.	PERIODIC
startExpanded	N	This indicates whether an account and its children start out in an expanded state when first loading a sheet. This applies only for parent accounts. This will be empty for leaf accounts.	1
isBreakbackEligible	N	Either 0 or 1 to indicate whether this account can be used in a breakback. This applies only to standard assumptions. This will be empty for other types of accounts.	0
levelDimRollup	N	Indicates how the account behaves when rolled up along a level or dimension. Can be <i>SUM</i> , <i>WEIGHTED_AVERAGE</i> , <i>TEXT</i> , or <i>NONBLANK_AVERAGE</i> . This will be empty for account groups and metric accounts.	NONBLANK_AVERAGE
levelDim-WeightAcctId	N	If this account has a levelDimRollup of <i>WEIGHTED_AVERAGE</i> , this will be the internal system id number of the account from where the weights are determined. This will be empty if no weight account exists or the account's levelDimRollup is not <i>WEIGHTED_AVERAGE</i> .	118
rollupText	N	If this account has a levelDimRollup of <i>TEXT</i> , then this is the text string that will show up in the cell indicating the rolled up value of the account.	None
enableActuals	N	0 to show only plan data for the account. 1 to import actuals into the account. For linked accounts, 0 will show actuals only if the linked account has them, and 1 will enable actuals for the linked account. This will be empty for account groups and metric accounts.	1
isGroup	Y	0 or 1 to indicate whether this is an account group or not.	1
isIntercompany	N	0 or 1 to indicate whether this account is an intercompany account or not.	1
formula	N	The formula for the account, if it has one.	ACCT.Revenue - ACCT.Expenses
isLinked	N	0 or 1 to indicate whether this account is a linked account or not.	1
isSystem	N	0 or 1 to indicate whether this account is a system account or not.	1
owningSheetId	N	For accounts that can be on modeled and cube sheets, the internal system id number of the sheet that this account is on. This will be empty if it is not such an account, or if it is such an account but is not currently assigned to a sheet.	17
<b>Contents of the Element</b>			
One nested <code>account</code> element for each direct child account of this account.			
One <code>attributes</code> element if account has one or more attributes associated with it.			

<b>attributes element</b>			
<b>Tag Name</b>		attributes	
<b>Description</b>		Container for one or more <code>attribute</code> elements.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
(none)			
<b>Contents of the Element</b>			
One or more <code>attribute</code> elements.			

<b>attribute element</b>			
<b>Tag Name</b>		attribute	
<b>Description</b>		Represents a single non-blank account attribute mapping to which an account is associated.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
name	Y	The name of the account attribute.	SEC Reporting
value	Y	The name of the account attribute associated with the account.	Yes
attributeId	Y	The internal system ID number of the account attribute.	10
valueId	Y	The internal system ID number of the account attribute value.	108
<b>Contents of the Element</b>			
None.			

## createDimension

<b>Category</b>	Metadata modification
<b>Description</b>	Create a dimension. If successful, the API returns details for the dimension that has just been created.
<b>Permissions Required To Invoke</b>	Model
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user. User must have Model permission to create the dimension.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="createDimension" callerName="fred">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <dimension
    name="New Dimension Name"
  />
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

dimension element			
<b>Tag Name</b>	dimension		
<b>Description</b>	Specifies a dimension to create.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	N	The name of the dimension. The name must be unique.	NewDimensionName
shortName	N	Displayable title of the column, as seen on the sheet.	NewDimensionShortName
listDimension	N	"1" means this is a list dimension, "0" (or not specified) means it isn't.	0
useOnLevels	N	"1" means this dimension can be used on levels, "0" (or not specified) means it can't.	0
autoCreate	N	"1" means values for this dimension can be created via the import, "0" (or not specified) means they can't.	0
keepSorted	N	"1" means values for this dimension are always sorted alphabetically, "0" (or not specified) means they can be manually ordered.	0
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <dimensions>
      <dimension id="41" name="New Dimension Name" shortName="" autoCreate="0" listDimension="0"
keepSorted="0" useOnLevels="0">
        </dimension>
      </dimensions>
    </output>
  </response>
```

<b>dimensions element</b>	
<b>Tag Name</b>	dimensions
<b>Description</b>	Container for one or more <code>dimension</code> elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more <code>dimension</code> elements.	

<b>dimension element</b>			
<b>Tag Name</b>	dimension		
<b>Description</b>	Represents a single custom dimension being returned in the response to an <code>exportDimensions</code> API call.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
<code>id</code>	Y	The internal system ID number for the dimension. This can be used to identify dimensions in other API calls, such as <code>exportDimensionFamilies</code> .	16
<code>name</code>	Y	The name of the dimension, as it appears on reports and sheets.	Customer
<code>shortName</code>	N	The short name for the dimension, if any, as entered in Dimension Administration	cust.
<code>autoCreate</code>	Y	1 if the selected dimension has the "Data import automatically creates dimension values" field set; 0 otherwise.	0
<code>listDimension</code>	Y	1 if the selected dimension is list dimension; 0 otherwise.	1
<code>keepSorted</code>	Y	1 if the selected dimension is kept sorted, 0 otherwise.	1
<code>useOnLevels</code>	Y	1 if the selected dimension can be used on levels, 0 otherwise.	1
<b>Contents of the Element</b>			
Zero or more <code>dimensionValue</code> elements. Each enclosed <code>dimensionValue</code> element represents a "root dimension value" in the dimension, a value which has no parent value.			

## createDimensionValue

<b>Category</b>	Metadata modification
<b>Description</b>	Create a dimension value. If successful, the API returns details for the dimension and all dimension values including the one that has just been created.
<b>Permissions Required To Invoke</b>	Model
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user. User must have Model permission to create the dimension.

This method returns an error if there are unpublished changes.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="createDimensionValue" callerName="fred">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <dimensionValue
    dimensionId="10"
    name="New Dimension Value">
    <attributes>
      <attribute attributeId="20" valueId="170" />
    </attributes>
  </dimensionValue>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>dimensionValue element</b>			
<b>Tag Name</b>	dimensionValue		
<b>Description</b>	Specifies a dimension value to create.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
dimensionId	Y	The id of the dimension. Either dimensionId or parentId must be specified.	34
parentId	N	The id of the parent dimension value. Either dimensionId or parentId must be specified.	220
name	Y	The name of the dimension value.	NewDimensionValue
shortName	N	The short name of the dimension value.	NewDimensionValue-ShortName
description	N	The description of the dimension value.	This is a NewDimensionValue
<b>Contents of the Element</b>			
(none)			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more dimension attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			



Contents of the Element
One or more attribute elements.

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one dimension attribute element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the dimension attribute generated by system.	20
valueID	Y	The unique id of the dimension attribute value generated by system. If this value is 0 then this attribute is removed from the account.	170
Contents of the Element			
(none)			

## Response Format

These are examples of responses for successful and unsuccessful creating of a dimension value.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <dimensions>
      <dimension id="6" name="Department" shortName="" autoCreate="0" listDimension="0" keepSorted="0"
useOnLevels="1">
        <dimensionValue id="7" name="Engr" description="Engineering" shortName="">
          <dimensionValue id="52" name="QA" description="Quality Assurance" shortName="" />
          <dimensionValue id="53" name="Dev" description="Development" shortName="" /></dimensionValue>
        </dimension>
      <dimension id="7" name="Education" shortName="" autoCreate="0" listDimension="1" keepSorted="0"
useOnLevels="0">
        <dimensionValue id="32" name="Graduate" description="Graduate degree" shortName="">
          <attributes>
            <attribute attributeId="21" name="Education Type" valueId="197" value="Tech1" />
          </attributes>
        </dimensionValue>
        <dimensionValue id="33" name="Masters" description="Masters degree" shortName="">
          <attributes>
            <attribute attributeId="21" name="Education Type" valueId="196" value="Management" />
          </attributes>
        </dimensionValue>
        <dimensionValue id="34" name="Phd" description="Phd" shortName="" />
      </dimension>
    </dimensions>
  </output>
</response>
```

```
</response>
```

## Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message type="ERROR" key="invalid-attributevalueid" values="-50">Invalid attribute value id: "-50"</message>
  </messages>
</response>
```

Dimensions are ordered by name.

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

dimensions element	
Tag Name	dimensions
Description	Container for one or more <code>dimension</code> elements.

Attributes of the Element
(none)
Contents of the Element
One or more <code>dimension</code> elements.

dimension element			
<b>Tag Name</b>	dimension		
<b>Description</b>	Represents a single custom dimension being returned in the response to an <code>exportDimensions</code> API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
<code>id</code>	Y	The internal system ID number for the dimension. This can be used to identify dimensions in other API calls, such as <code>exportDimensionFamilies</code> .	16
<code>name</code>	Y	The name of the dimension, as it appears on reports and sheets.	Customer
<code>shortName</code>	N	The short name for the dimension, if any, as entered in Dimension Administration	cust.
<code>autoCreate</code>	Y	1 if the selected dimension has the "Data import automatically creates dimension values" field set; 0 otherwise.	0
<code>listDimension</code>	Y	1 if the selected dimension is list dimension; 0 otherwise.	1
<code>keepSorted</code>	Y	1 if the selected dimension is kept sorted, 0 otherwise.	1
<code>useOnLevels</code>	Y	1 if the selected dimension can be used on levels, 0 otherwise.	1
Contents of the Element			
Zero or more <code>dimensionValue</code> elements. Each enclosed <code>dimensionValue</code> element represents a "root dimension value" in the dimension, a value which has no parent value.			

dimensionValue element			
<b>Tag Name</b>	dimensionValue		
<b>Description</b>	Represents a single member value of a custom dimension being returned in the response to an <code>exportDimensions</code> API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
<code>id</code>	Y	The internal system ID number for this member value of the dimension.	34

name	Y	The label for the member value of the dimension, as displayed on reports and used in formulas.	A Corp
shortName	N	The short name for the dimension value, if any, as entered in Dimension Administration	A
description	N	The description of the dimension value, if any, as entered in Dimension Administration	A Corporation
Contents of the Element			
Zero or more optional <code>dimensionValue</code> elements. Each enclosed <code>dimensionValue</code> element represents a "child dimension value" of this dimension value, whose members implicitly roll up to this value.			

attributes element			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more <code>dimension</code> <code>attribute</code> elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>attribute</code> elements.			

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one <code>dimension</code> <code>attribute</code> element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the dimension attribute generated by system.	20
name	Y	The name of the dimension attribute	Education Type
valueID	Y	The unique id of the dimension attribute value generated by system.	170
value	Y	The value of the dimension attribute.	Tech1
Contents of the Element			
(none)			

## createLevel

<b>Category</b>	Metadata modification
<b>Description</b>	Create a level. If successful, the API returns details for the level that has just been created.
<b>Permissions Required To Invoke</b>	Organization Structure
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user. User must have Organization Structure permission to create the level.

This method returns an error if there are unpublished changes.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="createLevel" callerName="fred">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <level
    name="New Level Name"
    shortName="NewLvlName"
    parentId="2"
  >
    <attributes>
      <attribute attributeId="20" valueId="199" />
    </attributes>
  </level>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

level element			
<b>Tag Name</b>	level		
<b>Description</b>	Specifies a level to create.		
Attributes of the Element			
parentId	Y	The ID of the level to create this level as a child of.	34
name	Y	The name of the level. The name must be unique.	New Level Name
shortName	N	The short name of the level.	NewLvName
proceed-WithWarnings	N	Indicates whether the user wants to ignore warning messages and go ahead with the create operation. 0 for no, 1 for yes. If there are warnings and proceedWithWarnings=0, then the level will not be created. Set proceed-WithWarnings=1 to create the level when there are warnings.	1
Contents of the Element			
One optional attributes element if you want to set one or more level attributes associated with the level.			

attributes element			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more level attribute elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example

(none)
<b>Contents of the Element</b>
One or more <code>attribute</code> elements.

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one <code>level</code> <code>attribute</code> element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the level attribute generated by system.	20
valueID	Y	The unique id of the level attribute value generated by system. If this value is 0 then this attribute is removed from the account.	170
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <levels>
      <level="41" name="New Level Name" shortName="NewLvlName" currency="USD">
        <attribute attributeId="20" name="Regional Code" valueId="199" value="A-145" />
      </level>
    </levels>
  </output>
</response>
```

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single required <code>level</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

levels element	
<b>Tag Name</b>	levels
<b>Description</b>	Container for the level element.
Attributes of the Element	
(none)	
Contents of the Element	
One or more level elements. If the request includes inaccessible levels, there will be only one level element, which represents the top level of the organization.	

level element			
<b>Tag Name</b>	level		
<b>Description</b>	Represents a single organization level being returned in the response to an exportLevels API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the level.	7
name	Y	The name of the level, as it appears on reports and sheets.	Development
currency	Y	The currency code for the currency assigned to this level of the organization. The currency will be one of the configured currencies for the instance, found in the exportActiveCurrencies call.	INR
shortName	N	The abbreviation for the level, if any, as entered in Organization Administration.	Dev
availableStart	N	The start date for the availability of the level for actuals version, applicable only when the Actuals version is specified in the request. The value can be either a specific month, in the format "MM/YYYY", or the special value "START" indicating the start of the version.	01/2013
availableEnd	N	The end date for the availability of the level for actuals version, applicable only when the Actuals version is specified in the request. The value can be either a specific month, in the format "MM/YYYY", or the special value "END" indicating the end of the version.	12/2013



isImportable	N	Indicates if the associated level is importable in the specified version. '0' means it is not importable and '1' means it is importable. A level is importable if at least one timeslot in the specified version is importable. isImportable attribute is only emitted if versionName or versionID is specified in the request.  Note: isImportable only indicates that a level is available for import in the specified version, not that the user making the API call has the permission to import into the version or level. Use exportVersions to see which versions are available to the user for import.	1
workflowStatus	N	Emits the workflow status for the associated level. I for "In Progress", S for "Submitted", R for "Rejected", A for "Approved" and L for "Locked". Only included in the response if workflow is enabled for this company, and a planning versionName or versionID is specified in the request. Workflow is not available on actuals versions.	I
isLinked	Y	Indicates whether the level is a linked level. 0 for no, 1 for yes.	1
isElimination	Y	Indicates whether the level is an elimination level. 0 for no, 1 for yes.	0
<b>Contents of the Element</b>			
One nested level element for each direct child level of this level. One attributes element if this level has one or more attributes associated with it.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more attribute elements.			

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents a single non-blank level attribute mapping to which a level is associated.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	The name of the level attribute	Corporate Discount

value	Y	The value of the level attribute associated with the level.	Yes
attributeID	Y	The internal system id number of the level attribute.	20
valueID	Y	The internal system id number of the level attribute value.	188
<b>Contents of the Element</b>			
(none)			

## createUser

<b>Category</b>	Metadata modification
<b>Description</b>	Create a user(s). If successful, the API will return a message for the user that has just been created.
<b>Permissions Required To Invoke</b>	User Permission
<b>Parameters Required On Request</b>	Credentials

This method's request contains a *credentials* tag to identify and authorize the calling user. User must have "User Permission" permission to create the user(s).

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="createUser" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <users>
    <user
      email="newUser@company.com"
      name="new guy"
      password="new Password"
      roleId="1"
      ownedLevels="2,3,7,11"
      timeZone="America/Mexico_City"
    />
  </users>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <i>credentials</i> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

user element			
<b>Tag Name</b>	user		
<b>Description</b>	Specifies a user or users to create		
Attributes of the Element			
Attribute Name	Required?	Value	Example
email	Y	The email address for this user. Uniqueness is required. The only allowed characters are a-z, A-Z, 0-9, - and .	newUser@company.com
name	Y	The name of this user.	Melvin Morsmere
password	Y	The password of this user	newpassword
roleId	N	The internal system ID of the role assigned to this user. There is no default. (The roleId attribute is also covered in the exportRoles API.)	3
ownedLevels	N	The internal system ID for the levels separated by comma. There is no default. (The ownedLevels attribute is also covered in the exportLevels API.)	5,10,13
timeZone	N	The time zone of the user. If none is specified, it defaults to US/Pacific.	US/Pacific
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
```

```

<output>
  <result>
    <created_users>
      <user success="true" message="user newUser@company.com was created successfully."/>
    </created_users>
  </result>
</output>

```

```
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
Contents of the Element			
A single <i>result</i> element with <i>created_user</i> or <i>updated_user</i> status elements depending on whether a <code>createUser</code> or <code>updateUser</code> call was made, respectively.			

result element			
Tag Name	result		
Description	Container for one or more status elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <i>created_user</i> or <i>updated_user</i> status elements depending on whether a <code>createUser</code> or <code>updateUser</code> call was made, respectively.			

created_users element			
Tag Name		created_users	
Description		Represents a message sent from the system back to the caller.	
Attributes of the Element			
Attribute Name	Required?	Value	Example
user success	Y	The status returned by the call. Can be <code>true</code> or <code>false</code> .	<code>true</code>
message	Y	The status message.	<code>user newUser@company.com was created successfully.</code>

<b>Contents of the Element</b>
One subscriptions element.

## customReportValues

<b>Category</b>	Data retrieval
<b>Description</b>	Returns a set of data for the requested report criteria in the requested instance.
<b>Permissions Required To Invoke</b>	None (user must have a role assigned)
<b>Parameters Required On Request</b>	Credentials, Report

This method's request contains a specification for a report that can be used to search data and return values. The API takes internal id numbers as inputs. Metadata retrieval APIs can be called to get valid ids. The results are represented by coords and values. The response also returns warnings and error messages if applicable.

This API is based on the matrix reports found in Adaptive Planning and Adaptive Consolidation. The request requires that the caller specify elements on an X-axis (columns), Y-axis (rows), and on an optional filter axis used to filter all data retrieved by the API. Matrix reports contain axes that determine which data appears on the report. Each axis defines an edge of the report. All matrix reports have three axes:

- the X axis (the top edge). It defines the set of columns on the report.
- the Y axis (the left edge). It defines the set of rows on a report
- the filter axis, a global axis that defines properties that apply to all data on the report.

An axis can be divided into multiple segments. A segment is a way of separating sets of dimensions on a single axis. The filter axis can only have one segment, but the other two axes can have as many segments as you wish.

Each segment can have an unlimited number of tiers. A tier represents a single logical dimension used to describe which elements of that dimension apply to the rows or columns under it. A segment can only contain at most one tier per logical dimension.

Each tier can contain one or more elements of the tier's dimension. (All elements in the tier must belong to the dimension specified in the tier.) An element is usually an item in the dimension, such as a particular account in the account dimension, or a fiscal quarter in the time dimension. These elements are then used by the system to select and aggregate the data found on the report.

When a segment on the X or Y axis contains multiple tiers, the elements of each tier are combined with all the elements of all the other tiers to form the Cartesian product of all possible combinations of tier elements. Each column or row represents one possible combination of elements, selecting one element from each tier. For example, if a segment on the X axis--the columns along the top--contains a tier with five elements and a second tier with two elements, the segment will result in ten separate columns, representing all possible combinations of the elements on the tiers. You cannot place an element type on multiple axes. For example, if you place the account element type on rows, you cannot then add accounts on columns or filters.

A tier can have both individual elements or rollup elements. Rollup elements arbitrarily rollup all elements specified under them. Rollup elements are not allowed in the filter.

The filter axis behaves very similarly to the X and Y axes, but it has one slight difference: because the filter axis applies to all data in the report, it cannot combine its tiers to form multiple rows or columns. Instead, the filter axis combines all elements of each tier, aggregating the data from all elements together as though those elements were rolling up to a single aggregation.

See the documentation or online help about matrix reports for more information on segments, axes, and dimensional elements.

## Request Format

The XML schema for the request can be found here: [Chapter 5: customReportValues REST Specification on page 216](#).

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="customReportValues" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"
    locale="fr_FR" instanceCode="INSTANCE1"></credentials>
  <report suppress-zeroes="1"> <!-- run report suppressing blanks, but not zero values -->
    <axis type="X">
      <segment>
        <!-- time columns -->
        <tier type="time">
          <!-- timespan creates multiple time columns from
            Jan-2014 to Dec-2014. Default includes month,
            quarter, and year rollups -->
          <el complex-type="timespan" end="201412" start="201401" />
          <el id="201501" /> <!-- single column of Jan 2015 -->
        </tier>
      </segment>
    </axis>
    <!-- rows -->
    <axis type="Y">
      <segment>
        <!-- There are 2 tiers with 4 elements total. This generates 4 rows of:
          1. dimension value with id 135, account with id 51
          2. dimension value with id 135, account with id 53
          3. dimension value with id 199, account with id 51
          4. dimension value with id 199, account with id 53 -->
          <tier entity-id="13" type="dim"> <!-- dimension values with id 135
            and 199 from dimension with id of 13 -->
            <el id="135" />
            <el id="199" />
          </tier>
          <tier type="acct"> <!-- account with id of 51 and 53 -->
            <el id="51" />
            <el id="53" />
          </tier>
        </segment>
      </axis>
    </report>
  </call>
```

Each invocation of this API call must contain exactly one element of each of the listed types:

- credentials
- report

credentials element	
<b>Tag Name</b>	credentials
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.
<b>Attributes of the Element</b>	



Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>report element</b>			
<b>Tag Name</b>	report		
<b>Description</b>	Specifies the elements that make up the report.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
suppress-zeroes	N	Specifying this attribute suppresses data in different ways. The valid values for this attribute are 0, 1, 2. 0=Nothing suppressed, 1=Suppress blank cells but not zeroes, 2=Suppress blank and zero cells(Default). A cell is considered blank if the cell explorer value for that cell is empty. Cells that roll up to an empty text value are not considered blank.	0
show-cell-notes	N	When given, this attribute either shows or hides cell notes. 0=Don't show cell notes(default), 1=show cell notes	1
<b>Contents of the Element</b>			
(none)			

## Response Format

The XML schema for the response can be found here: [Chapter 5: customReportValues REST Specification](#) on page 216.

