# Serena Dimensions RM 12.2.1 Web Service and Rest Service Reference

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# Table of Contents

rtmService ..... 3
rtmService Web Service ..... 4
Methods: rtmService ..... 5
Complex Types: rtmService ..... 126
Simple Types: rtmService ..... 245
rtmAdminService Web Service ..... 251
Methods: rtmAdminService ..... 252
Complex Types: rtmAdminService ..... 275
RM Restful Services ..... 288
RM Restful Services ..... 289
Authentication for Rest Services ..... 290
Methods: RestServices ..... 291
General ..... 305

# rtmService

### Sources

| Name | Description |
|---|---|
| rtmService | gSOAP 2.7.12 generated service definition |
| rtmAdminService | 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 |
|---|---|
| AddObjectToCollection | Add an object to a collection |
| AddSyncXrefLink | Adds a link to Sync_Xref table |
| AppendRMDocumentEx | Service definition of function ns__AppendRMDocumentEx |
| AppendRtmDocument | Append an rtm document to an existing document. |
| ApproveChangeRequest | Service definition of function ns__ApproveChangeRequest |
| AsyncAppendRtmDoc | Append an rtm document to an existing document. |
| AsyncCreateRtmDoc | Create a new project rtm document. |
| AsyncQueryRtmDoc | Creates an XML representing RM Document structure. |
| AsyncReplaceRtmDoc | Replace an existing project rtm document. |
| ChangeRequest | Create Change Request RM requirement with specified requirement data |
| CreateBaseline | Create a baseline with given requirements and associate it to a CM baseline |
| CreateCategory | Creates a RM category, given a category name, description and parent category id. |
| CreateCollection | Creates an empty collections. |
| CreateObject | Creates a RM requirement, given a class id and requirement data |
| CreateObjectEx | Creates a RM requirement, given a class id and requirement data |
| CreateObjectWithAttachment | Creates a RM requirement with attachment, given a class id and requirement data |
| CreateRMDocumentEx | Service definition of function ns__CreateRMDocumentEx |
| CreateRtmDocSnapshot | Creates document snapshot by document id. See ns__RtmDocSnapshot. |
| CreateRtmDocument | Create a new project rtm document. |
| CreateTemplate | Create a new project document template. |
| DeleteBaseline | Delete a baseline |
| DeleteObjects | Marks requirements as deleted |
| DeleteRtmDocument | Delete the rtm document specified by template id |
| DeleteSyncXrefLink | Deletes a link from Sync_Xref table |
| DeleteTemplate | Delete the project template specified by template id |
| DocumentAddChapter | Service definition of function ns__DocumentAddChapter |
| DocumentMoveObject | Service definition of function ns__DocumentMoveObject |
| DocumentRemoveObject | Marks objects as removed from the Document. |
| FindAndReplaceObject | Search requirement(s) based on attribute list and replaces those with specified requirement data |
| FindLinkedObjects | returns links with linked requirements (current state or specified state) for a specified requirement |
| FindModifiedObjects | Find objects that have been modified since the given time\date |
| FindObjects | Find objects that match the given search criteria. |
| FindObjectsInClasses | Find objects in classes that match the given search criteria. |
| FindObjectsInCollections | Find objects in the given collections. |
| FindRtmDocument | Get a document specified by id |

