



**SERENA™**

# **Serena Dimensions RM 12.5 Web Service and Rest Service Reference**

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## rtmService

### Sources

Name	Description
<a href="#">rtmService</a>	gSOAP 2.7.12 generated service definition
<a href="#">rtmAdminService</a>	gSOAP 2.7.12 generated service definition

## rtmService Web Service

### Description

gSOAP 2.7.12 generated service definition

### See Also

- [Methods](#)
- [Complex Types](#)
- [Simple Types](#)

## Methods: rtmService

### Methods

Name	Description
<a href="#">AddObjectToCollection</a>	Add an object to a collection
<a href="#">AddSyncXrefLink</a>	Adds a link to Sync_Xref table
<a href="#">AppendRMDocumentEx</a>	Append an RM document to an existing document.
<a href="#">AppendRtmDocument</a>	Append an RM document to an existing document.
<a href="#">ApproveChangeRequest</a>	Approve proposed change for the object
<a href="#">AsyncAppendRtmDoc</a>	Append an RM document to an existing document.
<a href="#">AsyncCreateRtmDoc</a>	Create a new RM document .
<a href="#">AsyncQueryRtmDoc</a>	Creates an XML representing RM Document structure.
<a href="#">AsyncReplaceRtmDoc</a>	Replace an existing project rtm document.
<a href="#">ChangeRequest</a>	Create a change request for the specified requirement
<a href="#">CollectionAssociationWithCMPProject</a>	Associate or un-associate RM collection/baseline with CM project/stream.
<a href="#">CreateBaseline</a>	Create a baseline with given requirements (possible to associate it to a CM baseline)
<a href="#">CreateCategory</a>	Creates a new RM category
<a href="#">CreateChildDocument</a>	Creates a new Child document of the specified Master document
<a href="#">CreateCollection</a>	Creates an empty collection
<a href="#">CreateObject</a>	Creates a new requirement, based on given class name and requirement data
<a href="#">CreateObjectEx</a>	Creates a new requirement, based on given class name and requirement data
<a href="#">CreateObjectWithAttachment</a>	Creates a new requirement with attachment, based on given class id and requirement data
<a href="#">CreateRMDocumentEx</a>	Create a new RM document
<a href="#">CreateRtmDocSnapshot</a>	Creates document snapshot by document id
<a href="#">CreateRtmDocument</a>	Creates a new document with given content
<a href="#">CreateTemplate</a>	Creates a new project template for importing document using RM Import
<a href="#">DeleteBaseline</a>	Deletes a baseline
<a href="#">DeleteObjects</a>	Marks requirements as deleted
<a href="#">DeleteRtmDocument</a>	Deletes document specified by document id
<a href="#">DeleteSyncXrefLink</a>	Deletes a link from Sync_Xref table
<a href="#">DeleteTemplate</a>	Deletes the project template specified by template id
<a href="#">DocumentAddChapter</a>	Add chapter to the document
<a href="#">DocumentMoveObject</a>	Moves object in the document
<a href="#">DocumentRemoveObject</a>	Marks objects as removed from the Document
<a href="#">FindAndReplaceObject</a>	Search requirement(s) based on attribute list and replaces those with specified requirement data
<a href="#">FindLinkedObjects</a>	Returns links and requirements linked to specified requirement
<a href="#">FindModifiedObjects</a>	Find objects that have been modified since the given time/date
<a href="#">FindObjects</a>	Find objects that match the given search criteria.
<a href="#">FindObjectsInClasses</a>	Find objects in classes that match the given search criteria.
<a href="#">FindObjectsInCollections</a>	Find objects in the given collections

Name	Description
<a href="#">FindRtmDocument</a>	Get a document specified by id
<a href="#">FindTemplate</a>	Get a document template specified by id
<a href="#">getAsyncAppendRtmDocStatus</a>	Get status from the async. commmand
<a href="#">getAsyncCreateRtmDocStatus</a>	Get status from the async. commmand
<a href="#">getAsyncQueryRtmDocStatus</a>	Get status from the async. commmand
<a href="#">getAsyncReplaceRtmDocStatus</a>	Get status from the async. commmand
<a href="#">getAsyncStatus</a>	Get status from the asynchronous commmand
<a href="#">GetAttributeDefInfo</a>	Get information about attribute definition
<a href="#">GetAvailableTransitions</a>	Get all available transitions for requirement defined in the workflow
<a href="#">GetCategoryByDisplayName</a>	Get category id by category display name
<a href="#">GetCategoryById</a>	Get category information by given category id
<a href="#">GetClassDefInfo</a>	Get definition of specified class by class Id/name
<a href="#">GetCollectionById</a>	Get a collection specified by collection id
<a href="#">GetCollectionByName</a>	Get a collection specified by name
<a href="#">GetCollectionInfo</a>	Get information about specified collection
<a href="#">GetObjectsInCollection</a>	Get objects in the given collection
<a href="#">GetObjectsInCollections</a>	Get objects in the given collections
<a href="#">GetObjectsInRMDocument</a>	Get object in the given document
<a href="#">GetProjectInfo</a>	Get information about project
<a href="#">GetRMDocSnapshotDiffUrl</a>	Get the url of comparison specified document snapshots
<a href="#">GetRMDocSnapshots</a>	Returns list of snapshots for specified document.
<a href="#">GetRtmDocSnapshotById</a>	Retrieve document snapshot information by id.
<a href="#">GetRtmDocSnapshotByName</a>	Retrieve document snapshot information by name.
<a href="#">GetSharedFile</a>	Download a shared file for local use
<a href="#">GetTemplateFile</a>	Get the template file of the template specified by template id
<a href="#">getTestAsyncStatus</a>	Get status from the async. test commmand
<a href="#">GetUserAttributeDefInfo</a>	Get user attribute definition with list of users filtered by category
<a href="#">IsSSOLoginEnabled</a>	Returns information if SSO enabled or not
<a href="#">LinkObjects</a>	Link multiple children to a parent object
<a href="#">LinkObjectsEx</a>	Link multiple children to a parent object
<a href="#">LinkObjectsExById</a>	Link multiple children to a parent object
<a href="#">ListAllAllowedCategories</a>	Get a list of all allowed categories for the project.
<a href="#">ListCategories</a>	Get a list of child categories for the given parent category.
<a href="#">ListCollections</a>	Get a list of collection names in the project.
<a href="#">ListCollectionsEx</a>	Get a list of collections in the project.
<a href="#">ListCollectionsEx2</a>	Get a list of collections in the project.
<a href="#">ListObjectLinks</a>	List secondary links for a specified requirement
<a href="#">ListRootCategories</a>	Get a list of top-level categories in the project.
<a href="#">ListRtmDocuments</a>	Get a list of rtm documents in the project.
<a href="#">ListTemplates</a>	Get a list of document templates in the project.
<a href="#">Login</a>	Login into RTM - use returned sessionId for subsequent calls.
<a href="#">LoginByProjectId</a>	Login into RTM - use returned sessionId for subsequent calls.

Name	Description
<a href="#">LoginEx</a>	Login into RTM and return if it was admin login along with sessionId.
<a href="#">Logout</a>	Logout of RTM.
<a href="#">ModifyObjectsByScript</a>	Update/replace/approve/delete/undelete/transition requirements by script name/text
<a href="#">ProposeNewRequirement</a>	Creates a requirement proposal
<a href="#">PutSharedFile</a>	Upload a shared file for access by others
<a href="#">QueryAttributes</a>	Return the list of defined attributes in a class
<a href="#">QueryAttributesEx</a>	Return the list of defined attributes in a class
<a href="#">QueryAttributesEx2</a>	Return the list of defined attributes in a class
<a href="#">QueryClasses</a>	Return the list of defined classes in project
<a href="#">QueryClassesEx</a>	Return the list of defined classes in project
<a href="#">QueryDatabases</a>	Return the list of oracle databases
<a href="#">QueryLinkClasses</a>	Return the list of linked classes information in project
<a href="#">QueryProjects</a>	Return the list of defined projects in database
<a href="#">QueryProjectsEx</a>	Return the list of defined projects in database
<a href="#">QueryRtmDocumentStructure</a>	Creates an XML representing RM Document structure
<a href="#">QuerySystemInfo</a>	Return the system information
<a href="#">ReadObject</a>	Read object information with all the attribute values
<a href="#">ReadObjectAttachment</a>	Read attachment of a requirement
<a href="#">ReadObjectEx</a>	Read object information with all the attribute values
<a href="#">ReadObjects</a>	Read object information with all the attribute values
<a href="#">ReadSyncXrefLink</a>	Reads a link from Sync_Xref table
<a href="#">RejectChangeRequest</a>	Service definition of function ns__RejectChangeRequest
<a href="#">RemoveObject</a>	RemoveObject Removes a requirement from the database
<a href="#">RemoveObjectFromCollection</a>	Service definition of function ns__RemoveObjectFromCollection
<a href="#">ReplaceObject</a>	Replaces a RM requirement with specified requirement data
<a href="#">ReplaceObjectEx</a>	Replaces a RM requirement with specified requirement data
<a href="#">ReplaceObjectWithAttachment</a>	Replace a RM requirement with attachment, given a class id and requirement data
<a href="#">ResolveSuspicion</a>	Clears suspect links
<a href="#">RTMDocumentAddChapter</a>	Add the new chapter after the existing chapter at the same level.
<a href="#">RTMDocumentAddRequirement</a>	Add requirement in the existing Chapter.
<a href="#">RTMDocumentExchangeRequirement</a>	Exchange requirements inplace.
<a href="#">RTMDocumentRemoveRequirement</a>	Marks requirements as removed from the Document.
<a href="#">runTestAsync</a>	Run the async. test command
<a href="#">SendCMNotifications</a>	Send notifications to CM
<a href="#">TransitionObject</a>	Transition requirement to the specified state
<a href="#">UnlinkObjects</a>	Unlink multiple children from a parent object
<a href="#">UnlinkObjectsEx</a>	Unlink multiple children from a parent object
<a href="#">UnlinkObjectsExById</a>	Unlink multiple children from a parent object
<a href="#">UpdateObject</a>	Updates a RM requirement with specified requirement data
<a href="#">UpdateObjectAttachment</a>	Updates a RM requirement attachment
<a href="#">UpdateObjectEx</a>	Updates a RM requirement with specified requirement data

<b>Name</b>	<b>Description</b>
<a href="#">UpdateTemplate</a>	Update the template name, filename, and description fields and the template file.
<a href="#">UpdateTemplateFile</a>	Replace the template file of the template specified by template id
<a href="#">UploadImageForHTMLAttribute</a>	Upload picture and file to the RM server



## Method: AddObjectToCollection

### Description

Add an object to a collection

### Style

Document

### Input (Literal)

The input of this method is the argument AddObjectToCollection having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
objectIdentifier	<a href="#">RequirementIdentifier</a>	1..1	A combination of PUID/classname or objectID/classname that specifies a project requirement.
collectionName	string	1..1	The collection name

### Output (Literal)

The output of this method is the argument addObjectToCollectionResponseResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">addObjectToCollectionResponse</a>	1..1	Status of adding object to collection

### Remarks

The AddObjectToCollection call provides a method for adding the requirement to the specified collection

#### Example of usage:

```
<urn:AddObjectToCollection>
  <sessionId>1443452989</sessionId>
  <objectIdentifier>
    <sClassName>Marketing_Requirements</sClassName>
    <nObjectId>38</nObjectId>
  </objectIdentifier>
  <collectionName>Scoping</collectionName>
</urn:AddObjectToCollection>
```

## Method: AddSyncXrefLink

### Description

Adds a link to Sync\_Xref table

### Style

Document

### Input (Literal)

The input of this method is the argument AddSyncXrefLink having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
aXref	<a href="#">SyncXrefLink</a>	1..1	A reference entry consists of a Dimensions RM class id, Dimensions RM PUID, foreign tool id and foreign item identifier.

### Output (Literal)

The output of this method is the argument AddSyncXrefLinkResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	boolean	1..1	A flag indication whether the adding reference was successful or not

### Remarks

The AddSyncXrefLink call provides a method for adding an association entry between Dimensions RM and the other (foreign) tool in SYNC\_XREF table.

#### Example of usage:

```
<urn:AddSyncXrefLink>
  <sessionId>1444320707</sessionId>
  <aXref>
    <sForeignId>1</sForeignId>
    <nRMClassId>1</nRMClassId>
    <sRMPUID>MRKT_000003</sRMPUID>
    <sForeignToolName>TEST</sForeignToolName>
  </aXref>
</urn:AddSyncXrefLink>
```



## Method: AppendRtmDocument

### Description

Append an RM document to an existing document.

### Style

Document

### Input (Literal)

The input of this method is the argument AppendRtmDocument having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
id	int	1..1	The document id
rtmDoc	<a href="#">RtmDocument</a>	1..1	Content of the document

### Output (Literal)

The output of this method is the argument AppendRtmDocumentResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AppendRtmDocumentResult</a>	1..1	Result of appending document

### Remarks

The AppendRtmDocument call provides a method for append an existing document with the specified document content.

### Example of usage:

```
<urn:AppendRtmDocument>
  <sessionId>11111111</sessionId>
  <id>12</id>
  <rtmDoc>
    <sContent><![CDATA[<?xml version="1.0" ?>
      <Document name="ZVBob3RvIFJlcXVpcmVtZW50cw==" projectName="UK1ERU1P"
        databaseName="Uk0=" version="1.1" application="RM Web Services">
        <Chapter title="ZVBob3RvIFJlcXVpcmVtZW50cw==" uid="374">
          <Description/>
          <Chapter title="VXNpbmcgYmFzZSA2NCA=">
            <Description/>
            <Requirement classid="1" className="Marketing_Requirements" title="" categoryid="6" uid="31">
              <Attribute attrid="3011" typeid="1" title="Title">U3lzdGVtIHJlc3BvbnNlIHHRpbWVzMg==</Attribute>
              <Attribute attrid="31" typeid="5"
                title="Text">QmFzZTY0IGlzlGEgZ2VuZXJpYyB0ZXJtIGZvcjBhIG51bWJlcjBvZiBzaW1pbGFyIGVvY29ka
                W5nIHJjaGVtZXMgdGhhdBmNvZGUgYmluYXJ5J5IGRhdGEgYnkgdHJlYXRpbmcgaXQgbnVtZXJpY2Fs
                bHkgYW5kIHRyYW5zbGF0aW5nIGl0IGludG8gYSBiYXNlIDY0IHJlcHJlc2VudGF0aW9uLiA=</Attribute>
              <Attribute attrid="26" typeid="12" title="Rqmt ID">TVJLVF8wMDAwMjk=</Attribute>
            </Requirement>
          </Chapter>
        </Chapter>
      </Document>]]></sContent>
    </rtmDoc>
  </urn:AppendRtmDocument>
```

## Method: ApproveChangeRequest

### Description

Approve the proposed change request

### Style

Document

### Input (Literal)

The input of this method is the argument ApproveChangeRequest having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
className	string	1..1	Specifies the class name
requestId	long	1..1	Specifies the object id of proposed requirement

### Output (Literal)

The output of this method is the argument ApproveChangeRequestResult having the structure defined by the following table.

Name	Type	Occurs	Description
nId	long	1..1	Object id of approved requirement
status	<a href="#">CommandStatus</a>	1..1	Status of operation

### Remarks

The ApproveChangeRequest call provides a method for approve proposed changed for requirement by given class name and object id of proposed change request.

#### Example of usage:

```
<urn:ApproveChangeRequest>
  <sessionId>1111111111</sessionId>
  <className>Marketing_Requirements</className>
  <requestId>57</requestId>
</urn:ApproveChangeRequest>
```

## Method: AsyncAppendRtmDoc

### Description

Append an rtm document to an existing document.

### Style

Document

### Input (Literal)

The input of this method is the argument AsyncAppendRtmDoc having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
id	int	1..1	
sContent	string	1..1	

### Output (Literal)

The output of this method is the argument AsyncAppendRtmDocResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AsyncAppendRtmDocResponse</a>	1..1	

## Method: AsyncCreateRtmDoc

### Description

Create a new project rtm document.

### Style

Document

### Input (Literal)

The input of this method is the argument AsyncCreateRtmDoc having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
rtmDoc	<a href="#">RtmDocument</a>	1..1	

### Output (Literal)

The output of this method is the argument AsyncCreateRtmDocResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AsyncCreateRtmDocResponse</a>	1..1	

## Method: AsyncQueryRtmDoc

### Description

Creates an XML representing RM Document structure.

### Style

Document

### Input (Literal)

The input of this method is the argument AsyncQueryRtmDoc having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nDocId	int	1..1	
nChapterId	int	0..1	
bIncludeReq	boolean	0..1	

### Output (Literal)

The output of this method is the argument getAsyncQueryRtmDocResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">getAsyncQueryRtmDocResponse</a>	1..1	



## Method: AsyncReplaceRtmDoc

### Description

Replace an existing project rtm document.

### Style

Document

### Input (Literal)

The input of this method is the argument AsyncReplaceRtmDoc having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
id	int	1..1	
sContent	string	1..1	

### Output (Literal)

The output of this method is the argument AsyncReplaceRtmDocResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AsyncReplaceRtmDocResponse</a>	1..1	

## Method: ChangeRequest

### Description

Create Change Request RM requirement with specified requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument ChangeRequest having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	
anECPsInfo	<a href="#">ECPsObjectInfo</a>	0..1	
inChangeReason	string	1..1	

### Output (Literal)

The output of this method is the argument ChangeRequestResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: CollectionAssociationWithCMProject

### Description

Associate or un-associate RM collection/baseline with CM project/stream

### Style

Document

### Input (Literal)

The input of this method is the argument CollectionAssociationWithCMProject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sCollectionName	string	1..1	
projectCM	<a href="#">CMProjectInfo</a>	1..1	
bAssociate	boolean	0..1	

### Output (Literal)

The output of this method is the argument CollectionAssociationWithCMProjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
sResult	string	1..1	

### Remarks

When bAssociate parameter is set to "true", then web service will work in Associate mode, if set to "false" then web service will work in Un-associate mode.

### Example of usage:

```
<urn:CollectionAssociationWithCMProject>
  <sessionId>1111111111</sessionId>
  <sCollectionName>test_col</sCollectionName>
  <projectCM>
    <sProductName>QLARIUS</sProductName>
    <sProjectName>JAVA_BRANCHA_PRJ</sProjectName>
  </projectCM>
  <bAssociate>true</bAssociate>
</urn:CollectionAssociationWithCMProject>
```

## Method: CreateBaseline

### Description

Create a baseline with given requirements and associate it to a CM baseline

### Style

Document

### Input (Literal)

The input of this method is the argument CreateBaseline having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sName	string	1..1	
sCategoryFullName	string	0..1	
nCmSourceBaselineUid	int	1..1	
requirements	<a href="#">RequirementIdentifierList</a>	1..1	

### Output (Literal)

The output of this method is the argument CreateBaselineResult having the structure defined by the following table.

Name	Type	Occurs	Description
nId	int	1..1	
nStatus	int	1..1	
sUrl	string	1..1	

### Remarks

#### Additional info:

Category name can be specified on baseline creation.

'sCategoryFullName' value can be specified as:

- a) category full name, separated by '/' or '\'
- b) category name(only in case when name is unique);

#### Example of usage:

```
<urn:CreateBaseline>
  <sessionId>1</sessionId>
  <sName>test baseline</sName>
  <sCategoryFullName>RMDEMO/Functional</sCategoryFullName>
  <requirements>
    <item>
      <sPUID>MRKT_000003</sPUID>
      <sClassName>Marketing_Requirements</sClassName>
    </item>
    <item>
      <sPUID>MRKT_000004</sPUID>
      <sClassName>Marketing_Requirements</sClassName>
    </item>
    <item>
      <sPUID>MRKT_000021</sPUID>
      <sClassName>Marketing_Requirements</sClassName>
    </item>
  </requirements>
</urn:CreateBaseline>
```

## Method: CreateCategory

### Description

Creates a RM category, given a category name, description and parent category id.

### Style

Document

### Input (Literal)

The input of this method is the argument CreateCategory having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
CategoryReq	<a href="#">CategoryReq</a>	1..1	

### Output (Literal)

The output of this method is the argument createCategoryResponse having the structure defined by the following table.

Name	Type	Occurs	Description
item	<a href="#">Category</a>	1..1	

## Method: CreateChildDocument

### Description

Create a new Child document of the specified Master document.

### Style

Document

### Input (Literal)

The input of this method is the argument CreateChildDocument having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
rtmDoc	<a href="#">CreateChildDocumentData</a>	1..1	Child document info

### Output (Literal)

The output of this method is the argument CreateChildDocumentResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CreateRtmDocumentResult</a>	1..1	Result with info about created document

### Remarks

The CreateChildDocument call provides a method for creating new Child document based on specified Master document.

Created Child doc will inherit all structure of the Master doc.

### Example of usage:

```
<urn:CreateChildDocument>
  <sessionId>1111111111</sessionId>
  <rtmDoc>
    <sName>Child doc</sName>
    <nMasterDocId>18</nMasterDocId>
  </rtmDoc>
</urn:CreateChildDocument>
```

## Method: CreateCollection

### Description

Creates an empty collections.

### Style

Document

### Input (Literal)

The input of this method is the argument CreateCollection having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
collectionName	<a href="#">CreateCollectionEx</a>	1..1	
sCategoryFullName	string	0..1	

### Output (Literal)

The output of this method is the argument CreateCollectionResponseResult having the structure defined by the following table.

Name	Type	Occurs	Description
nId	long	1..1	
sName	string	1..1	
sUrl	string	1..1	

### Remarks

#### Additional info:

Category name can be specified on collection creation.