```
<?xml version="1.0" encoding="utf-8"?>
  <response success="true">
    <messages>
      <!-- Dimension value id 13 is invalid. Rows with value id 13 has been removed from the report. -->
      <message type="WARNING" key="invalid-dim-attr-id" values="199,13">Invalid value Id
        199 for dimension/attribute type id 13
      </message>
    </messages>
    <!-- Global filters. Although the request did not supply any filters, defaults are used when dimension
      types are not specified. Reporting against version with id 2, which is the current version. Level
      with id 1 is the top most level this user has access to. -->
    <filters>
      <coords>
        <coord type="ver" rollup="1">
          <el id="2" />
        </coord>
        <coord type="lvl" rollup="1">
          <el id="1" />
        </coord>
      </coords>
    </filters>
    <!-- Only two time columns Dec-2014 and Jan-2015 have data, all other columns have been removed -->
    <cols>
      <col id="1">
        <coords>
          <coord type="time">
            <el id="201412" />
          </coord>
        </coords>
      </col>
      <col id="2">
        <coords>
          <coord type="time">
            <el id="201501" />
          </coord>
        </coords>
      </col>
    </cols>
    <rows>
      <row>
        <!-- Row coordinates are account with id 51 and dimension value with id of 135 from dimension
          with id of 13 -->
        <coords>
          <coord type="acct">
            <el id="51" />
          </coord>
          <coord type="dim" entity-id="13">
            <el id="135" />
          </coord>
        </coords>
        <cell value="2.345" col="1" /> <!-- This value's coordinates are the row coordinates listed above,
          matches column position 1 and the global filters. -->
        <cell value="2.345" col="2" /> <!-- This value's coordinates are the row coordinates listed above,
          matches column position 2 and the global filters. -->
      </row>
      <row>
        <!-- Row coordinates are account with id 53 and dimension value with id of 135 from dimension
          with id of 13 -->
        <coords>
          <coord type="acct">
            <el id="53" />
          </coord>
          <coord type="dim" entity-id="13">

```

```

        <el id="135" />
      </coord>
    </coords>
    <cell value="5.34" col="1" /> <!-- This value's coordinates are the row coordinates listed above,
    matches column position 1 and the global filters. -->
    <cell value="7.44" col="2" /> <!-- This value's coordinates are the row coordinates listed above,
    matches column position 2 and the global filters. -->
  </row>
</rows>
</report>
</output>

</response>

```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

messages element	
Tag Name	messages
Description	Container for one or more <code>message</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>message</code> elements.	

message element	
Tag Name	message
Description	Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.
Attributes of the Element	

Attribute Name	Required?	Value	Example
type	Y	Type is a way to identify the type of message. The different types are INFO, WARNING and ERROR. Type "ERROR" means that this request was not processed.	WARNING
key	Y	A key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	warning-invalid-time-span-start
values	N	When given, the values represents variables that are used in the message text.	199, 12
Contents of the Element			
The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value which caused an error.			

## exportAccounts

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all accounts in the system, including all account types: Assumptions, Cube Accounts, Custom Accounts, GL Accounts, Metric Accounts, and Modeled Accounts.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains a `credentials` tag to identify and authorize the calling user and an `include` tag to indicate whether the response should include information about the importability of the accounts in a particular version. Once verified, the method returns an XML document describing the complete set of accounts in the system. Accounts are returned in a nested tree fashion, with one `account` tag enclosing another if the account represented by the enclosing tag is a parent of the enclosed account.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportAccounts" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <include versionName="sample version"/>
  <sheet id="3" />
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>include element</b>			
<b>Tag Name</b>	include		
<b>Description</b>	Represents a set of flags indicating what aspects of the accounts' information should be included or excluded from the response. This element is optional: if not present, the API will return account information for all versions, and will not include the isImportable attribute.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
versionName	N	Indicates whether the response should include the isImportable attribute in the response for each account, indicating whether the account can accept imported data for the specified version. The default, if this element or its attribute is not present, is to not emit any isImportable attributes in the response. If both versionName and versionID attributes are specified on this element, the versionID is ignored.	Budget 2016
versionID	N	Same as versionName (above) except it takes an internal version ID number as a parameter. Indicates whether the response should include the isImportable attribute in the response for each account, indicating whether the account can accept imported data for the specified version.	102
<b>Contents of the Element</b>			
(none)			

sheet element			
<b>Tag Name</b>	sheet		
<b>Description</b>	Represents a sheet in which only accounts available for that sheet should be included in the response. This element is optional: if not present, the API will return account information independent of a particular sheet.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet.	234
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <accounts>
      <account code="" name="GL" description="" isGroup="1">
        <account id="1" code="Assets" name="Assets" description="Total Assets" displayAs="CURRENCY"
          accountTypeCode="A" decimalPrecision="0" isAssumption="0" suppressZeroes="1" isDefaultRoot="1"
          shortName="" exchangeRateType="E" balanceType="DEBIT" formula="" isLinked="0" owningSheetId=""
          isSystem="0" isIntercompany="0" dataEntryType="" planBy="DELTA" timeRollup="LAST" timeWeightAcctId=""
          levelDimRollup="SUM" levelDimWeightAcctId="" rollupText="" startExpanded="1" hasSalaryDetail=""
          dataPrivacy="PRIVATE" isBreakbackEligible="" subType="CUMULATIVE" enableActuals="1" isGroup="0">
          <account id="16" code="Current_Assets" name="Current Assets" description="current assets"
            displayAs="CURRENCY" accountTypeCode="B" decimalPrecision="0" isAssumption="0" suppressZeroes="1"
            isDefaultRoot="1" shortName="" exchangeRateType="E" balanceType="DEBIT" formula="" isLinked="0"
            owningSheetId="" isSystem="0" isIntercompany="0" dataEntryType="" planBy="DELTA" timeRollup="LAST"
            timeWeightAcctId="" levelDimRollup="SUM" levelDimWeightAcctId="" rollupText="" startExpanded="1"
            hasSalaryDetail="" dataPrivacy="PRIVATE" isBreakbackEligible="" subType="CUMULATIVE"
            enableActuals="1"
            isGroup="0">
            <account id="51" code="70110" name="Bank Account" description="Wells Fargo account"
              displayAs="CURRENCY" accountTypeCode="B" decimalPrecision="0" isAssumption="0" suppressZeroes="1"
              isDefaultRoot="0" shortName="" exchangeRateType="E" balanceType="DEBIT" formula="" isLinked="0"
              owningSheetId="" isSystem="0" isIntercompany="0" dataEntryType="STANDARD" planBy="BALANCE"
              timeRollup="LAST" timeWeightAcctId="" levelDimRollup="SUM" levelDimWeightAcctId="" rollupText=""
              startExpanded="" hasSalaryDetail="0" dataPrivacy="PRIVATE" isBreakbackEligible=""
              subType="CUMULATIVE"
              enableActuals="1" isGroup="0">
              <attributes>
                <attribute name="SEC Reporting" value="Yes" />
                <attribute name="GAAP Reporting" value="No" />
              </attributes>
            </account>
          </account>
        </account>
      </accounts>
    </output>
```

&lt;/response&gt;

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

accounts element	
Tag Name	accounts
Description	Container for one or more <code>account</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>account</code> elements.	

account element	
Tag Name	account



<b>Description</b>		Represents a single account being returned in the response to an <code>exportAccounts</code> API call. If this element is directly within the enclosing <code>accounts</code> element of the response (that is, it is not enclosed within another <code>account</code> element), this account element represents a <i>root account</i> , an account that has no parent.																																																																															
<b>Attributes of the Element</b>																																																																																	
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>																																																																														
name	Y	The name of the account, as it appears on reports and sheets.	Current Assets																																																																														
code	Y	The code of the account, as it appears when referenced in formulas.	Cur_Assets																																																																														
id	N	The internal system ID number for the account. This can be used to identify accounts in other API calls, such as <code>exportDimensionFamilies</code> .	16																																																																														
accountTypeCode	N	<p>The letter code corresponding to the data type of this account</p> <table border="1"> <thead> <tr> <th>Type Code</th> <th>Account Type</th> <th>Account Class</th> </tr> </thead> <tbody> <tr><td>A</td><td>Asset</td><td>GL</td></tr> <tr><td>B</td><td>Current Asset</td><td>GL</td></tr> <tr><td>C</td><td>Liability &amp; Equity</td><td>GL</td></tr> <tr><td>CUBE</td><td>Cube</td><td>Cube</td></tr> <tr><td>EN</td><td>YTD Earnings/Loss</td><td>GL</td></tr> <tr><td>F</td><td>Fixed Asset</td><td>GL</td></tr> <tr><td>G</td><td>Cost of Goods Sold</td><td>GL</td></tr> <tr><td>I</td><td>Income</td><td>GL</td></tr> <tr><td>J</td><td>Non-Operating Income</td><td>GL</td></tr> <tr><td>K</td><td>Cumulative Translation Adjustment</td><td>System</td></tr> <tr><td>L</td><td>Liability</td><td>GL</td></tr> <tr><td>M</td><td>Current Liability</td><td>GL</td></tr> <tr><td>MI</td><td>Consolidation Percentages</td><td>Predefined</td></tr> <tr><td>MT</td><td>Metric</td><td>Metric</td></tr> <tr><td>N</td><td>Net Income</td><td>GL</td></tr> <tr><td>O</td><td>Other Asset</td><td>GL</td></tr> <tr><td>Q</td><td>Equity</td><td>GL</td></tr> <tr><td>R</td><td>Long Term Asset</td><td>GL</td></tr> <tr><td>S</td><td>Assumption</td><td>Assumption</td></tr> <tr><td>T</td><td>Long Term Liability</td><td>GL</td></tr> <tr><td>W</td><td>Modeled</td><td>Modeled</td></tr> <tr><td>X</td><td>Expense</td><td>GL</td></tr> <tr><td>XR</td><td>Exchange Rate</td><td>Predefined</td></tr> <tr><td>Y</td><td>Non-Operating Expenses</td><td>GL</td></tr> <tr><td>Z</td><td>Custom</td><td>Custom</td></tr> </tbody> </table>		Type Code	Account Type	Account Class	A	Asset	GL	B	Current Asset	GL	C	Liability & Equity	GL	CUBE	Cube	Cube	EN	YTD Earnings/Loss	GL	F	Fixed Asset	GL	G	Cost of Goods Sold	GL	I	Income	GL	J	Non-Operating Income	GL	K	Cumulative Translation Adjustment	System	L	Liability	GL	M	Current Liability	GL	MI	Consolidation Percentages	Predefined	MT	Metric	Metric	N	Net Income	GL	O	Other Asset	GL	Q	Equity	GL	R	Long Term Asset	GL	S	Assumption	Assumption	T	Long Term Liability	GL	W	Modeled	Modeled	X	Expense	GL	XR	Exchange Rate	Predefined	Y	Non-Operating Expenses	GL	Z	Custom	Custom
Type Code	Account Type	Account Class																																																																															
A	Asset	GL																																																																															
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XR	Exchange Rate	Predefined																																																																															
Y	Non-Operating Expenses	GL																																																																															
Z	Custom	Custom																																																																															

description	N	The textual description of the account, if any, as entered in Account Administration	Total current assets
shortName	N	The short name for the account, if any, as entered in Account Administration	CA
displayAs	N	The account's output display setting: NUMBER, CURRENCY, or PERCENT. Only provided for accounts that have a Display As property in Account Administration.	NUMBER
isAssumption	N	Either "0" or "1", indicating whether the account is an assumption. This is set to "1" for assumptions and exchange rate accounts.	1
suppressZeroes	N	Flag indicating whether the account allows users to suppress zeroes on sheets or not. 0 is disallowed, 1 is allowed. Only provided for accounts which have a Suppress Zeroes property in Account Administration.	1
isDefaultRoot	N	Either "0" or "1", indicating whether the account or account group is a default root.	1
decimalPrecision	N	Number of decimal places to display for numbers in this account. Default is 0. The special value of 99 is used to indicate a Linked Account which inherits the decimal precision of its target. A value of -1 means the account is a currency account and uses the precision of whichever currency it is displaying.	0
planBy	N	For Cumulative accounts, indicates whether the account is plan by balance ( <i>BALANCE</i> ) or plan by delta ( <i>DELTA</i> ).	BALANCE
exchangeRateType	N	Only present for accounts with displayAs="CURRENCY". Possible values: any of the exchange rate type codes present in the instance, as configured in Manage Currencies. "A"=Monthly Average, "E"=End of Month.	E
isImportable	N	Indicates whether the account is able to accept imported data. 0 means the account is not importable and 1 is importable. Only present if <code>versionName</code> or <code>versionId</code> is specified in the request.  Note: <code>isImportable</code> only indicates that an account is available for import in the specified version, not that the user making the API call has the permission to import into the version or account. Use <code>exportVersions</code> to see which versions are available to the user for import.	1
balanceType	N	Indicates the balance type of an account, <i>DEBIT</i> or <i>CREDIT</i> . This attribute is empty if the account does not have an associated balance type. Only GL accounts have a balance type.	DEBIT
dataEntryType	N	Indicates the data entry type of an account. Either <i>STANDARD</i> or <i>CUBE</i> . A blank value indicates that data entry type is not applicable to an account. For example, a linked account or a modeled account will have a blank data entry type.	CUBE
timeRollUp	N	Indicates how the account behaves when rolled up over a time period. Can be <i>SUM</i> , <i>WEIGHTED_AVERAGE</i> , <i>LAST</i> , or <i>AVERAGE</i> . This will be empty for account groups and metric accounts.	SUM

timeWeightAcctId	N	If this account has a timeRollup of <i>WEIGHTED_AVERAGE</i> , this will be the internal system id number of the account from where the weights are determined. This will be empty if no weight account exists or the account does not have a timeRollup of <i>WEIGHTED_AVERAGE</i> .	133
hasSalaryDetail	N	Either 0 or 1 to indicate whether this account has splits that require the Access Salary Detail permission to be viewed. This will be empty if not applicable to this account.	1
dataPrivacy	N	Indicates which levels the account's values are public on and able to be referenced in other levels when writing formulas. Can be <i>PRIVATE</i> so that the account's values are private, <i>PUBLIC_TOP</i> so that the account's values are public at only the top level, or <i>PUBLIC_ALL</i> so that the account's values are public at all levels. Assumptions do not have a dataPrivacy setting since they are always public.	PRIVATE
subType	N	Indicates whether the account is <i>PERIODIC</i> or <i>CUMULATIVE</i> . If an account is periodic, its value in a given month equals the net activity for the month. Examples include revenue and expense accounts. If an account is cumulative, its value equals the ending balance for a given month. This is the prior month's value plus or minus any activity in the given month. Balance sheet accounts are cumulative. This will be empty for account groups and metric accounts.	PERIODIC
startExpanded	N	This indicates whether an account and its children start out in an expanded state when first loading a sheet. This applies only for parent accounts. This will be empty for leaf accounts.	1
isBreakbackEligible	N	Either 0 or 1 to indicate whether this account can be used in a breakback. This applies only to standard assumptions. This will be empty for other types of accounts.	0
levelDimRollup	N	Indicates how the account behaves when rolled up along a level or dimension. Can be <i>SUM</i> , <i>WEIGHTED_AVERAGE</i> , <i>TEXT</i> , or <i>NONBLANK_AVERAGE</i> . This will be empty for account groups and metric accounts.	NONBLANK_AVERAGE
levelDim-WeightAcctId	N	If this account has a levelDimRollup of <i>WEIGHTED_AVERAGE</i> , this will be the internal system id number of the account from where the weights are determined. This will be empty if no weight account exists or the account's levelDimRollup is not <i>WEIGHTED_AVERAGE</i> .	118
rollupText	N	If this account has a levelDimRollup of <i>TEXT</i> , then this is the text string that will show up in the cell indicating the rolled up value of the account.	None
enableActuals	N	0 to show only plan data for the account. 1 to import actuals into the account. For linked accounts, 0 will show actuals only if the linked account has them, and 1 will enable actuals for the linked account. This will be empty for account groups and metric accounts.	1
isGroup	Y	0 or 1 to indicate whether this is an account group or not.	1
isIntercompany	N	0 or 1 to indicate whether this account is an intercompany account or not.	1

formula	N	The formula for the account, if it has one.	ACCT.Revenue - ACCT.Expenses
isLinked	N	0 or 1 to indicate whether this account is a linked account or not.	1
isSystem	N	0 or 1 to indicate whether this account is a system account or not.	1
owningSheetId	N	For accounts that can be on modeled and cube sheets, the internal system id number of the sheet that this account is on. This will be empty if it is not such an account, or if it is such an account but is not currently assigned to a sheet.	17
<b>Contents of the Element</b>			
One nested <code>account</code> element for each direct child account of this account. One <code>attributes</code> element if account has one or more attributes associated with it.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more <code>attribute</code> elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more <code>attribute</code> elements.			

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents a single non-blank account attribute mapping to which an account is associated.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	The name of the account attribute	SEC Reporting
value	Y	The value of the account attribute associated with the account.	Yes
attributeID	Y	The internal system id number of the account attribute.	10
valueID	Y	The internal system id number of the account attribute.	108
<b>Contents of the Element</b>			
none			



## exportActiveCurrencies

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all currencies which have been configured in the system.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the complete set of all currencies which have been configured in the system. A currency has been "configured" once it has been added to the currency list in Currency Administration, even if it does not yet have an exchange rate. Instances which do not have the Multiple Currencies feature enabled return only a single currency in this list.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportActiveCurrencies" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <currencies>
      <currency id="1" code="USD" precision="2" isReportingCurrency="1" description="United States of America, Dollars" />
      <currency id="2" code="EUR" precision="4" isReportingCurrency="0" description="Euro Member Countries, Euro" />
    </currencies>
  </output>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	

Contents of the Element	
A single <i>accounts</i> element. This <i>output</i> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

currencies element	
<b>Tag Name</b>	currencies
<b>Description</b>	Container for one or more <i>currency</i> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <i>currency</i> elements.	

currency element			
<b>Tag Name</b>	currency		
<b>Description</b>	Represents a single currency being returned in the response to an <i>exportActiveCurrencies</i> API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the currency. This number can be used to uniquely identify the currency, but is not used in any other API calls.	1
code	Y	The three-letter code for the currency, as specified in the ISO 4217 standard.	usd
precision	Y	The typical decimal precision (number of digits after the decimal place) to be used when displaying amounts in this currency. This precision is only used for accounts which have a display type of Currency and have their decimal precision set to "Use currency's precision."	2
isReportingCurrency	Y	Whether the currency was selected by an admin as available for use in "arbitrary report conversions". True=1, False=0.	1
description	Y	Basic description of the currency, consisting of the currency's country and its name.	United States of America, Dollars
Contents of the Element			
(none)			



## exportAttributes

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all attributes in the system.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the complete set of all custom attributes (excluding the trading partner system attribute for consolidation instances), including all of their member values. Member values within an attribute are returned in tree form, with parent members containing their children.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportAttributes" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

### Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <attributes>
      <attribute id="13" name="AP Eligible" type="account">
        <attributeValue id="118" name="No" />
        <attributeValue id="117" name="Yes">
          <attributeValue id="136" name="Full" />
          <attributeValue id="135" name="Partial" />
        </attributeValue>
      </attribute>
      <attribute id="11" name="Product Line" type="account">
        <attributeValue id="34" name="A" />
        <attributeValue id="35" name="B" />
      </attribute>
      <attribute id="9" name="Corporate Discount" type="level">
        <attributeValue id="56" name="Available" />
        <attributeValue id="54" name="Not Applicable" />
        <attributeValue id="57" name="Not Available" />
        <attributeValue id="55" name="TBD" />
      </attribute>
      <attribute id="10" name="Tax Code" type="level">
        <attributeValue id="146" name="TT-PYT" />
        <attributeValue id="145" name="TT-TRE" />
      </attribute>
      <attribute id="16" name="Industry" type="dimension" dimension-id="15">
        <attributeValue id="335" name="Apparel">
          <attributeValue id="354" name="Mens Apparel" />
          <attributeValue id="355" name="Shoes" />
          <attributeValue id="356" name="Womens Apparel" />
        </attributeValue>
      </attribute>
    </attributes>
  </output>
</response>
```

attributes element			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for zero or more attribute elements. Attributes will be ordered so that attributes will be in the following order according to type: 'account', 'level', and 'dimension'. Attributes with the same type will be ordered by name.		
Attributes of the Element			
Attribute Name	Required?	Value	Example

(none)
<b>Contents of the Element</b>
Zero or more <code>attribute</code> elements.

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents a single attribute being returned in the response to an <code>exportAttributes</code> API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the attribute.	16
name	Y	The name of the attribute as it appears on the attribute administration page.	Industry
type	Y	The type of the attribute. This will be 'account' if the attribute is for an account, 'level' if the attribute is for a level, or 'dimension' if the attribute is for a dimension.	dimension
dimension-id	N	The id of the dimension if the attribute is of type 'dimension'.	15
<b>Contents of the Element</b>			
Zero or more optional <code>attributeValue</code> elements. Each enclosed <code>attributeValue</code> element represents a "root attribute value" in the attribute, a value which has no parent value.			

<b>attributeValue element</b>			
<b>Tag Name</b>	attributeValue		
<b>Description</b>	Represents a single member value of an attribute being returned in the response to an <code>exportAttributes</code> API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for this member value of the attribute.	34
name	Y	The label for the member value of the attribute as displayed on the attribute administration page.	Available
<b>Contents of the Element</b>			
Zero or more optional <code>attributeValue</code> elements. Each enclosed <code>attributeValue</code> element represents a "child attribute value" of this attribute value, whose members implicitly roll up to this value.			

## exportCustomerLogo

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns a URL that can be used to retrieve the Customer Logo
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document containing the URL which points to the Customer Logo.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportCustomerLogo" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <logos>
      <logo url="/logo/DCNT/55.jpg?ticket=-1183195070:1:s&login=sampleuser@company.com" />
    </logos>
  </output>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	

Contents of the Element	
A single <i>accounts</i> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

logos element			
<b>Tag Name</b>	logos		
<b>Description</b>	Container for one <code>logo</code> element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
Exactly one <code>logo</code> element.			

logo element			
<b>Tag Name</b>	logo		
<b>Description</b>	Represents a URL by which the Customer Logo can be retrieved in the response to an <code>exportCustomerLogo</code> API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
url	Y	URL by which the Customer Logo can be retrieved, or the empty string if no customer logo is defined for this instance.	<code>/logo/DCNT/55.jpg?ticket=1183195070:1:s&amp;login=sampleuser@company.com</code>
Contents of the Element			
(none)			

## exportData

<b>Category</b>	Data retrieval
<b>Description</b>	Returns a set of data from the requested version in the request instance.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials, Version, Format, Filters, Dimensions, Rules

This method's request contains the parameters that will be used to search the data in the specified version and return values which match the requested filters and format. This is the basic method used to retrieve data from Adaptive, and can be used to retrieve values from any accounts, including standard accounts, GL accounts, modeled accounts, cube accounts, custom accounts, metric accounts, assumptions, and exchange rates.

See “customReportValues” on page 39 for a more targeted approach to data retrieval.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportData" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd" instanceCode="INSTANCE1"/>
  <version name="Budget 2012" isDefault="false"/>
  <format useInternalCodes="true" includeUnmappedItems="false"/>
  <filters>
    <accounts>
      <account code="A100" isAssumption="true" includeDescendants="false"/>
      <account code="L100" isAssumption="false" includeDescendants="true"/>
    </accounts>
    <levels>
      <level name="Development" isRollup="true" includeDescendants="true"/>
      <level name="QA" isRollup="false" includeDescendants="false"/>
    </levels>
    <timeSpan start="Nov-2011" end="Dec-2012"/>
    <dimensionValues>
      <dimensionValue dimName="Customer" name="A Corp" directChildren="true"/>
      <dimensionValue dimName="Region" name="" uncategorized="true" directChildren="false"/>
    </dimensionValues>
  </filters>
  <dimensions>
    <dimension name="Product"/>
    <dimension name="CountryRegion"/>
  </dimensions>
  <rules includeZeroRows="false" includeRollups="false" markInvalidValues="false" markBlanks="false"
timeRollups="single">
    <currency useCorporate="false" useLocal="false" override="AUD"/>
  </rules>
</call>
```

Each invocation of this API call must contain exactly one element of each of the listed types:

- credentials
- version
- format

A request also may contain one of the following elements:

- filters
  - accounts > account
  - levels > level
  - dimensionValues > dimensionValue
  - timeSpan
- dimensions > dimension
- rules > currency

<b>credentials element</b>			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			



version element			
<b>Tag Name</b>	version		
<b>Description</b>	Indicates which version should be used to retrieve the requested data. A version must be provided for each call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	N	The name of the version to be used to receive the data. Only one version can be accessed within a single API call. If a name is not provided, the <code>isDefault</code> flag must be set to <code>true</code> on this element.	Budget 2012
isDefault	N	If the caller wishes to access the current default version of the instance regardless of its name, this attribute can be set to <code>true</code> , in which case the name attribute of the tag (if present) is ignored. Otherwise, if this value is <code>false</code> or if this attribute is not present, a version with the supplied name must exist and be accessible to the user in order for this call to succeed.	false
Contents of the Element			
(none)			

format element			
<b>Tag Name</b>	format		
<b>Description</b>	Indicates the type of formatting that should be used on the individual fields of the data to be returned.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
useInternalCodes	Y	Set to "true" to have account codes emitted using the codes entered in Account Administration for each account. Set to "false" to have account codes mapped in the output data using the Export Account Mappings found on the Export tab.	true
includeUnmappedItems	N	This attribute only applies if useInternalCodes is false and export mappings are used. If not otherwise specified, accounts which have no Export Account Mapping on the Export tab will not be emitted in the output. If includeUnmappedItems is set to "true", then accounts which have no Export Account Mapping will be emitted, using their internal account codes (the ones set in Account Administration) as their codes, yielding a blend of mapped and unmapped accounts in the data, but a complete set of data. If this flag is set to "false", some requested accounts may not be emitted, if they have no Export Account Mapping.	false
Contents of the Element			
(none)			

filters Element	
<b>Tag Name</b>	filters
<b>Description</b>	Holds the specification for the filters which determine which data from the requested version is retrieved by the API. This element specifies the accounts, levels, months, and dimension values which will be retrieved.
Attributes of the Element	
(none)	
Contents of the Element	
A single required <code>accounts</code> element, a single optional <code>levels</code> element, a single required <code>timeSpan</code> element, and an optional single <code>dimensionValues</code> element.	

accounts element	
<b>Tag Name</b>	accounts
<b>Description</b>	Container for one or more <code>account</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>account</code> elements.	

account element			
<b>Tag Name</b>	account		
<b>Description</b>	Specifies an account to have its data exported in the <code>exportData</code> API call. If more than one account element is placed within the <code>accounts</code> element, all accounts which match any of the <code>account</code> elements will be exported. If any given <code>account</code> element results in no accounts which match it, that element is ignored while the other elements still apply.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
<code>code</code>	Y	The code of the account to be exported. This code is as specified in Account Administration.	<code>Current_Assets</code>
<code>isAssumption</code>	Y	Indicates whether the code specifies an assumption or a non-assumption account. A single code can be used for both an assumption and account in Adaptive Planning, so this flag indicates which type of account is being specified.	<code>false</code>

includeDescendants	Y	Indicates whether the export should include all descendants of the specified account or not. If set to true, all children of this account will be exported, as will their children, etc. If set to false, this account will be exported as a single rollup account value.	true
<b>Contents of the Element</b>			
(none)			

<b>levels element</b>	
<b>Tag Name</b>	level
<b>Description</b>	Container for one or more level elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more level elements. If the request includes inaccessible levels, there will be only one level element, which represents the top level of the organization.	