| Name | Description |
|---|---|
| FindTemplate | Get a document template specified by id |
| getAsyncAppendRtmDocStatus | Get status from the async. test commmand |
| getAsyncCreateRtmDocStatus | Get status from the async. test commmand |
| getAsyncQueryRtmDocStatus | Service definition of function ns__getAsyncQueryRtmDocStatus |
| getAsyncReplaceRtmDocStatus | Get status from the async. test commmand |
| getAsyncStatus | Get status from an asyncronous commmand |
| GetAttributeDefInfo | Service definition of function ns__GetAttributeDefInfo |
| GetCategoryByDisplayName | Service definition of function ns__GetCategoryByDisplayName |
| GetCategoryById | Service definition of function ns__GetCategoryById |
| GetClassDefInfo | Service definition of function ns__GetClassDefInfo |
| GetCollectionById | Get a collection specified by collection |
| GetCollectionByName | Get a collection specified by name |
| GetCollectionInfo | Service definition of function ns__GetCollectionInfo |
| GetObjectsInCollection | Get objects in the given collection. |
| GetObjectsInCollections | Get objects in the given collections. |
| GetObjectsInRMDocument | Service definition of function ns__GetObjectsInRMDocument |
| GetProjectInfo | Service definition of function ns__GetProjectInfo |
| GetRMDocSnapshotDiffUrl | Service definition of function ns__GetRMDocSnapshotDiffUrl |
| GetRMDocSnapshots | Returns list of snapshots for specified document. |
| GetRtmDocSnapshotById | Retrieve document snapshot information by id. See ns__RtmDocSnapshot. |
| GetRtmDocSnapshotByName | Retrieve document snapshot information by name. See ns__RtmDocSnapshot. |
| GetSharedFile | Download a shared file for local use |
| GetTemplateFile | Get the template file of the template specified by template id |
| getTestAsyncStatus | Get status from the async. test commmand |
| IsSSOLoginEnabled | Service definition of function ns__IsSSOLoginEnabled |
| LinkObjects | Link multiple children to a parent object |
| LinkObjectsEx | Link multiple children to a parent object |
| LinkObjectsExById | Link multiple children to a parent object |
| ListAllAllowedCategories | Get a list of all allowed categories for the project. |
| ListCategories | Get a list of child categories for the given parent category. |
| ListCollections | Get a list of collection names in the project. |
| ListCollectionsEx | Get a list of collections in the project. |
| ListCollectionsEx2 | Get a list of collections in the project. |
| ListObjectLinks | List secondary links for a specified requirement |
| ListRootCategories | Get a list of top-level categories in the project. |
| ListRtmDocuments | Get a list of rtm documents in the project. |
| ListTemplates | Get a list of document templates in the project. |
| Login | Login into RTM - use returned sessionId for subsequent calls. |
| LoginByProjectId | Login into RTM - use returned sessionId for subsequent calls. |
| LoginEx | Login into RTM and return if it was admin login along with sessionId. |
| Logout | Logout of RTM. |

| Name | Description |
|---|---|
| ModifyObjectsByScript | Service definition of function ns__ModifyObjectsByScript |
| ProposeNewRequirement | Creates a requirement proposal |
| PutSharedFile | Upload a shared file for access by others |
| QueryAttributes | Return the list of defined attributes in a classe. |
| QueryAttributesEx | Return the list of defined attributes in a classe. |
| QueryClasses | Return the list of defined classes in project. |
| QueryClassesEx | Return the list of defined classes in project. |
| QueryDatabases | Return the list of oracle databases. |
| QueryLinkClasses | Return the list of linked classes information in project. |
| QueryProjects | Return the list of defined projects in database. |
| QueryProjectsEx | Return the list of defined projects in database. |
| QueryRtmDocumentStructure | Creates an XML representing RM Document structure. |
| QuerySystemInfo | Return the system information. |
| ReadObject | Read object information with all the attribute values |
| ReadObjectAttachment | Read attachment of a requirement |
| ReadObjectEx | Read object information with all the attribute values |
| ReadObjects | Read object information with all the attribute values |
| ReadSyncXrefLink | Reads a link from Sync_Xref table |
| RejectChangeRequest | Service definition of function ns__RejectChangeRequest |
| RemoveObject | RemoveObject Removes a requirement from the database |
| RemoveObjectFromCollection | Service definition of function ns__RemoveObjectFromCollection |
| ReplaceObject | Replaces a RM requirement with specified requirement data |
| ReplaceObjectEx | Replaces a RM requirement with specified requirement data |
| ReplaceObjectWithAttachment | Replace a RM requirement with attachment, given a class id and requirement data |
| ResolveSuspicion | Clears suspect links |
| RTMDocumentAddChapter | The New Chapter Shall be added after the Existing Chapter at the same level. |
| RTMDocumentAddRequirement | The Requirement Shall be added in the Existing Chapter. |
| RTMDocumentExchangeRequirement | Exchange requirements inplace. |
| RTMDocumentRemoveRequirement | Marks requirements as removed from the Document. |
| runTestAsync | Run the async. test commmand |
| SendCMNotifications | Send notifications to CM |
| UnlinkObjects | Unlink multiple children from a parent object |
| UnlinkObjectsEx | Unlink multiple children from a parent object |
| UnlinkObjectsExById | Unlink multiple children from a parent object |
| UpdateObject | Updates a RM requirement with specified requirement data |
| UpdateObjectAttachment | Updates a RM requirement attachment |
| UpdateObjectEx | Updates a RM requirement with specified requirement data |
| UpdateTemplate | Update the template name, filename, and description fields and the template file. |
| UpdateTemplateFile | Replace the template file of the template specified by template id |
| UploadImageForHTMLAttribute | 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 | |
| objectIdentifier | RequirementIdentifier | 1..1 | |
| collectionName | string | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | addObjectToCollectionResponse | 1..1 | |