'sCategoryFullName' value can be specified as:

- a) category full name, separated by '/' or '\'
- b) category name(only in case when name is unique);

#### Example of usage:

```
<urn:CreateCollection>
  <sessionId>1111111111</sessionId>
  <collectionName>
    <sName>testCol2</sName>
  </collectionName>
  <sCategoryFullName>RMDEMO\Availability</sCategoryFullName>
</urn:CreateCollection>
```

## Method: CreateObject

### Description

Creates a new requirement, based on given class name and requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument CreateObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
anObject	<a href="#">Requirement</a>	1..1	A set of object attributes values

### Output (Literal)

The output of this method is the argument CreateObjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	A set of object attributes values

### Example of usage:

```
<urn:CreateObject>
  <sessionId>1478719333</sessionId>
  <anObject>
    <sClassName>Tests</sClassName>
    <sDescription>Object description</sDescription>
    <sTitle>Test name</sTitle>
    <aAttrList>
      <item>
        <sName>SUBJECT</sName>
        <sValue>Subject</sValue>
      </item>
    </aAttrList>
  </anObject>
</urn:CreateObject>
```



## Method: CreateObjectEx

### Description

Creates a new requirement, based on given class name and requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument CreateObjectEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
anObject	<a href="#">Requirement</a>	1..1	A set of object attributes values
bDontGenerateAlfEvent	boolean	0..1	A flag indicating whether to generate an alf event

### Output (Literal)

The output of this method is the argument CreateObjectExResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	A set of object attributes values

### Example of usage:

```
<urn:CreateObjectEx>
  <sessionId>1478719333</sessionId>
  <anObject>
    <sClassName>Tests</sClassName>
    <sDescription>Object description</sDescription>
    <sTitle>Test name</sTitle>
    <aAttrList>
      <item>
        <sName>EXECUTION_STATUS</sName>
        <sValue>Failed</sValue>
      </item>
    </aAttrList>
  </anObject>
  <bDontGenerateAlfEvent>>false</bDontGenerateAlfEvent>
</urn:CreateObjectEx>
```

## Method: CreateObjectWithAttachment

### Description

Creates a new requirement with attachment, based on given class id and requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument CreateObjectWithAttachment having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
anObject	<a href="#">Requirement</a>	1..1	A set of object attributes values
sAttrName	string	0..1	File attachment attribute name
oFile	<a href="#">FileAttachment</a>	0..1	File attachment details and contents

### Output (Literal)

The output of this method is the argument CreateObjectWithAttachmentResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	A set of object attributes values

### Example of usage:

```
<urn:CreateObjectWithAttachment>
  <sessionId>1479156038</sessionId>
  <anObject>
    <sClassName>Marketing_Requirements</sClassName>
    <aAttrList>
      <item>
        <sName>TITLE</sName>
        <sValue>Title</sValue>
      </item>
      <item>
        <sName>TEXT</sName>
        <sValue>Description of requirement</sValue>
      </item>
    </aAttrList>
  </anObject>
  <sAttrName>FILE_ATTACHMENT</sAttrName>
  <oFile>
    <sFullPath>c:\examples</sFullPath>
    <sFilename>doc</sFilename>
    <encodedContents>VGVzdCBkb2N1bWVudA==</encodedContents>
  </oFile>
</urn:CreateObjectWithAttachment>
```





## Method: CreateRtmDocSnapshot

### Description

Creates document snapshot by document id.

### Style

Document

### Input (Literal)

The input of this method is the argument CreateRtmDocSnapshot having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
snapshot	<a href="#">RtmDocSnapshot</a>	1..1	A set of snapshot properties

### Output (Literal)

The output of this method is the argument CreateRtmDocSnapshotResult having the structure defined by the following table.

Name	Type	Occurs	Description
snapshot	<a href="#">RtmDocSnapshotOut</a>	1..1	A set of snapshot properties

### Example of usage:

```
<urn:CreateRtmDocSnapshot>
  <sessionId>1478719333</sessionId>
  <snapshot>
    <sName>SNAPSHOT</sName>
    <nDocumentId>12</nDocumentId>
  </snapshot>
</urn:CreateRtmDocSnapshot>
```









## Method: DeleteBaseline

### Description

Deletes a baseline.

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteBaseline having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
nBaselineId	int	1..1	Identifier of the baseline to be deleted

### Output (Literal)

The output of this method is the argument DeleteBaselineResult having the structure defined by the following table.

Name	Type	Occurs	Description
nStatus	int	1..1	Status of operation (0 – success, 1 – failure)

### Example of usage:

```
<urn:DeleteBaseline>  
  <sessionId>1478715622</sessionId>  
  <nBaselineId>11</nBaselineId>  
</urn:DeleteBaseline>
```

## Method: DeleteObjects

### Description

Marks requirements as deleted.

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sClassName	string	1..1	Class name of objects to be deleted
aObjectPUIDs	<a href="#">StringList</a>	1..1	Unique object identifiers of objects to be deleted

### Output (Literal)

The output of this method is the argument DeleteObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	boolean	1..1	A flag indicating whether the deletion was successful

### Example of usage:

```
<urn:DeleteObjects>
  <sessionId>1478715622</sessionId>
  <sClassName>Marketing_Requirements</sClassName>
  <aObjectPUIDs>
    <item>MRKT_000004</item>
    <item>MRKT_000007</item>
  </aObjectPUIDs>
</urn:DeleteObjects>
```

## Method: DeleteRtmDocument

### Description

Deletes document specified by document id.

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteRtmDocument having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
id	int	1..1	Identifier of document to be deleted

### Output (Literal)

The output of this method is the argument DeleteRtmDocumentResponse having the structure defined by the following table.

Name	Type	Occurs	Description
status	<a href="#">CommandStatus</a>	1..1	Status of operation

### Example of usage:

```
<urn>DeleteRtmDocument>  
  <sessionId>1478777334</sessionId>  
  <id>22</id>  
</urn>DeleteRtmDocument>
```

## Method: DeleteSyncXrefLink

### Description

Deletes a link from Sync\_Xref table.

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteSyncXrefLink having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
aXref	<a href="#">SyncXrefLink</a>	1..1	

### Output (Literal)

The output of this method is the argument DeleteSyncXrefLinkResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	boolean	1..1	

## Method: DeleteTemplate

### Description

Deletes the project template specified by template id.

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteTemplate having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
id	int	1..1	Identifier of template to be deleted

### Output (Literal)

The output of this method is the argument DeleteTemplateResponse having the structure defined by the following table.

Name	Type	Occurs	Description
returnTemplate	<a href="#">Template</a>	1..1	A set of template properties

### Example of usage:

```
<urn:DeleteTemplate>  
  <sessionId>1478777334</sessionId>  
  <id>25</id>  
</urn:DeleteTemplate>
```

## Method: DocumentAddChapter

### Description

Adds new chapter to the document.

### Style

Document

### Input (Literal)

The input of this method is the argument DocumentAddChapter having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
documentId	int	0..1	Specified document identifier
documentName	string	0..1	Specified document name
parentIID	int	0..1	Specifies internal id of parent object
chapterName	<a href="#">ns-chapterDetails</a>	1..1	Name and description of chapter to be created
position	int	0..1	Position of added object (by default added at the end of parent, if less or equal 1 then add at the top of parent)

### Output (Literal)

The output of this method is the argument DocumentAddChapterResults having the structure defined by the following table.

Name	Type	Occurs	Description
sResult	string	1..1	Result message
Chapter	<a href="#">DocumentObject</a>	0..1	A set of chapter properties

### Example of usage:

```
<urn:DocumentAddChapter>
  <sessionId>1478800111</sessionId>
  <documentId>23</documentId>
  <documentName>DOCUMENT</documentName>
  <parentIID>222</parentIID>
  <chapterName>
    <sName>chapter</sName>
  </chapterName>
</urn:DocumentAddChapter>
```

## Method: DocumentMoveObject

### Description

Moves chapter or requirement in the document.

### Style

Document

### Input (Literal)

The input of this method is the argument DocumentMoveObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	Specifies session id for connection
documentId	int	0..1	Specifies document id
documentName	string	0..1	Specifies document name
IID	int	1..1	Specifies internal id of the object
parentIID	int	1..1	Specifies internal id of parent object
position	int	0..1	Position of moved object (by default added at the end of parent, if less or equal 1 then add at the top of parent).

### Output (Literal)

The output of this method is the argument DocumentMoveObjectResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	string	1..1	Result of moving object

### Remarks

The DocumentMoveObject call provides a method to move objects in the document structure. Document name or id can be used for providing details about document; iid of the objects could be taken from the QueryRtmDocumentStructure web service response.

### Example of usage:

```
<urn:DocumentMoveObject>
  <sessionId>1111111111</sessionId>
  <documentId>17</documentId>
  <IID>86</IID>
  <parentIID>82</parentIID>
  <position>1</position>
</urn:DocumentMoveObject>
```

## Method: DocumentRemoveObject

### Description

Marks objects as removed from the Document.

### Style

Document

### Input (Literal)

The input of this method is the argument DocumentRemoveObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	Specifies session id for connection
documentId	int	0..1	Specifies document id
documentName	string	0..1	Specifies document name
IID	int	1..1	Specifies internal id of the object

### Output (Literal)

The output of this method is the argument DocumentRemoveObjectResponse having the structure defined by the following table.

Name	Type	Occurs	Description
sMessage	string	1..1	Result of removing object from document

### Remarks

The DocumentRemoveObject call provides a method to remove objects in the document structure. Document name or id could be used for providing details about document (if documentId and documentName parameters are set, documentId has higher priority.); iid of the object could be taken from the QueryRtmDocumentStructure web service response.

### Example of usage:

```
<urn:DocumentRemoveObject>
  <sessionId>1111111111</sessionId>
  <documentId>17</documentId>
  <IID>86</IID>
</urn:DocumentRemoveObject>
```



## Method: FindAndReplaceObject

### Description

Searches requirement(s) based on attribute list and replaces those with specified requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument FindAndReplaceObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	
aAttrList	<a href="#">NameValueList</a>	0..1	
bCreatelfnotFound	boolean	0..1	

### Output (Literal)

The output of this method is the argument FindAndReplaceObjectResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">ReplaceRequirementList</a>	1..1	

## Method: FindLinkedObjects

### Description

Returns links and requirements linked to specified requirement

### Style

Document

### Input (Literal)

The input of this method is the argument FindLinkedObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sClassName	string	1..1	Name of specified requirement class
nObjectId	int	1..1	Unique identifier of requirement
sStatus	string	0..1	Current status of requirement
aAttrList	<a href="#">StringList</a>	0..1	A set of requirement attributes
blIncludeDeleted	boolean	0..1	A flag indicating whether to show requirements with deleted links

### Output (Literal)

The output of this method is the argument LinkListEx having the structure defined by the following table.

Name	Type	Occurs	Description
sourceObjDetails	<a href="#">ObjectDetails</a>	1..1	Source requirement details
relations	<a href="#">RelationList</a>	0..1	List of linked requirements by each relationship with their details

### Remarks

#### Additional info:

It is possible to return deleted links in the result list. If blIncludeDeleted value is set to true then all related requirements will be returned. Each returned item has status of link (current/deleted).

If blIncludeDeleted it set to false, or not specified, only current links will be returned.

#### Example of usage:

```
<urn:FindLinkedObjects>
  <sessionId>1436973992</sessionId>
  <sClassName>Marketing_Requirements</sClassName>
  <nObjectId>1</nObjectId>
  <blIncludeDeleted>true</blIncludeDeleted>
</urn:FindLinkedObjects>
```

## Method: FindModifiedObjects

### Description

Find objects that have been modified since the given time\date

### Style

Document

### Input (Literal)

The input of this method is the argument FindModifiedObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sClassName	string	1..1	Name of specified requirement class
nTimestamp	dateTime	1..1	Specified time and date
aObjectPUIDs	<a href="#">StringList</a>	0..1	A set of requirements PUIDs, that can be used as search criteria
aAttrList	<a href="#">StringList</a>	0..1	A set of requirement attributes, that can be used as search criteria

### Output (Literal)

The output of this method is the argument FindModifiedObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">RequirementList</a>	1..1	A list of requirements (and its properties), that have been modified since specified time and date

### Example of usage:

```
<urn:FindModifiedObjects>
  <sessionId>1479138561</sessionId>
  <sClassName>Marketing_Requirements</sClassName>
  <nTimestamp>2001-09-30T01:54:23-07:00</nTimestamp>
</urn:FindModifiedObjects>
```

## Method: FindObjects

### Description

Find objects that match the given search criteria.

### Style

Document

### Input (Literal)

The input of this method is the argument FindObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sClassName	string	1..1	Name of class, used as search criteria (only requirement from specified class will be returned)
aKeywords	<a href="#">StringList</a>	0..1	Keywords that can be used as search criteria
bSearchFullText	boolean	0..1	A flag indicating whether to search a keyword as a full text or not (partial match)
bIncludeSubCategories	boolean	0..1	A flag indicating whether to search within sub categories or not
sAdditionalConditions	string	0..1	Condition that can be used as search criteria
anExample	<a href="#">Requirement</a>	0..1	A set of requirements attributes and its values that can be used as search criteria
aAttrList	<a href="#">StringList</a>	0..1	Attributes to be shown in search results

### Output (Literal)

The output of this method is the argument FindObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementList</a>	1..1	A list of requirements (that satisfy search criteria) and its details

### Remarks

#### Additional info:

For looking for requirements in some categories, IN\_CATEGORY attribute can be used. To return requirements in subcategories set bIncludeSubCategories value as "true". If set bIncludeSubCategories value as "false" then requirements from specified category only will be returned. Requirements could be filtered by condition, using sAdditionalConditions parameter.

#### Example of usage:

```
<urn:FindObjects>
  <sessionId>1</sessionId>
  <sClassName>Marketing_Requirements</sClassName>
  <bIncludeSubCategories>true</bIncludeSubCategories>
  <sAdditionalConditions>DELIVERY_PHASE IN ('Build1') and STATUS IN
('Replaced')</sAdditionalConditions>
  <anExample>
    <aAttrList>
      <item>
        <sName>IN_CATEGORY</sName>
        <sValue>Availability</sValue>
      </item>
      <item>
        <sName>IN_CATEGORY</sName>
        <sValue>Functional</sValue>
      </item>
    </aAttrList>
  </anExample>
</urn:FindObjects>
```

```
</aAttrList>
</anExample>
<aAttrList>
  <item>STATUS</item>
  <item>DELIVERY_PHASE</item>
  <item>IN_CATEGORY</item>
</aAttrList>
</urn:FindObjects>
```

Other example of "sAdditionalConditions" param value:

"STATUS IN ('Current','Replaced') and group not in ('User') and primary\_in MarketingRqmts\_to\_ProdRqmts"

As FindObjects uses doctool engine for filtering the full syntax from RM reports ("where" clause) is supported in this parameter.

sValue for IN\_CATEGORY can be specified as:

- a) category id;
- b) category full name, separated by '/' or '\'
- c) category name(only in case when name is unique);

## Method: FindObjectsInClasses

### Description

Find objects in classes that match the given search criteria.

### Style

Document

### Input (Literal)

The input of this method is the argument FindObjectsInClasses having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
aClassNamesList	<a href="#">StringList</a>	0..1	Names of classes, used as search criteria (only requirement from specified classes will be returned)
aKeywords	<a href="#">StringList</a>	0..1	Keywords that can be used as search criteria
bSearchFullText	boolean	0..1	A flag indicating whether to search a keyword as a full text or not (partial match)
bIncludeSubCategories	boolean	0..1	A flag indicating whether to search within sub categories or not
sAdditionalConditions	string	0..1	Condition that can be used as search criteria
anExample	<a href="#">Requirement</a>	0..1	A set of requirements attributes and its values that can be used as search criteria
aAttrList	<a href="#">StringList</a>	0..1	Attributes to be shown in search results

### Output (Literal)

The output of this method is the argument FindObjectsInClassesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementList</a>	1..1	A list of requirements (that satisfy search criteria) and its details

### Remarks

#### Additional info:

For looking for requirements in some categories, IN\_CATEGORY attribute can be used. To return requirements in subcategories set bIncludeSubCategories value as "true". If set bIncludeSubCategories value as "false" then requirements from specified category only will be returned.

#### Example of usage:

```
<urn:FindObjectsInClasses>
  <sessionId>1</sessionId>
  <bIncludeSubCategories>true</bIncludeSubCategories>
  <anExample>
    <aAttrList>
      <item>
        <sName>IN_CATEGORY</sName>
        <sValue>1</sValue>
      </item>
    </aAttrList>
  </anExample>
  <aAttrList>
    <item>IN_CATEGORY</item>
  </aAttrList>
</urn:FindObjectsInClasses>
```

sValue for IN\_CATEGORY can be:

- a) category id;
- b) category full name, separated by '/' or '\'
- c) category name(only in case when name is unique);

## Method: FindObjectsInCollections

### Description

Find objects in the given collections.

### Style

Document

### Input (Literal)

The input of this method is the argument FindObjectsInCollections having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
collectionIds	<a href="#">IdList</a>	1..1	Unique identifiers of collections, used as search criteria (only requirement from specified collections will be returned)
aSearchAttr	<a href="#">SearchRequirement</a>	0..1	A set of requirements attributes and its values that can be used as search criteria
aKeywords	<a href="#">StringList</a>	0..1	Keywords that can be used as search criteria
bSearchFullText	boolean	0..1	A flag indicating whether to search a keyword as a full text or not (partial match)
bDetagDescription	boolean	0..1	A flag indicating whether to detag description or not
aReturnAttrList	<a href="#">StringList</a>	0..1	A set of attributes to be shown in search results

### Output (Literal)

The output of this method is the argument FindObjectsInCollectionsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">RequirementFindList</a>	1..1	A list of requirements from specified collection(s) and their attributes (specified in aReturnAttrList)

### Remarks

#### Additional info:

RTM\_KEYWORDs attributes now can be used in the output. Now it is split to 4 groups:

Collections, Documents, Snapshots and Baselines.

Also next web services can use these attributes to be returned to display in results:

FindModifiedObjects

FindObjectsInClasses

GetObjectsInCollection

FindObjectsInCollections

GetObjectsInCollections

#### Example of usage:

```
<urn:FindObjectsInCollections>
  <sessionId>1</sessionId>
  <collectionIds>
    <item>12</item>
  </collectionIds>
  <aSearchAttr/>
  <aKeywords/>
  <aReturnAttrList>
    <item>PUID</item>
    <item>RTM_KEYWORD</item>
    <item>RTM_DOCUMENTS</item>
    <item>RTM_COLLECTIONS</item>
```



```
<item>RTM_BASELINES</item>  
<item>RTM_SNAPSHOTS</item>  
<item>RTM_LINKS_FROM</item>  
<item>RTM_LINKS_TO</item>  
</aReturnAttrList>  
</urn:FindObjectInCollections>
```

## Method: FindRtmDocument

### Description

Get a document specified by id.

### Style

Document

### Input (Literal)

The input of this method is the argument FindRtmDocument having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
id	int	1..1	Unique identifier of document

### Output (Literal)

The output of this method is the argument FindRtmDocumentResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RtmDocumentList</a>	1..1	Document properties (Id, name and url to access document)

### Example of usage:

```
<urn:FindRtmDocument>
  <sessionId>1479216967</sessionId>
  <id>12</id>
</urn:FindRtmDocument>
```

## Method: FindTemplate

### Description

Get a document template specified by id.

### Style

Document

### Input (Literal)

The input of this method is the argument FindTemplate having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
id	int	1..1	Unique identifier of template

### Output (Literal)

The output of this method is the argument FindTemplateResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">TemplateList</a>	1..1	Template properties

### Example of usage:

```
<urn:FindTemplate>  
  <sessionId>1479216967</sessionId>  
  <id>1</id>  
</urn:FindTemplate>
```

## Method: getAsyncAppendRtmDocStatus

### Description

Get status from the async. test commmand

### Style

Document

### Input (Literal)

The input of this method is the argument getAsyncAppendRtmDocStatus having the structure defined by the following table.

Name	Type	Occurs	Description
cmdToken	string	1..1	

### Output (Literal)

The output of this method is the argument getAsyncAppendRtmDocStatusResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">getAsyncAppendRtmDocStatusResponse</a>	1..1	

## Method: getAsyncCreateRtmDocStatus

### Description

Get status from the async. test commmand

### Style

Document

### Input (Literal)

The input of this method is the argument getAsyncCreateRtmDocStatus having the structure defined by the following table.

Name	Type	Occurs	Description
cmdToken	string	1..1	

### Output (Literal)

The output of this method is the argument getAsyncCreateRtmDocStatusResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">getAsyncCreateRtmDocStatusResponse</a>	1..1	

## Method: **getAsyncQueryRtmDocStatus**

### Description

Service definition of function ns\_\_getAsyncQueryRtmDocStatus

### Style

Document

### Input (Literal)

The input of this method is the argument `getAsyncQueryRtmDocStatus` having the structure defined by the following table.

Name	Type	Occurs	Description
cmdToken	string	1..1	

### Output (Literal)

The output of this method is the argument `getAsyncQueryRtmDocumentStatusResult` having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">getAsyncQueryRtmDocumentStatusResponse</a>	1..1	

## Method: **getAsyncReplaceRtmDocStatus**

### Description

Get status from the async. test commmand

### Style

Document

### Input (Literal)

The input of this method is the argument `getAsyncReplaceRtmDocStatus` having the structure defined by the following table.