<b>level element</b>			
<b>Tag Name</b>	level		
<b>Description</b>	Specifies an organization level to have its data exported in the exportData API call. If more than one level element is placed within the levels element, all specified levels will be exported. If any given level element has no matching levels in the instance, that element is ignored while the other elements still apply.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	The name of the level to be exported. This name is as specified in Organization Administration.	Development
isRollup	Y	If this level has children, isRollup="true" will output the rollup value for the level (including the values of all of its children) and isRollup="false" will only output the uncategorized value for the level (the values entered in Edit Data for that level). If this level does not have children, the isRollup must be set to false (or omitted from the tag entirely).	false

<code>includeDescendants</code>	Y	Indicates whether the export should include all descendants of the specified level or not. If set to true, all children of this level will also be exported, as will their children, etc. If set to false, this level will be exported alone. Note this is different than <code>isRollup</code> : <code>isRollup</code> affects which value will be output for this level, while <code>includeDescendants</code> indicates whether descendants should also be included in the export. If both <code>isRollup</code> and <code>includeDescendants</code> are set to true and the level is a parent level, the output will contain values for both rollup and non-rollup (uncategorized) levels for this level and each of its descendants.	true
<b>Contents of the Element</b>			
(none)			

<b>timeSpan element</b>			
<b>Tag Name</b>	timeSpan		
<b>Description</b>	Indicates which months should be returned in the response. Months between the specified range, inclusive, are included in the output as separate columns of data; they are not aggregated or rolled up.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
start	Y	The first month in the range of months to have their data exported. Months are specified as "MON-YYYY", using the standard abbreviation for the month in the locale of the request (see its credentials element), and using a four-digit year. Month names are case-insensitive. This month must be equal to or earlier than the end month.	Jan-2012
end	Y	The last month in the range of months to have their data exported. Months are specified as "MON-YYYY", using the standard abbreviation for the month in the locale of the request (see its credentials element), and using a four-digit year. Month names are case-insensitive. This month must be equal to or later than the start month.	Mar-2012
<b>Contents of the Element</b>			
(none)			

<b>dimensionValues element</b>	
<b>Tag Name</b>	dimensionValues
<b>Description</b>	Container for one or more <code>dimensionValue</code> elements. This element is optional and should not appear if no dimension value filtering is desired.
<b>Attributes of the Element</b>	
(none)	

Contents of the Element
One or more <code>dimensionValue</code> elements.

dimensionValue element			
Tag Name	dimensionValue		
Description	Indicates that the exported data should contain only values which match the specified dimensionValue. If more than one dimensionValue element is within the dimensionValues element, then data must match all specified dimensions, but any of the specified dimension values within each dimension in order to be exported. For example, if a request specifies dimension values of Region=East, Region=West, and Product=Product_A, then data must match either East or West Region, but must also match Product_A Product in order to be exported.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
dimName	N	The name of the dimension to which the dimension value (see name attribute below) belongs.	Region
name	N	The name of the dimension value to be exported.	US West
directChildren	N	If set to true, this will cause the API to export rollup data for each of the direct children of this dimension value, but not a rollup for the value itself. In other words, this will cause exportData to export the values "one level down" in the dimension tree from the specified value. If not specified, defaults to false.	false
uncategorized	N	If set to true, matches the "uncategorized" value of the dimension value and not the values of any of its descendant values (if any). Has no effect on dimension values with no children. If not specified, defaults to false.	true
uncategorizedOfDimension	N	Specify the uncategorizedOfDimension in place of the <i>dimName/name</i> attributes. <ul style="list-style-type: none"> <li>If specified the value of the attribute should be an internal system ID number of a dimension (not a dimension value) and the filter is specifying that data must be completely uncategorized in this dimension in order to match the filter.</li> <li>The <code>directChildren</code> and <code>uncategorized</code> attributes will be ignored and assumed to be false and true respectively.</li> <li>Ignored if <code>dimName</code> is specified.</li> </ul>	15

directChildrenOfDimension	N	Specify the <code>directChildrenOfDimension</code> <i>in place</i> of the <code>dimName/name</code> attributes. <ul style="list-style-type: none"> <li>If specified the value of the attribute should be an internal system ID number of a dimension (not a dimension value) and the filter is specifying all the first level <i>dimension values</i> of the dimension.</li> <li>The <code>directChildren</code> and <code>uncategorized</code> attributes will be ignored and assumed to be true and false respectively.</li> <li>Ignored if <code>dimName</code> or <code>uncategorizedOfDimension</code> is specified.</li> </ul>	12
id	N	Specify the <code>id</code> <i>in place</i> of the <code>dimName/name</code> attributes. <ul style="list-style-type: none"> <li>The internal system ID number of the dimension value to be exported. Should be specified in place of the <code>dimName/name</code> attributes to specify the dimension value. To determine internal IDs, see the <code>exportDimensions</code> API.</li> <li>Ignored if either <code>dimName</code>, <code>uncategorizedOfDimension</code> or <code>directChildrenOfDimension</code> is specified.</li> </ul>	14
<b>Contents of the Element</b>			
(none)			

dimensions element	
<b>Tag Name</b>	dimensions
<b>Description</b>	Container for one or more <code>dimension</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>dimension</code> elements.	

dimension element	
<b>Tag Name</b>	dimension

<b>Description</b>		Indicates that the exported data should be broken down, or sliced, by the specified dimension. Note that this tag is <i>not</i> a part of the filters tag and does not control filtering: it instead controls how many rows are exported for each account/level combination. For each dimension specified in the dimensions tag, each existing combination of values will be exported as a separate row of data. Each dimension present in the dimensions element also causes an extra column to appear in the output, labeled with that dimension name.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	Name of the dimension by which the export should be sliced. Rows of data in the export which cannot be sliced by the dimension will appear only once and will show the dimension name itself in the column where the dimension value name for this dimension would appear.	Customer
<b>Contents of the Element</b>			
(none)			

rules element			
<b>Tag Name</b>		rules	
<b>Description</b>		Specifies some extra output rules that control which types of rows are emitted and how some field values will be rendered.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
includeZeroRows	N	Set to "true" to have rows emitted even if they contain only zeroes or blanks. Set to "false" to have rows without data omitted from the output. Default value is false.	true
includeRollups	N	If set to true, rollup values for all accounts and levels in the filters tag will be included <i>in addition</i> to the values for their descendants. This attribute does not affect how custom dimensions specified in dimensionValue filters or in the dimensions tag behave. Default value is false.	false
markInvalidValues	N	If set to true, the export will add the letter "I" to invalid values. Otherwise adds "=NA()" to invalid values, to make them Excel compatible. Default value is false.	false
markBlanks	N	If set to true, blank values will be output as "B". Otherwise, values which are blank will be output as zeroes. Default value is false.	false
timeRollups	N	Has three possible values: true, false, and single. If set to true, quarter and year rollups will appear in their "proper place" within the exported span of months. Quarter rollups appear immediately after the last month of their quarter, and year rollups appear immediately after the quarter rollup for their last quarter. If set to single, no individual months, quarters, or years are returned and only a single time rollup of all months covered in the timespan element is returned. If set to false, only individual months are returned, with no time rollup columns. Default value is false.	false

Contents of the Element
An optional currency element to specify what currency should be used in the export.

currency element			
<b>Tag Name</b>	currency		
<b>Description</b>	Indicates which currency should be used in the output when emitting the values of currency accounts.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
useCorporate	N	Only one of the three attributes can be set for a currency element. If useCorporate is set to true, it indicates that the "corporate currency" (the currency at the top of the organization tree) should be used. Default value is false.	false
useLocal	N	Only one of the three attributes can be set for a currency element. If useLocal is set to true, it indicates that currency values should be emitted in the currency of the Organization Level where they reside. Each row of the output indicates an Organization Level, and currency values on that row will be in that level's currency. Default value is false.	false
override	N	Only one of the three attributes can be set for a currency element. If override is present, it must specify the three-letter currency code of one of the configured currencies for the instance. When specified, all currency amounts in the export will be converted to that currency.	AUD
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message key="warning-invalid-timespan-start">Ignoring start of timespan, which precedes start of version;
timespan start: Nov-2011, version start date: Jan-2012</message>
  </messages>
  <output><![CDATA[
    Account Name,Account Code,Level Name,[Jan-2012,Feb-2012,Mar-2012,Apr-2012,May-2012,Jun-2012,Jul-2012,Aug-
2012,Sep-2012,Oct-2012,Nov-2012,Dec-2012]
    "Benefits",30120,"Engineering
(Rollup)",10653.75,10653.75,10653.75,11506.05,11506.05,11506.05,11506.05,11506.05,11506.05,10462.05,10426.05,
10426.05
    "Furniture",70310,"Engineering
(Rollup)",1740.0,2610.0,2610.0,2610.0,2610.0,2610.0,2610.0,2610.0,2610.0,2610.0,2610.0,2610.0
    ...
  ]]></output>
</response>
```



```

]]>
</output>
</response>

```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

messages element	
<b>Tag Name</b>	messages
<b>Description</b>	Container for one or more <code>message</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>message</code> elements.	

message element			
<b>Tag Name</b>		message	
<b>Description</b>		Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.	
Attributes of the Element			
Attribute Name	Required?	Value	Example

key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	warning-invalid-timespan-start
Contents of the Element			
The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value which caused an error.			

output element	
<b>Tag Name</b>	output
<b>Description</b>	Contains the resulting data of the export in an enclosed CDATA block.
Attributes of the Element	
(none)	
Contents of the Element	
A CDATA block containing the CSV-formatted data of the export. Rows are separated by newline characters. The first row of returned data is the set of "column headers" describing the format of each of the following rows. Dimensions and filtering elements are listed first, followed by the series of requested monthly values. Month names and system-generated labels such as the "(Rollup)" suffix on rollup levels are translated to the locale of the request when possible. Values are emitted in normalized form, without commas, using a period as the decimal separator.	

## exportDimensionFamilies

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata describing the relationships between sets of accounts and sets of dimensions.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing a set of dimension families, which describe how specific sets of dimensions are related to specific sets of accounts. Each family consists of a set of accounts and a set of dimensions, which indicates that those dimensions apply to those accounts, while other dimensions do not. Accounts and dimensions may belong to many families. Families are defined as follows:

- Accounts on a modeled sheet belong to a family for that sheet, which contains all dimensions placed on that sheet and all organization dimensions.
- Accounts on a cube sheet belong to a family for that sheet, which contains all dimensions placed on that sheet and all organization dimensions.
- Accounts on a standard sheet with dimensions belong to a family for that sheet, which contains all dimensions placed on that sheet and all organization dimensions.

Standard sheets that do not have dimensions placed on them do not have an associated dimension family.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportDimensionFamilies" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com

password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <families>
      <family name="Personal" id="381" accounts="734-739, 744" dimensions="9321,9422, 9455, 9458" />
      <family name="Capital" id="382" accounts="853" dimensions="4" />
      <family name="Sales" id="386" accounts="769, 4112" dimensions="" />
      <family name="Balance" id="255" accounts="545, 66" dimensions="6,7" />
    </families>
  </output>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true
obsolete	N	If present on the response tag and set to true, this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	false

Contents of the Element	
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.	

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

families element			
<b>Tag Name</b>	families		
<b>Description</b>	Container for one or more <code>family</code> elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>family</code> elements.			

family element			
<b>Tag Name</b>	family		
<b>Description</b>	Describes a single dimension family associated with a single modeled or cube sheet. A single family is also output for all non-modeled, non-cube assumptions and exchange rates. This catch-all family has <code>id = 0</code> .		
Attributes of the Element			
name	Y	The name of the dimension family. The family comprised of all non-cube assumptions and exchange rate accounts (which have no dimensions) will have the name '*'. The dimension family for a standard sheet has the same name as the standard sheet, while the dimension family for a cube or modeled sheet uses the sheet's prefix as the family name.	Capital
id	Y	The id of the dimension family, which is the ID of the sheet this family is described by.	3

accounts	Y	The set of account ID numbers belonging to this family. IDs are the internal system IDs for the accounts, visible in the <code>exportAccounts</code> API call. IDs are comma-separated and may contain hyphenated ranges, which indicate that all IDs within the range are included.	734-739,744
dimensions	Y	The set of dimension ID numbers belonging to this family. IDs are the internal system IDs for the dimensions, visible in the <code>exportDimensions</code> API call. IDs are comma-separated and may contain hyphenated ranges, which indicate that all IDs within the range are included.	9321,9422,9455,9458
<b>Contents of the Element</b>			
(none)			

## exportDimensions

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all dimensions in the system.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the complete set of custom dimensions in the system, including all of their member values. This method does not return any of the required system dimensions such as Version, Time, or Accounts, each of which is available in its own metadata API call. Member values within a dimension are returned in tree form, with parent members containing their children.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportDimensions" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <dimensions>
      <dimension id="6" name="Department" shortName="" autoCreate="0" listDimension="0" keepSorted="0"
useOnLevels="1">
        <dimensionValue id="7" name="Engr" description="Engineering" shortName="">
          <dimensionValue id="52" name="QA" description="Quality Assurance" shortName="" />
          <dimensionValue id="53" name="Dev" description="Development" shortName="" /></dimensionValue>
        </dimension>
      <dimension id="7" name="Education" shortName="" autoCreate="0" listDimension="1" keepSorted="0"
useOnLevels="0">
        <dimensionValue id="32" name="Graduate" description="Graduate degree" shortName="">
          <attributes>
            <attribute attributeId="21" name="Education Type" valueId="197" value="Tech1" />
          </attributes>
        </dimensionValue>
        <dimensionValue id="33" name="Masters" description="Masters degree" shortName="">
          <attributes>
            <attribute attributeId="21" name="Education Type" valueId="196" value="Management" />
          </attributes>
        </dimensionValue>
        <dimensionValue id="34" name="Phd" description="Phd" shortName="" />
      </dimension>
    </dimensions>
  </output>
</response>
```

Dimensions are ordered by name.

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true



obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	false
<b>Contents of the Element</b>			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

<b>output element</b>	
<b>Tag Name</b>	output
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

<b>dimensions element</b>	
<b>Tag Name</b>	dimensions
<b>Description</b>	Container for one or more <code>dimension</code> elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more <code>dimension</code> elements.	

<b>dimension element</b>			
<b>Tag Name</b>	dimension		
<b>Description</b>	Represents a single custom dimension being returned in the response to an <code>exportDimensions</code> API call.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
id	Y	The internal system ID number for the dimension. This can be used to identify dimensions in other API calls, such as <code>exportDimensionFamilies</code> .	16
name	Y	The name of the dimension, as it appears on reports and sheets.	Customer
shortName	N	The short name for the dimension, if any, as entered in Dimension Administration	cust.

autoCreate	Y	1 if the selected dimension has the "Data import automatically creates dimension values" field set, 0 otherwise.	0
listDimension	Y	1 if the selected dimension is list dimension, 0 otherwise.	1
keepSorted	Y	1 if the selected dimension is kept sorted, 0 otherwise.	1
useOnLevels	Y	1 if the selected dimension can be used on levels, 0 otherwise.	1
<b>Contents of the Element</b>			
Zero or more dimensionValue elements. Each enclosed dimensionValue elements represents a "root dimension value" in the dimension, a value that has no parent value.			

<b>dimensionValue element</b>			
<b>Tag Name</b>	dimensionValue		
<b>Description</b>	Represents a single member value of a custom dimension being returned in the response to an exportDimensions API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for this member value of the dimension.	34
name	Y	The label for the member value of the dimension, as displayed on reports and used in formulas.	A Corp
shortName	N	The short name for the dimension value, if any, as entered in Dimension Administration	A
description	N	The description of the dimension value, if any, as entered in Dimension Administration	A Corporation
<b>Contents of the Element</b>			
Zero or more optional dimensionValue elements. Each enclosed dimensionValue element represents a "child dimension value" of this dimension value, whose members implicitly roll up to this value.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more dimension attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more attribute elements.			

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one dimension attribute element.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
attributeID	Y	The id of the dimension attribute generated by system.	20
name	Y	The name of the dimension attribute	Education Type
valueID	Y	The unique id of the dimension attribute value generated by system.	170
value	Y	The value of the dimension attribute.	Tech1
<b>Contents of the Element</b>			
(none)			

## exportInstances

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all instances of Adaptive products to which this user has access.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains a `credentials` tag to identify and authorize the calling user and an optional `include` tag to indicate which instances to include in the response. Once the user credentials are verified, the method returns an XML document describing the instance specified in the credentials, or the complete set of all instances of Adaptive products to which this user has access. If the Multiple Instance feature has not been purchased, this call always returns a single element for the instance to which the user belongs.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportInstances" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <include accessibleInstances="true"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

include element			
<b>Tag Name</b>	include		
<b>Description</b>	Represents a set of flags indicating what aspects of the instances' information should be included or excluded from the response. This element is optional: if not present, the default value is false for accessibleInstances.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
accessibleInstances	N	<p>Either <code>true</code> or <code>false</code>. Whether the response should include other instances besides the single instance specified in the credentials</p> <p>The default, if the element or its attribute is not present, is <code>false</code>. If included and is <code>true</code>, then the API should return the list of all instances to which the user has access. These instances are not returned in any nested or parent-indicating fashion; they merely are enumerated with the properties as shown in the API.</p>	False
<b>Contents of the Element</b>			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
<output>
  <instances>
    <instance code="INSTANCE1" name="Globo Industries" sessionTimeout="60" calendarType="G" qlFirstMonth="0"
lastMonthIsFY="1" systemCurrency="USD" products="PLANNING,DISCOVERY"
options="TRANSACTIONS,MULTI_CURRENCY,DISCO_DISABLED,PLANNING_VISUALIZE_DATA"
datasources="GREAT PLAINS,INTACCT,SALESFORCE,NETSUITE"/>
  </instances>
</output>
</response>
```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

instances element	
<b>Tag Name</b>	instances
<b>Description</b>	Container for one or more <code>instance</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>instance</code> elements.	

instance element	
<b>Tag Name</b>	instance

<b>Description</b>		Describes a single instance to which this user has access, including a number of attributes of that instance.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
code	Y	The instance code of the instance. This can be used to specify an alternate instance for an API call within the <code>credentials</code> element.	INSTANCE1
name	Y	The name of the instance in Adaptive Planning. This is configured in the "General Setup" area of Administration for that instance.	Globo Industries
sessionTimeout	Y	Timeout in minutes of the user session.	60
calendarType	Y	Indicate the type of calendar. G for Gregorian.	G
q1FirstMonth	Y	Indicate which month is the start of this instance's fiscal year. 0 is January, 1 is February, ..., 11 is December.	0
lastMonthIsFY	N	A flag indicating if the instance uses the calendar year of the final month of its fiscal year to label its fiscal year. 1 is true, and 0 is false, in which case the instance uses the calendar year of the <i>first</i> month of its fiscal year to label its fiscal year. For calendar-year based instances, this setting has no effect.	1
systemCurrency	Y	The ISO code for the system currency.	USD
products	Y	Comma separated list of product names that are enabled for the instance.	PLANNING, CONSOLIDATION, DISCOVERY, INTEGRATION
options	Y	Comma separated list of various modules enabled for the instance.	TRANSACTIONS, MULTI_CURRENCY, DISCO_DISABLED, PLANNING_VISUALIZE_DATA
datasources	Y	Comma separated list of data sources enabled for the instance.	NETSUITE, SALESFORCE
<b>Contents of the Element</b>			
(none)			

## exportLevels

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all organization levels in the system.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains a `credentials` tag to identify and authorize the calling user and an optional `include` tag to indicate which levels to include in the response. Once the user credentials are verified, the method returns an XML document describing the set of organization levels in the system corresponding to the request. Levels are returned in a nested tree fashion, with one `level` tag enclosing another if the level represented by the enclosing tag is the parent of the enclosed level.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportLevels" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <include inaccessibleLevels="true"/>
  <sheet id="3" />
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR



instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>include element</b>			
<b>Tag Name</b>	include		
<b>Description</b>	Represents a set of flags indicating what aspects of the levels' information should be included or excluded from the response. This element is optional: if not present, the default value is true for <code>inaccessibleLevels</code> .		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
<code>inaccessibleLevels</code>	N	<p>Either <code>true</code> or <code>false</code>. Whether the response should include levels to which the user has no access.</p> <p>The default, if the element or its attribute is not present, is <code>true</code>. If set to <code>false</code>, the response will only include levels to which the user has data access, either direct or implied. Note that this means the response may no longer be a single rooted tree of levels, but may be a series of disjoint subtrees of the overall tree.</p>	<code>true</code>
<code>versionName</code>	N	Indicates whether the response should only include levels which are available for the requested version name. The default, if the element or its attribute is not present, is to return all levels. If a version name is specified, only levels which are available for the specified version will be returned. If present, the <code>inaccessibleLevels</code> attribute will also be applied, and only levels which are available in the specified version and accessible by the requesting user will be returned. If the specified version name is not found, this API returns an error. If both <code>versionName</code> and <code>versionID</code> attributes are passed, the <code>versionID</code> is ignored.	Engineering

versionID	N	Same as <code>versionName</code> (above) except taking a version ID number as a parameter. Indicates whether the response should only include levels which are available for the requested version. The default, if the element or its attribute is not present, is to return all levels. If a version ID is specified, only levels which are available for the specified version will be returned. If present, the <code>inaccessibleLevels</code> attribute will also be applied, and only levels which are available in the specified version and accessible by the requesting user will be returned. If the specified version ID is not found, this API returns an error. If both <code>versionName</code> and <code>versionID</code> attributes are passed, the <code>versionID</code> is ignored.	
<b>Contents of the Element</b>			
(none)			

sheet element			
<b>Tag Name</b>	sheet		
<b>Description</b>	Represents a sheet in which only accounts available for that sheet should be included in the response. This element is optional: if not present, the API will return account information independent of a particular sheet.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet.	234
<b>Contents of the Element</b>			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <levels>
      <level id="1" name="Corporate Rollup" currency="USD" isImportable="1" workflowStatus="I">
        <level id="2" name="Engineering" currency="USD" shortName="Engr" isImportable="1" workflowStatus="I">
          <level id="7" name="Development" currency="USD" shortName="Dev" isImportable="1" workflowStatus="I"/>
          <level id="8" name="QA" currency="INR" isImportable="0" workflowStatus="L"/>
          <level id="9" name="Documentation" currency="PKR" shortName="Doc" isImportable="1" workflowStatus="R"/>
        </level>
      <level id="3" name="Professional Services" currency="USD" shortName="Prof.Srv" isImportable="0"
workflowStatus="A">
        <attributes>
          <attribute name="Corporate Discount" value="Available" attributeId="20" valueId="188" />
          <attribute name="Transfers Restricted" value="Yes" attributeId="21" valueId="194" />
        </attributes>
      </level>
    </level>
  </output>
</response>
```

```

</levels>
</output>
</response>

```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

levels element	
<b>Tag Name</b>	levels
<b>Description</b>	Container for the <code>level</code> element.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>level</code> elements. If the request includes inaccessible levels, there will be only one <code>level</code> element, which represents the top level of the organization.	

level element			
Tag Name	level		
Description	Represents a single organization level being returned in the response to an exportLevels API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the level.	7
name	Y	The name of the level, as it appears on reports and sheets.	Development
currency	Y	The currency code for the currency assigned to this level of the organization. The currency will be one of the configured currencies for the instance, found in the <code>exportActiveCurrencies</code> call.	INR
shortName	N	The abbreviation for the level, if any, as entered in Organization Administration.	Dev
availableStart	N	The start date for the availability of the level for actuals version, applicable only when the Actuals version is specified in the request. The value can be either a specific month, in the format "MM/YYYY", or the special value "START" indicating the start of the version.	01/2013
availableEnd	N	The end date for the availability of the level for actuals version, applicable only when the Actuals version is specified in the request. The value can be either a specific month, in the format "MM/YYYY", or the special value "END" indicating the end of the version.	12/2013
isImportable	N	Indicates if the associated level is importable in the specified version. '0' means it is not importable and '1' means it is importable. A level is importable if at least one timeslot in the specified version is importable. <code>isImportable</code> attribute is only emitted if <code>versionName</code> or <code>versionID</code> is specified in the request.  Note: <code>isImportable</code> only indicates that a level is available for import in the specified version, not that the user making the API call has the permission to import into the version or level. Use <code>exportVersions</code> to see which versions are available to the user for import.	1
workflowStatus	N	Emits the workflow status for the associated level. I for "In Progress", S for "Submitted", R for "Rejected", A for "Approved" and L for "Locked". Only included in the response if workflow is enabled for this company, and a planning <code>versionName</code> or <code>versionID</code> is specified in the request. Workflow is not available on actuals versions.	I
isLinked	Y	1 if the level is a linked level; otherwise, 0.	1
isElimination	Y	1 if the level is an elimination level; otherwise, 0.	0

hasChildren	N	Indicates whether the level has children. "false" for no, "true" for yes. This attribute is set for any level that has children, independent of the children being accessible or not. If a level has children but the children are not accessible, the hasChildren attribute is still set to true.	true
<b>Contents of the Element</b>			
One nested <code>level</code> element for each direct child level of this level. One <code>attributes</code> element if this level has one or more attributes associated with it.			

attributes element			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more <code>attribute</code> elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>attribute</code> elements.			