Name	Type	Occurs	Description
cmdToken	string	1..1	

### Output (Literal)

The output of this method is the argument `getAsyncReplaceRtmDocStatusResult` having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">getAsyncReplaceRtmDocStatusResponse</a>	1..1	

## Method: **getAsyncStatus**

### Description

Get status from an asynchronous command

### Style

Document

### Input (Literal)

The input of this method is the argument `getAsyncStatus` having the structure defined by the following table.

Name	Type	Occurs	Description
cmdToken	string	1..1	

### Output (Literal)

The output of this method is the argument `getAsyncStatusResponseResult` having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">getAsyncStatusResponse</a>	1..1	



## Method: GetAttributeDefInfo

### Description

Service definition of function ns\_\_GetAttributeDefInfo

### Style

Document

### Input (Literal)

The input of this method is the argument GetAttributeDefInfo having the structure defined by the following table.

Name	Type	Occurs	Description
GetAttributeDefInfoRequest	<a href="#">GetAttributeDefInfoRequest</a>	0..1	

### Output (Literal)

The output of this method is the argument GetAttributeDefInfoReply of type [GetAttributeDefInfoReply](#) having the structure defined by the following table.

Name	Type	Occurs	Description
attributeDefInfo	<a href="#">AttributeDefInfo</a>	1..1	

### Remarks

The GetAttributeDefInfo call provides a method for getting information about attribute definition. If list or user attribute is specified in input then it is possible to filter values for that attribute depending on Access Rights set for users in the specified category. In response will be list with only allowed users in the category.

#### Example of usage:

```
<urn:GetAttributeDefInfo>
  <urn:GetAttributeDefInfoRequest>
    <sessionId>1111111111</sessionId>
    <classSpecifier>
      <Type>0</Type>
      <Value>2</Value>
    </classSpecifier>
    <attributeDefSpecifier>
      <Type>1</Type>
      <Value>MANAGER</Value>
      <CategoryInfo>
        <DisplayName>RMDEMO</DisplayName>
      </CategoryInfo>
    </attributeDefSpecifier>
  </urn:GetAttributeDefInfoRequest>
</urn:GetAttributeDefInfo>
```

## Method: GetAvailableTransitions

### Description

Get all available transitions for requirement defined in the workflow.

### Style

Document

### Input (Literal)

The input of this method is the argument GetAvailableTransitions having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
anObject	<a href="#">InRequirement</a>	1..1	Requirement attributes and its values, used as search criteria

### Output (Literal)

The output of this method is the argument GetAvailableTransitionsResult having the structure defined by the following table.

Name	Type	Occurs	Description
sPUIID	string	1..1	PUIID of specified requirement
sClassName	string	1..1	Name of requirement class
sDescription	string	0..1	Description of requirement
sCreatedBy	string	1..1	User, who created requirement
sModifiedBy	string	1..1	Last user, who modified requirement
nCreateTime	dateTime	1..1	Time of requirement creation
nModifiedTime	dateTime	1..1	Last time, when requirement was modified
sTitle	string	0..1	Title of requirement
nObjectId	int	1..1	Unique identifier of requirement
nObjectVersionId	int	1..1	Unique identifier of requirement version
sURL	string	1..1	Url, which can be used to access requirement in browser
sState	string	1..1	Workflow state of requirement
sOwner	string	1..1	Owner of workflow state
transitionList	<a href="#">Transitions</a>	0..1	List of available transitions and its properties

### Remarks

#### Example of usage:

```
<urn:GetAvailableTransitions>
  <sessionId>111111111</sessionId>
  <anObject>
    <sClassName>Component_Requirements</sClassName>
    <sPUIID>COMP_000008</sPUIID>
  </anObject>
</urn:GetAvailableTransitions>
```

## Method: GetCategoryByDisplayName

### Description

Get category id by category display name.

### Style

Document

### Input (Literal)

The input of this method is the argument GetCategoryByDisplayName having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sDisplayName	string	1..1	Display name of category

### Output (Literal)

The output of this method is the argument CategoryResult having the structure defined by the following table.

Name	Type	Occurs	Description
nId	long	1..1	Unique identifier of specified category

### Remarks

#### Additional info:

'sDisplayName' value of category name can be specified as:

- a) category full name, separated by '/' or '\'
  - b) category name(only in case when name is unique);

#### Example of usage:

```
<urn:GetCategoryByDisplayName>
  <sessionId>1111111111</sessionId>
  <sDisplayName>RMDEMO/Availability</sDisplayName>
</urn:GetCategoryByDisplayName>
```

## Method: GetCategoryByld

### Description

Get category information by given category id.

### Style

Document

### Input (Literal)

The input of this method is the argument GetCategoryByld having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
categoryld	long	1..1	Unique identifier of category
parentLevel	long	0..1	Unique identifier of parent category

### Output (Literal)

The output of this method is the argument CategoryEx having the structure defined by the following table.

Name	Type	Occurs	Description
nId	long	1..1	Unique identifier of specified category
nType	long	1..1	Type of specified category
sName	string	1..1	Name of specified category
sDescription	string	0..1	Description of specified category
sDisplayName	string	1..1	Display name of specified category
nParentId	long	1..1	Unique identifier of parent category

### Remarks:

Returned 'nParentId' property shows the parent category of specified category. Since each category can have subcategory, same category can have few parent categories. Returned 'nParentId' value depends on specified 'parentLevel' value.

Example: There is category "C", which is a sub category of "B" category. And "B" category is subcategory of "A" category. So, category "C" have two parent categories "B" and "A".

For given example if to specify "categoryld" of "C" category, and specify 'parentLevel' as 0 – then returned 'nParentId' will show id of category "B". If specify 'parentLevel' as 1 – then returned 'nParentId' will show id of category "A".

So 'parentLevel' can have values from 0 to N, depending on number of parent categories of specified category. For any sub category, the highest parent category is root category. For specified root category 'nParentId' property have "-1" value, it means that there is not parent category of root category.

### Example of usage:

```
<urn:GetCategoryByld>
  <sessionId>1437063352</sessionId>
  <categoryld>15</categoryld>
  <parentLevel>0</parentLevel>
</urn:GetCategoryByld>
```

### Additional info:

'sDisplayName' value of category name in the output will be specified with '\' separator, e.g. 'RMDemo\Availability\Cost'

## Method: GetClassDefInfo

### Description

Get definition of specified class by class Id/name

### Style

Document

### Input (Literal)

The input of this method is the argument GetClassDefInfo having the structure defined by the following table.

Name	Type	Occurs	Description
GetClassDefInfoRequest	<a href="#">GetClassDefInfoRequest</a>	0..1	Class identification properties, used as search criteria

### Output (Literal)

The output of this method is the argument GetClassDefInfoReply of type [GetClassDefInfoReply](#) having the structure defined by the following table.

Name	Type	Occurs	Description
classDefInfo	<a href="#">ClassDefInfo</a>	1..1	A set of class properties

### Example of usage:

```
<urn:GetClassDefInfoRequest>
  <sessionId>1479221671</sessionId>
  <classSpecifier>
    <Type>1</Type>
    <Value>Class_Name</Value>
  </classSpecifier>
</urn:GetClassDefInfoRequest>
```

## Method: GetCollectionById

### Description

Get a collection specified by collection id.

### Style

Document

### Input (Literal)

The input of this method is the argument GetCollectionById having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
collection-id	int	1..1	Unique identifier of collection

### Output (Literal)

The output of this method is the argument GetCollectionByIdResult having the structure defined by the following table.

Name	Type	Occurs	Description
collection	<a href="#">CollectionEx</a>	1..1	A set of collection properties

### Example of usage:

```
<urn:GetCollectionById>  
  <sessionId>1479221671</sessionId>  
  <collection-id>1</collection-id>  
</urn:GetCollectionById>
```

## Method: GetCollectionByName

### Description

Get a collection specified by name

### Style

Document

### Input (Literal)

The input of this method is the argument GetCollectionByName having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
collection-name	string	1..1	Name of collection

### Output (Literal)

The output of this method is the argument GetCollectionByNameResult having the structure defined by the following table.

Name	Type	Occurs	Description
collection	<a href="#">CollectionEx</a>	1..1	A set of collection properties

### Example of usage:

```
<urn:GetCollectionByName>  
  <sessionId>1479221671</sessionId>  
  <collection-name>Collection_Name</collection-name>  
</urn:GetCollectionByName>
```

## Method: GetCollectionInfo

### Description

Service definition of function ns\_\_GetCollectionInfo

### Style

Document

### Input (Literal)

The input of this method is the argument GetCollectionInfo having the structure defined by the following table.

Name	Type	Occurs	Description
GetCollectionInfoRequest	<a href="#">GetCollectionInfoRequest</a>	0..1	

### Output (Literal)

The output of this method is the argument GetCollectionInfoReply of type [GetCollectionInfoReply](#) having the structure defined by the following table.

Name	Type	Occurs	Description
collectionInfo	<a href="#">CollectionInfo</a>	1..1	



## Method: GetObjectsInCollection

### Description

Get objects in the given collection.

### Style

Document

### Input (Literal)

The input of this method is the argument GetObjectsInCollection having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
collectionId	int	1..1	
bDetagDescription	boolean	0..1	
aAttrList	<a href="#">StringList</a>	0..1	

### Output (Literal)

The output of this method is the argument GetObjectsInCollectionResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">RequirementList</a>	1..1	

## Method: GetObjectsInCollections

### Description

Get objects in the given collections.

### Style

Document

### Input (Literal)

The input of this method is the argument GetObjectsInCollections having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
collectionIds	<a href="#">IdList</a>	1..1	
bDetagDescription	boolean	0..1	
aAttrList	<a href="#">StringList</a>	0..1	

### Output (Literal)

The output of this method is the argument GetObjectsInCollectionsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">RequirementList</a>	1..1	

## Method: GetObjectsInRMDocument

### Description

Service definition of function ns\_\_GetObjectsInRMDocument

### Style

Document

### Input (Literal)

The input of this method is the argument GetObjectsInRMDocument having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nDocId	int	1..1	
detagHtmlAttributes	boolean	0..1	
aAttrList	<a href="#">StringList</a>	0..1	

### Output (Literal)

The output of this method is the argument GetObjectsInRMDocumentResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">RequirementList</a>	1..1	

## Method: GetProjectInfo

### Description

Service definition of function ns\_\_GetProjectInfo

### Style

Document

### Input (Literal)

The input of this method is the argument GetProjectInfo having the structure defined by the following table.

Name	Type	Occurs	Description
GetProjectInfoRequest	<a href="#">GetProjectInfoRequest</a>	0..1	

### Output (Literal)

The output of this method is the argument GetProjectInfoReply of type [GetProjectInfoReply](#) having the structure defined by the following table.

Name	Type	Occurs	Description
projectInfo	<a href="#">ProjectInfo</a>	1..1	

## Method: GetRMDocSnapshotDiffUrl

### Description

Service definition of function ns\_\_GetRMDocSnapshotDiffUrl

### Style

Document

### Input (Literal)

The input of this method is the argument GetRMDocSnapshotDiffUrl having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
chngid	int	1..1	
baseid	int	1..1	

### Output (Literal)

The output of this method is the argument GetRMDocSnapshotDiffUrlResult having the structure defined by the following table.

Name	Type	Occurs	Description
sUrl	string	1..1	

## Method: GetRMDocSnapshots

### Description

Returns list of snapshots for specified document.

### Style

Document

### Input (Literal)

The input of this method is the argument GetRMDocSnapshots having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
documentId	int	1..1	

### Output (Literal)

The output of this method is the argument GetRMDocSnapshotsResult having the structure defined by the following table.

Name	Type	Occurs	Description
snapshots	<a href="#">RtmDocSnaphotOutList</a>	1..1	

## Method: GetRtmDocSnapshotById

### Description

Retrieve document snapshot information by id. See ns\_\_RtmDocSnapshot.

### Style

Document

### Input (Literal)

The input of this method is the argument GetRtmDocSnapshotById having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
id	int	1..1	

### Output (Literal)

The output of this method is the argument GetRtmDocSnapshotByIdResult having the structure defined by the following table.

Name	Type	Occurs	Description
snapshot	<a href="#">RtmDocSnapshotOut</a>	1..1	

## Method: GetRtmDocSnapshotByName

### Description

Retrieve document snapshot information by name. See ns\_\_RtmDocSnapshot.

### Style

Document

### Input (Literal)

The input of this method is the argument GetRtmDocSnapshotByName having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
name	string	1..1	

### Output (Literal)

The output of this method is the argument GetRtmDocSnapshotByNameResult having the structure defined by the following table.

Name	Type	Occurs	Description
snapshot	<a href="#">RtmDocSnapshotOut</a>	1..1	



## Method: GetSharedFile

### Description

Download a shared file for local use

### Style

Document

### Input (Literal)

The input of this method is the argument GetSharedFile having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
iFileStorageId	int	1..1	
oFile	<a href="#">FileAttachment</a>	1..1	

### Output (Literal)

The output of this method is the argument FileAttachmentResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">FileAttachment</a>	1..1	

## Method: GetTemplateFile

### Description

Get the template file of the template specified by template id

### Style

Document

### Input (Literal)

The input of this method is the argument GetTemplateFile having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
id	int	1..1	

### Output (Literal)

The output of this method is the argument GetTemplateFileResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	base64Binary	1..1	

## Method: `getTestAsyncStatus`

### Description

Get status from the `async.test` command

### Style

Document

### Input (Literal)

The input of this method is the argument `getTestAsyncStatus` having the structure defined by the following table.

Name	Type	Occurs	Description
<code>cmdToken</code>	string	1..1	

### Output (Literal)

The output of this method is the argument `getTestAsyncStatusResponseResult` having the structure defined by the following table.

Name	Type	Occurs	Description
<code>result</code>	<a href="#">testAsyncStatusResponse</a>	1..1	

## Method: GetUserAttributeDefInfo

### Description

Get detailed information about user attribute and list of its values.

### Style

Document

### Input (Literal)

The input of this method is the argument GetUserAttributeDefInfo having the structure defined by the following table.

Name	Type	Occurs	Description
GetUserAttributeDefInfoRequest	<a href="#">GetUserAttributeDefInfoRequest</a>	0..1	

### Output (Literal)

The output of this method is the argument GetUserAttributeDefInfoReply of type [GetUserAttributeDefInfoReply](#) having the structure defined by the following table.

Name	Type	Occurs	Description
attributeDefInfo	<a href="#">UserAttributeDefInfo</a>	1..1	

### Remarks

The GetUserAttributeDefInfo call provides a method for get detailed information about user attribute and list of its values. In the output for users <DisplayName> value changes depending on the option selected in Project Settings.

Please note that user attribute values are filtered if category was specified.

#### Example of usage:

```
<urn:GetUserAttributeDefInfo>
  <urn:GetUserAttributeDefInfoRequest>
    <sessionId>1467923392</sessionId>
    <classSpecifier>
      <Type>1</Type>
      <Value>Product_Requirements</Value>
    </classSpecifier>
    <attributeDefSpecifier>
      <Type>1</Type>
      <Value>Manager</Value>
      <CategoryInfo>
        <CategoryId>3</CategoryId>
      </CategoryInfo>
    </attributeDefSpecifier>
  </urn:GetUserAttributeDefInfoRequest>
</urn:GetUserAttributeDefInfo>
```

## Method: IsSSOLoginEnabled

### Description

Service definition of function ns\_\_IsSSOLoginEnabled

### Style

Document

### Input (Literal)

The input of this method is the argument IsSSOLoginEnabled having the structure defined by the following table.

Name	Type	Occurs	Description
sDatabase	string	1..1	

### Output (Literal)

The output of this method is the argument IsSSOLoginEnabledResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	boolean	1..1	

## Method: LinkObjects

### Description

Link multiple children to a parent object

### Style

Document

### Input (Literal)

The input of this method is the argument LinkObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sParentClassName	string	1..1	
sParentPUID	string	1..1	
sChildClassName	string	1..1	
aChildPUIDs	<a href="#">StringList</a>	1..1	

### Output (Literal)

The output of this method is the argument LinkObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	string	1..1	

### Remarks

#### Example of usage:

```
<urn:LinkObjects>
  <sessionId>11111111</sessionId>
  <sParentClassName>Marketing_Requirements</sParentClassName>
  <sParentPUID>MRKT_000020</sParentPUID>
  <sChildClassName>Product_Requirements</sChildClassName>
  <aChildPUIDs>
    <item>PROD_000023</item>
  </aChildPUIDs>
</urn:LinkObjects>
```

#### Additional Info:

It is also possible to undelete deleted requirement links using LinkObjects/ LinkObjectsEx/ LinkObjectsExById web services. Any links between requirements that were deleted now can be restored. Usage is the same as on creating link.

## Method: LinkObjectsEx

### Description

Link multiple children to a parent object

### Style

Document

### Input (Literal)

The input of this method is the argument LinkObjectsEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nRelationId	int	0..1	
sRelationName	string	0..1	
sParentPUID	string	1..1	
aChildPUIDs	<a href="#">StringList</a>	1..1	

### Output (Literal)

The output of this method is the argument LinkObjectsExResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	string	1..1	

### Remarks

#### Example of usage:

```
<urn:LinkObjectsEx>
  <sessionId>1111111111</sessionId>
  <nRelationId>5</nRelationId>
  <sParentPUID>MRKT_000021</sParentPUID>
  <aChildPUIDs>
    <item>PROD_000023</item>
  </aChildPUIDs>
</urn:LinkObjectsEx>
```

#### Additional Info:

It is also possible to undelete deleted requirement links using LinkObjects/ LinkObjectsEx/ LinkObjectsExById web services. Any links between requirements that were deleted now can be restored. Usage is the same as on creating link.

## Method: LinkObjectsExById

### Description

Link multiple children to a parent object

### Style

Document

### Input (Literal)

The input of this method is the argument LinkObjectsExById having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nRelationId	int	0..1	
sRelationName	string	0..1	
nParentId	int	1..1	
aChildIds	<a href="#">IdList</a>	1..1	

### Output (Literal)

The output of this method is the argument LinkResults having the structure defined by the following table.

Name	Type	Occurs	Description
sResult	string	1..1	
lLinkList	<a href="#">StringList</a>	0..1	

### Remarks

#### Example of usage:

```
<urn:LinkObjectsExById>
  <sessionId>111111111</sessionId>
  <nRelationId>5</nRelationId>
  <nParentId>32</nParentId>
  <aChildIds>
    <item>47</item>
  </aChildIds>
</urn:LinkObjectsExById>
```

#### Additional Info:

It is also possible to undelete deleted requirement links using LinkObjects/ LinkObjectsEx/ LinkObjectsExById web services. Any links between requirements that were deleted now can be restored. Usage is the same as on creating link.



## Method: ListAllAllowedCategories

### Description

Get a list of all allowed categories for the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListAllAllowedCategories having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument ListAllAllowedCategoriesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CategoryList</a>	1..1	

## Method: ListCategories

### Description

Get a list of child categories for the given parent category.

### Style

Document

### Input (Literal)

The input of this method is the argument ListCategories having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
categoryId	long	1..1	

### Output (Literal)

The output of this method is the argument ListCategoriesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CategoryList</a>	1..1	

## Method: ListCollections

### Description

Get a list of collection names in the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListCollections having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument ListCollectionsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CollectionList</a>	1..1	

## Method: ListCollectionsEx

### Description

Get a list of collections in the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListCollectionsEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument ListCollectionsExResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CollectionExList</a>	1..1	

## Method: ListCollectionsEx2

### Description

Get a list of collections in the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListCollectionsEx2 having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument ListCollectionsEx2Response having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CollectionEx2List</a>	1..1	

## Method: ListObjectLinks

### Description

List secondary links for a specified requirement

### Style

Document

### Input (Literal)

The input of this method is the argument ListObjectLinks having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
aRequirement	<a href="#">Requirement</a>	1..1	
bIncludeDeleted	boolean	0..1	

### Output (Literal)

The output of this method is the argument ListObjectLinksResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	<a href="#">LinkList</a>	1..1	

### Remarks

#### Additional info:

It is possible to return deleted links in the result list. If bIncludeDeleted value is set to true then all related requirements will be returned. Each returned item has status of link (current/deleted).

If bIncludeDeleted it set to false, or not specified, only current links will be returned.

#### Example of usage:

```
<urn:ListObjectLinks>
  <sessionId>1436973992</sessionId>
  <aRequirement>
    <sClassName>Marketing_Requirements</sClassName>
    <nObjectId>1</nObjectId>
  </aRequirement>
  <bIncludeDeleted>true</bIncludeDeleted>
</urn:ListObjectLinks>
```

## Method: ListRootCategories

### Description

Get a list of top-level categories in the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListRootCategories having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument ListRootCategoriesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">CategoryList</a>	1..1	

## Method: ListRtmDocuments

### Description

Get a list of rtm documents in the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListRtmDocuments having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
filter	<a href="#">DocumentsFilter</a>	0..1	

### Output (Literal)

The output of this method is the argument ListRtmDocumentsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RtmDocumentList</a>	1..1	

### Remarks

#### Additional info:

ListRtmDocuments WS also allows to filter documents by category. optional input parameters were added:

- sCategory
- bIncludeSubCategories,

Category can be specified by full path (separated with '\ ' or '/') or by category\_id.

#### Example of usage:

```
<urn:ListRtmDocuments>
  <sessionId>1</sessionId>
  <filter>
    <sCreatedBy>ephoto</sCreatedBy>
    <sCategory>RMDEMO\Functional</sCategory>
    <bIncludeSubCategories>true</bIncludeSubCategories>
  </filter>
</urn:ListRtmDocuments>
```

It is also possible to filter list of documents to show Master and Child documents or not, depending on bIncludeMasterDocuments and bIncludeChildDocuments values.