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents a single non-blank level attribute mapping to which a level is associated.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	Y	The name of the level attribute	Corporate Discount
value	Y	The value of the level attribute associated with the level.	Yes
attributeID	Y	The internal system id number of the level attribute.	20
valueID	Y	The internal system id number of the level attribute value.	188
Contents of the Element			
(none)			

## exportRoles

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all roles in the instance.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the complete set of all roles of Adaptive found in the user's instance.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportRoles" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <roles>
      <role id="1" name="Standard" permissions="SHT,RPT,SCOREBOARD"/>
      <role id="2" name="Administrative" permissions="SHT,RPT,SCOREBOARD,SAL,MOD,IMP,EXP"/>
    </roles>
  </output>
</response>
```

Roles and permissions are ordered by name.

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	

Contents of the Element	
A single <i>accounts</i> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

roles element	
<b>Tag Name</b>	roles
<b>Description</b>	Container for one or more <i>role</i> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <i>role</i> elements.	

role element			
<b>Tag Name</b>	role		
<b>Description</b>	Describes a single role available in the instance.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the role. This is used to identify the role assigned to a user in the <code>exportUsers</code> API call.	1
name	Y	The name of the role, as seen in Role Administration.	Standard
permissions	Y	A comma-separated list of codes for permissions assigned to this role. The codes are internal abbreviations such as "SHT" for Sheet Access and "RPT" for Report Access.	SHT , RPT , SCOREBOARD
Contents of the Element			
(none)			



## exportSheetDefinition

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns the definition of the given modeled or cube sheet.
<b>Permissions Required To Invoke</b>	IMP (import data) or MOD (create, edit, and delete sheets)
<b>Parameters Required On Request</b>	Credentials and a specification of which sheet is being requested.

## Modeled Sheet Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportSheetDefinition" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <modeled-sheet id="3"/>
</call>
```

The call element contains a `credentials` element as well as a single `modeled-sheet`.

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

modeled-sheet element			
<b>Tag Name</b>	modeled-sheet		
<b>Description</b>	Identifies a single modeled sheet requested via an exportSheetDefinition API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet.	234
<b>Contents of the Element</b>			
(none)			

## Modeled Sheet Response Format

```
<?xml version="1.0" encoding="UTF-8"?>
<response success="true">
  <output>
    <modeled-sheet id="11" prefix="Personnel" name="Personnel" description="Personnel Sheet"
      available-in-actuals="false" allow-splits="true" split-column-title="Is Split
Child Row">
      <columns>
        <levels code="Plan" name="Plan" read-only="false" splittable="false" required="true">
          <level id="1" />
          <level id="7" />
        </levels>
        <text code="LastName" name="Last Name" read-only="false" splittable="false" required="false" />
        <text code="FirstName" name="First Name" read-only="false" splittable="false" required="false"
      />
        <text code="ID" name="ID" read-only="false" splittable="false" required="false" />
        <dimension code="JobCode" name="JobCode" read-only="false" splittable="false" required="false"
      id="9">
          <value id="19" name="E1" />
          <value id="20" name="E2" />
          <value id="21" name="E3" />
        </dimension>
        <text-selector code="BenefitsSelector" name="Benefits" read-only="false" splittable="false"
      required="true" id="27">
          <value id="208" name="No" />

```

```

        <value id="209" name="Yes" />
      </text-selector>
      <date code="StartDate" name="Start" read-only="false" splittable="false" required="false" />
      <date code="EndDate" name="End" read-only="false" splittable="false" required="false" />
      <number code="HoursPerWeek" name="Hr/Week" read-only="false" splittable="false" required="false"
/>
      <text-selector code="per" name="per" read-only="false" splittable="false" required="true"
id="28">
        <value id="210" name="Yr" />
        <value id="211" name="Hr" />
      </text-selector>
      <initial-balance code="PayRate" name="Pay Rate" read-only="false" splittable="false"
required="false" id="143" />
      <display code="PayRate" name="Pay Rate Display Column" read-only="true" splittable="false"
required="false" id="7" />
      <level-currency code="" name="Currency" read-only="true" splittable="false" required="false"
id="8" />
    </columns>
  </modeled-sheet>
</output>
</response>

```

The `modeled-sheet` element contains a single `columns` child holding one or more of these in the order defined for the sheet:

1. levels
2. dimension
3. text-selector
4. text
5. number
6. date
7. initial-balance
8. level-currency
9. display
10. timespan

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>

<b>Contents of the Element</b>
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.

<b>modeled-sheet element</b>			
<b>Tag Name</b>	modeled-sheet		
<b>Description</b>	Represents a single modeled sheet being returned in the response to an export-Sheets API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet. This can be used to identify sheets in other API calls, such as <code>exportSheetDefinition</code> .	234
prefix	Y	The prefix of the sheet.	Capital
name	Y	The name of the sheet.	Capital Model
available-in-actuals	Y	Can be <code>true</code> or <code>false</code> . Denotes whether the modeled sheet is available in actuals version or not.	<code>true</code>
description	N	The textual description of the sheet, if any.	This is the Capital Model...
allow-splits	Y	<code>True</code> means the modeled sheet allows splits.	<code>true</code>
split-column-title	N	The additional column title for import when <code>allow-splits</code> is enabled. Use a localized string if a locale is specified in the request. This attribute is only present when <code>allow-splits</code> is set to <code>true</code> and at least one column is splittable.	Is Split Child Row
<b>Contents of the Element</b>			
A single <code>columns</code> element.			

<b>columns element</b>			
<b>Tag Name</b>	columns		
<b>Description</b>	Container for one or more <code>column</code> elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example

<b>Contents of the Element</b>
<p>One or more of the following elements, ordered as they appear on the sheet:</p> <ul style="list-style-type: none"> <li>• <code>levels</code></li> <li>• <code>dimension</code></li> <li>• <code>text-selector</code></li> <li>• <code>text</code></li> <li>• <code>number</code></li> <li>• <code>date</code></li> <li>• <code>initial-balance</code></li> <li>• <code>level-currency</code></li> <li>• <code>display</code></li> <li>• <code>timespan</code></li> </ul>

<b>levels element</b>			
<b>Tag Name</b>	<code>levels</code>		
<b>Description</b>	Represents the "level" column on a modeled sheet. Container for one or more <code>level</code> elements.		
<b>Attributes of the Element</b>			
<code>code</code>	Y	A symbolic identifier for the column, used in sheet formulas and references.	<code>MyColumn</code>
<code>name</code>	Y	Displayable title of the column, as seen on the sheet.	<code>My Column</code>
<code>read-only</code>	Y	True if the column is marked as read-only on the sheet, <code>false</code> if values can be entered into the column.	<code>false</code>
<code>splittable</code>	Y	True if splits of rows can have different values for this column, <code>false</code> if splits must have the same value as their parent.	<code>true</code>
<code>required</code>	Y	True if this attribute is a mandatory field.	<code>true</code>
<b>Contents of the Element</b>			
One or more <code>level</code> elements.			

<b>level element</b>			
<b>Tag Name</b>	<code>level</code>		
<b>Description</b>	One of the levels defined for this company which is on this sheet (or on which this sheet has been placed). Level metadata, including the hierarchical structure, can be obtained by a call to <code>exportLevels</code> .		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example

id	Y	Internal numeric identifier for the level.	42
<b>Contents of the Element</b>			
(none)			

<b>text element</b>			
<b>Tag Name</b>		text	
<b>Description</b>		Represents a column on the sheet which holds user-entered text.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false
<b>Contents of the Element</b>			
(none)			

<b>dimension element</b>			
<b>Tag Name</b>		dimension	
<b>Description</b>		One of the dimensions defined for this company. Represents a column on the sheet which holds the dimension.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false

<b>Contents of the Element</b>
One or more <code>value</code> elements, each of which is a valid selectable value in the dimension for this sheet. If a value of the dimension is not included here, that value <i>cannot be used</i> on data rows on this sheet.

<b>value element</b>			
<b>Tag Name</b>	value		
<b>Description</b>	One of the values defined for this dimension or text-selector. Complete dimension metadata, including its hierarchical structure, can be obtained by a separate call to <code>exportDimensions</code> .		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the value.	42
name	Y	Printed representation of the value.	Mexico
<b>Contents of the Element</b>			
(none)			

<b>text-selector element</b>			
<b>Tag Name</b>	text-selector		
<b>Description</b>	Custom list of values defined for this sheet. Represents a text selector column on a modeled sheet.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	true
id	Y	Internal numeric identifier.	42
<b>Contents of the Element</b>			
One or more <code>value</code> elements.			

<b>number element</b>			
<b>Tag Name</b>	number		
<b>Description</b>	Represents a column on the sheet which holds a user-entered number.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false
<b>Contents of the Element</b>			
(none)			

<b>date element</b>			
<b>Tag Name</b>	date		
<b>Description</b>	Represents a column on the sheet which holds a user-entered date.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false
<b>Contents of the Element</b>			
(none)			



<b>initial-balance element</b>			
<b>Tag Name</b>	initial-balance		
<b>Description</b>	Represents a column on the sheet that holds a user-supplied value for the initial balance of an account with a formula that determines the monthly change in the account's value.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false
id	Y	Internal numeric identifier of the account associated with this column.	42
<b>Contents of the Element</b>			
(none)			

<b>level-currency element</b>			
<b>Tag Name</b>	level-currency		
<b>Description</b>	Represents a column on the sheet that displays the code for the currency associated with each row. This is the currency of the level where the row is located.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column. For level-currency elements, this value is always true.	true
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false
id	Y	Internal numeric identifier.	42

<b>Contents of the Element</b>
(none)

<b>display element</b>			
<b>Tag Name</b>	display		
<b>Description</b>	Represents a column on the sheet that holds a row-based, read-only calculation.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false
id	Y	Internal numeric identifier.	42
<b>Contents of the Element</b>			
(none)			

<b>timespan element</b>			
<b>Tag Name</b>	timespan		
<b>Description</b>	At most one per sheet, this represents a timespan set of columns, which appear on the right of the sheet and can hold periodic data.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
code	Y	A symbolic identifier for the column, used in sheet formulas and references.	MyColumn
name	Y	Displayable title of the column, as seen on the sheet.	My Column
read-only	Y	True if the column is marked as read-only on the sheet, false if values can be entered into the column.	false
splittable	Y	True if splits of rows can have different values for this column, false if splits must have the same value as their parent.	true
required	Y	True if this attribute is a mandatory field.	false

id	Y	Internal numeric identifier of the account associated with this timespan.	42
Contents of the Element			
(none)			

## Cube Sheet Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportSheetDefinition" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <cube-sheet id="4"/>
</call>
```

The call element contains a `credentials` element, as well as a single `cube-sheet`.

credentials element			
Tag Name	credentials		
Description	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the <code>exportInstances</code> API.	MYINSTANCE1

Contents of the Element
(none)

cube-sheet element			
<b>Tag Name</b>	cube-sheet		
<b>Description</b>	Identifies a single cube sheet requested via an exportSheetDefinition API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet.	234
Contents of the Element			
(none)			

## Cube Sheet Response Format

```
<?xml version="1.0" encoding="UTF-8"?>
<response success="true">
  <output>
    <cube-sheet id="17" prefix="ExpenseCube" name="Expense Cube" description="">
      <dimensions>
        <dimension id="12" uncategorized="false" rollup="false">
          <value id="102"/> <!-- a leaf value, no rollup, no uncategorized -->
          <value id="90"/>
        </dimension>
        <attribute id="14" uncategorized="true" rollup="true">
          <value id="74" rollup="true" />
          <value id="75" uncategorized="true" />
          <value id="76" rollup="true" />
          <value id="76" uncategorized="true"/> <!-- notice same id twice -->
          <value id="80">
        </attribute>
        <levels>
          <level id="1"/>
          <level id="7"/>
        </levels>
        <accounts>
          <account id="218"/>
          <account id="217"/>
        </accounts>
        <time/>
      </dimensions>
    </cube-sheet>
  </output>
</response>
```

The cube-sheet element contains a single `dimensions` child holding these in the order defined for the sheet:

- `dimension` (one or more)
- `attribute` (zero or more)

- levels (one)
- accounts (one)
- time (one)

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element			
<b>Tag Name</b>		output	
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
A single required <code>cube-sheets</code> element. This output wrapper is standard on all API responses and encloses the valid output of any successful API call.			

cube-sheet element			
<b>Tag Name</b>		cube-sheet	
<b>Description</b>		Represents a single cube sheet being returned in the response to an <code>exportSheets</code> API call.	
Attributes of the Element			
Attribute Name	Required?	Value	Example

id		The internal system ID number for the sheet. This can be used to identify sheets in other API calls, such as <code>exportSheetDefinition</code> .	34
prefix		The prefix of the sheet.	ExpenseCube
name		The name of the sheet.	Expense Cube
description		The textual description of the sheet, if any.	
<b>Contents of the Element</b>			
(none)			

<b>dimensions element</b>			
<b>Tag Name</b>	dimensions		
<b>Description</b>	Container for the dimensions of the sheet.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more levels, dimension, accounts, time elements.			

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	One of the attributes placed on this cube sheet. Attribute metadata, including its hierarchical structure, can be obtained by a call to <code>exportAttributes</code> .		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal numeric identifier for the attribute.	34
uncategorized	Y	True means the uncategorized element of the attribute itself (the "root uncategorized" element) is available as a selection on the cube.	true
rollup	Y	True means the rollup element of the attribute itself (the rollup of all elements) is available as a selection on the cube.	true
<b>Contents of the Element</b>			
One or more value elements, indicating which values of the attribute are available on the sheet.			

value element			
<b>Tag Name</b>	value		
<b>Description</b>	One of the values for this dimension which has been marked as available on the sheet. The same value id can appear up to twice: with and without <code>uncategorized</code> set to <code>true</code> . Dimension metadata, including its hierarchical structure, can be obtained by a call to <code>exportDimensions</code> .		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the dimension value.	34
rollup	N	<code>true</code> indicates the rollup of this dimension value. Only allowed if the value has child values in the dimension. If the attribute is missing, <code>false</code> is used.	<code>true</code>
uncategorized	N	<code>true</code> indicates the uncategorized value of this dimension value. Only allowed if the value has child values in the dimension. If the attribute is missing, <code>false</code> is used.	<code>true</code>
Contents of the Element			
(none)			

levels element			
<b>Tag Name</b>	levels		
<b>Description</b>	Enforced container for one or more level elements. Individual levels are returned, even if they affect visibility only. Data can be imported into any level.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>level</code> elements.			

level element	
<b>Tag Name</b>	level
<b>Description</b>	A level found on this sheet, on which this sheet appears. Level metadata, including its hierarchical structure, can be obtained by a call to <code>exportLevels</code> .

Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the level.	12
Contents of the Element			
(none)			

accounts element			
<b>Tag Name</b>	accounts		
<b>Description</b>	Enforced container for one or more account elements. Individual accounts are returned, even if they affect visibility only. Data can be imported into any input account.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>account</code> elements.			

account element			
<b>Tag Name</b>	account		
<b>Description</b>	One of the accounts defined for this cube sheet. Account metadata, including its hierarchical structure, can be obtained by a call to <code>exportAccounts</code> .		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the account.	23
Contents of the Element			
(none)			

time element			
<b>Tag Name</b>	time		
<b>Description</b>	Enforced time dimension.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			



<b>Contents of the Element</b>
(none)

## exportSheets

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns the complete list of all sheets defined for the given instance. This includes "incomplete" sheets as well as user-assigned sheets.
<b>Permissions Required To Invoke</b>	IMP (import data) or MOD (create, edit, and delete sheets)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the complete set of all sheets found in the user's instance.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportSheets" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

## Response Format

```
<?xml version="1.0" encoding="UTF-8"?>
<response success="true">
  <output>
    <sheets>
      <modeled-sheet id="1" name="Personnel" prefix="Personnel" description="Personnel Sheet" />
      <modeled-sheet id="2" name="Crossover Personnel" prefix="Crossovers" description="Personnel Sheet" />
      <modeled-sheet id="3" name="Sales" prefix="Sales" description="Sales Sheet" />
      ...
      <standard-sheet id="6" name="Model Summary" prefix="" description="Configurable Model Summary Sheet" />
      <standard-sheet id="8" name="Expenses" prefix="" description="" />
      <standard-sheet id="9" name="Balance" prefix="" description="" />
      <standard-sheet id="10" name="Assumptions" prefix="" description="" />
      ...
      <cube-sheet id="17" name="Expense Cube" prefix="ExpenseCube" description="" />
      <cube-sheet id="19" name="Sale Cube" prefix="SalesCube" description="" />
    </sheets>
  </output>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element			
<b>Tag Name</b>	output		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
A single required <code>cube-sheets</code> element. This output wrapper is standard on all API responses and encloses the valid output of any successful API call.			

sheets element			
<b>Tag Name</b>	sheet		
<b>Description</b>	Container for one or more <code>standard-sheet</code> , <code>modeled-sheet</code> and <code>cube-sheet</code> elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more <code>standard-sheet</code> , <code>modeled-sheet</code> and <code>cube-sheet</code> elements.			

standard-sheet element			
<b>Tag Name</b>	standard-sheet		
<b>Description</b>	Represents a single standard sheet being returned in the response to an <code>exportSheets</code> API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet. This can be used to identify sheets in other API calls, such as <code>exportSheetDefinition</code> .	123
prefix	Y	The prefix of the sheet. For standard sheets, this is always empty. Other sheet types have non-empty values for this attribute.	
name	Y	The name of the sheet.	Rollup Modes

description	N	The textual description of the sheet, if any.	These are the rollup modes...
<b>Contents of the Element</b>			
(none)			

<b>modeled-sheet element</b>			
<b>Tag Name</b>		modeled-sheet	
<b>Description</b>		Represents a single modeled sheet being returned in the response to an exportSheets API call.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the sheet. This can be used to identify sheets in other API calls, such as exportSheetDefinition.	234
prefix	Y	The prefix of the sheet.	Capital
name	Y	The name of the sheet.	Capital Model
available-in-actuals	Y	Can be true or false. Denotes whether the modeled sheet is available in actuals version or not.	true
description	N	The textual description of the sheet, if any.	This is the Capital Model...
<b>Contents of the Element</b>			
(none)			

<b>cube-sheet element</b>			
<b>Tag Name</b>		cube-sheet	
<b>Description</b>		Represents a single cube sheet being returned in the response to an exportSheets API call.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id		The internal system ID number for the sheet. This can be used to identify sheets in other API calls, such as exportSheetDefinition.	34
prefix		The prefix of the sheet.	ExpenseCube
name		The name of the sheet.	Expense Cube
description		The textual description of the sheet, if any.	

<b>Contents of the Element</b>
(none)

## exportTime

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns time metadata either for a specific version, or for all versions if none is specified.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user and an optional version tag to specify which version to retrieve information for. If no version is specified, the method returns time information for the time range encompassing all versions' start and end times. Once the caller is verified, the method returns an XML document describing the complete set of time information for the version in a nested tree fashion.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportTime" callerName="a string that identifies your client application">
<credentials login="sampleuser@company.com" password="my_pwd" locale="fr_FR" instanceCode="INSTANCE1"/>
<version name="Budget 2014" id="7"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

version element			
<b>Tag Name</b>	version		
<b>Description</b>	Indicates which version should be used to retrieve the requested data. The user must be able to access the version specified and it cannot be a folder. A version element is not required, but if one is included, the version specified must be valid.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	N	The name of the version to be used to retrieve the data. Only one version can be accessed within a single API call. If a name is not provided, then an id must be. If both are given, then they must correspond to the same version.	Budget 2014
id	N	The id of the version to be used to retrieve the data. Only one version can be accessed within a single API call. If an id is not provided, then a name must be. If both are given, then they must correspond to the same version.	3
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <time>
      <initial-balance fiscal-yr="2013" mon="8" reportid="201408" timeslot="175" label=Aug 2014" cal-yr="2014"
startDate="2014-08-01" endDate="2014-08-31"/>
      <fiscal-year yr="2014" reportid="201500" label="FY-2014" startDate="2014-09-01" endDate="2015-08-31">
        <fiscal-quarter qtr="1" reportid="201591" label="Q1-FY2014" startDate="2014-09-01" endDate="2014-11-
30">
          <month mon="9" reportid="201409" timeslot="176" label="Sep 2014" cal-yr="2014" startDate="2014-09-
01" endDate="2014-09-30"/>
          <month mon="10" reportid="201410" timeslot="177" label="Oct 2014" cal-yr="2014" startDate="2014-10-
01" endDate="2014-10-31"/>
          <month mon="11" reportid="201411" timeslot="178" label="Nov 2014" cal-yr="2014" startDate="2014-11-
01" endDate="2014-11-30"/>
        </fiscal-quarter>
      </fiscal-year>
    </time>
  </output>
</response>
```



```

    <fiscal-quarter qtr="2" reportid="201592" label="Q2-FY2014" startDate="2014-12-01" endDate="2015-02-28">
      <month mon="12" reportid="201412" timeslot="179" label="Dec 2014" cal-yr="2014" startDate="2014-12-01" endDate="2014-12-31"/>
      <month mon="1" reportid="201501" timeslot="180" label="Jan 2015" cal-yr="2015" startDate="2015-01-01" endDate="2015-01-31"/>
      <month mon="2" reportid="201502" timeslot="181" label="Feb 2015" cal-yr="2015" startDate="2015-02-01" endDate="2015-02-28"/>
    </fiscal-quarter>
    <fiscal-quarter qtr="3" reportid="201593" label="Q3-FY2014" startDate="2015-03-01" endDate="2015-05-31">
      <month mon="3" reportid="201503" timeslot="182" label="Mar 2015" cal-yr="2015" startDate="2015-03-01" endDate="2015-03-31"/>
      <month mon="4" reportid="201504" timeslot="183" label="Apr 2015" cal-yr="2015" startDate="2015-04-01" endDate="2015-04-30"/>
      <month mon="5" reportid="201505" timeslot="184" label="May 2015" cal-yr="2015" startDate="2015-05-01" endDate="2015-05-31"/>
    </fiscal-quarter>
    <fiscal-quarter qtr="4" reportid="201594" label="Q4-FY2014" startDate="2015-06-01" endDate="2015-08-30">
      <month mon="6" reportid="201506" timeslot="185" label="Jun 2015" cal-yr="2015" startDate="2015-06-01" endDate="2015-06-30"/>
      <month mon="7" reportid="201507" timeslot="186" label="Jul 2015" cal-yr="2015" startDate="2015-07-01" endDate="2015-07-31"/>
      <month mon="8" reportid="201508" timeslot="187" label="Aug 2015" cal-yr="2015" startDate="2015-08-01" endDate="2015-08-30"/>
    </fiscal-quarter>
  </fiscal-year>
</time>
</output>
</response>

```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true
obsolete	N	If present on the response tag and set to true, this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	false
Contents of the Element			
A single optional messages element, and exactly one required output element.			

messages element	
Tag Name	messages

<b>Description</b>	Container for one or more <code>message</code> elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more <code>message</code> elements.	

<b>message element</b>			
<b>Tag Name</b>	message		
<b>Description</b>	Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	warning-invalid-timespan-start
<b>Contents of the Element</b>			
The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value which caused an error.			

<b>output element</b>	
<b>Tag Name</b>	output
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

<b>time element</b>	
<b>Tag Name</b>	time
<b>Description</b>	Container for one initial-balance element and one or more fiscal-year elements.
<b>Attributes of the Element</b>	

Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
Exactly one initial-balance element and one or more fiscal-year elements.			

<b>initial-balance element</b>			
<b>Tag Name</b>	initial-balance		
<b>Description</b>	Represents the last month or fiscal period before the start of the version being returned in the response to an exportTime API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
fiscal-yr	Y	The fiscal year of the initial balance.	2003
reportid	Y	The timeid for the month or fiscal period of the initial balance as used for reports. If the version is organized by month, the timeid's year will be the calendar year of the initial balance month or fiscal period.	200312
timeslot	Y	The absolute timeslot of the month or fiscal period of the initial balance, which represents how many months or fiscal periods after the first month/period in 2000 it is.	51
label	Y	The textual label for the month or fiscal period of the initial balance.	Dec 2003
mon	N	Which month of the calendar year it is. This attribute appears only when the version is organized by month.	12
cal-yr	N	The calendar year of the initial balance. This attribute is only present if the version is organized by month.	2003
startDate	Y	The starting date of the initial balance, in the form YYYY-MM-DD	2003-12-01
endDate	Y	The ending date of the initial balance, in the form YYYY-MM-DD	2003-12-31
<b>Contents of the Element</b>			
(none)			

<b>fiscal-year element</b>			
<b>Tag Name</b>	fiscal-year		
<b>Description</b>	Represents a single fiscal year being returned from the exportTime API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example

yr	Y	The fiscal year.	2015
reportid	Y	The timeid for the fiscal year as used for reports. The last two digits being 0 signifies that the timeid is for a fiscal year. The timeid's year is the canonical year, the calendar year of the last month or period of the fiscal year.	201500
label	Y	The textual label for the fiscal year.	FY-2015
startDate	Y	The starting date of the fiscal year, in the form YYYY-MM-DD.	2015-01-01
endDate	Y	The ending date of the fiscal year, in the form YYYY-MM-DD.	2015-12-31
<b>Contents of the Element</b>			
One or more <code>fiscal-quarter</code> elements.			

<b>fiscal-quarter element</b>			
<b>Tag Name</b>		fiscal-quarter	
<b>Description</b>		Represents a single fiscal year being returned from the <code>exportTime</code> API call.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
qtr	Y	Which fiscal quarter in the fiscal year it is.	2
reportid	Y	The timeid for the fiscal quarter as used for reports. The second to last digit being a 9 signifies that the timeid is for a quarter. The timeid's year is the canonical year, the calendar year of the last month or period of the fiscal year.	201592
label	Y	The textual label for the fiscal quarter.	Q3-FY2015
startDate	Y	The starting date of the fiscal quarter, in the form YYYY-MM-DD.	2015-07-01
endDate	Y	The ending date of the fiscal quarter, in the form YYYY-MM-DD.	2015-09-30
<b>Contents of the Element</b>			
Three <code>month</code> elements.			

<b>month element</b>			
<b>Tag Name</b>		month	
<b>Description</b>		Represents a single calendar month being returned from the <code>exportTime</code> API call.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
mon	Y	Which month of the calendar year it is.	2

reportid	Y	The timeid for the month as used for reports. The timeid's year is the calendar year of the month.	201502
timeslot	Y	The absolute timeslot for the month, which represents how many months after January 2000 it is.	182
label	Y	The textual label for the month.	Feb 2015
cal-yr	Y	The calendar year of the month. This can differ from the fiscal year if the fiscal year does not begin on January.	2015
startDate	Y	The starting date of the month, in the form YYYY-MM-DD	2015-02-01
endDate	Y	The ending date of the month, in the form YYYY-MM-DD	2015-02-28
<b>Contents of the Element</b>			
(none)			

## exportTransactionDefinition

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns the definition (available columns) of the transactions in the instance.
<b>Permissions Required To Invoke</b>	IMP (import data) or MANAGE_TX (manage the transaction field definition)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the definition of a transaction in the instance.

## Request Format

```
<?xml version="1.0" encoding="UTF-8"?>
<call method="exportTransactionDefinition" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

## Response Format

```
<?xml version="1.0" encoding="UTF-8"?>
<response success="true">
  <output>
    <transaction>
      <fields>
        <posting-date name="Posting Date"/>
        <type name="Transaction Type">
          <value id="178" name="Journal Entry"/>
          <value id="179" name="Purchase Order"/>
          <value id="177" name="Invoice"/>
          <value id="180" name="Transaction"/>
        </type>
        <accounts name="Account"/>
        <levels name="Plan"/>
        <dimension id="4" name="Product">
          <value id="48" name="B-2"/>
          <value id="47" name="B-1"/>
          <value id="14" name="A"/>
          <value id="15" name="B-Ste"/>
        </dimension>
        <text-selector id="4" name="Flavor">
          <value id="123" name="Chocolate"/>
          <value id="122" name="Vanilla"/>
        </text-selector>
        <text name="Description"/>
        <number name="Sales Tax"/>
        <date name="Due Date"/>
        <amount name="Transaction Amount"/>
      </fields>
    </transaction>
  </output>
</response>
```

Each of the `fields` for a transaction is defined by one of these elements:

1. `posting-date` (one)
2. `type` (one)
3. `accounts` (one)
4. `levels` (one)
5. `dimension` (zero or more)
6. `text-selector` (zero or more)

7. text (zero or more)
8. number (zero or more)
9. date (zero or more)
10. amount (one)

transaction element			
<b>Tag Name</b>		transaction	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One <code>fields</code> element.			

fields element			
<b>Tag Name</b>		fields	
<b>Description</b>		Container for all required and optional fields.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One element for each of the fields each transaction should have.			

posting-date element			
<b>Tag Name</b>		posting-date	
<b>Description</b>		The required date the transaction was posted.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	Printed header of this field.	Posting Date
<b>Contents of the Element</b>			
(none)			



type element			
<b>Tag Name</b>	type		
<b>Description</b>	The required type of transaction		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	Y	Printed header of this field.	Transaction Type
Contents of the Element			
One or more <code>value</code> elements.			

accounts element			
<b>Tag Name</b>	accounts		
<b>Description</b>	The account this transaction belongs to. Account metadata, including the hierarchical structure, can be obtained by a call to <code>exportAccounts</code> .		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	Y	Printed header of this field.	Account
Contents of the Element			
(none)			

levels element			
<b>Tag Name</b>	levels		
<b>Description</b>	The level this transaction belongs to. Level metadata, including the hierarchical structure, can be obtained by a call to <code>exportLevels</code> .		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	Y	Printed header of this field.	level
Contents of the Element			
(none)			

dimension element	
<b>Tag Name</b>	dimension

<b>Description</b>		A dimension assignable to a transaction. Complete dimension metadata, including its hierarchical structure, can be obtained by a separate call to <code>exportDimensions</code> .	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the dimension.	42
name	Y	Printed header of this field.	Product
<b>Contents of the Element</b>			
One or more <code>value</code> elements.			

<b>text-selector element</b>			
<b>Tag Name</b>		text-selector	
<b>Description</b>		Custom list of values defined to tag transactions.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the text selector.	42
name	Y	Printed header of this field.	Flavor
<b>Contents of the Element</b>			
One or more <code>value</code> elements.			

<b>value element</b>			
<b>Tag Name</b>		value	
<b>Description</b>		One of the values defined for the enclosing <code>type</code> , <code>dimension</code> or <code>text-selector</code> .	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	Internal numeric identifier for the value.	42
name	Y	Printed representation of the value.	Invoice
<b>Contents of the Element</b>			
(none)			

<b>text element</b>	
<b>Tag Name</b>	text

<b>Description</b>		Generic text corresponding to a transaction.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
name	Y	Printed header of this field.	Description
<b>Contents of the Element</b>			
(none)			

<b>number element</b>			
<b>Tag Name</b>		number	
<b>Description</b>		A generic number assigned to a transaction.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
name	Y	Printed header of this field	Sales Tax
<b>Contents of the Element</b>			
(none)			

<b>date element</b>			
<b>Tag Name</b>		date	
<b>Description</b>		A generic date assigned to a transaction.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
name	Y	Printed header of this field.	Due Date
<b>Contents of the Element</b>			
(none)			

<b>amount element</b>			
<b>Tag Name</b>		amount	
<b>Description</b>		The required monetary amount for a transaction.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
name	Y	Printed header of this field.	Transaction Amount
<b>Contents of the Element</b>			
(none)			



## exportUsers

<b>Category</b>	Metadata retrieval
<b>Description</b>	Returns metadata for the complete list of all users in the instance.
<b>Permissions Required To Invoke</b>	User Admin
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the complete set of all users defined in the instance. The optional `include` request parameter can determine if `ownedLevels` or `hiddenVersions` is included in the response.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportUsers" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <include ownedLevels="true" hiddenVersions="false"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

include element			
<b>Tag Name</b>	include		
<b>Description</b>	Represents a set of flags indicating what aspects of the users' information should be included or excluded from the response. This element is optional: if not present, the default values are true for ownedLevels and false for hiddenVersions.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
ownedLevels	N	Either the word true or false. Indicates if the user elements in the response should include ownedLevels attributes or not. If the attribute is not present, or if its value is something other than true or false, the default value of true is used.	true
hiddenVersions	N	Either the word true or false. Indicates if the user elements in the response should include hiddenVersions attributes or not. If the attribute is not present, or if its value is something other than true or false, the default value of false is used.	false
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <users>
      <user id="19" guid="B9ADBCB81AA2F9BAE040307F02092C2E" login="analytica@fakecompany.com"
email="analytica@fakecompany.com"
      name="Anna Analyzer" roleId="3" ownedLevels="1" hiddenVersions="4"/>
      <user id="123" guid="AAFF5218D55ABB9234660001BEC117A9" login="randomuser@fakecompany.com"
email="randomuser@fakecompany.com"
      name="J. Random User" roleId="2" ownedLevels="5,10,13" hiddenVersions="" />
    </users>
  </output>
</response>
```

```

</users>
</output>
</response>

```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

users element	
<b>Tag Name</b>	users
<b>Description</b>	Container for one or more <code>user</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>user</code> elements.	

<b>user element</b>			
<b>Tag Name</b>		user	
<b>Description</b>		Represents a single user being returned in the response to an exportUsers API call.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
id	Y	The internal system ID number for the user.	19
guid	Y	A globally-unique identifier for the user. This identifier will never change for this user, even if their login or name changes in the future.	B9ADB- CB81AA2F9BAE040307F02092C2E
login	Y	The login for this user.	analytica@fakecompany.com
email	Y	The email address for this user. May be blank if the user has not configured a valid email address.	analytica@fakecompany.com
name	Y	The name of this user.	Anna Analyzer
roleId	Y	The internal system ID of the role assigned to this user. See also exportRoles.	3
ownedLevels	Y	This attribute is only included if the user included in the request's credentials has Level Admin permission to the entire Organization tree and the request has indicated that ownedLevels should be included. If included, this attribute's value is a comma-separated list of internal system IDs for organization levels to which this user has been granted direct access. The user will also have access to any child levels of the levels listed here	5,10,13
hiddenVersions	N (see description)	This attribute is only included if the user included in the request's credentials has Version Admin permission and the request has indicated that hiddenVersions should be included. If included, this attribute's value is a comma-separated list of internal system IDs for versions or version folders which are hidden from this user (but whose parent is either non-existent or not hidden). The user will also not be able to see any child versions of the versions listed here.	121
timeZone	Y	The time zone of the user.	US/Pacific
<b>Contents of the Element</b>			
One subscriptions element.			



<b>subscriptions element</b>			
<b>Tag Name</b>		subscriptions	
<b>Description</b>		Represents the email subscription settings for a user.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
nosubscriptions	Y	Setting to signal user has opted out of all subscriptions. 1 means user has opted out of all subscriptions.	0
systemAlertsAndUpdates	Y	Setting for system alerts and updates subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
customerNewsLetter	Y	Setting for the customer news letter subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
localEvents	Y	Setting for the local events subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
educationTraining	Y	Setting for the education and training events subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
customerWebinars	Y	Setting for the customer webinar events subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
newProductsAndEnhancements	Y	Setting for new product and enhancements notification opted by the user. 1 means user has opted in and 0 means he has opted out.	1
partnerNewsLetter	Y	Setting for the partner newsletters subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
partnerWebinars	Y	Setting for the partner webinar events subscription opted by the user. 1 means user has opted in and 0 means he has opted out.	1
userGroups	Y	Setting for user groups events notification opted by the user. 1 means user has opted in and 0 means he has opted out.	1
surveys	Y	Setting for receiving surveys opted by the user. 1 means user has opted in and 0 means he has opted out.	0
<b>Contents of the Element</b>			
none			

## exportVersions

<b>Category</b>	Metadata retrieval
<b>Description</b>	Once verified, the method returns an XML document describing the set of all versions defined in the instance which are not hidden from the requesting user.
<b>Permissions Required To Invoke</b>	None (must be valid credentials for the instance)
<b>Parameters Required On Request</b>	Credentials

This method's request contains only a `credentials` tag to identify and authorize the calling user. Once verified, the method returns an XML document describing the set of all versions defined in the instance which are not hidden from the requesting user.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="exportVersions" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <include rootActuals="false" />
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

include element			
<b>Tag Name</b>	include		
<b>Description</b>	Represents a set of flags indicating what aspects of the version' information should be included or excluded from the response. This element is optional: if not present, the API will return all version information.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
rootActuals	N	Indicates whether the root actuals version should be included when actuals are hidden from the version selector.	false
<b>Contents of the Element</b>			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <versions>
      <version id="1" name="Actuals" shortName="" type="ACTUALS" description="Total Actuals"
isDefaultVersion="false"
      isLocked="false" hasAuditTrail="false" isImportable="0"
      startVerFY="2012" completedValuesThruYr="2012" completedValuesThruMon="3"
      startScrollYr="2012" startScrollMon="1" endVerFY="2016" lockLeadingYr="" lockLeadingMon="" >
        <version id="5" name="Adjusted Actuals" shortName="SV-13" type="ACTUALS" description="Actuals
SubVersion" isDefaultVersion="false"
          isLocked="false" hasAuditTrail="false" isImportable="0" >
          <version id="6" name="Original Import" shortName="SSV-13" type="ACTUALS" description="Values Imported
from the GL" isDefaultVersion="false"
            isLocked="false" hasAuditTrail="false" isImportable="1" />
          <version id="8" name="Manual Adjustments" shortName="SSV-14" type="ACTUALS" description="Actuals Sub-
Version for Manual Adjustments" isDefaultVersion="false"
            isLocked="false" hasAuditTrail="true" isImportable="1" />
        </version>
        <version id="9" name="Eliminations" shortName="ELIM" type="ACTUALS" description="Eliminating entries"
isDefaultVersion="false"
          isLocked="false" hasAuditTrail="false" isImportable="0" />
      </version>
    </versions>
  </output>
</response>
```

```

<version id="2" name="Budget 2013" shortName="" type="PLANNING" description="This is the budget for 2013
with a five-year span." isDefaultVersion="true"
  isLocked="false" hasAuditTrail="true" isImportable="1"
  leftScrollFY="2013" startPlanYr="2013" startPlanMon="1" endPlanFY="2017" lockLeadingYr="2013"
lockLeadingMon="5" />
<version id="3" name="Budget 2014" shortName="B-14" type="PLANNING" description="This is the budget for
2014 with a five-year span." isDefaultVersion="false"
  isLocked="false" hasAuditTrail="false" isImportable="1"
  leftScrollFY="2014" startPlanYr="2014" startPlanMon="1" endPlanFY="2018" lockLeadingYr=""
lockLeadingMon="" />
</versions>
</output>
</response>

```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

versions element	
Tag Name	versions
Description	Container for one or more <code>version</code> elements.
Attributes of the Element	

(none)
<b>Contents of the Element</b>
One or more <code>version</code> elements.

<b>version element</b>			
Tag Name	version		
Description	Represents a single version being returned in the response to an <code>exportVersions</code> API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
<code>id</code>	Y	The internal system ID number for the version or folder. All IDs are unique among all versions, sub-versions, and folders.	2
<code>name</code>	Y	The name of the version or folder, as it appears in Version Administration.	Budget 2015
<code>shortname</code>	N	A short name for the version, if any, as entered in Version Administration	B2015
<code>type</code>	Y	One of the following values: <code>ACTUALS</code> = Standard Actuals Version or Sub-Version, <code>JOURNAL_ENTRY</code> = Journal Entry Actuals Sub-Version, <code>PLANNING</code> = Plan Version, <code>VERSION_FOLDER</code> = Folder	ACTUALS
<code>description</code>	Y	The description of the version or folder, as it appears in Version Administration.	This is the budget for 2015 with a five-year span.
<code>isDefaultVersion</code>	Y	Tells if the version is the default version. True if the version is the default version otherwise false.	true
<code>isLocked</code>	N	Indicates if the version has been "globally locked" (has its Locked Version checkbox checked). If not present, the version is not considered to be locked. Will always be 'false' for actuals versions or for folders.	true
<code>hasAuditTrail</code>	Y	Indicates if the version has Audit Trail enabled.	true
<code>isImportable</code>	N	Indicates if the user requesting this API is allowed to import data into the version. 0 means the version cannot accept imports, and 1 means it can. A version is importable if at least one timeslot in the specified version is importable for this user.	1
<code>startVerFY</code>	N	Indicates the fiscal year in which the version starts. Equivalent to <i>start of version</i> in the version administration page. This attribute is shown only for the root actuals version. This attribute is required for the root actuals version.	2015

leftScrollFY	N	Indicates the fiscal year in which the version starts. Equivalent to <i>left scroll limit</i> in the version administration page. This attribute is shown only for planning versions. This attribute is required for planning versions.	2015
completedValues-ThruYr	N	Indicates the year of the latest date the root actuals has data filled in for. If the version is monthly, it is the calendar year. Equivalent to <i>completed values through</i> on the version administration page. This attribute is shown only for the root actuals version. This attribute is optional for the root actuals version.	2015
completedValues-ThruMon	N	Indicates the month of the latest date the root actuals has data filled in for. Equivalent to <i>completed values through</i> on the version administration page. This attribute is shown only for the root actuals version. This attribute is optional for the root actuals version.	12
startScrollYr	N	Indicates the year of the date where planning begins. If the version is monthly, it is the calendar year. Equivalent to <i>starting scroll location</i> on the version administration page. This attribute is shown only for the root actuals version. This attribute is required for the root actuals version.	2015
startScrollMon	N	Indicates the month of the date where planning begins. Equivalent to <i>starting scroll location</i> on the version administration page. This attribute is shown only for the root actuals version. This attribute is required for a monthly root actuals version.	12
startPlanYr	N	Indicates the year of the date where planning begins. If the version is monthly, it is the calendar year. Equivalent to <i>start of plan</i> on the version administration page. This attribute is shown only for planning versions and is required for planning versions.	2015
startPlanMon	N	Indicates the month of the date where planning begins. Equivalent to <i>start of plan</i> on the version administration page. This attribute is shown only for planning versions. This attribute is required for monthly planning versions.	12
endVerFY	N	Indicates the fiscal year in which the version ends. Equivalent to <i>end of version</i> in the version administration page. This attribute is shown only for the root actuals version. This attribute is required for the root actuals version.	2015
endPlanFY	N	Indicates the fiscal year in which the version ends. Equivalent to <i>end of plan</i> in the version administration page. This attribute is shown only for planning versions. This attribute is required for planning versions.	2015
lockLeadingYr	N	Indicates the year of the date up to which version values are locked. If the version is monthly, it is the calendar year. If the version is periodic, it is the fiscal year. Equivalent to <i>lock leading months through</i> or <i>lock leading periods through</i> on the version administration page. This attribute is shown only for the root actuals version and planning versions. This attribute is optional for the root actuals version and planning versions.	2015

lockLeadingMon	N	Indicates the month of the date up to which version values are locked. Equivalent to <i>lock leading months through</i> on the version administration page. This attribute is shown only for the root actuals version and planning versions. This attribute is optional for a monthly root actuals version and monthly planning versions.	12
<b>Contents of the Element</b>			
One nested <code>version</code> element for each direct child version of this version.			

## publishChanges

<b>Category</b>	Admin publishing
<b>Description</b>	Publish any pending changes.
<b>Permissions Required To Invoke</b>	Must be valid credentials for the instance and "Publish Admin Changes" permission. Instance must have admin publishing enabled.
<b>Parameters Required On Request</b>	Credentials

This method's request contains a *credentials* tag to identify and authorize the calling user. Once verified, this method will publish any batched changes. Optionally, the request may contain an *action* tag.

### Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="publishChanges" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR



instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

### Response Format

- If the request is received with no batched changes, then the response is the 'Publish Success' response with 'publishedCount' = 0.
- Success is where given n unpublished changes, all n are successfully published.
- In a successful publish, output contains a publishResponse element that has a publishedCount attribute stating the number of changes that were published.
- In an unsuccessful publish, output contains a publishResponse element that has the same publishedCount attribute and a notPublishedCount attribute listing the number of changes that were not published.

## Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <publishResponse publishedCount="3" />
  </output>
</response>
```

## Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message type="ERROR">Publish Error</message>
  </messages>
  <output>
    <publishResponse publishedCount="0" notPublishedCount="2" />
  </output>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true

obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	false
<b>Contents of the Element</b>			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

<b>output element</b>	
<b>Tag Name</b>	output
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

<b>publishResponse element</b>			
<b>Tag Name</b>		publishResponse	
<b>Description</b>		The response to a publish changes request. Contains information on either the status of unpublished changes, or the result of doing a publish.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
publishedCount	Y	The number of changes that were successfully published.	6
notPublishedCount	N	The number of changes that were NOT published. Included with an unsuccessful 'publish' response.	2
<b>Contents of the Element</b>			
(none)			

# unpublishedChangesStatus

<b>Category</b>	Admin publishing
<b>Description</b>	Retrieve the number of unpublished changes, and determine if admin publishing is disabled for the instance.
<b>Permissions Required To Invoke</b>	Must be valid credentials for the instance. If admin publishing is disabled, no additional permissions are required. If admin publishing is enabled, the user must have the Publish Admin Changes permission.
<b>Parameters Required On Request</b>	Credentials

This method's request contains a *credentials* tag to identify and authorize the calling user. Once verified, this method will publish any batched changes. Optionally, the request may contain an *action* tag.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="unpublishedChangesStatus" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <i>credentials</i> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR

instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

### Response Format

These are examples of responses for admin publishing enabled and disabled.

## Admin Publishing Enabled Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <unpublishedStatus adminPublishingEnabled="1" numberToPublish="3" />
  </output>
</response>
```

## Admin Publishing Disabled Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <unpublishedStatus adminPublishingEnabled="0" />
  </output>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single required <i>unpublishedStatus</i> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

unpublishedStatus element			
<b>Tag Name</b>	unpublishedStatus		
<b>Description</b>	The response to an unpublishedChangesStatus request. Contains information on whether admin publishing is enabled, and if so, how many unpublished changes there are.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
adminPublishingEnabled	Y	Whether or not admin publishing is enabled for this instance (0=not enabled, 1=enabled).	1
numberToPublish	N	How many unpublished changes there are. Appears only if admin publishing is enabled. If there are no unpublished changes, value is 0.	2
Contents of the Element			
(none)			

## updateAccount

<b>Category</b>	Metadata modification
<b>Description</b>	Update an existing account in the system. This API returns an error message when validation or update fails, or it returns metadata for the updated account upon success. This API supports only the following account types: Assumption, GL Account, and Custom Account. It does not support system or linked accounts.
<b>Permissions Required To Invoke</b>	Model for GL and Custom account. Assumptions for Assumptions.
<b>Parameters Required On Request</b>	Credentials

This method's request contains a `credentials` tag to identify and authorize the calling user. User must have Model or Assumptions permission to perform the account creation. The XML request is validated for each field and against certain business logic. Error messages are returned as part of the response when the creation fails. The operation may be halted and a warning message provided when a risky operation is detected. The request needs to be resubmitted with the attribute `ignoreWarnings` set to 1 in order to complete the account update.

## Request Format

The request schema is provided in the Relax NG Compact format.

```

default namespace = ""

start =
  element account {
    attribute id { xsd:integer }, #account id
    attribute name { xsd:string { maxLength="2048" minLength="1" } }?, #Non-empty string with a maximum length of
    2048 characters.
    attribute code { xsd:string { maxLength="2048" minLength="1" } }?, #Non-empty string with a maximum length of
    2048 characters.
    attribute description { xsd:string { maxLength="2048" } }?, #Potentially empty string with a maximum length
    of 2048 characters.
    attribute shortName { xsd:string { maxLength="64" } }?, #Potentially empty string with a maximum length of 64
    characters.
    attribute exchangeRateType { xsd:string }?, #displayAs must be CURRENCY (only if multicurrency is enabled)
    attribute hasSalaryDetail { string "0" | string "1" }?, #0=No, 1=Yes
    attribute dataPrivacy { string "PRIVATE" | string "PUBLIC_TOP" | string "PUBLIC_ALL" }?,
    attribute isBreakbackEligible { string "0" | string "1" }?, #0=No, 1=Yes
    attribute proceedWithWarnings { string "0" | string "1" }?, #0=No, 1=Yes
    element attributes{
      element attribute{
        attribute attributeId{ xsd:integer },
        attribute valueId{ xsd:integer }
      }*
    }?
  }

```

### Example

```

<?xml version='1.0' encoding='UTF-8'?>
<call method="updateAccount" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd"/>
  <account
    id="48"
    name="Account Name"
    code="Account_Code"
    description="Account Description"

```

```

shortName="Short Name"
exchangeRateType="A"
hasSalaryDetail="1"
dataPrivacy="PRIVATE" >
<attributes>
  <attribute attributeId="20" valueId="170" />
</attributes>
</account>
</call>

```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

account element	
<b>Tag Name</b>	account
<b>Description</b>	Specifies an account to create.
Attributes of the Element	

Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the account. This can be used to identify accounts in other API calls, such as <i>exportDimensionFamilies</i> .	16
name	Y	The name of the account, as it appears on reports and sheets.	Current Assets
code	N	The code of the account, alphanumeric characters and underscores only. Should not supply a code attribute for account groups.	Cur_Assets
description	N	The textual description of the account.	Total current assets
shortName	N	The short name for the account.	CA
exchangeRateType	N	Only present for instances with multicurrency enabled and for accounts with displayAs="CURRENCY". Possible values: any of the exchange rate type codes present in the instance, as configured in Manage Currencies. "A"=Monthly Average, "E"=End of Month.	E
hasSalaryDetail	N	Viewing splits of account requires salary detail permission. 0 for no, 1 for yes.	1
dataPrivacy	N	Choose whether the value of account is private ( <i>PRIVATE</i> ), public at top level only ( <i>PUBLIC_TOP</i> ) or public at all levels ( <i>PUBLIC_ALL</i> ). This defaults to <i>PRIVATE</i> .	PRIVATE
isBreakbackEligible	N	Available in breakback. 0 for no, 1 for yes. Applicable only for assumptions.	0
proceedWithWarnings	N	Indicates whether the user wants to ignore warning messages and go ahead with the update operation: 0 for no, 1 for yes. If there are warnings and proceedWithWarnings=0, then account will not be updated. Set proceedWithWarnings=1 to update the account when there are warnings.	1
<b>Contents of the Element</b>			
One optional <code>attributes</code> element if you want to edit one or more account attributes associated with the account.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more account attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more <code>attribute</code> elements.			



attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents one <i>account attribute</i> element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The ID of the account attribute that was generated by the system.	20
valueID	Y	The unique ID of the account attribute value that was generated by the system. If this value is 0, then this attribute will be removed from the account.	170
Contents of the Element			
none			

## Response Format

These are examples of responses for successful and unsuccessful updating of an account.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message type="WARNING" key="warning-unpublished-changes" values="" accountId="1">You have unpublished
changes.
  Your changes will not be visible every where until it is published.</message>
  </messages>
  <output>
    <accounts>
      <account id="1" code="Assets" name="Assets" description="Total Assets" displayAs="CURRENCY"
accountTypeCode="A" decimalPrecision="0" isAssumption="0" suppressZeroes="1" isDefaultRoot="1"
shortName="" exchangeRateType="E" balanceType="DEBIT" formula="" isLinked="0" owningSheetId=""
isSystem="0" isIntercompany="0" dataEntryType="" planBy="DELTA" timeRollup="LAST" timeWeightAcctId=""
levelDimRollup="SUM" levelDimWeightAcctId="" rollupText="" startExpanded="1" hasSalaryDetail=""
dataPrivacy="PRIVATE" isBreakbackEligible="" subType="CUMULATIVE" enableActuals="1" isGroup="0">
        <attributes>
          <attribute
            name="AP Eligible"
            attributeId="17"
            value="Yes"
            valueId="170" />
        </attributes>
      </account>
    </accounts>
  </output>
</response>
```

## Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message type="ERROR" key="invalid-account-id" values="441" accountId="-50">Invalid account id: "-50"</
message>
  </messages>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
Contents of the Element			
A single optional <code>messages</code> element and/or a single optional <code>output</code> element.			

output element	
Tag Name	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

messages element	
Tag Name	messages
Description	Container for one or more <code>message</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>message</code> elements.	

<b>message element</b>			
<b>Tag Name</b>	message		
<b>Description</b>	Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
type	Y	Type is a way to identify the type of message. The different types are INFO, WARNING and ERROR. Type ERROR means that this request was not processed.	WARNING
key	Y	A key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	warning-invalid-timespan-start
values	N	When given, the values represent variables used in the message text.	199,12
parentId	N	When available, the ID of the new account's parent that was supplied in the request.	50
<b>Contents of the Element</b>			
The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value that caused an error.			

<b>accounts element</b>	
<b>Tag Name</b>	accounts
<b>Description</b>	Container for one or more <code>account</code> elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more <code>account</code> elements.	

<b>account element</b>	
<b>Tag Name</b>	account

<b>Description</b>		Represents a single account being returned in the response to an <code>exportAccounts</code> API call. If this element is directly within the enclosing <code>accounts</code> element of the response (that is, it is not enclosed within another <code>account</code> element), this account element represents a <i>root account</i> , an account which has no parent.																																																																															
<b>Attributes of the Element</b>																																																																																	
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>																																																																														
name	Y	The name of the account, as it appears on reports and sheets.	Current Assets																																																																														
code	Y	The code of the account, as it appears when referenced in formulas.	Cur_Assets																																																																														
id	N	The internal system ID number for the account. This can be used to identify accounts in other API calls, such as <code>exportDimensionFamilies</code> .	16																																																																														
accountTypeCode	N	<p>The letter code corresponding to the data type of this account.</p> <table border="1"> <thead> <tr> <th>Type Code</th> <th>Account Type</th> <th>Account Class</th> </tr> </thead> <tbody> <tr><td>A</td><td>Asset</td><td>GL</td></tr> <tr><td>B</td><td>Current Asset</td><td>GL</td></tr> <tr><td>C</td><td>Liability &amp; Equity</td><td>GL</td></tr> <tr><td>CUBE</td><td>Cube</td><td>Cube</td></tr> <tr><td>EN</td><td>YTD Earnings/Loss</td><td>GL</td></tr> <tr><td>F</td><td>Fixed Asset</td><td>GL</td></tr> <tr><td>G</td><td>Cost of Goods Sold</td><td>GL</td></tr> <tr><td>I</td><td>Income</td><td>GL</td></tr> <tr><td>J</td><td>Non-Operating Income</td><td>GL</td></tr> <tr><td>K</td><td>Cumulative Translation Adjustment</td><td>System</td></tr> <tr><td>L</td><td>Liability</td><td>GL</td></tr> <tr><td>M</td><td>Current Liability</td><td>GL</td></tr> <tr><td>MI</td><td>Consolidation Percentages</td><td>Predefined</td></tr> <tr><td>MT</td><td>Metric</td><td>Metric</td></tr> <tr><td>N</td><td>Net Income</td><td>GL</td></tr> <tr><td>O</td><td>Other Asset</td><td>GL</td></tr> <tr><td>Q</td><td>Equity</td><td>GL</td></tr> <tr><td>R</td><td>Long Term Asset</td><td>GL</td></tr> <tr><td>S</td><td>Assumption</td><td>Assumption</td></tr> <tr><td>T</td><td>Long Term Liability</td><td>GL</td></tr> <tr><td>W</td><td>Modeled</td><td>Modeled</td></tr> <tr><td>X</td><td>Expense</td><td>GL</td></tr> <tr><td>XR</td><td>Exchange Rate</td><td>Predefined</td></tr> <tr><td>Y</td><td>Non-Operating Expenses</td><td>GL</td></tr> <tr><td>Z</td><td>Custom</td><td>Custom</td></tr> </tbody> </table>		Type Code	Account Type	Account Class	A	Asset	GL	B	Current Asset	GL	C	Liability & Equity	GL	CUBE	Cube	Cube	EN	YTD Earnings/Loss	GL	F	Fixed Asset	GL	G	Cost of Goods Sold	GL	I	Income	GL	J	Non-Operating Income	GL	K	Cumulative Translation Adjustment	System	L	Liability	GL	M	Current Liability	GL	MI	Consolidation Percentages	Predefined	MT	Metric	Metric	N	Net Income	GL	O	Other Asset	GL	Q	Equity	GL	R	Long Term Asset	GL	S	Assumption	Assumption	T	Long Term Liability	GL	W	Modeled	Modeled	X	Expense	GL	XR	Exchange Rate	Predefined	Y	Non-Operating Expenses	GL	Z	Custom	Custom
Type Code	Account Type	Account Class																																																																															
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XR	Exchange Rate	Predefined																																																																															
Y	Non-Operating Expenses	GL																																																																															
Z	Custom	Custom																																																																															

description	N	The textual description of the account, if any, as entered in Account Administration	Total current assets
shortName	N	The short name for the account, if any, as entered in Account Administration	CA
displayAs	N	The account's output display setting: <i>NUMBER</i> , <i>CURRENCY</i> , or <i>PERCENT</i> . Only provided for accounts that have a Display As property in Account Administration.	NUMBER
isAssumption	N	Either "0" or "1", indicating whether the account is an assumption. This is set to "1" for assumptions and exchange rate accounts.	1
suppressZeroes	N	Flag indicating whether the account allows users to suppress zeroes on sheets or not. 0 is disallowed, 1 is allowed. Only provided for accounts that have a Suppress Zeroes property in Account Administration.	1
isDefaultRoot	N	Either "0" or "1", indicating whether the account or account group is a default root.	1
decimalPrecision	N	Number of decimal places to display for numbers in this account. Default is 0. The special value of 99 is used to indicate a Linked Account that inherits the decimal precision of its target. A value of -1 means the account is a currency account and uses the precision of whichever currency it is displaying.	0
planBy	N	For Cumulative accounts, indicates whether the account is plan by balance ( <i>BALANCE</i> ) or plan by delta ( <i>DELTA</i> ).	BALANCE
exchangeRateType	N	Only present for accounts with displayAs="CURRENCY". Possible values: any of the exchange rate type codes present in the instance, as configured in Manage Currencies. "A"=Monthly Average, "E"=End of Month.	E
isImportable	N	Indicates whether the account is able to accept imported data. 0 means the account is not importable and 1 is importable. Only present if <code>versionName</code> or <code>versionId</code> is specified in the request.  Note: <code>isImportable</code> only indicates that an account is available for import in the specified version, not that the user making the API call has the permission to import into the version or account. Use <code>exportVersions</code> to see which versions are available to the user for import.	1
balanceType	N	Indicates the balance type of an account, <i>DEBIT</i> or <i>CREDIT</i> . This attribute is empty if the account does not have an associated balance type. Only GL accounts have a balance type.	DEBIT
dataEntryType	N	Indicates the data entry type of an account. Either <i>STANDARD</i> or <i>CUBE</i> . A blank value indicates that data entry type is not applicable to an account. For example, a linked account or a modeled account will have a blank data entry type.	CUBE
timeRollUp	N	Indicates how the account behaves when rolled up over a time period. Can be <i>SUM</i> , <i>WEIGHTED_AVERAGE</i> , <i>LAST</i> , or <i>AVERAGE</i> . This will be empty for account groups and metric accounts.	SUM

timeWeightAcctId	N	If this account has a timeRollup of <i>WEIGHTED_AVERAGE</i> , this will be the internal system id number of the account from where the weights are determined. This will be empty if no weight account exists or the account does not have a timeRollup of <i>WEIGHTED_AVERAGE</i> .	133
hasSalaryDetail	N	Either 0 or 1 to indicate whether this account has splits that require the Access Salary Detail permission to be viewed. This will be empty if not applicable to this account.	1
dataPrivacy	N	Indicates which levels the account's values are public on and able to be referenced in other levels when writing formulas. Can be <i>PRIVATE</i> so that the account's values are private, <i>PUBLIC_TOP</i> so that the account's values are public at only the top level, or <i>PUBLIC_ALL</i> so that the account's values are public at all levels. Assumptions do not have a dataPrivacy setting since they are always public.	PRIVATE
subType	N	Indicates whether the account is <i>PERIODIC</i> or <i>CUMULATIVE</i> . If an account is periodic, its value in a given month equals the net activity for the month. Examples include revenue and expense accounts. If an account is cumulative, its value equals the ending balance for a given month. This is the prior month's value plus or minus any activity in the given month. Balance sheet accounts are cumulative. This will be empty for account groups and metric accounts.	PERIODIC
startExpanded	N	This indicates whether an account and its children start out in an expanded state when first loading a sheet. This applies only for parent accounts. This will be empty for leaf accounts.	1
isBreakbackEligible	N	Either 0 or 1 to indicate whether this account can be used in a breakback. This applies only to standard assumptions. This will be empty for other types of accounts.	0
levelDimRollup	N	Indicates how the account behaves when rolled up along a level or dimension. Can be <i>SUM</i> , <i>WEIGHTED_AVERAGE</i> , <i>TEXT</i> , or <i>NONBLANK_AVERAGE</i> . This will be empty for account groups and metric accounts.	NONBLANK_AVERAGE
levelDim-WeightAcctId	N	If this account has a levelDimRollup of <i>WEIGHTED_AVERAGE</i> , this will be the internal system id number of the account from where the weights are determined. This will be empty if no weight account exists or the account's levelDimRollup is not <i>WEIGHTED_AVERAGE</i> .	118
rollupText	N	If this account has a levelDimRollup of <i>TEXT</i> , then this is the text string that will show up in the cell indicating the rolled up value of the account.	None
enableActuals	N	0 to show only plan data for the account. 1 to import actuals into the account. For linked accounts, 0 will show actuals only if the linked account has them, and 1 will enable actuals for the linked account. This will be empty for account groups and metric accounts.	1
isGroup	Y	0 or 1 to indicate whether this is an account group or not.	1
isIntercompany	N	0 or 1 to indicate whether this account is an intercompany account or not.	1

formula	N	The formula for the account, if it has one.	ACCT.Revenue - ACCT.Expenses
isLinked	N	0 or 1 to indicate whether this account is a linked account or not.	1
isSystem	N	0 or 1 to indicate whether this account is a system account or not.	1
owningSheetId	N	For accounts that can be on modeled and cube sheets, the internal system id number of the sheet that this account is on. This will be empty if it is not such an account, or if it is such an account but is not currently assigned to a sheet.	17
<b>Contents of the Element</b>			
One nested <code>account</code> element for each direct child account of this account. One <code>attributes</code> element if account has one or more attributes associated with it.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more <code>attribute</code> elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more <code>attribute</code> elements.			

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents a single non-blank account attribute mapping to which an account is associated.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	The name of the account attribute.	SEC Reporting
value	Y	The name of the account attribute associated with the account.	Yes
attributeId	Y	The internal system ID number of the account attribute.	10
valueId	Y	The internal system ID number of the account attribute value.	108
<b>Contents of the Element</b>			
None.			





## updateDimension

<b>Category</b>	Metadata modification
<b>Description</b>	Update a dimension. If successful, the API returns details for the dimension that has just been updated.
<b>Permissions Required To Invoke</b>	Model
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user. User must have Model permission to create the dimension.

The following conditions apply to this API:

- This method returns an error if there are unpublished changes.
- You cannot turn off listDimension if you have dimension attributes defined or values aren't all available in all versions.
- You cannot turn off listDimension if you have hierarchical dimensionValues.
- You cannot enable both useOnLevels and listDimension. (It is possible to turn one off and the other on in the same command.)

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="updateDimension" callerName="fred">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <dimension id="34"
    name="Updated Dimension Name"
  />
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

dimension element			
Tag Name	dimension		
Description	Specifies a dimension to create.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The id of the dimension being updated.	34
name	N	The name of the dimension. The name must be unique.	NewDimensionName
shortName	N	Displayable title of the column, as seen on the sheet.	NewDimensionShortName
listDimension	N	"1" means this is a list dimension, "0" (or not specified) means it isn't.	0
useOnLevels	N	"1" means this dimension can be used on levels, "0" (or not specified) means it can't.	0
autoCreate	N	"1" means values for this dimension can be created via the import, "0" (or not specified) means they can't.	0
keepSorted	N	"1" means values for this dimension are always sorted alphabetically, "0" (or not specified) means they can be manually ordered.	0
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
```

```

<response success="true">
  <output>
    <dimensions>
      <dimension id="41" name="New Dimension Name" shortName="" autoCreate="0" listDimension="0"
keepSorted="0" useOnLevels="0">
    </dimension>
  </dimensions>
</output>
</response>

```

dimensions element	
<b>Tag Name</b>	dimensions
<b>Description</b>	Container for one or more dimension elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more dimension elements.	

dimension element			
<b>Tag Name</b>	dimension		
<b>Description</b>	Represents a single custom dimension being returned in the response to an exportDimensions API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the dimension. This can be used to identify dimensions in other API calls, such as exportDimensionFamilies.	16
name	Y	The name of the dimension, as it appears on reports and sheets.	Customer
shortName	N	The short name for the dimension, if any, as entered in Dimension Administration	cust.
autoCreate	Y	1 if the selected dimension has the "Data import automatically creates dimension values" field set; 0 otherwise.	0
listDimension	Y	1 if the selected dimension is list dimension; 0 otherwise.	1
keepSorted	Y	1 if the selected dimension is kept sorted, 0 otherwise.	1
useOnLevels	Y	1 if the selected dimension can be used on levels, 0 otherwise.	1
Contents of the Element			
Zero or more dimensionValue elements. Each enclosed dimensionValue element represents a "root dimension value" in the dimension, a value which has no parent value.			

dimensionValue element			
<b>Tag Name</b>	dimensionValue		
<b>Description</b>	Represents a single member value of a custom dimension being returned in the response to an exportDimensions API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for this member value of the dimension.	34
name	Y	The label for the member value of the dimension, as displayed on reports and used in formulas.	A Corp
shortName	N	The short name for the dimension value, if any, as entered in Dimension Administration	A
description	N	The description of the dimension value, if any, as entered in Dimension Administration	A Corporation
Contents of the Element			
Zero or more optional dimensionValue elements. Each enclosed dimensionValue element represents a "child dimension value" of this dimension value, whose members implicitly roll up to this value.			

attributes element			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more dimension attribute elements.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
(none)			
Contents of the Element			
One or more attribute elements.			

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one dimension attribute element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the dimension attribute generated by system.	20
name	Y	The name of the dimension attribute	Education Type

valueID	Y	The unique id of the dimension attribute value generated by system.	170
value	Y	The value of the dimension attribute.	Tech1
<b>Contents of the Element</b>			
(none)			

## updateDimensionValue

<b>Category</b>	Metadata modification
<b>Description</b>	Update a dimension value. If successful, the API returns details for the dimension and all dimension values including the one that has just been updated.
<b>Permissions Required To Invoke</b>	Model
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user. User must have Model permission to create the dimension.

This method returns an error if there are unpublished changes.

### Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="updateDimensionValue" callerName="fred">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <dimensionValue
    id="10"
    name="New Dimension Value">
    <attributes>
      <attribute attributeId="20" valueId="170" />
    </attributes>
  </dimensionValue>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>dimensionValue element</b>			
<b>Tag Name</b>	dimensionValue		
<b>Description</b>	Specifies a dimension value to update.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
dimensionId	N	The id of the dimension to which the value belongs.	3
id	Y	The id of the dimension value.	34
name	Y	The name of the dimension value.	NewDimensionValue
shortName	N	The short name of the dimension value.	NewDimensionValue-ShortName
parentId	N	The id of the parent dimension value.	220
description	N	The description of the dimension value.	This is a NewDimensionValue
<b>Contents of the Element</b>			
(none)			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more dimension attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			

Contents of the Element
One or more attribute elements.