#### Example of usage:

```
<urn:ListRtmDocuments>
  <sessionId>1</sessionId>
  <filter>
    <sCreatedBy>ephoto</sCreatedBy>
    <bIncludeMasterDocuments>true</bIncludeMasterDocuments>
    <bIncludeChildDocuments>>false</bIncludeChildDocuments>
  </filter>
</urn:ListRtmDocuments>
```



## Method: ListTemplates

### Description

Get a list of document templates in the project.

### Style

Document

### Input (Literal)

The input of this method is the argument ListTemplates having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument ListTemplatesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">TemplateList</a>	1..1	

## Method: Login

### Description

Login into RTM - use returned sessionId for subsequent calls.

### Style

Document

### Input (Literal)

The input of this method is the argument Login having the structure defined by the following table.

Name	Type	Occurs	Description
sUserId	string	0..1	
sPassword	string	0..1	
sProjectName	string	0..1	
sDatabase	string	1..1	

### Output (Literal)

The output of this method is the argument LoginResult having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Remarks

Possible to login using Internal RM user or SSO user credentials.

#### Example of usage:

```
<urn:Login>
  <sUserId>ephoto</sUserId> <!--Internal RM user name or SSO user name-->
  <sPassword>rtm</sPassword><!--Internal RM user password or SSO user password-->
  <sProjectName>RMDEMO</sProjectName>
  <sDatabase>RM</sDatabase>
</urn:Login>
```

Possible to use RM Browser session in any RM web service instead of sessionId value.

Required values:

- content of "authenticatedxxxxxx" cookie
- name of the database to log in

To use it specify for sessionId value:

"database name":"authenticatedxxxxxx cookie value" (without double quotes)

#### Example of usage:

```
<urn:ListRtmDocuments>
  <sessionId>RM:2EE9D7815C921FCB3E8F1FB17F8C9D83F5EC103B4B055E2AA62900F74F95E25
  0B4C63A18A362554EE703EA2BD90F4C4771F8BAC71D6B8520CCCDF2FE64D68A1269CC8741A
  F586AE10EFD7A5A905D5F71CAC63BAFBBDD4FD33408356A970669ADD5D4F37CEEEEA89865
  930ECF8ADED5C26B2C6E62A6561592</sessionId>
</urn:ListRtmDocuments>
```

## Method: LoginByProjectId

### Description

Login into RTM - use returned sessionId for subsequent calls.

### Style

Document

### Input (Literal)

The input of this method is the argument LoginByProjectId having the structure defined by the following table.

Name	Type	Occurs	Description
sUserId	string	0..1	
sPassword	string	0..1	
nProjectId	int	1..1	
sDatabase	string	1..1	

### Output (Literal)

The output of this method is the argument LoginByProjectIdResult having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Remarks

Possible to login using Internal RM user or SSO user credentials.

#### Example of usage:

```
<urn:LoginByProjectId>
  <sUserId>ephoto</sUserId> <!--Internal RM user name or SSO user name-->
  <sPassword>rtm</sPassword><!--Internal RM user password or SSO user password-->
  <nProjectId>1</nProjectId>
  <sDatabase>RM</sDatabase>
</urn:LoginByProjectId>
```

## Method: LoginEx

### Description

Login into RTM and return if it was admin login along with sessionId.

### Style

Document

### Input (Literal)

The input of this method is the argument LoginEx having the structure defined by the following table.

Name	Type	Occurs	Description
sUserId	string	0..1	
sPassword	string	0..1	
sProjectName	string	0..1	
sDatabase	string	1..1	

### Output (Literal)

The output of this method is the argument LoginExResult having the structure defined by the following table.

Name	Type	Occurs	Description
info	<a href="#">LoginExResultInfo</a>	1..1	

### Remarks

Possible to login using Internal RM user or SSO user credentials.

#### Example of usage:

```
<urn:LoginEx>
  <sUserId>ephoto</sUserId> <!--Internal RM user name or SSO user name-->
  <sPassword>rtm</sPassword><!--Internal RM user password or SSO user password-->
  <sProjectName>RMDEMO</sProjectName>
  <sDatabase>RM</sDatabase>
</urn:LoginEx>
```

## Method: Logout

### Description

Logout of RTM.

### Style

Document

### Input (Literal)

The input of this method is the argument Logout having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument LogoutResult having the structure defined by the following table.

Name	Type	Occurs	Description
value	int	1..1	

## Method: ModifyObjectsByScript

### Description

Mass Replace, Update, Approve, Reject, Delete, Remove, Undelete, Transition requirements by script text or report name. (Reports with run-time parameters are also supported)

### Style

Document

### Input (Literal)

The input of this method is the argument ModifyObjectsByScript having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sAction	string	1..1	
aAttributes	<a href="#">NameValueList</a>	1..1	
anScript	<a href="#">Script</a>	1..1	
anTransition	<a href="#">InTransition</a>	0..1	
bDontGenerateAlfEvent	boolean	0..1	

### Output (Literal)

The output of this method is the argument ModifyObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
aSucceedObjects	<a href="#">ObjectsList</a>	1..1	
aFailedObjects	<a href="#">ObjectsList</a>	1..1	

### Remarks

#### Additional Info:

New attributes values section is used for replace, update actions. Either it used for Reject action to set up CHANGE\_REASON attribute.

Note that for reject Action of requirements CHANGE\_REASON is mandatory.

For locating requirements for mass update next possibilities:

- script name
- script text

Using action 'transition' possible to transition several requirements to some state.

#### Example of usage:

1) Update requirements by script text:

```
<urn:ModifyObjectsByScript>
  <sessionId>1</sessionId>
  <sAction>Update</sAction>
  <aAttributes>
    <item>
      <sName>PRIORITY</sName>
      <sValue>1</sValue>
    </item>
    <item>
      <sName>TT_ITEM_STATE</sName>
      <sValue>New</sValue>
    </item>
  </aAttributes>
  <anScript>
    <sScriptText>select object_id from Marketing_Requirements where STATUS IN ('Current') and group
in ('ePhoto Requirements') </sScriptText>
  </anScript>
</urn:ModifyObjectsByScript>
```

2) Remove requirements by script text

```

<urn:ModifyObjectsByScript>
  <sessionId>1</sessionId>
  <sAction>Remove</sAction>
  <anScript>
    <sScriptText>select object_id from Marketing_Requirements where STATUS IN ('Current') and
    DELIVERY_PHASE in ('TBD')</sScriptText>
  </anScript>
</urn:ModifyObjectsByScript>

```

3) *Reject requirements by scriptname (also with run-time parameters):*

```

<urn:ModifyObjectsByScript>
  <sessionId>1</sessionId>
  <sAction>Reject</sAction>
  <aAttributes>
    <item>
      <sName>CHANGE_REASON</sName>
      <sValue>Some reason text...</sValue>
    </item>
  </aAttributes>
  <anScript>
    <anSavedReport>
      <sCategoryName>RMDEMO</sCategoryName>
      <sReportName>All changed requirements from document (run time)</sReportName>
    </anSavedReport>
  </anScript>
  <anRunTimeParameters>
    <item>
      <sName>RTP__GROUP_1</sName>
      <sValue>ePhoto Requirements</sValue>
    </item>
  </anRunTimeParameters>
</urn:ModifyObjectsByScript>

```

4) *Transition requirements by script:*

```

<urn:ModifyObjectsByScript>
  <sessionId>1436979823</sessionId>
  <sAction>transition</sAction>
  <anScript>
    <sScriptText>select object_id from Product_Requirements where STATUS IN ('Current')
  </sScriptText>
  </anScript>
  <anTransition>
    <sTransitionName>Approve</sTransitionName>
  </anTransition>
</urn:ModifyObjectsByScript>

```

## Method: ProposeNewRequirement

### Description

Creates a requirement proposal.

### Style

Document

### Input (Literal)

The input of this method is the argument ProposeNewRequirement having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sClassName	string	1..1	
aAttrList	<a href="#">NameValueList</a>	1..1	
anECPsInfo	<a href="#">ECPsObjectInfo</a>	0..1	
inChangeReason	string	1..1	

### Output (Literal)

The output of this method is the argument ProposeNewRequirementResult having the structure defined by the following table.

Name	Type	Occurs	Description
oProposeNewRequirementResult	<a href="#">ProposeNewRequirementResult</a>	1..1	

### Example of usage:

```
<urn:ProposeNewRequirement>
  <sessionId>1418399921</sessionId>
  <sClassName>Marketing_Requirements</sClassName>
  <aAttrList>
    <!--Zero or more repetitions:-->
    <item>
      <sName>Title</sName>
      <!--Optional:-->
      <sValue>new MRKT 15 - title</sValue>
    </item>
    <item>
      <sName>Text</sName>
      <!--Optional:-->
      <sValue>new MRKT 15 - text</sValue>
    </item>
  </aAttrList>
  <!--Optional:-->
  <anECPsInfo>
    <iECPsClassId>18</iECPsClassId>
    <iECPsObjectId>1</iECPsObjectId>
  </anECPsInfo>
  <!--Optional:-->
  <inChangeReason>vvvvv</inChangeReason>
</urn:ProposeNewRequirement>
```



## Method: PutSharedFile

### Description

Upload a shared file for access by others

### Style

Document

### Input (Literal)

The input of this method is the argument PutSharedFile having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
oFile	<a href="#">FileAttachment</a>	1..1	

### Output (Literal)

The output of this method is the argument PutSharedFileResponse having the structure defined by the following table.

Name	Type	Occurs	Description
iFileStorageId	int	1..1	

## Method: QueryAttributes

### Description

Return the list of attributes defined in a class.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryAttributes having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sClassName	string	1..1	
CategoryInfo	<a href="#">CategoryInfo</a>	0..1	Category identification properties, used as search criteria

### Output (Literal)

The output of this method is the argument QueryAttributesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AttributeDefList</a>	1..1	

### Remarks

The QueryAttributes call provides a method for getting attributes list from the specified class. Attribute properties such as mandatory, default values, etc. will be also returned in the output. There is also a possibility to filter user attributes values to have only users/groups that are assigned to the specified category.

### Example of usage:

1. Get all attributes from the specified class:

```
<urn:QueryAttributes>
  <sessionId>111111111</sessionId>
  <sClassName>Product_Requirements</sClassName>
</urn:QueryAttributes>
```

2. Get all attributes of the specified class but filter possible values of user attributes by category:

```
<urn:QueryAttributes>
  <sessionId>111111111</sessionId>
  <sClassName>Product_Requirements</sClassName>
  <CategoryInfo>
    <CategoryId>-1</CategoryId>
    <DisplayName>RMDEMO\Availability</DisplayName>
  </CategoryInfo>
</urn:QueryAttributes>
```

## Method: QueryAttributesEx

### Description

Return the list of attributes defined in a class.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryAttributesEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sClassName	string	1..1	
CategoryInfo	<a href="#">CategoryInfo</a>	0..1	Category identification properties, used as search criteria

### Output (Literal)

The output of this method is the argument QueryAttributesExResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AttributeDefExList</a>	1..1	

### Remarks

The QueryAttributesEx call provides a method for getting attributes list from the specified class. All attribute properties such as mandatory, default values, etc returned in the output. There is also a possibility to filter user attributes values to have only users/groups assigned to the specified category.

### Example of usage:

1. Get all attributes from the specified class:

```
<urn:QueryAttributesEx>
  <sessionId>1111111111</sessionId>
  <sClassName>Product_Requirements</sClassName>
</urn:QueryAttributesEx>
```

2. Get all attribute of the specified class but filter possible values of user attributes by category:

```
<urn:QueryAttributesEx>
  <sessionId>1111111111</sessionId>
  <sClassName>Product_Requirements</sClassName>
  <CategoryInfo>
    <CategoryId>17</CategoryId>
  </CategoryInfo>
</urn:QueryAttributesEx>
```

## Method: QueryAttributesEx2

### Description

Return the list of attributes defined in a class.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryAttributesEx2 having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sClassName	string	1..1	Name of requirement class
CategoryInfo	<a href="#">CategoryInfo</a>	0..1	Category identification properties, used as search criteria

### Output (Literal)

The output of this method is the argument QueryAttributesEx2Response having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">AttributeDefEx2List</a>	1..1	List of attribute properties

### Remarks

QueryAttributesEx2 call provides a method for getting attributes list from the specified class. All attribute properties such as mandatory, default values, etc returned in the output.

There is also a possibility to filter user attributes values to have only users/groups assigned to the specified category.

Service also returns information about list attribute values, whether value is default and deleted.

### Example of usage:

1. Get all attributes from the specified class:

```
<urn:QueryAttributesEx2>
  <sessionId>1111111111</sessionId>
  <sClassName>Product_Requirements</sClassName>
</urn:QueryAttributesEx>
```

2. Get all attribute of the specified class but filter possible values of user attributes by category:

```
<urn:QueryAttributesEx2>
  <sessionId>1111111111</sessionId>
  <sClassName>Product_Requirements</sClassName>
  <CategoryInfo>
    <CategoryId>17</CategoryId>
  </CategoryInfo>
</urn:QueryAttributesEx>
```

## Method: QueryClasses

### Description

Return the list of defined classes in project.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryClasses having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument QueryClassesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">ClassDefList</a>	1..1	

## Method: QueryClassesEx

### Description

Return the list of defined classes in project.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryClassesEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument QueryClassesExResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">ClassDefExList</a>	1..1	

## Method: QueryDatabases

### Description

Return the list of oracle databases.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryDatabases that is always empty.

### Output (Literal)

The output of this method is the argument QueryDatabasesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">DatabaseList</a>	1..1	

## Method: QueryLinkClasses

### Description

Return the list of linked classes information in project.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryLinkClasses having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nClassId	int	1..1	

### Output (Literal)

The output of this method is the argument QueryLinkClassesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">LinkClassDefList</a>	1..1	



## Method: QueryProjects

### Description

Return the list of defined projects in database.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryProjects having the structure defined by the following table.

Name	Type	Occurs	Description
sUserId	string	0..1	
sPassword	string	0..1	
sDatabase	string	1..1	

### Output (Literal)

The output of this method is the argument QueryProjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">ProjectList</a>	1..1	

## Method: QueryProjectsEx

### Description

Return the list of defined projects in database.

### Style

Document

### Input (Literal)

The input of this method is the argument QueryProjectsEx having the structure defined by the following table.

Name	Type	Occurs	Description
sUserId	string	0..1	
sPassword	string	0..1	
sDatabase	string	1..1	

### Output (Literal)

The output of this method is the argument QueryProjectsExResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">ProjectExList</a>	1..1	



```

xJR2RwZG1WdUIIUnZJSFJvWINCM1IYa2dkR2hoZENCcwpZWEpuWlhJZ2NISnBibIJ6SUcxaG
VTQmlaU0JoYzNOcGJXbHNZWFJsWkNCaGJtUWdZU0J6YjJ4MWRHbHZiaUJ6YUdGc2JDQm
kKWINCamFHOXpaVzRnYVc0Z2NHRnlkQ0JpWVhObFpDQjFjRzl1SUhOMVkyZ2dabXhsZUdsa
WFXeHBkSGt1CgotLS0tLS0tLS0tLS0tLUJvdW5kYXJ5LTAwPV9SODZGZVF6VIBzU3ZIVUc3Z1
NRdS0tCg==</Attribute>
<Attribute attrid="26" typeid="12" title="Rqmt ID">TVJLVF8wMDAwMDI=</Attribute>
</Requirement>
</Chapter>
</Document>]]></sContent>
</ns:RtmDocumentOut>

```

**Additional info:**

In the output of web service, each chapter and each requirement has **iid** attribute which means internal id of object in the document.

**iid** value can be used in next web services which work with document structure:

```

DocumentAddChapter
DocumentMoveObject
DocumentRemoveObject

```

## Method: QuerySystemInfo

### Description

Return the system information.

### Style

Document

### Input (Literal)

The input of this method is the argument QuerySystemInfo having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument SystemInfoResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">SystemInfo</a>	1..1	

## Method: ReadObject

### Description

Read object information with all the attribute values

### Style

Document

### Input (Literal)

The input of this method is the argument ReadObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
aRequirement	<a href="#">RequirementIdentifier</a>	1..1	

### Output (Literal)

The output of this method is the argument ReadObjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: ReadObjectAttachment

### Description

Read attachment of a requirement

### Style

Document

### Input (Literal)

The input of this method is the argument ReadObjectAttachment having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
aRequirement	<a href="#">RequirementIdentifier</a>	1..1	
sAttrName	string	1..1	

### Output (Literal)

The output of this method is the argument ReadObjectAttachmentResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">FileAttachment</a>	1..1	

## Method: ReadObjectEx

### Description

Read object information with all the attribute values

### Style

Document

### Input (Literal)

The input of this method is the argument ReadObjectEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
aRequirement	<a href="#">RequirementIdentifier</a>	1..1	
detagHtmlAttributes	boolean	0..1	

### Output (Literal)

The output of this method is the argument ReadObjectExResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	



## Method: ReadObjects

### Description

Read object information with all the attribute values

### Style

Document

### Input (Literal)

The input of this method is the argument ReadObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
requirements	<a href="#">RequirementIdentifierList</a>	1..1	

### Output (Literal)

The output of this method is the argument ReadObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementList</a>	1..1	

## Method: ReadSyncXrefLink

### Description

Reads a link from Sync\_Xref table

### Style

Document

### Input (Literal)

The input of this method is the argument ReadSyncXrefLink having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
aXref	<a href="#">SyncXrefLink</a>	1..1	

### Output (Literal)

The output of this method is the argument ReadSyncXrefLinkResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">SyncXrefLinkList</a>	1..1	

## Method: RejectChangeRequest

### Description

Service definition of function ns\_\_RejectChangeRequest

### Style

Document

### Input (Literal)

The input of this method is the argument RejectChangeRequest having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
className	string	1..1	
requestId	long	1..1	
reason	string	1..1	

### Output (Literal)

The output of this method is the argument RejectChangeRequestResult having the structure defined by the following table.

Name	Type	Occurs	Description
status	<a href="#">CommandStatus</a>	1..1	

## Method: RemoveObject

### Description

RemoveObject Removes a requirement from the database

### Style

Document

### Input (Literal)

The input of this method is the argument RemoveObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
objectDef	<a href="#">ObjectDef</a>	1..1	

### Output (Literal)

The output of this method is the argument RemoveObjectResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	boolean	1..1	

## Method: RemoveObjectFromCollection

### Description

Service definition of function ns\_\_RemoveObjectFromCollection

### Style

Document

### Input (Literal)

The input of this method is the argument RemoveObjectFromCollection having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
objectIdentifier	<a href="#">RequirementIdentifier</a>	1..1	
collectionName	string	1..1	

### Output (Literal)

The output of this method is the argument removeObjectFromCollectionResponseResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">removeObjectFromCollectionResponse</a>	1..1	

## Method: ReplaceObject

### Description

Replaces a RM requirement with specified requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument ReplaceObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	

### Output (Literal)

The output of this method is the argument ReplaceObjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: ReplaceObjectEx

### Description

Replaces a RM requirement with specified requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument ReplaceObjectEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	
bDontGenerateAlfEvent	boolean	0..1	

### Output (Literal)

The output of this method is the argument ReplaceObjectExResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: ResolveSuspicion

### Description

Clears suspect links.

### Style

Document

### Input (Literal)

The input of this method is the argument ResolveSuspicion having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sClassName	string	1..1	
nObjectId	int	1..1	
bPrimaryLinks	boolean	0..1	If <b>true</b> , all outgoing links will be cleared from suspect. If <b>false</b> , outgoing links will still be suspect. Default is true
bSecondaryLinks	boolean	0..1	If <b>true</b> , all incoming links will be cleared from suspect. If <b>false</b> , incoming links will still be suspect. Default is true



## Method: ReplaceObjectWithAttachment

### Description

Replace a RM requirement with attachment, given a class id and requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument ReplaceObjectWithAttachment having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	
sAttrName	string	1..1	
oFile	<a href="#">FileAttachment</a>	0..1	
bDontGenerateAlfEvent	boolean	0..1	

### Output (Literal)

The output of this method is the argument ReplaceObjectWithAttachmentResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: RTMDocumentAddChapter

### Description

The New Chapter Shall be added after the Existing Chapter at the same level.

### Style

Document

### Input (Literal)

The input of this method is the argument RTMDocumentAddChapter having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nDocument-id	int	1..1	
nExistChapter-id	int	1..1	
chapterName	<a href="#">ns-chapterDetails</a>	1..1	

### Output (Literal)

The output of this method is the argument RTMDocumentAddChapterResponse having the structure defined by the following table.

Name	Type	Occurs	Description
sMessage	string	1..1	

## Method: RTMDocumentAddRequirement

### Description

The Requirement Shall be added in the Existing Chapter.

### Style

Document

### Input (Literal)

The input of this method is the argument RTMDocumentAddRequirement having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nDocument-id	int	1..1	
nChapter-id	int	0..1	
sClassName	string	0..1	
nObject-id	int	0..1	
anObject	<a href="#">Requirement</a>	0..1	

### Output (Literal)

The output of this method is the argument RTMDocumentAddRequirementResponse having the structure defined by the following table.

Name	Type	Occurs	Description
sMessage	string	1..1	

## Method: RTMDocumentExchangeRequirement

### Description

Exchange requirements inplace.

### Style

Document

### Input (Literal)

The input of this method is the argument RTMDocumentExchangeRequirement having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nDocument-id	int	1..1	
nChapter-id	int	1..1	
sClassName	string	1..1	
nOldObject-id	int	1..1	
nNewObject-id	int	1..1	
ECPObject	<a href="#">ECPObjInfo</a>	0..1	

### Output (Literal)

The output of this method is the argument RTMDocumentExchangeResponse having the structure defined by the following table.

Name	Type	Occurs	Description
sMessage	string	1..1	

## Method: RTMDocumentRemoveRequirement

### Description

Marks requirements as removed from the Document.

### Style

Document

### Input (Literal)

The input of this method is the argument RTMDocumentRemoveRequirement having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nDocument-id	int	1..1	
nChapter-id	int	1..1	
sClassName	string	1..1	
nObject-id	int	1..1	

### Output (Literal)

The output of this method is the argument RTMDocumentRequirementResponse having the structure defined by the following table.

Name	Type	Occurs	Description
sMessage	string	1..1	

## Method: runTestAsync

### Description

Run the async. test commmand

### Style

Document

### Input (Literal)

The input of this method is the argument runTestAsync having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
param-1	<a href="#">runTestAsyncInputData</a>	1..1	

### Output (Literal)

The output of this method is the argument runTestAsyncResponseResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">runTestAsyncResponse</a>	1..1	

## Method: SendCMNotifications

### Description

Send notifications to CM

### Style

Document

### Input (Literal)

The input of this method is the argument SendCMNotifications having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
CMUserId	string	1..1	
CMPassword	string	1..1	

### Output (Literal)

The output of this method is the argument CMNotificationsResult having the structure defined by the following table.

Name	Type	Occurs	Description
nValue	int	1..1	

## Method: TransitionObject

### Description

Transition requirement to the specified state

### Style

Document

### Input (Literal)

The input of this method is the argument TransitionObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">TransitObject</a>	1..1	

### Output (Literal)

The output of this method is the argument TransitionObjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
sPUIID	string	1..1	
sClassName	string	1..1	
sDescription	string	0..1	
sCreatedBy	string	1..1	
sModifiedBy	string	1..1	
nCreateTime	dateTime	1..1	
nModifiedTime	dateTime	1..1	
sTitle	string	0..1	
nObjectId	int	1..1	
nObjectVersionId	int	1..1	
sURL	string	1..1	
sState	string	1..1	
sOwner	string	1..1	

### Remarks

#### Example of usage:

```
<urn:TransitionObject>
  <sessionId>111111111</sessionId>
  <anObject>
    <sClassName>Component_Requirements</sClassName>
    <nObjectId>20</nObjectId>
    <sTransitionName>DELEGATE</sTransitionName>
    <aAttrList>
      <item>
        <sName>DEVELOPER</sName>
        <sValue>MICHAEL</sValue>
      </item>
    </aAttrList>
  </anObject>
</urn:TransitionObject>
```



## Method: UnlinkObjects

### Description

Unlink multiple children from a parent object

### Style

Document

### Input (Literal)

The input of this method is the argument UnlinkObjects having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sParentClassName	string	1..1	
sParentPUID	string	1..1	
sChildClassName	string	1..1	
aChildPUIDs	<a href="#">StringList</a>	1..1	
bOnlyDelete	boolean	0..1	

### Output (Literal)

The output of this method is the argument UnlinkObjectsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	string	1..1	

### Remarks

#### Example of usage:

```
<urn:UnlinkObjects>
  <sessionId>11111111</sessionId>
  <sParentClassName>Marketing_Requirements</sParentClassName>
  <sParentPUID>MRKT_000020</sParentPUID>
  <sChildClassName>Product_Requirements</sChildClassName>
  <aChildPUIDs>
    <item>PROD_000023</item>
  </aChildPUIDs>
  <bOnlyDelete>>false</bOnlyDelete>
</urn:UnlinkObjects>
```

#### Additional Info:

It is possible not only remove requirement links but also delete requirement links in UnLinkObjects, UnLinkObjectsEx and UnLinkObjectsExById web services. If bOnlyDelete input parameter specified as true, then link will be deleted. If false or not specified then link will be removed at all.

## Method: UnlinkObjectsEx

### Description

Unlink multiple children from a parent object

### Style

Document

### Input (Literal)

The input of this method is the argument UnlinkObjectsEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nRelationId	int	0..1	
sRelationName	string	0..1	
sParentPUID	string	1..1	
aChildPUIDs	<a href="#">StringList</a>	1..1	
bOnlyDelete	boolean	0..1	

### Output (Literal)

The output of this method is the argument UnlinkObjectsExResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	string	1..1	

### Remarks

#### Example of usage:

```
<urn:UnlinkObjectsEx>
  <sessionId>1111111111</sessionId>
  <nRelationId>5</nRelationId>
  <sParentPUID>MRKT_000021</sParentPUID>
  <aChildPUIDs>
    <item>PROD_000023</item>
  </aChildPUIDs>
  <bOnlyDelete>>false</bOnlyDelete>
</urn:UnlinkObjectsEx>
```

#### Additional Info:

It is possible not only remove requirement links but also delete requirement links in UnLinkObjects, UnLinkObjectsEx and UnLinkObjectsExById web services. If bOnlyDelete input parameter specified as true, then link will be deleted. If false or not specified then link will be removed at all.

## Method: UnlinkObjectsExById

### Description

Unlink multiple children from a parent object

### Style

Document

### Input (Literal)

The input of this method is the argument UnlinkObjectsExById having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
nRelationId	int	0..1	
sRelationName	string	0..1	
nParentId	int	1..1	
aChildIds	<a href="#">IdList</a>	1..1	
bOnlyDelete	boolean	0..1	

### Output (Literal)

The output of this method is the argument UnLinkResults having the structure defined by the following table.

Name	Type	Occurs	Description
sResult	string	1..1	
lLinkList	<a href="#">StringList</a>	0..1	

### Remarks

#### Example of usage:

```
<urn:UnlinkObjectsExById>
<sessionId>11111111</sessionId>
<nRelationId>5</nRelationId>
<nParentId>55</nParentId>
<aChildIds>
<item>32</item>
</aChildIds>
<bOnlyDelete>>false</bOnlyDelete>
</urn:UnlinkObjectsExById>
```

#### Additional Info:

It is possible not only remove requirement links but also delete requirement links in UnLinkObjects, UnLinkObjectsEx and UnLinkObjectsExById web services. If bOnlyDelete input parameter specified as true, then link will be deleted. If false or not specified then link will be removed at all.

## Method: UpdateObject

### Description

Updates a RM requirement with specified requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateObject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	

### Output (Literal)

The output of this method is the argument UpdateObjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: UpdateObjectAttachment

### Description

Updates a RM requirement attachment

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateObjectAttachment having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sClassName	string	1..1	
sPUID	string	1..1	
sAttrName	string	1..1	
oFile	<a href="#">FileAttachment</a>	0..1	

### Output (Literal)

The output of this method is the argument UpdateObjectAttachmentResponse having the structure defined by the following table.

Name	Type	Occurs	Description
results	string	1..1	

## Method: UpdateObjectEx

### Description

Updates a RM requirement with specified requirement data

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateObjectEx having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
anObject	<a href="#">Requirement</a>	1..1	
bDontGenerateAlfEvent	boolean	0..1	

### Output (Literal)

The output of this method is the argument UpdateObjectExResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">RequirementOut</a>	1..1	

## Method: UpdateTemplate

### Description

Update the template name, filename, and description fields and the template file.

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateTemplate having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
docTemplate	<a href="#">Template</a>	1..1	
encodedContent	base64Binary	0..1	

### Output (Literal)

The output of this method is the argument UpdateTemplateResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	int	1..1	

## Method: UpdateTemplateFile

### Description

Replace the template file of the template specified by template id

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateTemplateFile having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
id	int	1..1	
encodedContent	base64Binary	0..1	

### Output (Literal)

The output of this method is the argument UpdateTemplateFileResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	int	1..1	



## Method: UploadImageForHTMLAttribute

### Description

Upload picture and file to the RM server

### Style

Document

### Input (Literal)

The input of this method is the argument UploadImageForHTMLAttribute having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
files	<a href="#">ImageList</a>	1..1	

### Output (Literal)

The output of this method is the argument UploadImageResponse having the structure defined by the following table.

Name	Type	Occurs	Description
aSucceed	<a href="#">ImageUploadResultList</a>	1..1	
aFailed	<a href="#">ImageUploadResultList</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:UploadImageForHTMLAttribute>
  <sessionId>1406221868</sessionId>
  <files>
    <item>
      <!--test2.gif is a local file on RM application server-->
      <sFullPath>c:\Temp\_a\test2.gif</sFullPath>
      <sFilename>test2.gif</sFilename>
    </item>
    <item>
      <sFilename>test1.png</sFilename>
      <encodedContents>iVBORw0KGgoAAAANSUgAAADwAAAA1CAIAAACSkR/tAAAAAXNSR0
      lArs4c6QAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAADsMAAA7DAcdvqGQAAAHxSURBVGh
      D7ZQxcslwEEU5FwfiPJyBI6TgAByBloouDTMumKGglJL2S1ptstgSlS YEvf mTSXYV7bMte/V4Q7p0
      K7p0K7p0K7p0Kz5AerX7rhHsPplJ0mJGpWDYBMAlxda1g6IPGZEWO7YJZuv8O2mxlwasyJGmK
      ChkyGNagXEIBM0FBYhbcia1aVflGvWWh0nvD0l3tRv26MTW+nhHyXE6Xn4vJnwdQVWhWPq+/Uq6
      NI/Xk23dNqFyuLnFBKtjZQR1H1QViqXJwN+w82DXkMpwXdvfL+5nlKPbvzm4lcnFWGhECKoKpdJk
      6WfjPNCfrrU+3tyj8FeFK7nu3QnZnKkasf/OgqpCoTQ7nSHwo5bRcldy2Q626H+nQ4UiJ92qjnR41R
      D2ulNrsGePJT1UjLiVC6oKZdL8huH18k+caSXnxC32h0S8hYYwhYKqQpE0zfY3jO46vm5cC8tc2H
      HnjyWAZT6oKhRJP7NxpvmW/zyHb9xfI5filsWgqlAiTZZxNrvx8Rxb8C33K9W30EAjQIBVKHwRZydr
      Vpd+gaxZXfoFsmYtQloMMkFDIUOagt58iP1N0NB5Jm0Q27UJZussThqDnzlibRCbVg1GjjEuTYjdaw
      STJjBVmhBjZgm2ziFPeiF06VZ06VZ06VZ06Va8ofTj8QO6Ch0Ds823OQAAAABJRU5ErkJggg==
      </encodedContents>
    </item>
  </files>
</urn:UploadImageForHTMLAttribute>
```

## Complex Types: rtmService

### Complex Types

Name	Description
<a href="#">addObjectToCollectionResponse</a>	
<a href="#">AppendRMDocumentExResult</a>	
<a href="#">AppendRtmDocumentResult</a>	
<a href="#">AsyncAppendRtmDocResponse</a>	
<a href="#">AsyncCreateRtmDocResponse</a>	
<a href="#">AsyncReplaceRtmDocResponse</a>	
<a href="#">AttributeDef</a>	
<a href="#">AttributeDefEx</a>	
<a href="#">AttributeDefEx2</a>	
<a href="#">AttributeDefExList</a>	
<a href="#">AttributeDefEx2List</a>	
<a href="#">AttributeDefInfo</a>	
<a href="#">AttributeDefList</a>	
<a href="#">AttributeDefSpecifier</a>	
<a href="#">AttributeFormatDef</a>	
<a href="#">Category</a>	
<a href="#">CategoryAssign</a>	
<a href="#">CategoryList</a>	
<a href="#">CategoryReg</a>	
<a href="#">ClassDef</a>	
<a href="#">ClassDefEx</a>	
<a href="#">ClassDefExList</a>	
<a href="#">ClassDefInfo</a>	
<a href="#">ClassDefList</a>	
<a href="#">ClassSpecifier</a>	
<a href="#">CmdStatus</a>	
<a href="#">CollectionEx</a>	
<a href="#">CollectionEx2</a>	
<a href="#">CollectionEx2List</a>	
<a href="#">CollectionExList</a>	
<a href="#">CollectionInfo</a>	
<a href="#">CollectionList</a>	
<a href="#">CollectionSpecifier</a>	
<a href="#">CollectionTransferRules</a>	
<a href="#">CollectionTransferRulesEx</a>	
<a href="#">CommandStatus</a>	
<a href="#">CreateChildDocumentData</a>	
<a href="#">CreateCollectionEx</a>	
<a href="#">CreateRMDocumentExResult</a>	
<a href="#">CreateRtmDocumentResult</a>	

Name	Description
<a href="#">DatabaseList</a>	
<a href="#">DocumentObject</a>	
<a href="#">DocumentsFilter</a>	
<a href="#">ECPObjInfo</a>	
<a href="#">ECPsObjectInfo</a>	
<a href="#">FileAttachment</a>	
<a href="#">FindRequirementOut</a>	
<a href="#">FormatDef</a>	
<a href="#">getAsyncAppendRtmDocStatusResponse</a>	
<a href="#">getAsyncCreateRtmDocStatusResponse</a>	
<a href="#">getAsyncQueryRtmDocResponse</a>	
<a href="#">getAsyncQueryRtmDocumentStatusResponse</a>	
<a href="#">getAsyncReplaceRtmDocStatusResponse</a>	
<a href="#">getAsyncStatusResponse</a>	
<a href="#">GetAttributeDefInfoReply</a>	
<a href="#">GetAttributeDefInfoRequest</a>	
<a href="#">GetClassDefInfoReply</a>	
<a href="#">GetClassDefInfoRequest</a>	
<a href="#">GetCollectionInfoReply</a>	
<a href="#">GetCollectionInfoRequest</a>	
<a href="#">GetProjectInfoReply</a>	
<a href="#">GetProjectInfoRequest</a>	
<a href="#">GetUserAttributeDefInfoReply</a>	
<a href="#">GetUserAttributeDefInfoRequest</a>	
<a href="#">IdList</a>	
<a href="#">ImageList</a>	
<a href="#">ImageUploadResult</a>	
<a href="#">ImageUploadResultList</a>	
<a href="#">Link</a>	
<a href="#">LinkClassDef</a>	
<a href="#">LinkClassDefList</a>	
<a href="#">LinkList</a>	
<a href="#">ListItemDef</a>	
<a href="#">ListItems</a>	
<a href="#">LoginExResultInfo</a>	
<a href="#">NameValue</a>	
<a href="#">NameValueList</a>	
<a href="#">ns-chapterDetails</a>	
<a href="#">Object</a>	
<a href="#">ObjectDef</a>	
<a href="#">ObjectDetails</a>	
<a href="#">ObjectDetailsList</a>	
<a href="#">ObjectsList</a>	

Name	Description
<a href="#">ProjectEx</a>	
<a href="#">ProjectExList</a>	
<a href="#">ProjectInfo</a>	
<a href="#">ProjectList</a>	
<a href="#">ProjectSpecifier</a>	
<a href="#">ProposeNewRequirementResult</a>	
<a href="#">RelationList</a>	
<a href="#">RelationWithObjects</a>	
<a href="#">removeObjectFromCollectionResponse</a>	
<a href="#">ReplaceRequirementList</a>	
<a href="#">ReplaceRequirementOut</a>	
<a href="#">Report</a>	
<a href="#">Requirement</a>	
<a href="#">RequirementFindList</a>	
<a href="#">RequirementIdentifier</a>	
<a href="#">RequirementIdentifierList</a>	
<a href="#">RequirementList</a>	
<a href="#">RequirementOut</a>	
<a href="#">Result</a>	
<a href="#">RtmDocSnapshotOutList</a>	
<a href="#">RtmDocSnapshot</a>	
<a href="#">RtmDocSnapshotOut</a>	
<a href="#">RtmDocument</a>	
<a href="#">RtmDocumentList</a>	
<a href="#">RtmDocumentProperties</a>	
<a href="#">RtmDocumentWithCategory</a>	
<a href="#">runTestAsyncInputData</a>	
<a href="#">runTestAsyncResponse</a>	
<a href="#">runTestAsyncResponseData</a>	
<a href="#">Script</a>	
<a href="#">SearchRequirement</a>	
<a href="#">StatusMessage</a>	
<a href="#">StatusMessageList</a>	
<a href="#">StringList</a>	
<a href="#">SyncXrefLink</a>	
<a href="#">SyncXrefLinkList</a>	
<a href="#">SystemInfo</a>	
<a href="#">Template</a>	
<a href="#">TemplateList</a>	
<a href="#">testAsyncStatusResponse</a>	
<a href="#">Transition</a>	
<a href="#">Transitions</a>	
<a href="#">TransitObject</a>	

Name	Description
<a href="#">UserAttributeDefInfo</a>	
<a href="#">UserValue</a>	
<a href="#">UserValueList</a>	

## Complex Type: addObjectToCollectionResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
status	<a href="#">cmdStatusCode</a>	1..1	

## Complex Type: AppendRMDocumentExResult

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CommandStatus</a>	1..1	

## Complex Type: AppendRtmDocumentResult

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CommandStatus</a>	1..1	



## Complex Type: AsyncAppendRtmDocResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCmdToken	string	1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: AsyncCreateRtmDocResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCmdToken	string	1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: AsyncReplaceRtmDocResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCmdToken	string	1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: AttributeDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nTypeId	int	1..1	
sTypeName	string	1..1	
sDisplayName	string	1..1	
sDefaultValue	string	0..1	
bMandatory	boolean	1..1	
bEditable	boolean	1..1	
bUnique	boolean	1..1	
bVisable	boolean	1..1	
bMultiple	boolean	1..1	
aFormat	<a href="#">FormatDef</a>	1..1	
aValues	<a href="#">StringList</a>	0..1	

## Complex Type: AttributeDefEx

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nTypeId	int	1..1	
sTypeName	string	1..1	
sDisplayName	string	1..1	
sDefaultValue	string	0..1	
bMandatory	boolean	1..1	
bEditable	boolean	1..1	
bUnique	boolean	1..1	
bVisable	boolean	1..1	
bMultiple	boolean	1..1	
bImplicit	boolean	1..1	
bHtml	boolean	0..1	
aFormat	<a href="#">FormatDef</a>	1..1	
aValues	<a href="#">StringList</a>	0..1	

## Complex Type: AttributeDefEx2

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	Attribute identifier
sName	string	1..1	Attribute name
nTypeid	int	1..1	Attribute type identifier
sTypeName	string	1..1	Attribute type name
sDisplayName	string	1..1	Attribute display name
sDefaultValue	string	0..1	Attribute default value
bMandatory	boolean	1..1	Flag, indicating if attribute is mandatory
bEditable	boolean	1..1	Flag, indicating if attribute is editable
bUnique	boolean	1..1	Flag, indicating if attribute values must be unique
bVisible	boolean	1..1	Flag, indicating if attribute is visible in RM Browser
bMultiple	boolean	1..1	Flag, indicating if attribute can have multiple values
bImplicit	boolean	1..1	Flag, indicating if attribute is implicit
bHtml	boolean	0..1	Flag, indicating if attribute is HTML enabled
aFormat	<a href="#">FormatDef</a>	1..1	Attribute format properties
aValues	<a href="#">ListItems</a>	0..1	List of attribute values

## Complex Type: AttributeDefExList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">AttributeDefEx</a>	0..*	

## Complex Type: AttributeDefEx2List

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">AttributeDefEx2</a>	0..*	Attribute properties



## Complex Type: AttributeDefInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nTypeId	int	1..1	
sTypeName	string	1..1	
sDisplayName	string	1..1	
sDefaultValue	string	1..1	
bMandatory	boolean	1..1	
bEditable	boolean	1..1	
bUnique	boolean	1..1	
bVisable	boolean	1..1	
bMultiple	boolean	1..1	
bImplicit	boolean	1..1	
bHtml	boolean	1..1	
aFormat	<a href="#">AttributeFormatDef</a>	1..1	
aValues	<a href="#">StringList</a>	0..1	

## Complex Type: AttributeDefList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">AttributeDef</a>	0..*	

## Complex Type: AttributeDefSpecifier

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Type	<a href="#">IdNameEnumeration</a>	1..1	Possible values: 0 - than attribute will be specified by id 1 - than attribute will be specified by name
Value	<a href="#">IdNameUnion</a>	1..1	id or attribute name(depending on previous setting)
CategoryInfo	<a href="#">CategoryInfo</a>	0..1	Category information for filtering values

## Complex Type: AttributeFormatDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nMaxLen	int	1..1	
nDisplayLen	int	1..1	
sCase	string	1..1	
sTemplate	string	1..1	
sMinValue	string	1..1	
sMaxValue	string	1..1	

## Complex Type: Category

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	long	1..1	
nType	long	1..1	
sName	string	1..1	
sDescription	string	0..1	
sDisplayName	string	1..1	

### Remarks

#### Additional info:

'sDisplayName' value of category name in the output will be specified with '\' separator, e.g.  
'RMDEMO\Availability\Cost'


## Complex Type: CategoryInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
CategoryId	long	0..1	Category id, default value = -1, means that no filter set by category id
DisplayName	string	0..1	Category name



## Complex Type: CategoryAssign

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nCategoryId	long	0..1	
sDisplayName	string	0..1	



## Complex Type: CategoryList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">Category</a>	0..*	

## Complex Type: CategoryReq

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
sDescription	string	0..1	
nParentCategoryId	long	1..1	
blInheritAccessRightsFromParentCategory	bool	0..1	

## Complex Type: ClassDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	

## Complex Type: ClassDefEx

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nDescriptionAttrId	int	1..1	
nTitleAttrId	int	1..1	
nType	int	1..1	

## Complex Type: ClassDefExList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ClassDefEx</a>	0..*	

## Complex Type: ClassDefInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nDescriptionAttrId	int	1..1	
nTitleAttrId	int	1..1	
nType	int	1..1	

## Complex Type: ClassDefList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ClassDef</a>	0..*	

## Complex Type: ClassSpecifier

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Type	<a href="#">IdNameEnumeration</a>	1..1	
Value	<a href="#">IdNameUnion</a>	1..1	



## Complex Type: CmdStatus

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
status	int	1..1	
msgs	<a href="#">StatusMessageList</a>	0..1	

## Complex Type: CMProjectInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sProductName	string	1..1	
sProjectName	string	1..1	

## Complex Type: CollectionEx

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sType	string	1..1	
sName	string	1..1	
bDocument	boolean	1..1	
bBaseline	boolean	1..1	
sURL	string	1..1	

## Complex Type: CollectionEx2

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sType	string	1..1	
sName	string	1..1	
bDocument	boolean	1..1	
bBaseline	boolean	1..1	
transferRules	<a href="#">CollectionTransferRules</a>	1..1	

## Complex Type: CollectionEx2List

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">CollectionEx2</a>	0..*	

## Complex Type: CollectionExList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">CollectionEx</a>	0..*	

## Complex Type: CollectionInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sType	string	1..1	
sName	string	1..1	
bDocument	boolean	1..1	
bBaseline	boolean	1..1	
transferRules	<a href="#">CollectionTransferRules</a>	1..1	

## Complex Type: CollectionList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	string	0..*	



## Complex Type: CollectionSpecifier

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Type	<a href="#">IdNameEnumeration</a>	1..1	
Value	<a href="#">IdNameUnion</a>	1..1	

## Complex Type: CollectionTransferRules

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
bTransferToChild	boolean	1..1	
bDeleteFromParent	boolean	1..1	
bTransferBackToParent	boolean	1..1	

## Complex Type: CollectionTransferRulesEx

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
bTransferToChild	boolean	0..1	
bDeleteFromParent	boolean	0..1	
bTransferBackToParent	boolean	0..1	
bObjectsAddOrRemove	boolean	0..1	

## Complex Type: CommandStatus

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nStatusCode	int	1..1	
sMessage	string	0..1	


## Complex Type: CreateCollectionEx

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
 SEQUENCE		1..1	
sName	string	1..1	
sDescription	string	0..1	
transferRules	<a href="#">CollectionTransferRulesEx</a>	0..1	

## Complex Type: CreateChildDocumentData

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
nMasterDocId	int	0..1	
sMasterDocName	string	0..1	
categoryInfo	<a href="#">CategoryAssign</a>	0..1	

Complex Type: CreateCollectionEx

**Derived By**

Restricting anyType

**Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
sDescription	string	0..1	
transferRules	<a href="#">CollectionTransferRulesEx</a>	0..1	

## Complex Type: CreateRMDocumentExResult

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CommandStatus</a>	1..1	



## Complex Type: CreateRtmDocumentResult

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CommandStatus</a>	1..1	

## Complex Type: DatabaseList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	string	0..*	

## Complex Type: DocumentObject

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
iid	int	1..1	
objectId	int	1..1	
classId	int	1..1	

## Complex Type: DocumentsFilter

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCreatedBy	string	0..1	
sModifiedBy	string	0..1	
sOwner	string	0..1	
nCreateTime	dateTime	0..1	
nCreateTimeAfter	dateTime	0..1	
nCreateTimeBefore	dateTime	0..1	
nModifiedTime	dateTime	0..1	
nModifiedTimeAfter	dateTime	0..1	
nModifiedTimeBefore	dateTime	0..1	
blsBeforeAndAfterIncludeSpecifiedTime	boolean	0..1	
sCategory	string	0..1	
bIncludeSubCategories	boolean	0..1	
bIncludeMasterDocuments	boolean	0..1	
bIncludeChildDocuments	boolean	0..1	

## Complex Type: ECPObjInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
classId	int	0..1	
className	string	0..1	
PUID	string	0..1	
objectId	int	0..1	

## Complex Type: ECPsObjectInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
iECPsClassId	int	1..1	
iECPsObjectId	int	1..1	

## Complex Type: FileAttachment

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sFullPath	string	0..1	
sFilename	string	1..1	
nModifiedTime	dateTime	0..1	
nChecksum	long	0..1	
encodedContents	base64Binary	0..1	

## Complex Type: FindRequirementOut

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
aAttrList	<a href="#">NameValueList</a>	1..1	



## Complex Type: FormatDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nMaxLen	int	1..1	
nDisplayLen	int	1..1	
sCase	string	0..1	
sTemplate	string	0..1	
sMinValue	string	0..1	
sMaxValue	string	0..1	

## Complex Type: getAsyncAppendRtmDocStatusResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: getAsyncCreateRtmDocStatusResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: getAsyncQueryRtmDocResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCmdToken	string	1..1	
rtmDoc	<a href="#">RtmDocument</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: getAsyncQueryRtmDocumentStatusResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
rtmDoc	<a href="#">RtmDocument</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: getAsyncReplaceRtmDocStatusResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: getAsyncStatusResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: GetAttributeDefInfoReply

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
attributeDefInfo	<a href="#">AttributeDefInfo</a>	1..1	



## Complex Type: GetAttributeDefInfoRequest

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sessionId	string	1..1	
classSpecifier	<a href="#">ClassSpecifier</a>	1..1	
attributeDefSpecifier	<a href="#">AttributeDefSpecifier</a>	1..1	

## Complex Type: GetClassDefInfoReply

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
classDefInfo	<a href="#">ClassDefInfo</a>	1..1	

## Complex Type: GetClassDefInfoRequest

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sessionId	string	1..1	
classSpecifier	<a href="#">ClassSpecifier</a>	1..1	

## Complex Type: GetCollectionInfoReply

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
collectionInfo	<a href="#">CollectionInfo</a>	1..1	

## Complex Type: GetCollectionInfoRequest

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sessionId	string	1..1	
collectionSpecifier	<a href="#">CollectionSpecifier</a>	1..1	

## Complex Type: GetProjectInfoReply

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
projectInfo	<a href="#">ProjectInfo</a>	1..1	

## Complex Type: GetProjectInfoRequest

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
projectSpecifier	<a href="#">ProjectSpecifier</a>	1..1	
sUserId	string	1..1	
sPassword	string	1..1	
sDatabase	string	1..1	

## Complex Type: GetUserAttributeDefInfoReply

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
attributeDefInfo	<a href="#">UserAttributeDefInfo</a>	1..1	



## Complex Type: GetUserAttributeDefInfoRequest

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sessionId	string	1..1	
classSpecifier	<a href="#">ClassSpecifier</a>	1..1	
attributeDefSpecifier	<a href="#">AttributeDefSpecifier</a>	1..1	

## Complex Type: IdList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	int	0..*	

## Complex Type: ImageList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">FileAttachment</a>	0..*	

## Complex Type: ImageUploadResult

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sFilename	string	0..1	
result	string	0..1	

## Complex Type: ImageUploadResultList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ImageUploadResult</a>	0..*	

## Complex Type: InRequirement

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sClassName	string	1..1	
nObjectId	long	0..1	
sPUID	string	0..1	

## Complex Type: InTransition

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nTransitionId	long	0..1	
sTransitionName	string	0..1	

## Complex Type: Link

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sPrimaryClassName	string	1..1	
nPrimaryObjectId	int	1..1	
sPrimaryPUID	string	1..1	
sSecondaryClassName	string	1..1	
nSecondaryObjectId	int	1..1	
sSecondaryPUID	string	1..1	
sRelationName	string	1..1	
nRelationId	int	1..1	
sRelationStatus	string	0..1	



## Complex Type: LinkClassDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
sRelationName	string	1..1	

## Complex Type: LinkClassDefList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">LinkClassDef</a>	0..*	

## Complex Type: LinkList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">Link</a>	0..*	

## Complex Type: ListItemDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	Attribute value name
bDefault	boolean	0..1	Flag, indicating if value is default
bDeleted	boolean	0..1	Flag, indicating if value is deleted

## Complex Type: ListItems

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ListItemDef</a>	0..*	List of attribute value properties

## Complex Type: LoginExResultInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sessionId	string	1..1	
blsAdmin	boolean	1..1	

## Complex Type: NameValue

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
sValue	string	0..1	

## Complex Type: NameValueList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">NameValue</a>	0..*	



## Complex Type: ns-chapterDetails

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
sDescription	string	0..1	

## Complex Type: Object

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sClassName	string	1..1	
nObjectId	long	1..1	
sReason	string	0..1	

## Complex Type: ObjectDef

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sClassName	string	1..1	
nObjectId	int	1..1	

## Complex Type: ObjectDetails

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nObjectId	int	1..1	
sPUID	string	1..1	
sRelationStatus	string	0..1	
ObjAttrs	<a href="#">NameValueList</a>	0..1	

## Complex Type: ObjectDetailsList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ObjectDetails</a>	0..*	

## Complex Type: ObjectsList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">Object</a>	0..*	

## Complex Type: ProjectEx

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
sDescription	string	0..1	
bLockStatus	boolean	1..1	
sVersion	string	0..1	
bAssociatedCM	boolean	1..1	

## Complex Type: ProjectExList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ProjectEx</a>	0..*	



## Complex Type: ProjectInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
sDescription	string	1..1	
bLockStatus	boolean	1..1	
sVersion	string	1..1	
bAssociatedCM	boolean	1..1	

## Complex Type: ProjectList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	string	0..*	

## Complex Type: ProjectSpecifier

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
Type	<a href="#">IdNameEnumeration</a>	1..1	
Value	<a href="#">IdNameUnion</a>	1..1	

## Complex Type: ProposeNewRequirementResult

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
result	<a href="#">RequirementOut</a>	1..1	

### Example:

```
<ns:ProposeNewRequirementResult>
  <result>
    <sPUID>MRKT_000055</sPUID>
    <sClassName>Marketing_Requirements</sClassName>
    <sDescription>new MRKT 15 - text</sDescription>
    <sCreatedBy>EPHOTO</sCreatedBy>
    <sModifiedBy>EPHOTO</sModifiedBy>
    <nCreateTime>2014-12-12T14:47:38+02:00</nCreateTime>
    <nModifiedTime>2014-12-12T14:48:09+02:00</nModifiedTime>
    <sTitle>new MRKT 15 - title</sTitle>
    <nObjectId>91</nObjectId>
    <nObjectVersionId>1</nObjectVersionId>
    <aAttrList/>
  </result>
</ns:ProposeNewRequirementResult>
```

## Complex Type: RelationList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">RelationWithObjects</a>	0..*	

## Complex Type: RelationWithObjects

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nRelationType	int	1..1	
nRelationId	int	1..1	
sRelationName	string	1..1	
ObjList	<a href="#">ObjectDetailsList</a>	0..1	

## Complex Type: removeObjectFromCollectionResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
status	<a href="#">cmdStatusCode</a>	1..1	

## Complex Type: ReplaceRequirementList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">ReplaceRequirementOut</a>	0..*	



## Complex Type: ReplaceRequirementOut

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
obj	<a href="#">RequirementOut</a>	1..1	
eStatus	<a href="#">reqStatusCode</a>	1..1	

## Complex Type: Report

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCategoryName	string	1..1	
sReportName	string	1..1	

## Complex Type: Requirement

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sPUID	string	0..1	
sClassName	string	0..1	
sDescription	string	0..1	
sCreatedBy	string	0..1	
sModifiedBy	string	0..1	
nCreateTime	dateTime	0..1	
nModifiedTime	dateTime	0..1	
sTitle	string	0..1	
nObjectId	int	0..1	
aAttrList	<a href="#">NameValueList</a>	0..1	

## Complex Type: RequirementFindList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">FindRequirementOut</a>	0..*	

## Complex Type: RequirementIdentifier

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sPUIID	string	0..1	
sClassName	string	1..1	
nObjectId	int	0..1	

## Complex Type: RequirementIdentifierList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">RequirementIdentifier</a>	0..*	

## Complex Type: RequirementList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">RequirementOut</a>	0..*	

## Complex Type: RequirementOut

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sPUIID	string	1..1	
sClassName	string	1..1	
sDescription	string	0..1	
sCreatedBy	string	1..1	
sModifiedBy	string	1..1	
nCreateTime	dateTime	1..1	
nModifiedTime	dateTime	1..1	
sTitle	string	1..1	
nObjectId	int	1..1	
nObjectVersionId	int	1..1	
sURL	string	0..1	
aAttrList	<a href="#">NameValueList</a>	0..1	



## Complex Type: Result

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nStatusCode	int	1..1	
sMessage	string	0..1	

## Complex Type: RtmDocSnaphotOutList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">RtmDocSnapshotOut</a>	0..*	

## Complex Type: RtmDocSnapshot

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
nDocumentId	int	1..1	

## Complex Type: RtmDocSnapshotOut

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nDocumentId	int	1..1	
sUrl	string	1..1	

## Complex Type: RtmDocument

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
sContent	string	0..1	

## Complex Type: RtmDocumentList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">RtmDocumentProperties</a>	0..*	

## Complex Type: RtmDocumentProperties

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	0..1	
sName	string	1..1	
sURL	string	0..1	

## Complex Type: RtmDocumentWithCategory

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
info	<a href="#">RtmDocumentProperties</a>	1..1	
sContent	string	0..1	
categoryInfo	<a href="#">CategoryAssign</a>	0..1	
blsMaster	boolean	0..1	



## Complex Type: runTestAsyncInputData

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
reflectInt	int	1..1	
sReflectString	string	0..1	
logInterval	int	1..1	
timeSpan	int	1..1	
createFailure	int	1..1	

## Complex Type: runTestAsyncResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sCmdToken	string	0..1	
data	<a href="#">runTestAsyncResponseData</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: runTestAsyncResponseData

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
reflectInt	int	1..1	
sReflectString	string	0..1	
times56	int	1..1	

## Complex Type: Script

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sScriptText	string	0..1	
anSavedReport	<a href="#">Report</a>	0..1	
anRunTimeParameters	<a href="#">NameValueList</a>	0..1	

## Complex Type: SearchRequirement

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sTitle	string	0..1	
sDescription	string	0..1	
nCreateTime	dateTime	0..1	
nModifiedTime	dateTime	0..1	
aAttrList	<a href="#">NameValueList</a>	0..1	

## Complex Type: StatusMessage

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
msgId	int	1..1	
level	int	1..1	
parms	<a href="#">StringList</a>	0..1	

## Complex Type: StatusMessageList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">StatusMessage</a>	0..*	

## Complex Type: StringList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	string	0..*	



## Complex Type: SyncXrefLink

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sForeignId	string	0..1	
nRMClassId	int	0..1	
sRMPUID	string	0..1	
sForeignToolName	string	1..1	

## Complex Type: SyncXrefLinkList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">SyncXrefLink</a>	0..*	

## Complex Type: SystemInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sDBCharSet	string	0..1	
sClientCharSet	string	0..1	
sRMMinorVersion	string	0..1	
sRMMajorVersion	string	0..1	
sRMAdminMajor	string	0..1	
sRMAdminMinor	string	0..1	
sOperatingSystem	string	0..1	
sOperatingSystemVersion	string	0..1	
sDatabase	string	0..1	
sDatabaseVersion	string	0..1	

## Complex Type: Template

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	0..1	
sName	string	1..1	
sFileName	string	0..1	
sDescription	string	0..1	
sCreatedBy	string	0..1	
sModifiedBy	string	0..1	
nLastModified	dateTime	0..1	

## Complex Type: TemplateList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">Template</a>	0..*	

## Complex Type: testAsyncStatusResponse

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
data	<a href="#">runTestAsyncResponseData</a>	1..1	
status	<a href="#">CmdStatus</a>	1..1	

## Complex Type: Transition

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	long	1..1	
sName	string	1..1	
sDescription	string	1..1	
sToState	string	1..1	

## Complex Type: Transitions

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">Transition</a>	0..*	



## Complex Type: TransitObject

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sClassName	string	1..1	
nObjectId	long	0..1	
sPUIID	string	0..1	
nTransitionId	long	0..1	
sTransitionName	string	0..1	
aAttrList	<a href="#">NameValueList</a>	0..1	

## Complex Type: UserAttributeDefInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	int	1..1	
sName	string	1..1	
nTypeId	int	1..1	
sTypeName	string	1..1	
sDisplayName	string	1..1	
aDefaultValues	<a href="#">UserValueList</a>	1..1	
bMandatory	boolean	1..1	
bEditable	boolean	1..1	
bUnique	boolean	1..1	
bVisable	boolean	1..1	
bMultiple	boolean	1..1	
bImplicit	boolean	1..1	
bHtml	boolean	1..1	
aFormat	<a href="#">AttributeFormatDef</a>	1..1	
aValues	<a href="#">UserValueList</a>	1..1	

## Complex Type: UserValue

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nId	integer	1..1	
sName	string	1..1	
sDisplayName	string	1..1	
sFirstName	string	0..1	
sLastName	string	0..1	
sPhone	string	0..1	
sFax	string	0..1	
sEmail	string	0..1	
sPager	string	0..1	
sLocation	string	0..1	
sMobilePhone	string	0..1	
sType	string	1..1	

## Complex Type: UserValueList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">UserValue</a>	0..*	

## Simple Types: rtmService

### Simple Types

Name	Description
<a href="#">cmdStatusCode</a>	
<a href="#">IdNameEnumeration</a>	
<a href="#">IdNameUnion</a>	
<a href="#">reqStatusCode</a>	
<a href="#">statusCode</a>	

## Simple Type: cmdStatusCode

### Derived By

Restricting string

### Enumeration

Value	Description
SUCCESS	
FAILURE	
COLLECTION-NOT-FOUND	

## Simple Type: IdNameEnumeration

### Derived By

Restricting string

### Enumeration

Value	Description
ID	
NAME	

## **Simple Type: IdNameUnion**

### **Derived By**

Restricting string



## Simple Type: reqStatusCode

### Derived By

Restricting string

### Enumeration

Value	Description
eCREATED	
eREPLACED	
eUPDATED	
eNOCHANGE	

## Simple Type: statusCode

### Derived By

Restricting string

### Enumeration

Value	Description
STARTING	
ACTIVE	
FINISHED	
ERR	
NOT-FOUND	

## rtmAdminService Web Service

### Description

gSOAP 2.7.12 generated service definition

### See Also

- [Methods](#)
- [Complex Types](#)

## Methods: rtmAdminService

### Methods

Name	Description
<a href="#">AssignCategoryToGroup</a>	Assign category access to the group
<a href="#">AssignGroupToProject</a>	Assign group to the project
<a href="#">AssignUsersInGroupPerCategory</a>	Assign/revoke users access in group per category
<a href="#">AssignUserToGroup</a>	Assign user to the group
<a href="#">AssignUserToProject</a>	Assign user to the project
<a href="#">CopyGroup</a>	Copy group with all project assignments and permissions
<a href="#">CopyUser</a>	Copy user with group, project assignments and permissions
<a href="#">CreateGroup</a>	Create a new group
<a href="#">CreateUser</a>	Create a new user
<a href="#">CreateLDAPUser</a>	Creates a new LDAP user
<a href="#">CreateSSOUser</a>	Creates a new SSO user
<a href="#">DeleteGroup</a>	Delete a group
<a href="#">DeleteUser</a>	Delete a user
<a href="#">GetGroupInfo</a>	Get information about group
<a href="#">GetGroups</a>	Get list of groups
<a href="#">GetLoginSources</a>	Get available login sources on the RM server
<a href="#">GetUserInfo</a>	Get information about user
<a href="#">GetUsers</a>	Get list of all users
<a href="#">GrantPermissionToGroup</a>	Grant permission to group for some action
<a href="#">GrantPermissionToUser</a>	Grant permission to user for some action
<a href="#">InheritPermissionForUser</a>	Inherit permission to user for some action
<a href="#">RevokePermissionFromGroup</a>	Revoke permission from group for some action
<a href="#">RevokePermissionFromUser</a>	Revoke permission from user for some action
<a href="#">UnassignCategoryFromGroup</a>	Un-assign category from the group
<a href="#">UnassignGroupFromProject</a>	Un-assign group from the project
<a href="#">UnassignUserFromGroup</a>	Un-assign user from the group
<a href="#">UnassignUserFromProject</a>	Un-assign user from the project
<a href="#">UpdateListAttributeValues</a>	Change list attribute values in attribute definition
<a href="#">UpdateUser</a>	Update user information and account properties

## Method: AssignCategoryToGroup

### Description

Assign category access to the group

### Style

Document

### Input (Literal)

The input of this method is the argument AssignCategoryToGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	
sCategoryName	string	1..1	
bIncludeSubcategories	boolean	0..1	

### Output (Literal)

The output of this method is the argument AssignCategoryToGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:AssignCategoryToGroup>
  <sessionId>1</sessionId>
  <sGroupName>read</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
  <sCategoryName>RMDEMO/Functional</sCategoryName>
  <bIncludeSubcategories>true</bIncludeSubcategories>
</urn:AssignCategoryToGroup>
```

## Method: AssignGroupToProject

### Description

Assign group to the project

### Style

Document

### Input (Literal)

The input of this method is the argument AssignGroupToProject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	
bForceUserAssignment	boolean	0..1	

### Output (Literal)

The output of this method is the argument AssignGroupToProjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:AssignGroupToProject>  
  <sessionId>1</sessionId>  
  <sGroupName>test1</sGroupName>  
  <sProjectName>RMDEMO</sProjectName>  
</urn:AssignGroupToProject>
```

## Method: AssignUsersInGroupPerCategory

### Description

Assign/revoke users access in group per category

### Style

Document

### Input (Literal)

The input of this method is the argument AssignUsersInGroupPerCategory having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sProjectName	string	1..1	
sCategoryName	string	1..1	
sGroupName	string	1..1	
excludeUsers	<a href="#">UserNameList</a>	0..1	
includeUsers	<a href="#">UserNameList</a>	0..1	

### Output (Literal)

The output of this method is the argument AssignUsersInGroupPerCategoryResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:AssignUsersInGroupPerCategory>
  <sessionId>1433504615</sessionId>
  <sProjectName>RMDEMO</sProjectName>
  <sCategoryName>RMDEMO\123\test\some category</sCategoryName>
  <sGroupName>WRITE</sGroupName>
  <excludeUsers>
    <item>support</item>
    <item>test</item>
  </excludeUsers>
  <includeUsers>
    <item>epphoto</item>
    <item>sales</item>
  </includeUsers>
</urn:AssignUsersInGroupPerCategory>
```

Users in excludeUsers section will be unassign in WRITE group in specified category.