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one dimension attribute element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the dimension attribute generated by system.	20
valueID	Y	The unique id of the dimension attribute value generated by system. If this value is 0 then this attribute is removed from the account.	170
Contents of the Element			
(none)			

## Response Format

These are examples of responses for successful and unsuccessful updating of a dimension value.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <dimensions>
      <dimension id="6" name="Department" shortName="" autoCreate="0" listDimension="0" keepSorted="0"
useOnLevels="1">
        <dimensionValue id="7" name="Engr" description="Engineering" shortName="">
          <dimensionValue id="52" name="QA" description="Quality Assurance" shortName="" />
          <dimensionValue id="53" name="Dev" description="Development" shortName="" /></dimensionValue>
        </dimension>
      <dimension id="7" name="Education" shortName="" autoCreate="0" listDimension="1" keepSorted="0"
useOnLevels="0">
        <dimensionValue id="32" name="Graduate" description="Graduate degree" shortName="">
          <attributes>
            <attribute attributeId="21" name="Education Type" valueId="197" value="Tech1" />
          </attributes>
        </dimensionValue>
        <dimensionValue id="33" name="Masters" description="Masters degree" shortName="">
          <attributes>
            <attribute attributeId="21" name="Education Type" valueId="196" value="Management" />
          </attributes>
        </dimensionValue>
        <dimensionValue id="34" name="Phd" description="Phd" shortName="" />
      </dimension>
    </dimensions>
  </output>
</response>
```



## Error Example

```

</response>
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message type="ERROR" key="invalid-attributevalueid" values="-50" dimensionValueId="10">Invalid attribute
value id: "-50"</message>
  </messages>
</response>

```

Dimensions are ordered by name.

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
obsolete	N	If present on the response tag and set to <code>true</code> , this attribute indicates that the version of the method or API which is being invoked has become obsolete and is officially deprecated by Adaptive Planning. While it continues to function at this time, it may cease functioning in a short while. Typically, this attribute is not present.	<code>false</code>
Contents of the Element			
A single optional <code>messages</code> element, and exactly one required <code>output</code> element.			

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single <code>accounts</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

dimensions element	
<b>Tag Name</b>	dimensions
<b>Description</b>	Container for one or more <code>dimension</code> elements.
Attributes of the Element	

(none)
<b>Contents of the Element</b>
One or more dimension elements.

<b>dimension element</b>			
<b>Tag Name</b>	dimension		
<b>Description</b>	Represents a single custom dimension being returned in the response to an exportDimensions API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for the dimension. This can be used to identify dimensions in other API calls, such as exportDimensionFamilies.	16
name	Y	The name of the dimension, as it appears on reports and sheets.	Customer
shortName	N	The short name for the dimension, if any, as entered in Dimension Administration	cust.
autoCreate	Y	1 if the selected dimension has the "Data import automatically creates dimension values" field set; 0 otherwise.	0
listDimension	Y	1 if the selected dimension is list dimension; 0 otherwise.	1
keepSorted	Y	1 if the selected dimension is kept sorted, 0 otherwise.	1
useOnLevels	Y	1 if the selected dimension can be used on levels, 0 otherwise.	1
<b>Contents of the Element</b>			
Zero or more dimensionValue elements. Each enclosed dimensionValue element represents a "root dimension value" in the dimension, a value which has no parent value.			

<b>dimensionValue element</b>			
<b>Tag Name</b>	dimensionValue		
<b>Description</b>	Represents a single member value of a custom dimension being returned in the response to an exportDimensions API call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
id	Y	The internal system ID number for this member value of the dimension.	34
name	Y	The label for the member value of the dimension, as displayed on reports and used in formulas.	A Corp

shortName	N	The short name for the dimension value, if any, as entered in Dimension Administration	A
description	N	The description of the dimension value, if any, as entered in Dimension Administration	A Corporation
<b>Contents of the Element</b>			
Zero or more optional dimensionValue elements. Each enclosed dimensionValue element represents a "child dimension value" of this dimension value, whose members implicitly roll up to this value.			

<b>attributes element</b>			
<b>Tag Name</b>		attributes	
<b>Description</b>		Container for one or more dimension attribute elements.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more attribute elements.			

<b>attribute element</b>			
<b>Tag Name</b>		attribute	
<b>Description</b>		Container for one dimension attribute element.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the dimension attribute generated by system.	20
name	Y	The name of the dimension attribute	Education Type
valueID	Y	The unique id of the dimension attribute value generated by system.	170
value	Y	The value of the dimension attribute.	Tech1
<b>Contents of the Element</b>			
(none)			

## updateLevel

<b>Category</b>	Metadata modification
<b>Description</b>	Update a level. If successful, the API returns details for the level that has just been updated.
<b>Permissions Required To Invoke</b>	Organization Structure
<b>Parameters Required On Request</b>	Credentials

This method's request contains a credentials tag to identify and authorize the calling user. User must have Organization Structure permission to create the level.

This method returns an error if there are unpublished changes.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="updateLevel" callerName="fred">
  <credentials login="sampleuser@company.com" password="my_pwd" />
  <level
    id="41"
    name="New Level Name"
    shortName="NewLvlName"
  >
    <attributes>
      <attribute attributeId="20" valueId="199" />
    </attributes>
  </level>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password

locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>level element</b>			
<b>Tag Name</b>	level		
<b>Description</b>	Specifies a level to update.		
<b>Attributes of the Element</b>			
id	Y	The ID of the level to be updated.	34
name	Y	The name of the level. The name must be unique.	New Level Name
shortName	N	The short name of the level.	NewLvName
proceed- WithWarnings	N	Indicates whether the user wants to ignore warning messages and go ahead with the create operation. 0 for no, 1 for yes. If there are warnings and proceedWithWarnings=0, then the level will not be created. Set proceed- WithWarnings=1 to create the level when there are warnings.	1
<b>Contents of the Element</b>			
One optional attributes element if you want to set one or more level attributes associated with the level.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more level attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			

Contents of the Element
One or more <code>attribute</code> elements.

attribute element			
<b>Tag Name</b>	attribute		
<b>Description</b>	Container for one level <code>attribute</code> element.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
attributeID	Y	The id of the level attribute generated by system.	20
valueID	Y	The unique id of the level attribute value generated by system. If this value is 0 then this attribute is removed from the account.	170
Contents of the Element			
(none)			

## Response Format

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <output>
    <levels>
      <level="41" name="New Level Name" shortName="NewLvlName" currency="USD">
        <attribute attributeId="20" name="Regional Code" valueId="199" value="A-145" />
      </level>
    </levels>
  </output>
</response>
```

output element	
<b>Tag Name</b>	output
Attributes of the Element	
(none)	
Contents of the Element	
A single required <code>level</code> element. This <code>output</code> wrapper is standard on all API responses and encloses the valid output of any successful API call.	

levels element	
<b>Tag Name</b>	level
<b>Description</b>	Container for one or more <code>level</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>level</code> elements. If the request includes inaccessible levels, there will be only one level element, which represents the top level of the organization.	

level element			
<b>Tag Name</b>	level		
<b>Description</b>	Represents a single organization level being returned in the response to an <code>exportLevels</code> API call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
<code>id</code>	Y	The internal system ID number for the level.	7
<code>name</code>	Y	The name of the level, as it appears on reports and sheets.	Development
<code>currency</code>	Y	The currency code for the currency assigned to this level of the organization. The currency will be one of the configured currencies for the instance, found in the <code>exportActiveCurrencies</code> call.	INR
<code>shortName</code>	N	The abbreviation for the level, if any, as entered in Organization Administration.	Dev
<code>availableStart</code>	N	The start date for the availability of the level for actuals version, applicable only when the Actuals version is specified in the request. The value can be either a specific month, in the format "MM/YYYY", or the special value "START" indicating the start of the version.	01/2013
<code>availableEnd</code>	N	The end date for the availability of the level for actuals version, applicable only when the Actuals version is specified in the request. The value can be either a specific month, in the format "MM/YYYY", or the special value "END" indicating the end of the version.	12/2013

isImportable	N	Indicates if the associated level is importable in the specified version. '0' means it is not importable and '1' means it is importable. A level is importable if at least one timeslot in the specified version is importable. isImportable attribute is only emitted if versionName or versionID is specified in the request.  Note: isImportable only indicates that a level is available for import in the specified version, not that the user making the API call has the permission to import into the version or level. Use exportVersions to see which versions are available to the user for import.	1
workflowStatus	N	Emits the workflow status for the associated level. I for "In Progress", S for "Submitted", R for "Rejected", A for "Approved" and L for "Locked". Only included in the response if workflow is enabled for this company, and a planning versionName or versionID is specified in the request. Workflow is not available on actuals versions.	I
isLinked	Y	Indicates whether the level is a linked level. 0 for no, 1 for yes.	1
isElimination	Y	Indicates whether the level is an elimination level. 0 for no, 1 for yes.	0
<b>Contents of the Element</b>			
One nested level element for each direct child level of this level. One attributes element if this level has one or more attributes associated with it.			

<b>attributes element</b>			
<b>Tag Name</b>	attributes		
<b>Description</b>	Container for one or more attribute elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
(none)			
<b>Contents of the Element</b>			
One or more attribute elements.			

<b>attribute element</b>			
<b>Tag Name</b>	attribute		
<b>Description</b>	Represents a single non-blank level attribute mapping to which a level is associated.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
name	Y	The name of the level attribute	Corporate Discount



value	Y	The value of the level attribute associated with the level.	Yes
attributeID	Y	The internal system id number of the level attribute.	20
valueID	Y	The internal system id number of the level attribute value.	188
<b>Contents of the Element</b>			
(none)			

## updateUser

<b>Category</b>	Metadata modification
<b>Description</b>	Update a user(s). If successful, the API will return a message for the user that has just been updated.
<b>Permissions Required To Invoke</b>	User Permission
<b>Parameters Required On Request</b>	Credentials

This method's request contains a *credentials* tag to identify and authorize the calling user. User must have "User Permission" permission to update the user(s).

### Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="updateUser" callerName="a string that identifies your client application"
  <credentials login="sampleuser@company.com" password="my_password" />
  <users>
    <user
      guid="B9ADBCB81AA2F9BAE040307F02092C2E"
      email="updateMail@company.com"
      name="update name"
      password="new Password"
      roleId="1"
      ownedLevels="2,3,7,11"
      timeZone="America/Mexico_City"
    />
  </users>
</call>
```

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <i>credentials</i> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password







## Chapter 3: Data Submission Methods

### importConfigurableModelData

<b>Category</b>	Data submission
<b>Description</b>	Inserts or replaces data in a modeled sheet.
<b>Permissions Required To Invoke</b>	Import
<b>Parameters Required On Request</b>	Credentials, ImportDataOptions, Version, Sheet, RowData

This method's request contains the parameters that will be used to determine which sheet and which version will receive the supplied rows of data. This method can either replace all rows currently on the modeled sheet with the import or append the new rows onto the sheet.

### Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="importConfigurableModelData" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd" instanceCode="INSTANCE1"/>
  <importDataOptions planOrActuals="Plan" allowParallel="false" moveBPtr="false" useMappings="false"/>
  <version name="Budget 2012" isDefault="false" />
  <sheet name="Personnel" isUserAssigned="false" />
  <rowData>
    <header>Level|Region|Title|JobCode|Benefits|per|Last Name|First Name|ID|Start|End|Hr/Week|Pay Rate|Pay Rate
    Display Column</header>
    <rows>
      <row>Corporate Plan|Any|CEO|E1|Yes|Yr|Topdog|Andy|1000|12/20/2000|12/30/2012|80|500,000.12|888,888</row>
    </rows>
  </rowData>
</call>
```

Each invocation of this API call *must* contain exactly one element of each of the listed types:

- credentials
- importDataOptions
- version
- sheet
- rowData

credentials element	
<b>Tag Name</b>	credentials

<b>Description</b>		All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.	
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, <code>en_US</code> (American English) is used.	fr_FR
instanceCode	N	If the user specified in the <code>credentials</code> has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the <code>exportInstances</code> API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>importDataOptions element</b>			
<b>Tag Name</b>	importDataOptions		
<b>Description</b>	Specifies the options to be used when performing the import.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
planOrActuals	Y	Set to one of <code>Plan</code> or <code>Actuals</code> to specify the type of data being imported. If this setting is in conflict with the version specified in the <code>Version</code> tag, the <code>Version</code> tag's value takes precedence and this setting is ignored.	Plan
moveBPtr	N	Used only when the data being imported has a set of monthly numbers of each row. If <code>moveBPtr</code> is set to <code>true</code> , the import will move the actuals availability pointer in the actuals version to be the latest month found in the imported data. If set to <code>false</code> , the import will not affect which months show actuals on any version. This attribute must be set to <code>false</code> if <code>planOrActuals</code> is set to <code>Plan</code> .	false

allowParallel	Y	If set to <code>true</code> , then an import will proceed even if there is already another actuals or transactions import in process for this instance. If set to <code>false</code> , then an attempt to import will fail if there is already an actuals or transactions import being processed for this instance.	<code>false</code>
useMappings	N	Specifies whether to use import mappings for accounts, plans and dimension values inside the row elements. Considered <code>true</code> by default. If <code>false</code> then the internal identifiers should be used: accounts are identified by code, levels and dimension values by name.	<code>false</code>
replaceExisting	N	Set to “ <code>true</code> ” to replace all existing rows on the modeled sheet being imported with the new rows being imported (i.e. erase all previously existing rows). Set to “ <code>false</code> ” to append the imported rows to the existing rows, even if the new rows are duplicates. Default value is <code>true</code> .	<code>true</code>
includeContext	N	Specifies whether messages may include the context block. Values are <code>false</code> (never show context) or <code>true</code> (show context if appropriate). If not specified, <code>true</code> is assumed.	<code>false</code>
Contents of the Element			
(none)			

version element			
<b>Tag Name</b>	version		
<b>Description</b>	Indicates which version should be used to receive the requested data. A version must be provided for each call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	N	The name of the version to be used to receive the data. Only one version can be accessed within a single API call. If a name is not provided, the <code>isDefault</code> flag must be set to <code>true</code> on this element.	Budget 2012
isDefault	N	If the caller wishes to access the current default version of the instance regardless of its name, this attribute can be set to <code>true</code> , in which case the name attribute of the tag (if present) is ignored. Otherwise, if this value is <code>false</code> or if this attribute is not present, a version with the supplied name must exist and be accessible to the user in order for this call to succeed.	<code>false</code>
Contents of the Element			
(none)			

sheet element	
<b>Tag Name</b>	sheet
<b>Description</b>	Indicates which sheet should receive the imported data. Each API call can target only one sheet's data.



Attributes of the Element			
Attribute Name	Required?	Value	Example
name	Y	The name of the sheet to which the data will be imported.	Personnel
isUserAssigned	N	Indicates whether the sheet is a User-Assigned sheet (found on the Assumptions screen) or not (and therefore found on the Sheets screen). If not specified defaults to false.	false
Contents of the Element			
(none)			

rowData element	
<b>Tag Name</b>	rowData
<b>Description</b>	Container for the rows of data being imported.
Attributes of the Element	
(none)	
Contents of the Element	
Exactly one <code>header</code> element and exactly one <code>rows</code> element.	

header element	
<b>Tag Name</b>	header
<b>Description</b>	Specifies the names and order of the columns of the data in the corresponding <code>rows</code> element.
Attributes of the Element	
(none)	
Contents of the Element	
A line of text with vertical-bar-separated column names. These column names must correspond to the names of the dimensions or fields on the sheet, or to months that can contain data. They are identical to the column names found in the Import Template for the sheet to which the data is being imported, with each column header separated from the next by a vertical bar or "pipe symbol."	

rows element	
<b>Tag Name</b>	rows
<b>Description</b>	Container for one or more <code>row</code> elements.
Attributes of the Element	
(none)	

Contents of the Element
One or more <code>row</code> elements.

row element	
<b>Tag Name</b>	row
<b>Description</b>	Data for a single row being imported.
Attributes of the Element	
(none)	
Contents of the Element	
Data for the fields in a single row being imported, each field's value separated by a vertical bar or "pipe symbol." The data fields must be in the same order as the line in the header element. If numbers in the values use thousands separators, they are assumed to be the comma separators used in the locale specified in the credentials of the request.	

## Response Format

These are examples of responses for successful and unsuccessful importing of data.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message key="modeled-import-success">Personnel import successful. Rows imported: 1</message>
    <message key="modeled-import-replace">All existing rows were replaced.</message>
  </messages>
</response>
```

### Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message key="error-numeric-value-expected">
      <context>
        <col header="Account" value="GL-29482-38233" />
        <col header="Level" value="GL-29482-38234" />
        <col header="Split Label" value="" />
        <col header="Product" value="Toothpaste" />
        <col header="Region" value="Americas" />
        <col header="Nov-2013" value="2037" />
        <col header="Jan-2014" value="aaa" />
      </context>
      Numeric value expected on row 1 col 7 instead of aaa.
    </message>
  </messages>
```

&lt;/response&gt;

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
Contents of the Element			
A single optional <code>messages</code> element.			

messages element	
<b>Tag Name</b>	messages
<b>Description</b>	Container for one or more <code>message</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>message</code> elements.	

message element			
<b>Tag Name</b>		message	
<b>Description</b>		Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.	
Attributes of the Element			
Attribute Name	Required?	Value	Example
key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	<code>invalid-attributevalueid</code>

<b>Contents of the Element</b>
<p>1. The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value that caused an error.</p> <p>2. An optional context element.</p>

<b>context element</b>			
<b>Tag Name</b>	context		
<b>Description</b>	Container for one or more <i>col</i> elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
none			
<b>Contents of the Element</b>			
One or more <i>col</i> elements.			

<b>col element</b>			
<b>Tag Name</b>	col		
<b>Description</b>	Represents the context for the message. Gives a header/value pair so the row generating the message can be identified.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
header	Y	The header of the column.	"Account "
value	Y	The value in the column.	"GL-29482-38233 "
<b>Contents of the Element</b>			
(none)			

## importCubeData

<b>Category</b>	Data submission
<b>Description</b>	Inserts or replaces data in a cube sheet. This method can also be used to delete data from a cube sheet by importing zeroes to locations in the cube. Importing a zero into a cube sheet will erase the data at the location of the zero.
<b>Permissions Required To Invoke</b>	Import
<b>Parameters Required On Request</b>	Credentials, ImportDataOptions, Version, Sheet, RowData

This method's request contains the parameters that will be used to determine which sheet and which version will receive the supplied rows of data. This method can also be used to delete data from a cube sheet by importing zeroes to locations in the cube. Importing a zero into a cube sheet will erase the data at the location of the zero.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="importCubeData" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd" instanceCode="INSTANCE1"/>
  <importDataOptions planOrActuals="Plan" allowParallel="false" moveBPtr="false"/>
  <version name="Budget 2010" isDefault="false" />
  <sheet name="Sales Cube" isUserAssigned="false" />
  <rowData>
    <header>ProductFurniture|CountryRegion|FabricationMachine|Customer|Account|Level|Jun-2012|Jul-2012|Aug-
    2012|Sep-2012|Jan-2013</header>
    <rows>
      <row>Coffee table|Argentina|Do-All 15 Vertical|Aeropostale|Price|Corporate Plan|0|0|0|0|0</row>
    </rows>
  </rowData>
</call>
```

Each invocation of this API call *must* contain exactly one element of each of the listed types:

- credentials
- importDataOptions
- version
- sheet
- rowData

credentials element	
<b>Tag Name</b>	credentials
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.

Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

importDataOptions element			
<b>Tag Name</b>	importDataOptions		
<b>Description</b>	Specifies the options to be used when performing the import.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
planOrActuals	Y	Set to one of "Plan" or "Actuals" to specify the type of data being imported. If this setting is in conflict with the version specified in the Version tag, the Version tag's value takes precedence and this setting is ignored.	Plan
moveBPtr	N	Used only when the planOrActuals attribute is set to Actuals. If moveBPtr is set to true, the import will move the actuals availability pointer in the actuals version to be the latest month found in the imported data. If set to false, the import will not affect which months show actuals on any version. This attribute must be set to false if planOrActuals is set to Plan.	false

allowParallel	Y	Used only when the <code>planOrActuals</code> attribute is set to <code>Actuals</code> . If set to <code>true</code> , then an import will proceed even if there is already another actuals or transactions import in process for this instance. If set to <code>false</code> , then an attempt to import will fail if there is already an actuals or transactions import being processed for this instance.	false
useMappings	N	Specifies whether to use import mappings for accounts, plans and dimension values inside the row elements. Considered <code>true</code> by default. If <code>false</code> then the internal identifiers should be used: accounts are identified by code, levels and dimension values by name.	false
includeContext	N	Specifies whether messages may include the context block. Values are <code>false</code> (never show context) or <code>true</code> (show context if appropriate). If not specified, <code>true</code> is assumed.	false
Contents of the Element			
(none)			

version element			
<b>Tag Name</b>	version		
<b>Description</b>	Indicates which version should be used to receive the requested data. A version must be provided for each call.		
Attributes of the Element			
Attribute Name	Required?	Value	Example
name	N	The name of the version to be used to receive the data. Only one version can be accessed within a single API call. If a name is not provided, the <code>isDefault</code> flag must be set to <code>true</code> on this element.	Budget 2012
isDefault	N	If the caller wishes to access the current default version of the instance regardless of its name, this attribute can be set to <code>true</code> , in which case the name attribute of the tag (if present) is ignored. Otherwise, if this value is <code>false</code> or if this attribute is not present, a version with the supplied name must exist and be accessible to the user in order for this call to succeed.	false
Contents of the Element			
(none)			

sheet element			
<b>Tag Name</b>	sheet		
<b>Description</b>	Indicates which sheet should receive the imported data. Each API call can target only one sheet's data.		
Attributes of the Element			
Attribute Name	Required?	Value	Example

name	Y	The name of the sheet to which the data will be imported.	Personnel
isUserAssigned	N	Indicates whether the sheet is a User-Assigned sheet (found on the Assumptions screen) or not (and therefore found on the Sheets screen). If not specified defaults to false.	false
<b>Contents of the Element</b>			
(none)			

<b>rowData element</b>	
<b>Tag Name</b>	rowData
<b>Description</b>	Container for the rows of data being imported.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
Exactly one <code>header</code> element and exactly one <code>rows</code> element.	

<b>header element</b>	
<b>Tag Name</b>	header
<b>Description</b>	Specifies the names and order of the columns of the data in the corresponding <code>rows</code> element.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
A line of text with vertical-bar-separated column names. These column names must correspond to the names of the dimensions or fields on the sheet, or to months that can contain data. They are identical to the column names found in the Import Template for the sheet to which the data is being imported, with each column header separated from the next by a vertical bar or "pipe symbol."	

<b>rows element</b>	
<b>Tag Name</b>	rows
<b>Description</b>	Container for one or more <code>row</code> elements.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
One or more <code>row</code> elements.	



row element	
<b>Tag Name</b>	row
<b>Description</b>	Data for a single row being imported.
Attributes of the Element	
(none)	
Contents of the Element	
Data for the fields in a single row being imported, each field's value separated by a vertical bar or "pipe symbol." The data fields must be in the same order as the line in the header element. If numbers in the values use thousands separators, they are assumed to be the comma separators used in the locale specified in the credentials of the request.	

## Response Format

These are examples of responses for successful and unsuccessful importing of cube data.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message key="warning-no-data-imported-dimension-unmapped">Warning: Row 3 was not imported because Coffee table is unmapped.</message>
  </messages>
</response>
```

### Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message key="error-numeric-value-expected">
      <context>
        <col header="Account" value="GL-29482-38233" />
        <col header="Level" value="GL-29482-38234" />
        <col header="Split Label" value="" />
        <col header="Product" value="Toothpaste" />
        <col header="Region" value="Americas" />
        <col header="Nov-2013" value="2037" />
        <col header="Jan-2014" value="aaa" />
      </context>
      Numeric value expected on row 1 col 7 instead of aaa.
    </message>
  </messages>
</response>
```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either <code>true</code> or <code>false</code> , indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	<code>true</code>
Contents of the Element			
A single optional <code>messages</code> element.			

messages element	
<b>Tag Name</b>	messages
<b>Description</b>	Container for one or more <code>message</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>message</code> elements.	

message element			
<b>Tag Name</b>		message	
<b>Description</b>		Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.	
Attributes of the Element			
Attribute Name	Required?	Value	Example
key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	<code>invalid-attributevalueid</code>
Contents of the Element			
<ol style="list-style-type: none"> <li>1. The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value that caused an error.</li> <li>2. An optional context element.</li> </ol>			

context element			
<b>Tag Name</b>		context	
<b>Description</b>		Container for one or more <i>col</i> elements.	
Attributes of the Element			
Attribute Name	Required?	Value	Example
none			
Contents of the Element			
One or more <i>col</i> elements.			

col element			
<b>Tag Name</b>		col	
<b>Description</b>		Represents the context for the message. Gives a header/value pair so the row generating the message can be identified.	
Attributes of the Element			
Attribute Name	Required?	Value	Example
header	Y	The header of the column.	"Account "
value	Y	The value in the column.	"GL-29482-38233 "
Contents of the Element			
(none)			

## importStandardData

<b>Category</b>	Data submission
<b>Description</b>	Inserts or replaces data in standard accounts.
<b>Permissions Required To Invoke</b>	Import
<b>Parameters Required On Request</b>	Credentials, ImportDataOptions, Version, RowData

This method's request contains the parameters that will be used to determine which version will receive the supplied rows of data. Data can be imported into any standard account (GL Account, Custom Account, Assumption, or Exchange Rate) regardless of whether the account has been placed onto a sheet.

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="importStandardData" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd" instanceCode="INSTANCE1"/>
  <importDataOptions planOrActuals="Plan" allowParallel="false" moveBPtr="false" useMappings="true" />
  <version name="Actuals" isDefault="false" />
  <rowData>
    <header>Account|Level|Split Label|Product|Region|Nov-2013|Jan-2014</header>
    <rows>
      <row>X710|Corporate Plan||Toothpaste|Americas|2037|4032</row>
    </rows>
  </rowData>
</call>
```