Users in includeUsers section will be assigned to WRITE group in specified category.

If Inherit access rights from parent category turned on, after applying changes it will be unchecked.

#### Additional Info:

'sCategoryName value of category name can be specified as:

- a) category full name, separated by '/' or '\'
- b) category name(only in case when name is unique);

## Method: AssignUserToGroup

### Description

Assign user to the group

### Style

Document

### Input (Literal)

The input of this method is the argument AssignUserToGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sGroupName	string	1..1	

### Output (Literal)

The output of this method is the argument AssignUserToGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:AssignUserToGroup>  
  <sessionId>1</sessionId>  
  <sUserName>ephoto</sUserName>  
  <sGroupName>read</sGroupName>  
</urn:AssignUserToGroup>
```



## Method: AssignUserToProject

### Description

Assign user to the project

### Style

Document

### Input (Literal)

The input of this method is the argument AssignUserToProject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sUserName	string	1..1	User name
sGroupName	string	1..1	Group name
sProjectName	string	1..1	Project name
bDontAutoAssign	boolean	0..1	Default is "false". If the value is "false", the web service automatically assigns the specified user to the group categories, otherwise the user will not be assigned.

### Output (Literal)

The output of this method is the argument AssignUserToProjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

1) Assign user to project in the group with automatical assignment to the group categories

```
<urn:AssignUserToProject>
  <sessionId>session id</sessionId>
  <sUserName>user1</sUserName>
  <sGroupName>Group1</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
  <bDontAutoAssign>>false</bDontAutoAssign>
</urn:AssignUserToProject>
```

2) Assign user to project in the group without assigning to the group categories

```
<urn:AssignUserToProject>
  <sessionId>session id</sessionId>
  <sUserName>user2</sUserName>
  <sGroupName>Group1</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
  <bDontAutoAssign>>true</bDontAutoAssign>
</urn:AssignUserToProject>
```

## Method: CopyGroup

### Description

Copy group with all project assignments and permissions

### Style

Document

### Input (Literal)

The input of this method is the argument CopyGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sGroupName	string	1..1	Name of new group
sSrcGroupName	string	1..1	Name of source group
anGroupInfo	<a href="#">GroupInfo</a>	0..1	Additional group information

### Output (Literal)

The output of this method is the argument CopyGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

The CopyGroup call provides a method for copying existing group with all project assignments and permissions.

#### Example of usage:

Create copy of group:

```
<urn:CopyGroup>
  <sessionId>1472146937</sessionId>
  <sGroupName>REPORTERS</sGroupName>
  <sSrcGroupName>icDemo Users</sSrcGroupName>
</urn:CopyGroup>
```

Create copy of group and provide description:

```
<urn:CopyGroup>
  <sessionId>1472146937</sessionId>
  <sGroupName>REPORTERS</sGroupName>
  <sSrcGroupName>icDemo Users</sSrcGroupName>
  <anGroupInfo>
    <sDescription>Reporters group</sDescription>
  </anGroupInfo>
</urn:CopyGroup>
```

## Method: CopyUser

### Description

Copy user with group, project assignments and permissions

### Style

Document

### Input (Literal)

The input of this method is the argument CopyUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sUserName	string	1..1	New user name
sSrcUserName	string	1..1	Source user name
sPassword	string	0..1	Password
anUserInfo	<a href="#">UserInfo</a>	0..1	Additional user info

### Output (Literal)

The output of this method is the argument CopyUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

The CopyUser call provides a method for copying existing user with all group, category, project assignments and permissions.

#### Example of usage:

1) Create Full copy of user (including all information - firstname, lastname, phone, etc.)

```
<urn:CopyUser>
  <sessionId>1472146937</sessionId>
  <sUserName>Joe1</sUserName>
  <sSrcUserName>joe</sSrcUserName>
  <sPassword>123456</sPassword>
  <anUserInfo>
  </anUserInfo>
</urn:CopyUser>
```

2) Create copy of user and override some information from source user:

```
<urn:CopyUser>
  <sessionId>1472146937</sessionId>
  <sUserName>Joe1</sUserName>
  <sSrcUserName>joe</sSrcUserName>
  <sPassword>123456</sPassword>
  <anUserInfo>
    <sFirstName>John</sFirstName>
    <sLastName>Pettor</sLastName>
    <sPhone>3558832224</sPhone>
    <sEmail>jpettor@mail.com</sEmail>
  </anUserInfo>
</urn:CopyUser>
```

## Method: CreateGroup

### Description

Create a new group

### Style

Document

### Input (Literal)

The input of this method is the argument CreateGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
anGroupInfo	<a href="#">GroupInfo</a>	0..1	

### Output (Literal)

The output of this method is the argument CreateGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:CreateGroup>
  <sessionId>1</sessionId>
  <sGroupName>read</sGroupName>
  <anGroupInfo>
    <sDescription>Some description</sDescription>
  </anGroupInfo>
</urn:CreateGroup>
```

## Method: CreateUser

### Description

Create a new user

### Style

Document

### Input (Literal)

The input of this method is the argument CreateUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sPassword	string	0..1	
anUserInfo	<a href="#">UserInfo</a>	0..1	

### Output (Literal)

The output of this method is the argument CreateUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:CreateUser>
  <sessionId>1</sessionId>
  <sUserName>Teddy</sUserName>
  <sPassword>nice</sPassword>
  <anUserInfo>
    <bPwdNeverExpires>true</bPwdNeverExpires>
  </anUserInfo>
</urn:CreateUser>
```

## Method: CreateLDAPUser

### Description

Create a new LDAP user

### Style

Document

### Input (Literal)

The input of this method is the argument CreateLDAPUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sUserName	string	1..1	User name
anUserInfo	<a href="#">UserInfoExt</a>	0..1	User information

### Output (Literal)

The output of this method is the argument CreateLDAPUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	Result of LDAP user creation

### Remarks

The CreateLDAPUser call provides a method for creation new LDAP user. Created users will have LDAP type in RM(as it is not differentiated SSO or LDAP). For such user it is not possible to change password settings, except (bAccountDisabled).

#### Example of usage:

```
<urn:CreateLDAPUser>
  <sessionId>111111111</sessionId>
  <sUserName>Peter</sUserName>
  <anUserInfo>
    <sFirstName>Peter</sFirstName>
    <sLastName>Oneil</sLastName>
  </anUserInfo>
</urn: CreateLDAPUser>
```

## Method: CreateSSOUser

### Description

Create a new SSO user

### Style

Document

### Input (Literal)

The input of this method is the argument CreateSSOUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sUserName	string	1..1	User name
anUserInfo	<a href="#">UserInfoExt</a>	0..1	User information

### Output (Literal)

The output of this method is the argument CreateSSOUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	Result of SSO user creation

### Remarks

The CreateSSOUser call provides a method for creation new SSO user. Created users will have LDAP type in RM(as it is not differentiated SSO or LDAP). For such user it is not possible to change password settings, except (bAccountDisabled).

#### Example of usage:

```
<urn:CreateSSOUser>
  <sessionId>11111111</sessionId>
  <sUserName>John</sUserName>
  <anUserInfo>
    <sFirstName>John</sFirstName>
    <sLastName>Harrison</sLastName>
  </anUserInfo>
</urn: CreateSSOUser>
```

## Method: DeleteGroup

### Description

Delete a group

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	

### Output (Literal)

The output of this method is the argument DeleteGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:DeleteGroup>  
  <sessionId>1</sessionId>  
  <sGroupName>TestGroup</sGroupName>  
</urn:DeleteGroup>
```



## Method: DeleteUser

### Description

Delete a user

### Style

Document

### Input (Literal)

The input of this method is the argument DeleteUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	

### Output (Literal)

The output of this method is the argument DeleteUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:DeleteUser>  
  <sessionId>1</sessionId>  
  <sUserName>testUser</sUserName>  
</urn:DeleteUser>
```

## Method: GetGroupInfo

### Description

Get information about group

### Style

Document

### Input (Literal)

The input of this method is the argument GetGroupInfo having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	

### Output (Literal)

The output of this method is the argument GroupDetailInfo having the structure defined by the following table.

Name	Type	Occurs	Description
sGroupName	string	0..1	
anGroupInfo	<a href="#">GroupInfo</a>	1..1	
aProjects	<a href="#">StringList</a>	1..1	
aUsers	<a href="#">StringList</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:GetGroupInfo>
  <sessionId>1</sessionId>
  <sGroupName>Administrators</sGroupName>
</urn:GetGroupInfo>
```

## Method: GetGroups

### Description

Get list of groups

### Style

Document

### Input (Literal)

The input of this method is the argument GetGroups having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument GetGroupsResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">GroupList</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:GetGroups>  
  <sessionId>1</sessionId>  
</urn:GetGroups>
```

## Method: GetLoginSources

### Description

Get available login sources on the RM server

### Style

Document

### Input (Literal)

The input of this method is the argument GetLoginSources having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	

### Output (Literal)

The output of this method is the argument GetLoginSourcesResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">LoginSources</a>	1..1	

### Remarks

The GetLoginSources call provides a method to get login sources that are currently available on the RM server.

#### Example of usage:

```
<urn:GetLoginSources>  
  <sessionId>1464698712</sessionId>  
</urn:GetLoginSources>
```

## Method: GetUserInfo

### Description

Get information about user

### Style

Document

### Input (Literal)

The input of this method is the argument GetUserInfo having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
bIncludeAdditionalInfo	boolean	0..1	
bIncludeGroups	boolean	0..1	
bIncludeProjects	boolean	0..1	

### Output (Literal)

The output of this method is the argument GetUserInfoResult having the structure defined by the following table.

Name	Type	Occurs	Description
sUserName	string	0..1	
sUserLoginType	string	0..1	
sFirstName	string	0..1	
sLastName	string	0..1	
sEmail	string	0..1	
bAccountDisabled	boolean	1..1	
anAdditionalUserInfo	<a href="#">AdditionalUserInfo</a>	0..1	
aGroups	<a href="#">StringList</a>	0..1	
aProjects	<a href="#">NameValueList</a>	0..1	

### Remarks

#### Example of usage:

```
<urn:GetUserInfo>
  <sessionId>1</sessionId>
  <sUserName>bill</sUserName>
  <bIncludeAdditionalInfo>>false</bIncludeAdditionalInfo>
  <bIncludeProjects>>true</bIncludeProjects>
</urn:GetUserInfo>
```

## Method: GetUsers

### Description

Get list of all users

### Style

Document

### Input (Literal)

The input of this method is the argument GetUsers having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	0..1	
sProjectName	string	0..1	
bIncludeAdditionalInfo	boolean	0..1	

### Output (Literal)

The output of this method is the argument GetUsersResponse having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">UserList</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:GetUsers>
  <sessionId>1</sessionId>
  <!-- optional, if set then will be returned all users from this group -->
  <sGroupName></sGroupName>
  <!-- optional, is set then will be returned all users assigned to this project -->
  <sProjectName></sProjectName>
  <bIncludeAdditionalInfo>>false</bIncludeAdditionalInfo>
</urn:GetUsers>
```

## Method: GrantPermissionToGroup

### Description

Grant permission to group for some action

### Style

Document

### Input (Literal)

The input of this method is the argument GrantPermissionToGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	
sResource	string	1..1	
sAction	string	1..1	
sObject	string	0..1	

### Output (Literal)

The output of this method is the argument GrantPermissionToGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:GrantPermissionToGroup>
  <sessionId>1</sessionId>
  <sGroupName>read</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
  <sResource>Categories</sResource>
  <sAction>FullAccess</sAction>
</urn:GrantPermissionToGroup>
```

## Method: GrantPermissionToUser

### Description

Grant permission to user for some action

### Style

Document

### Input (Literal)

The input of this method is the argument GrantPermissionToUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sProjectName	string	1..1	
sResource	string	1..1	
sAction	string	1..1	
sObject	string	0..1	

### Output (Literal)

The output of this method is the argument GrantPermissionToUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:GrantPermissionToUser>
  <sessionId>1</sessionId>
  <sUserName>nata</sUserName>
  <sProjectName>RMDEMO</sProjectName>
  <sResource>Classes</sResource>
  <sAction>Create</sAction>
  <sObject>Marketing_Requirements</sObject>
</urn:GrantPermissionToUser>
```



## Method: InheritPermissionForUser

### Description

Inherit permission to user for some action

### Style

Document

### Input (Literal)

The input of this method is the argument InheritPermissionForUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sProjectName	string	1..1	
sResource	string	1..1	
sAction	string	1..1	
sObject	string	0..1	

### Output (Literal)

The output of this method is the argument InheritPermissionForUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:InheritPermissionForUser>
  <sessionId>1</sessionId>
  <sUserName>ephoto</sUserName>
  <sProjectName>RMDEMO</sProjectName>
  <sResource>Attributes</sResource>
  <sAction>Update</sAction>
</urn:InheritPermissionForUser>
```

## Method: RevokePermissionFromGroup

### Description

Revoke permission from group for some action

### Style

Document

### Input (Literal)

The input of this method is the argument RevokePermissionFromGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	
sResource	string	1..1	
sAction	string	1..1	
sObject	string	0..1	

### Output (Literal)

The output of this method is the argument RevokePermissionFromGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:RevokePermissionFromGroup>
  <sessionId>1</sessionId>
  <sGroupName>read</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
  <sResource>Categories</sResource>
  <sAction>FullAccess</sAction>
</urn:RevokePermissionFromGroup>
```

## Method: RevokePermissionFromUser

### Description

Revoke permission from user for some action

### Style

Document

### Input (Literal)

The input of this method is the argument RevokePermissionFromUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sProjectName	string	1..1	
sResource	string	1..1	
sAction	string	1..1	
sObject	string	0..1	

### Output (Literal)

The output of this method is the argument RevokePermissionFromUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:RevokePermissionFromUser>
  <sessionId>1</sessionId>
  <sUserName>nata</sUserName>
  <sProjectName>RMDEMO</sProjectName>
  <sResource>Classes</sResource>
  <sAction>Create</sAction>
  <sObject>Marketing_Requirements</sObject>
</urn:RevokePermissionFromUser>
```

## Method: UnassignCategoryFromGroup

### Description

Un-assign category from the group

### Style

Document

### Input (Literal)

The input of this method is the argument UnassignCategoryFromGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	
sCategoryName	string	1..1	
bIncludeSubcategories	boolean	0..1	

### Output (Literal)

The output of this method is the argument UnassignCategoryFromGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:UnassignCategoryFromGroup>
  <sessionId>1</sessionId>
  <sGroupName>read</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
  <sCategoryName>Functional</sCategoryName>
  <bIncludeSubcategories>true</bIncludeSubcategories>
</urn:UnassignCategoryFromGroup>
```

## Method: UnassignGroupFromProject

### Description

Un-assign group from the project

### Style

Document

### Input (Literal)

The input of this method is the argument UnassignGroupFromProject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	

### Output (Literal)

The output of this method is the argument UnassignGroupFromProjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:UnassignGroupFromProject>  
  <sessionId>1</sessionId>  
  <sGroupName>read</sGroupName>  
  <sProjectName>RMDEMO</sProjectName>  
</urn:UnassignGroupFromProject>
```

## Method: UnassignUserFromGroup

### Description

Un-assign user from the group

### Style

Document

### Input (Literal)

The input of this method is the argument UnassignUserFromGroup having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sGroupName	string	1..1	

### Output (Literal)

The output of this method is the argument UnassignUserFromGroupResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:UnassignUserFromGroup>  
  <sessionId>1</sessionId>  
  <sUserName>qa</sUserName>  
  <sGroupName>group</sGroupName>  
</urn:UnassignUserFromGroup>
```

## Method: UnassignUserFromProject

### Description

Un-assign user from the project

### Style

Document

### Input (Literal)

The input of this method is the argument UnassignUserFromProject having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sGroupName	string	1..1	
sProjectName	string	1..1	

### Output (Literal)

The output of this method is the argument UnassignUserFromProjectResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:UnassignUserFromProject>  
  <sessionId>1</sessionId>  
  <sUserName>qa</sUserName>  
  <sGroupName>TEST</sGroupName>  
  <sProjectName>RMDEMO</sProjectName>  
</urn:UnassignUserFromProject>
```

## Method: UpdateListAttributeValues

### Description

Change list attribute values in attribute definition

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateListAttributeValues having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	The current session identifier
sClassName	string	1..1	Name of class where list attribute is defined
sAttributeName	string	1..1	List attribute name
aValues	<a href="#">ListItems</a>	1..1	List of attribute values

### Output (Literal)

The output of this method is the argument UpdateListAttributeValues having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	Result of updating list values

### Remarks

The UpdateListAttributeValues call provides a method to change defined list attribute values to the new ones, or change properties of existing values.

After request list values will be ordered as specified in the input.

It is possible to set default attribute value(s), mark value as retired, remove and restore value.

In order to retire (delete) value, it is needed to put 'true' in <bDeleted> parameter.

In order to restore the retired value, it is needed to put 'false' in <bDeleted> parameter.

If some existing value is not specified in request, then it will be removed.

### Example of usage:

```
<urn:UpdateListAttributeValues>
  <sessionId>1489425621</sessionId>
  <sClassName>Product_Requirements</sClassName>
  <sAttributeName>PRIORITY</sAttributeName>
  <aValues>
    <item>
      <sName>High</sName>
      <!--Optional:-->
      <bDefault>>false</bDefault>
      <bDeleted>>false</bDeleted>
    </item>
    <item>
      <sName>Low</sName>
      <!--Optional:-->
      <bDefault>>true</bDefault>
      <bDeleted>>false</bDeleted>
    </item>
  </aValues>
</urn:UpdateListAttributeValues>
```



## Method: UpdateUser

### Description

Update user information and account properties

### Style

Document

### Input (Literal)

The input of this method is the argument UpdateUser having the structure defined by the following table.

Name	Type	Occurs	Description
sessionId	string	1..1	
sUserName	string	1..1	
sPassword	string	0..1	
anUserInfo	<a href="#">UserInfo</a>	0..1	

### Output (Literal)

The output of this method is the argument UpdateUserResult having the structure defined by the following table.

Name	Type	Occurs	Description
result	<a href="#">Result</a>	1..1	

### Remarks

#### Example of usage:

```
<urn:UpdateUser>
  <sessionId>1</sessionId>
  <sUserName>admin</sUserName>
  <anUserInfo>
    <sPhone>123543324</sPhone>
    <sEmail>test@email.com</sEmail>
  </anUserInfo>
</urn:UpdateUser>
```

Complex Types: rtmAdminService

**Complex Types**

Name	Description
<a href="#">AdditionalUserInfo</a>	
<a href="#">Group</a>	
<a href="#">GroupInfo</a>	
<a href="#">GroupList</a>	
<a href="#">IdList</a>	
<a href="#">LoginSource</a>	
<a href="#">LoginSources</a>	
<a href="#">NameValue</a>	
<a href="#">NameValueList</a>	
<a href="#">Result</a>	
<a href="#">StringList</a>	
<a href="#">User</a>	
<a href="#">UserInfo</a>	
<a href="#">UserInfoExt</a>	
<a href="#">UserList</a>	
<a href="#">UserNameList</a>	

## Complex Type: AdditionalUserInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sPhone	string	0..1	
sFax	string	0..1	
sPager	string	0..1	
sLocation	string	0..1	
sMobilePhone	string	0..1	
bChangePwdOnLogin	boolean	1..1	
bCanNotChangePwd	boolean	1..1	
bPwdNeverExpires	boolean	1..1	

## Complex Type: Group

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sGroupName	string	0..1	
aProjects	<a href="#">StringList</a>	1..1	

## Complex Type: GroupInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sDescription	string	0..1	

## Complex Type: GroupList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">Group</a>	0..*	

## Complex Type: IdList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	int	0..*	

## Complex Type: LoginSource

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	0..1	



## Complex Type: LoginSources

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">LoginSource</a>	0..*	

## Complex Type: NameValue

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sName	string	1..1	
sValue	string	0..1	

## Complex Type: NameValueList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">NameValue</a>	0..*	

## Complex Type: Result

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
nStatusCode	int	1..1	
sMessage	string	0..1	

## Complex Type: StringList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	string	0..*	

## Complex Type: User

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sUserName	string	0..1	
sUserLoginType	string	0..1	
sFirstName	string	0..1	
sLastName	string	0..1	
sEmail	string	0..1	
bAccountDisabled	boolean	1..1	
anAdditionalUserInfo	<a href="#">AdditionalUserInfo</a>	0..1	

## Complex Type: UserInfo

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sFirstName	string	0..1	
sLastName	string	0..1	
sPhone	string	0..1	
sFax	string	0..1	
sEmail	string	0..1	
sPager	string	0..1	
sLocation	string	0..1	
sMobilePhone	string	0..1	
bChangePwdOnLogin	boolean	0..1	
bCanNotChangePwd	boolean	0..1	
bPwdNeverExpires	boolean	0..1	
bAccountDisabled	boolean	0..1	

## Complex Type: UserInfoExt

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
sFirstName	string	0..1	
sLastName	string	0..1	
sPhone	string	0..1	
sFax	string	0..1	
sEmail	string	0..1	
sPager	string	0..1	
sLocation	string	0..1	
sMobilePhone	string	0..1	
bAccountDisabled	boolean	0..1	



## Complex Type: UserList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	<a href="#">User</a>	0..*	

## Complex Type: UserNameList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
SEQUENCE		1..1	
item	string	0..*	

# RM Restful Services

## Sources

Name	Description
<a href="#">RM Restful Services</a>	

## RM Restful Services

### See Also

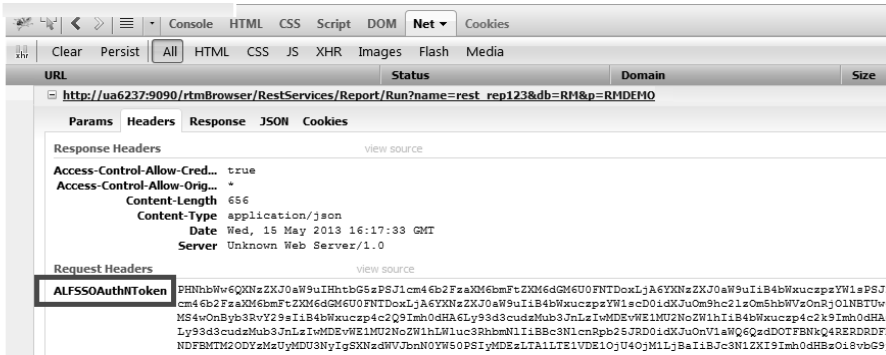
- [Authentication](#)
- [Methods](#)
- [General](#)

# Authentication for Rest Services

Authentication is mandatory for using RM Rest services

Next authentication methods are allowed:

- 1) SSO Token in *ALFSSOAuthNTToken* header.



- 2) User name and Password

- a) Basic access authentication (use the *Authorization* header)

The Authorization header is constructed as follows:

- Username and password are combined into a string "username:password"
- The resulting string literal is then encoded using Base64
- The authorization method and a space i.e. "Basic " is then put before the encoded string.

Example for ephoto:rtm: Authorization: Basic ZXBob3RvOnJ0bQ==

- b) User name and password in request parameters(also database and project should be provided):

RestServices/Report?name=myreport&u=ephoto&pwd=rtm&db=RM&p=RMDEMO

- 3) Session Id – can be retrieved from RM Login Web Service.

RestServices/Report?sessionId=1368617205&name=myreport&db=RM&p=RMDEMO

In this case db and project can be skipped

- 4) Authenticated encryption data (currently used only for get image request)

RestServices/Image?authenticated=DBB6979CEFD5B27ED2B0E&db=RM&p=RMDEMO&u=ephoto&image=I9\_7ani1a.gif

*Note: If the user has not specified any type of authentication in the HTTP request described above, the server will return response '401 Unauthorized', in which case the login dialog will be raised.*



## Methods: RestServices

### Methods

Name	Description
<a href="#">Reports</a>	Get reports
<a href="#">Report</a>	Get report info
<a href="#">Run</a>	Run report
<a href="#">Containers</a>	Get containers
<a href="#">ContainerRequirements</a>	Get requirements from the container

## Method: Reports

**Description:** Get list of reports. Results could be filtered by report type, category and class id (class\_id only for 'filter' reports)

### Action

<http://hostname:port/rtmBrowser/RestServices/Reports?>

### Style

HTTP GET

### Input

The inputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
type	int	0..1	Report type: 0 – all; 1 – filter; 2 – script; 3 – trace.
category_id	int	0..1	Category id
category_name	string	0..1	Category name
depth	int	0..1	Depth search by category.
class_id	int	0..1	Class id (only for filter report).

### Output (JSON)

The outputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
data	Complex Type	1..1	List of reports
message	string	1..1	
oiddata	object	1..1	
success	boolean	1..1	
total	int	1..1	

#### Complex Type: data

##### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>choice</small> SEQUENCE		1..1	
item	Complex Type	0..*	

#### Complex Type: item

##### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>choice</small> SEQUENCE		1..1	
categoryId	int	1..1	Category id
description	string	1..1	Category name
id	int	1..1	Report id
name	string	1..1	Report name

**Remarks****Example of usage:**

<http://host:8080/rtmBrowser/RestServices/Reports?db=RM&p=RMDEMO&u=epphoto&pwd=rtm&type=1>

**Example of output:**

```
{
  "data": [
    {
      "categoryId": 0,
      "classId": 1,
      "className": "Marketing_Requirements",
      "description": "This filter retrieves all current Marketing Requirements assigned to a 'Build1'
delivery phase.",
      "hasRuntimeParameters": false,
      "id": 183,
      "name": "Build 1 Marketing Rqmts",
      "type": "filter"
    },
    {
      "categoryId": 0,
      "classId": 1,
      "className": "Marketing_Requirements",
      "description": "This filter retrieves all current Marketing Requirements.",
      "hasRuntimeParameters": false,
      "id": 181,
      "name": "Current Marketing Rqmts",
      "type": "filter"
    }
  ],
  "message": "",
  "oiddata": null,
  "success": true,
  "total": 2
}
```



## Method: Report

**Description:** Get information about the specified report

### Action

<http://hostname:port/rtmBrowser/RestServices/Report?>

### Style

HTTP GET

### Input

The inputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
id	int	0..1	Report id
name	string	0..1	Report name
category_id	int	0..1	Category id
category_name	string	0..1	Category name
rtval	int	0..1	If set to 1 – service will return additional information for the runtime parameters: possible values for the List Attribute, Categories, Containers.

### Output (JSON)

The outputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
data	Complex Type	1..1	Report info
message	string	1..1	
oiddata	object	1..1	
success	boolean	1..1	
total	int	1..1	

### Complex Type: data

#### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>UNION</small> SEQUENCE		0..1	
category_id	int	1..1	Category id
category_name	string	1..1	Category name
classes	Complex Type	1..1	Classes used in report
column_model	Complex Type	1..1	Attributes
description	string	1..1	Report description
id	int	1..1	Report Id
name	string	1..1	Report name
owner	string	1..1	Owner of the report
report_type	string	1..1	Report type
runtime_parameters	Complex Type	1..1	Runtime parameters
script	string	1..1	Script text

**Complex Type: classes****Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>XPath</small> SEQUENCE		1..*	
name	string	1..1	Class name
xref	string	0..1	Relationship name

**Complex Type: column\_model****Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>XPath</small> SEQUENCE		0..*	
column_name	string	1..1	Attribute name
display_name	string	1..1	Attribute display name

**Complex Type: runtime\_parameters****Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>XPath</small> SEQUENCE		0..*	
attr_name	string	1..1	Attribute name
attr_type	int	1..1	Attribute type
multiple	boolean	0..1	Is multi selection
name	string	1..1	Name
prompt	string	1..1	Prompt for value
values	<a href="#">StringList</a>	0..1	Allowed values for the attribute

**Remarks****Example of usage:**

<http://localhost:8080/rtmBrowser/RestServices/Report?name=All Current Component Requirements&db=RM&p=RMDEMO&u=epphoto&pwd=rtm>

**Example of output:**

```
{
  "data": {
    "category_id": 0,
    "category_name": "RMDEMO",
    "classes": [
      {
        "name": "Component_Requirements"
      }
    ],
    "column_model": [
      {
        "column_name": "PUID",
        "display_name": "Rqmt ID"
      }
    ]
  }
}
```

```

    },
    {
      "column_name": "DOCUMENT_ID",
      "display_name": "Document ID"
    },
    {
      "column_name": "PARAGRAPH_ID",
      "display_name": "Paragraph ID"
    },
    {
      "column_name": "TEXT",
      "display_name": "Text"
    }
  ],
  "description": "This script reports all the current Component Requirements",
  "id": 1143,
  "name": "All Current Component Requirements",
  "owner": "Ephoto",
  "report_type": "script",
  "runtime_parameters": [ ],
  "script": "select <Rqmt ID>PUID <Document ID>DOCUMENT_ID <Paragraph ID>PARAGRAPH_ID
<Text>TEXT from Component_Requirements where STATUS = 'Current' order by @PUID"
},
"message": "",
"oiddata": null,
"success": true,
"total": 0
}

```

## Method: Run

**Description:** Run report by given report id or report name.

### Action

<http://hostname:port/rtmBrowser/RestServices/Report/Run?>

### Style

HTTP GET

### Input

The inputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
id	int	0..1	Report id
name	string	0..1	Report name
category_id	int	0..1	Category id
category_name	string	0..1	Category name
page	int	0..1	Current page
rows	int	0..1	Count of rows on the page
sidx	string	0..1	Column for sorting
sord	string	0..1	Type of sorting: desc or asc
skipheaders	string	0..1	Skip headers for XREF query

### Output (JSON)

The outputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
page	int	1..1	current page
records	int		records in page
rows	Complex Type		
total			total pages

#### **Complex Type: rows**

#### **Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>choice</small> SEQUENCE		1..1	
item	Complex Type	0..*	

#### **Complex Type: item**

#### **Content Model**

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>choice</small> SEQUENCE		1..1	
PUID		1..1	
TITLE	string	1..1	
id		1..1	row id
c		1..1	class id
o		1..1	object id

**Remarks****Example of usage:**

<http://localhost:8080/rtmBrowser/RestServices/Report/Run?name=SomeReport&db=RM&p=RMDEMO&u=ephoto&pwd=rtm>

**Example of output:**

```
{
  "page" : 1,    -- current page
  "records" : 2, --records in page
  "rows" : [
    {
      "PUID" : "MRKT_000002",
      "TITLE" : "Support Advantix formats",
      "id" : 1,   --row id
      "c" : 1,   --class id
      "o" : 31  --object id
    },
    {
      "PUID" : "MRKT_000003",
      "TITLE" : "Runs on standard home PC",
      "id" : 2,   --row id
      "c" : 1,   --class id
      "o" : 32  --object id
    }
  ],
  "total" : 5  --total pages
}
```

Note: Columns "c" and "o" returns always for all rows. They can be used for create URL to open requirement:

<http://.../rtmBrowser/cgi-bin/rtmBrowser.exe?goto=req&db=RM&proj=RMDEMO&c=1&o=32>

**Reports with runtime parameters**

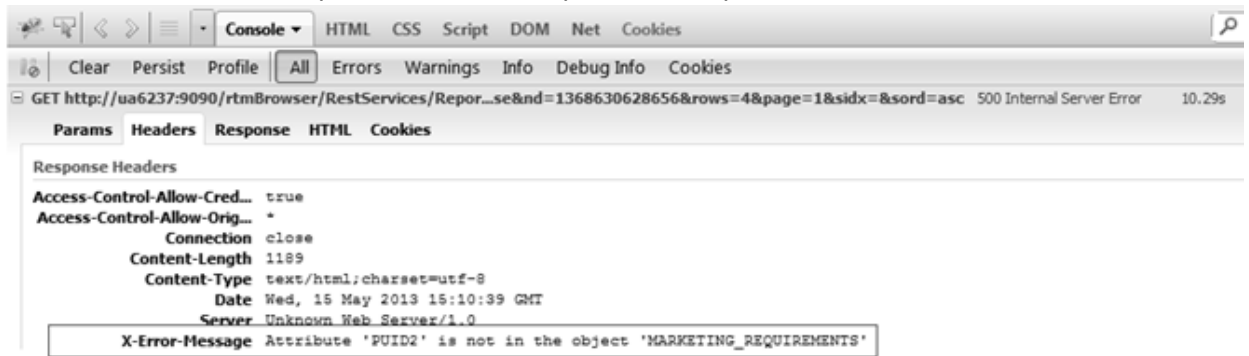
To run report with runtime parameters all values must be specified in the request:

[http://.../RestServices/Report/Run?name=test&db=RM&p=RMDEMO&RTP\\_\\_STATUS\\_2=Current&RTP\\_\\_TITLE\\_1=demo](http://.../RestServices/Report/Run?name=test&db=RM&p=RMDEMO&RTP__STATUS_2=Current&RTP__TITLE_1=demo)

Names of runtime parameters (RTP\_\_STATUS\_1, RTP\_\_TITLE\_2) can be obtained from report info REST Service: <http://.../RestServices/Report?name=test&db=RM&p=RMDEMO>

```
"runtime_parameters" : [
  {
    "attr_name" : "TITLE",
    "name" : "RTP__TITLE_1",
    "prompt" : "Enter Title"
  },
  {
    "attr_name" : "STATUS",
    "name" : "RTP__STATUS_2",
    "prompt" : "Enter Current Status"
  }
]
```

Note: If one of the runtime parameters will not specified in request server will return an error



**Additional info:**

Using in SBM rest grids. Only class reports (by only 1 class) or multi-class scripts but with same column structure are supported in SBM rest grids. Multi-class script reports with different column structure, relationship reports, traceability reports are not supported, due to unavailability to present different column structure for different classes in SBM rest grid.

## Method: Containers

**Description:** Get list of containers by specified type. Results could be filtered by container name.

### Action

<http://hostname:port/rtmBrowser/RestServices/Containers?>

### Style

HTTP GET

### Input

The inputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
type	int	1..1	Container type Possible values: <ul style="list-style-type: none"> <li>• ALL - containers</li> <li>• D - documents</li> <li>• B - baselines</li> <li>• C - collections</li> <li>• S - snapshots</li> </ul>
documentId	int	0..1	Document id if "type" parameter is set to S
designMode	boolean	0..1	possible value – true If that parameter is set (designMode=true) the service returns an example data
filter	string	0..1	Search by container name

### Output (JSON)

The outputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
data	Complex Type	1..1	Containers info
message	string	1..1	
oiddata	object	1..1	
success	boolean	1..1	
total	int	1..1	

### Complex Type: data

#### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>xs:sequence</small> SEQUENCE		0..*	
id	int	1..1	Container id
name	string	1..1	Container name
type	string	1..1	Container type "B" - baseline, "C" - collection, "D" - document, "S" - snapshot
url	string	1..1	Direct url to the container

### Remarks

"filter" is optional parameter. A search string can be provided in that parameter. The search is

case insensitive and searches by container name.

Example: find all containers which have AA or BB string in the name - filter=AA%20BB

**Example of usage:**

<http://localhost:8080/rtmBrowser/RestServices/Containers?sessionId=123456&type=all>

**Example of output:**

```
{
  "data": [
    {
      "id": 11,
      "name": "Baseline of Engineering Hot List",
      "type": "B",
      "url": "http://localhost:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=collection&db=RM&proj=RMDEMO&collectionId=11"
    },
    {
      "id": 20,
      "name": "Def document",
      "type": "D",
      "url": "http://localhost:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=doc&db=RM&proj=RMDEMO&docID=20"
    },
    {
      "id": 19,
      "name": "ECP controlled",
      "type": "D",
      "url": "http://localhost:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=doc&db=RM&proj=RMDEMO&docID=19"
    },
    {
      "id": 5,
      "name": "Engineering Hot List",
      "type": "C",
      "url": "http://localhost:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=collection&db=RM&proj=RMDEMO&collectionId=5"
    }
  ],
  "message": "",
  "oiddata": null,
  "success": true,
  "total": 4
}
```



## Method: ContainerRequirements

**Description:** Get requirements in the given container. Requirements could be filtered by specified criteria.

### Action

<http://hostname:port/rtmBrowser/RestServices/ContainerRequirements?>

### Style

HTTP GET

### Input

The inputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
id	int	1..1	Container id
designMode	boolean	0..1	possible value - true If that parameter is set (designMode=true) the service returns example data
filter	string	0..1	Filter for the requirements list
searchFullText	boolean	0..1	

### Output (JSON)

The outputs of this method are the arguments defined by the following table.

Name	Type	Occurs	Description
data	Complex Type	1..1	Requirements
message	string	1..1	
oiddata	object	1..1	
success	boolean	1..1	
total	int	1..1	

### Complex Type: data

#### Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Description
<small>END</small> SEQUENCE		0..*	
category	string	1..1	Category
className	string	1..1	Class name
class_id	int	1..1	Class id
object_id	int	1..1	Object id
puid	string	1..1	PUID
status	string	1..1	Status
title	string	1..1	Title
url	string	1..1	url
version	int	1..1	Requirement version

### Remarks

"filter" is optional parameter. A search string can be provided in that parameter. The search is case insensitive and searches for requirements - by PUID or TITLE or DESCRIPTION.

Optional "searchFullText" input parameter is available in ContainerRequirements REST service.

If it's set to true filter applies to Alphanumeric and Text attributes, as in the QuickSearch.

Example: find all requirements which have CC or DD string in the PUID or TITLE or DESCRIPTION - filter=CC%20DD

**Example of usage:**

<http://localhost:8080/rtmBrowser/RestServices/ContainerRequirements?sessionId=123456&containerId=12>

**Example of output:**

```
{
  "data": [
    {
      "category": "RMDEMO",
      "className": "Marketing_Requirements",
      "class_id": 1,
      "object_id": 4,
      "puid": "MRKT_000004",
      "status": "Current",
      "title": "Annotate photos with text",
      "url": "http://stl-qa-rm08:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=req&db=RM&proj=RMDEMO&class=Marketing_Requirements&puid=MRKT_00004&ver=1",
      "version": 1
    },
    {
      "category": "RMDEMO/Support/Training/Documentation",
      "className": "Marketing_Requirements",
      "class_id": 1,
      "object_id": 7,
      "puid": "MRKT_000007",
      "status": "Current",
      "title": "On-line help provided",
      "url": "http://stl-qa-rm08:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=req&db=RM&proj=RMDEMO&class=Marketing_Requirements&puid=MRKT_00007&ver=1",
      "version": 1
    },
    {
      "category": "RMDEMO",
      "className": "Marketing_Requirements",
      "class_id": 1,
      "object_id": 26,
      "puid": "MRKT_000024",
      "status": "Current",
      "title": "Stored photo slideshows",
      "url": "http://stl-qa-rm08:8080/rtmBrowser/cgi-bin/rtmBrowser.exe?goto=req&db=RM&proj=RMDEMO&class=Marketing_Requirements&puid=MRKT_000024&ver=1",
      "version": 1
    }
  ]
}
```

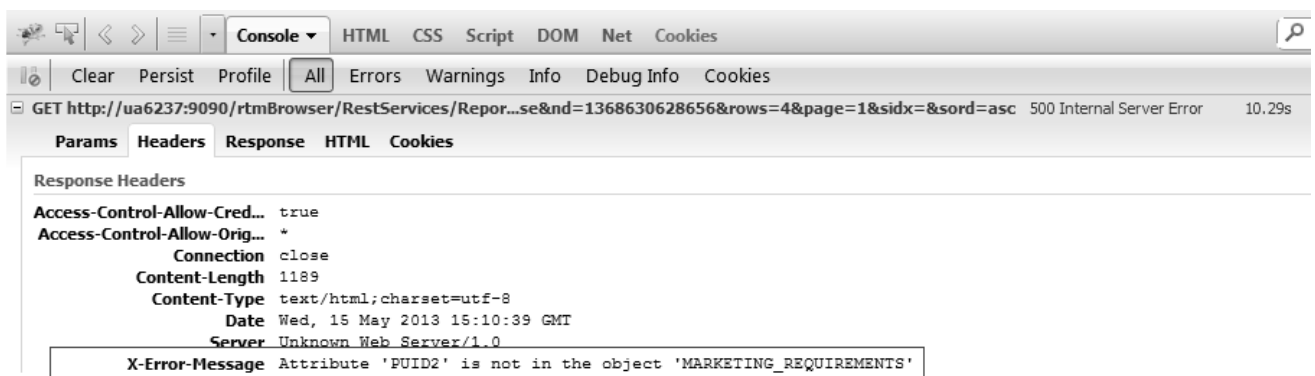
```
    },
    {
      "category": "RMDEMO/Functional/Design and Construction",
      "className": "Marketing_Requirements",
      "class_id": 1,
      "object_id": 35,
      "puid": "MRKT_000031",
      "status": "Current",
      "title": "System comes in different colors",
      "url": "http://stl-qa-rm08:8080/rtmBrowser/cgi-
bin/rtmBrowser.exe?goto=req&db=RM&proj=RMDEMO&class=Marketing_Requirements&puid=MRKT_00003
1&ver=1",
      "version": 1
    }
  ],
  "message": "",
  "oiddata": null,
  "success": true,
  "total": 4
}
}
```

## General

General info about RM Restful Services:

- 1) URI: `http://<host>:<port>/rtmBrowser/RestServices/<ServiceName>/<Action>`
- 2) Support only JSON/JSONP format.
- 3) Errors are returned through the HTTP status in response headers:
  - a) **401** Unauthorized. *The client should retry the request with a suitable Authorization header.*
  - b) **403** Forbidden. *The server understood the request, but is refusing to fulfill it. Authorization was failed.*
  - c) **404** Not found. *The server has not found anything matching the Request-URI*
  - d) **500** Internal Server Error. *The server encountered an unexpected condition which prevented it from fulfilling the request: can't connect to oracle, data not found, etc.*

*Note: Detail information about error presented in **X-Error-Message** response header field.*



- 4) RM Restful services are cookies independent. (don't set/retrieve cookies)