Each invocation of this API call *must* contain exactly one element of each of the listed types:

- credentials
- importDataOptions
- version
- rowData
  - header
  - rows

credentials element	
<b>Tag Name</b>	credentials
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.
Attributes of the Element	

Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>importDataOptions element</b>			
<b>Tag Name</b>	importDataOptions		
<b>Description</b>	Specifies the options to be used when performing the import.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
planOrActuals	Y	Set to one of "Plan" or "Actuals" to specify the type of data being imported. If this setting is in conflict with the version specified in the Version tag, the Version tag's value takes precedence and this setting is ignored.	Plan
moveBPtr	N	Used only when the planOrActuals attribute is set to Actuals. If moveBPtr is set to true, the import will move the actuals availability pointer in the actuals version to be the latest month found in the imported data. If set to false, the import will not affect which months show actuals on any version. This attribute must be set to false if planOrActuals is set to Plan.	false
allowParallel	Y	Used only when the planOrActuals attribute is set to Actuals. If set to true, then an import will proceed even if there is already another actuals or transactions import in process for this instance. If set to false, then an attempt to import will fail if there is already an actuals or transactions import being processed for this instance.	false

<code>useMappings</code>	N	Specifies whether to use import mappings for accounts, plans and dimension values inside the row elements. Considered <code>true</code> by default. If <code>false</code> then the internal identifiers should be used: accounts are identified by code, levels and dimension values by name.	<code>false</code>
<code>includeContext</code>	N	Specifies whether messages may include the context block. Values are <code>false</code> (never show context) or <code>true</code> (show context if appropriate). If not specified, <code>true</code> is assumed.	<code>false</code>
<b>Contents of the Element</b>			
(none)			

version element			
<b>Tag Name</b>	version		
<b>Description</b>	Indicates which version should be used to receive the requested data. A version must be provided for each call.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
<code>name</code>	N	The name of the version to be used to receive the data. Only one version can be accessed within a single API call. If a name is not provided, the <code>isDefault</code> flag must be set to <code>true</code> on this element.	Budget 2012
<code>isDefault</code>	N	If the caller wishes to access the current default version of the instance regardless of its name, this attribute can be set to <code>true</code> , in which case the name attribute of the tag (if present) is ignored. Otherwise, if this value is false or if this attribute is not present, a version with the supplied name must exist and be accessible to the user in order for this call to succeed.	<code>false</code>
<b>Contents of the Element</b>			
(none)			

rowData element	
<b>Tag Name</b>	rowData
<b>Description</b>	Container for the rows of data being imported.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
Exactly one <code>header</code> element and exactly one <code>rows</code> element.	

header element	
<b>Tag Name</b>	header
<b>Description</b>	Specifies the names and order of the columns of the data in the corresponding <code>rows</code> element.
Attributes of the Element	
(none)	
Contents of the Element	
A line of text with vertical-bar-separated column names. These column names must correspond to the names of the dimensions or fields on the sheet, or to months that can contain data. They are identical to the column names found in the Import Template for the sheet to which the data is being imported, with each column header separated from the next by a vertical bar or "pipe symbol."	

rows element	
<b>Tag Name</b>	rows
<b>Description</b>	Container for one or more <code>row</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>row</code> elements.	

row element	
<b>Tag Name</b>	row
<b>Description</b>	Data for a single row being imported.
Attributes of the Element	
(none)	
Contents of the Element	
Data for the fields in a single row being imported, each field's value separated by a vertical bar or "pipe symbol." The data fields must be in the same order as the line in the header element. If numbers in the values use thousands separators, they are assumed to be the comma separators used in the locale specified in the credentials of the request.	

## Response Format

These are examples of responses for successful and unsuccessful importing of standard account data.

## Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message key="warning-no-data-imported-account-unmapped">Warning: No data was imported for
      import account (Hotel) and import level (Invalid2) because the account or the level is unmapped. </
message>
  </messages>
</response>
```

## Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message key="error-numeric-value-expected">
      <context>
        <col header="Account" value="GL-29482-38233" />
        <col header="Level" value="GL-29482-38234" />
        <col header="Split Label" value="" />
        <col header="Product" value="Toothpaste" />
        <col header="Region" value="Americas" />
        <col header="Nov-2013" value="2037" />
        <col header="Jan-2014" value="aaa" />
      </context>
      Numeric value expected on row 1 col 7 instead of aaa.
    </message>
  </messages>
</response>
```

response element			
<b>Tag Name</b>		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true
Contents of the Element			
A single optional messages element.			

messages element	
<b>Tag Name</b>	messages
<b>Description</b>	Container for one or more message elements.
Attributes of the Element	
(none)	



<b>Contents of the Element</b>
One or more <code>message</code> elements.

<b>message element</b>			
<b>Tag Name</b>	message		
<b>Description</b>	Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	invalid-attributevalueid
<b>Contents of the Element</b>			
1. The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value that caused an error.			
2. An optional context element.			

<b>context element</b>			
<b>Tag Name</b>	context		
<b>Description</b>	Container for one or more <code>col</code> elements.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
none			
<b>Contents of the Element</b>			
One or more <code>col</code> elements.			

<b>col element</b>	
<b>Tag Name</b>	col
<b>Description</b>	Represents the context for the message. Gives a header/value pair so the row generating the message can be identified.
<b>Attributes of the Element</b>	

<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
header	Y	The header of the column.	"Account "
value	Y	The value in the column.	"GL-29482-38233 "
<b>Contents of the Element</b>			
(none)			

## importTransactions

<b>Category</b>	Data submission
<b>Description</b>	Inserts new transactions.
<b>Permissions Required To Invoke</b>	Import
<b>Parameters Required On Request</b>	Credentials, ImportTransactionsOptions, RowData

This method only applies to customers who have purchased the optional Transactions module for Adaptive Planning or Adaptive Consolidation. This method can be used to delete existing transaction rows which match certain criteria, to insert new transaction rows into the system, or to do both actions in one invocation (i.e. replace a set of transaction rows with another set of rows).

## Request Format

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="importTransactions" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_pwd" instanceCode="INSTANCE1"/>
  <importTransactionsOptions allowParallel="false" useMappings="false"/>
  <rowData>
    <header>Posting Date|Transaction Type|Account|Level|Transaction Amount|Product|Description|Sales Tax</
header>
    <rows>
      <row>01/02/2012|Invoice|Hotels|Marketing|100|A|A|10</row>
      <row>11/2/2011|Invoice|GL-29482-38279|Sales|100|A|A|10</row>
    </rows>
  </rowData>
</call>
```

Each invocation of this API call must contain exactly one element of each of the listed types:

- credentials
- importTransactionsOptions
- rowData

credentials element			
<b>Tag Name</b>	credentials		
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.		
Attributes of the Element			
Attribute Name	Required?	Value	Example

login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
<b>Contents of the Element</b>			
(none)			

<b>importTransactionsOptions element</b>			
<b>Tag Name</b>	importTransactionsOptions		
<b>Description</b>	Specifies the options to be used when performing the import. If at least one of deleteStartDate, deleteEndDate, or transactionTypes are specified, then this method call will attempt to delete any existing transactions which match those specified criteria.		
<b>Attributes of the Element</b>			
Attribute Name	Required?	Value	Example
deleteStartDate	N	If this method call is intended to delete some existing transactions, this attribute specifies the start date of the set of transactions to be deleted (inclusive). If not specified, all transactions which have a date on or before the deleteEndDate (and which matches one of the optional specified TransactionTypes) will be deleted.	11/01/2012
deleteEndDate	N	If this method call is intended to delete some existing transactions, this attribute specifies the end date of the set of transactions to be deleted (inclusive). If not specified, all transactions which have a date on or after the deleteStartDate (and which match one of the optional specified TransactionTypes) will be deleted.	12/31/2012

transactionTypes	N	A set of transaction types which will be deleted, separated by the pipe symbol. If not specified, all transactions given between deleteStartDate and deleteEndDate will be deleted. If no deleteStartDate or deleteEndDate is specified, all transactions of the specified types will be deleted regardless of their dates.	Invoice Purchase Order
allowParallel	Y	If set to true, then an import will proceed even if there is already another actuals or transactions import in process for this instance. If set to false, then an attempt to import will fail if there is already an actuals or transactions import being processed for this instance.	false
useMappings	N	Specifies whether to use import mappings for accounts, plans and dimension values inside the row elements. Considered true by default. If false then the internal identifiers should be used: accounts are identified by code, levels and dimension values by name.	false
includeContext	N	Specifies whether messages may include the context block. Values are false (never show context) or true (show context if appropriate). If not specified, true is assumed.	false
<b>Contents of the Element</b>			
(none)			

<b>rowData element</b>	
<b>Tag Name</b>	rowData
<b>Description</b>	Container for the rows of data being imported.
<b>Attributes of the Element</b>	
(none)	
<b>Contents of the Element</b>	
Exactly one header element and exactly one rows element.	

<b>header element</b>	
<b>Tag Name</b>	header
<b>Description</b>	Specifies the names and order of the columns of the data in the corresponding rows element.

Attributes of the Element	
(none)	
Contents of the Element	
A line of text with vertical-bar-separated column names. These column names must correspond to the names of the dimensions or fields on the sheet, or to months that can contain data. They are identical to the column names found in the Import Template for the sheet to which the data is being imported, with each column header separated from the next by a vertical bar or "pipe symbol."	

rows element	
<b>Tag Name</b>	rows
<b>Description</b>	Container for one or more <code>row</code> elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more <code>row</code> elements.	

row element	
<b>Tag Name</b>	row
<b>Description</b>	Data for a single row being imported.
Attributes of the Element	
(none)	
Contents of the Element	
Data for the fields in a single row being imported, each field's value separated by a vertical bar or "pipe symbol." The data fields must be in the same order as the line in the header element. If numbers in the values use thousands separators, they are assumed to be the comma separators used in the locale specified in the credentials of the request.	

## Response Format

These are examples of responses for successful and unsuccessful importing of transaction data.

### Success Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="true">
  <messages>
    <message key="rows-rejected">5 rows were rejected from the import.</message>
  </messages>
</response>
```

## Error Example

```
<?xml version='1.0' encoding='UTF-8'?>
<response success="false">
  <messages>
    <message key="error-numeric-value-expected">
      <context>
        <col header="Account" value="GL-29482-38233" />
        <col header="Level" value="GL-29482-38234" />
        <col header="Split Label" value="" />
        <col header="Product" value="Toothpaste" />
        <col header="Region" value="Americas" />
        <col header="Nov-2013" value="2037" />
        <col header="Jan-2014" value="aaa" />
      </context>
      Numeric value expected on row 1 col 7 instead of aaa.
    </message>
  </messages>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true
Contents of the Element			
A single optional messages element.			

messages element	
Tag Name	messages
Description	Container for one or more message elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more message elements.	

message element	
Tag Name	message

<b>Description</b>		Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	invalid-attributevalueid
<b>Contents of the Element</b>			
<p>1. The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value that caused an error.</p> <p>2. An optional context element.</p>			

<b>context element</b>			
<b>Tag Name</b>		context	
<b>Description</b>		Container for one or more <i>col</i> elements.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
none			
<b>Contents of the Element</b>			
One or more <i>col</i> elements.			

<b>col element</b>			
<b>Tag Name</b>		col	
<b>Description</b>		Represents the context for the message. Gives a header/value pair so the row generating the message can be identified.	
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
header	Y	The header of the column.	"Account "
value	Y	The value in the column.	"GL-29482-38233 "
<b>Contents of the Element</b>			
(none)			





## eraseActuals

<b>Category</b>	Data submission
<b>Description</b>	Erases numeric data in the specified months and accounts of an actuals version.
<b>Permissions Required To Invoke</b>	EraseActuals
<b>Parameters Required On Request</b>	Credentials, EraseOptions

This method will erase numeric values from an actuals version for all levels of the specified set of accounts for a given time frame. It will not erase any formulas (such as shared formulas, cell formulas, account formulas). It will delete those account splits that become empty as a result of the erase actuals process. An empty split is one which contains no data, formulas, or cell notes. If erasing actuals results in the deletion of the last data from a split, that split will be deleted. This API will leave splits untouched if they were empty prior to calling the API.

## Request Format

To erase numeric values and newly-empty splits for the first three months of 2012 from all general ledger accounts for all levels of the default actuals version:

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="eraseActuals" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_password" />
  <eraseOptions
    accountType="GL"
    start="Jan-2012" end="Mar-2012"
    includeCellNotes="false" />
</call>
```

To erase numeric values and cell notes from a single cube sheet for all levels of a specific actuals version from January 2012 through March 2012:

```
<?xml version='1.0' encoding='UTF-8'?>
<call method="eraseActuals" callerName="a string that identifies your client application">
  <credentials login="sampleuser@company.com" password="my_password" />
  <eraseOptions
    actualsVersionName="Actuals"
    accountType="CUBE"
    cubeSheetName="Sales Cube"
    start="Jan-2012" end="Mar-2012"
    includeCellNotes="true" />
</call>
```

credentials element	
<b>Tag Name</b>	credentials
<b>Description</b>	All API calls must contain a single <code>credentials</code> element to identify the user invoking the API. The API call is then performed as this user (any audit trail or history of actions in the system will show that this user performed the action), and therefore the user must have the required permissions to perform the action in order for the API call to succeed.

Attributes of the Element			
Attribute Name	Required?	Value	Example
login	Y	The login name of the user invoking the API method. This user must have a role containing the permissions required for the method being invoked.	sampleuser@company.com
password	Y	The password of the user invoking the API method.	my_password
locale	N	Specify the locale to be used to interpret incoming numbers and dates, and to format outgoing numbers and dates (using the proper thousands separator, month names, and date formatting). The locale is also used to specify the language in which any system messages in the response should appear. If not specified, en_US (American English) is used.	fr_FR
instanceCode	N	If the user specified in the credentials has access to more than one instance of Adaptive Planning, this attribute can be used to specify that the user is intending to access an instance other than their default instance. If not specified, the user's default instance will be used. To determine the available instance codes, use the exportInstances API.	MYINSTANCE1
Contents of the Element			
(none)			

eraseOptions element			
Tag Name	eraseOptions		
Description	Specifies the options to be used when erasing actuals.		
Attributes of the Element			
actualsVersionName	N	Required when there is more than one actuals version. If this instance contains the planning product only, then EraseActuals will erase data from the one and only actuals version.	Actuals
accountType	Y	Specifies if account type is general ledger ("GL"), custom ("CUSTOM") or cube sheet ("CUBE").	GL
cubeSheetName	N	Required if accountType="CUBE". Specifies the name of the cube sheet.	Sales Cube
start	Y	Specifies the start month of the actuals time range. Months are specified as "MON-YYYY", using the standard abbreviation for the month in the locale of the request (see its credentials element), and using a four-digit year. Month names are case-insensitive.	Jan-2012

end	Y	Specifies the end month of the actuals time range. Months are specified as "MON-YYYY", using the standard abbreviation for the month in the locale of the request (see its credentials element), and using a four-digit year. Month names are case-insensitive.	Mar-2012
includeCellNotes	Y	If set to "true", then EraseActuals will erase all cell notes in the selected version, account type and time range, regardless of whether it is also erasing the data from the cell. If "false", no cell notes will be deleted.	true
<b>Contents of the Element</b>			
(none)			

## Response Format

```
<?xml version="1.0" encoding="UTF-8"?>
<response success="true">
  <messages>
    <message key="erase-actuals-success">Successfully erased actuals data.</message>
    <message key="erase-actuals-facts-deleted">4 facts deleted.</message>
    <message key="erase-actuals-notes-deleted">2 notes deleted.</message>
    <message key="erase-actuals-splits-deleted">1 splits deleted.</message>
  </messages>
</response>
```

response element			
Tag Name		response	
Attributes of the Element			
Attribute Name	Required?	Value	Example
success	Y	Either true or false, indicating whether the API call was successful or not. Even successful calls may contain warning messages in their response.	true
Contents of the Element			
A single optional messages element.			

messages element	
Tag Name	messages
Description	Container for one or more message elements.
Attributes of the Element	
(none)	
Contents of the Element	
One or more message elements.	

<b>message element</b>			
<b>Tag Name</b>	message		
<b>Description</b>	Represents a message being sent from the system back to the caller. Messages are used for error messages when requests do not succeed, for warning messages when requests do succeed, and for confirmation messages upon success.		
<b>Attributes of the Element</b>			
<b>Attribute Name</b>	<b>Required?</b>	<b>Value</b>	<b>Example</b>
key	N	When given, a key is a way to identify a particular message or type of message, useful for purposes of automated error logging and recovery in client programs. Keys do not change under different locales of requests, even when the language of the message changes. Keys also are unlikely to change in the future due to wording adjustments or terminology changes.	warning-invalid-timespan-start
<b>Contents of the Element</b>			
The text of the message. This text is in the language of the locale specified on the request (assuming that locale is supported). The text may also contain variable information such as the number of rows which were processed, or the particular column or value which caused an error.			

## Chapter 4: Sample Client Java Program

Below is a sample java program that calls the "exportAccounts" API method. The results of the API method call are just printed to the screen. In a real application, the XML data would be parsed and the underlying account data would be processed.

```
import java.net.HttpURLConnection;
import java.net.URL;

public class WebServiceClient {

    /**
     * Make an "exportAccounts" method call.
     */
    public static void main(String[] args) throws Exception {
        String request = "<?xml version='1.0' encoding='UTF-8'?>\n" +
            "<call method=\"exportAccounts\">\n" +
            "    <credentials login=\"sampleuser@company.com\" password=\"my.pw\"/ callerName=\"test
program\">\n" +
            "    </call>";

        // Make a URL connection to the Adaptive Planning web service URL
        URL url = new URL("https://api.adaptiveinsights.com/api/v13");
        HttpURLConnection conn = (HttpURLConnection) url.openConnection();

        // Set the content type, the HTTP method, and tell the connection we expect output
        conn.setRequestProperty("content-type", "text/xml;charset=UTF-8");
        conn.setRequestMethod("POST");
        conn.setDoOutput(true);

        // Send the request
        writeRequest(conn, request);

        // Read the response
        String response = readResponse(conn);

        // Print it out
        System.out.println(response);
    }

    /**
     * Write the request to the given URLConnection
     */
    private static void writeRequest(HttpURLConnection conn, String request) throws Exception {
        conn.getOutputStream().write(request.getBytes("UTF-8"));
    }

    /**
     * Read the response from the given URL Connection
     */
    private static String readResponse(HttpURLConnection conn) throws Exception {
        byte[] buffer = new byte[4096];
        StringBuilder sb = new StringBuilder();
        int amt;
        while ((amt = conn.getInputStream().read(buffer)) != -1) {
            String s = new String(buffer, 0, amt, "UTF-8");
            sb.append(s);
        }
        return sb.toString();
    }
}
```



## Chapter 5: customReportValues REST Specification

This section provides supporting information about the customReportValues call. The following is the request schema, provided in the Relax NG Compact format.

```

default namespace = ""

start =
  element call {
    attribute callerName { text },
    attribute method { "customReportValues" },
    element credentials {
      attribute instanceCode { text },
      attribute login { text },
      attribute locale { text }?,
      (attribute password { text } | attribute ticket { text })
    },
    element report {
      attribute suppress-zeroes { "0" | "1" | "2" }?, #0=Nothing suppressed, 1=Suppress blank cells but
not zeroes, 2=Suppress blank and zero cells(Default)
      attribute show-cell-notes { "0" | "1" }?, #0=Don't show cell notes(default), 1=show cell notes
      X-axis, # Axes must be specified in order X, Y, (optional) FILTER
      Y-axis,
      Filter-axis?
    }
  }

X-axis =
  element axis {
    attribute type { "X" },
    segment+
  }

Y-axis =
  element axis {
    attribute type { "Y" },
    segment+
  }

Filter-axis =
  element axis {
    attribute type { "FILTER" },
    segment
  }

segment =
  element segment {
    (dimTier | levelTier | accTier | timeTier | versionTier | currencyTier | accAttrTier |
levelAttrTier | dimAttrTier)+
  }

#Look up ids by calling the exportDimensions API
dimTier =
  element tier {
    attribute type { "dim" },
    attribute entity-id { xsd:integer }, #dimension id
    (stdRollup | stdEl)+ #stdRollup will allow for arbitrary rollups and stdEl will provide the
dimension value id
  }

#Look up ids by calling the exportLevels API
levelTier =
  element tier {
    attribute type { "lvl" },
  }

```



```
    (stdRollup | stdEl)+ #stdRollup will allow for arbitrary rollups and stdEl will provide the
dimension value id
  }
```

```
#Look up ids by calling the exportAccounts API
```

```
accTier =
  element tier {
    attribute type { "acct" },
    (acctRollup | acctEl)+ #acctRollup will allow for arbitrary rollups and acctEl will provide the
account id
  }
```

```
#Look up ids by calling the exportTime API
```

```
timeTier =
  element tier {
    attribute type { "time" },
    (timeRollup | timeEl)+ #timeRollup will allow for arbitrary rollups of single time elements
  }
```

```
#Look up ids by calling the exportVersions API
```

```
versionTier =
  element tier {
    attribute type { "ver" },
    (stdRollup | stdEl)+
  }
```

```
#Look up ids by calling the exportActiveCurrencies API
```

```
currencyTier =
  element tier {
    attribute type { "cur" },
    stdEl+
  }
```

```
#Look up ids by calling the exportAttributes API
```

```
accAttrTier =
  element tier {
    attribute type { "aAttr" },
    attribute entity-id { xsd:integer }, #account attribute id
    (stdRollup | stdEl)+ #stdRollup will allow for arbitrary rollups and stdEl will provide the account
attribute value id
  }
```

```
#Look up ids by calling the exportAttributes API
```

```
levelAttrTier =
  element tier {
    attribute type { "lAttr" },
    attribute entity-id { xsd:integer }, #level attribute id
    (stdRollup | stdEl)+ #stdRollup will allow for arbitrary rollups and stdEl will provide the level
attribute value id
  }
```

```
#Look up ids by calling the exportAttributes API
```

```
dimAttrTier =
  element tier {
    attribute type { "dAttr" },
    attribute entity-id { xsd:integer }, #dimension attribute id
    (stdRollup | stdEl)+ #stdRollup will allow for arbitrary rollups and stdEl will provide the
dimension attribute value id
  }
```

```
#All tiers except account and time have stdEl
```

```
stdEl =
  element el {
```

```

    attribute id { xsd:integer }, # For custom dimensions and attributes, the root is represented by id
    = 0. Ex: for Dimension Region(entity-id=3), Region(rollup) will have id=0, Region(Uncat) will be id=0
    and rollup-mode="U"
    attribute rollup-mode { "R" | "U" | "C" }? # R=Rollup or Leaf (as appropriate) (default), U=Uncat,
    C=Me & my immediate Children(not valid with arbitrary rollup)
  }
  stdRollup =
  element rollup {
    stdEl+
  }

timeEl = (singleTimeEl | timespanEl | qytdEl)
singleTimeEl =
  element el {
    attribute id { timeId }
  }
timespanEl =
  element el {
    attribute complex-type { "timespan" },
    attribute start { timeId }?, #Not specifying start or end means start or end of the 'Range of the
    versions in this export'.
    attribute end { timeId }?,
    attribute timeunit { "0" | "1" }?, # Defaults to "1"
    attribute quarter { "0" | "1" }?, # Defaults to "1"
    attribute year { "0" | "1" }? # Defaults to "1"
  }
qytdEl =
  element el {
    attribute complex-type { "qtd" | "ytd" },
    attribute as-of { timeId }
  }
timeRollup = element rollup {
  (singleTimeEl)+
}
timeId = xsd:integer

acctEl =
  element el {
    attribute id { xsd:integer },
    ( attribute rollup-mode { "R" | "C" } |
      attribute show-acct-splits { "0" | "1" } #0=don't show splits in account(default), 1=show splits
    in accounts (not valid with arbitrary rollup)
    )?
  }
acctRollup =
  element rollup {
    acctEl+
  }

```