# 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 | |
| aXref | SyncXrefLink | 1..1 | |

### 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 | |

# Method: AppendRMDocumentEx

### Description

Service definition of function ns__AppendRMDocumentEx

### Style

Document

### Input (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| sessionId | string | 1..1 | |
| id | int | 1..1 | |
| rtmDoc | RtmDocument | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | AppendRMDocumentExResult | 1..1 | |

### Remarks

If you specify new sub-requirements along with a pre-existing parent requirement, the sub-requirements will be attached to the pre-existing requirement. Even if you specify a different location in the document for the parent requirement, its current location will be used instead of creating a copy of the requirement in the location you specified.

# Method: AppendRtmDocument

### Description

Append an rtm 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 | |
| id | int | 1..1 | |
| rtmDoc | RtmDocument | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | AppendRtmDocumentResult | 1..1 | |

# Method: ApproveChangeRequest

### Description

Service definition of function ns__ApproveChangeRequest

### 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 | |
| className | string | 1..1 | |
| requestId | long | 1..1 | |

### 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 | |
| status | CommandStatus | 1..1 | |

# 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 | AsyncAppendRtmDocResponse | 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 | RtmDocument | 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 | AsyncCreateRtmDocResponse | 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 | getAsyncQueryRtmDocResponse | 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 | AsyncReplaceRtmDocResponse | 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 | Requirement | 1..1 | |
| anECPsInfo | ECPsObjectInfo | 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 | RequirementOut | 1..1 | |

# 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 | RequirementIdentifierList | 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.
**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 | CategoryReq | 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 | Category | 1..1 | |

# 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 | CreateCollectionEx | 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 | |

# Method: CreateObject

### Description

Creates a RM requirement, given a class id 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 | |
| anObject | Requirement | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | RequirementOut | 1..1 | |

# Method: CreateObjectEx

### Description

Creates a RM requirement, given a class id 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 | |
| anObject | Requirement | 1..1 | |
| bDontGenerateAlfEvent | boolean | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | RequirementOut | 1..1 | |

# Method: CreateObjectWithAttachment

### Description

Creates a RM requirement with attachment, given a 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 | |
| anObject | Requirement | 1..1 | |
| sAttrName | string | 0..1 | |
| oFile | FileAttachment | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | RequirementOut | 1..1 | |

# Method: CreateRMDocumentEx

### Description

Service definition of function ns__CreateRMDocumentEx

### Style

Document

### Input (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| sessionId | string | 1..1 | |
| rtmDoc | RtmDocumentWithCategory | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | CreateRMDocumentExResult | 1..1 | |

# Method: CreateRtmDocSnapshot

### Description

Creates document snapshot by document id. See ns__RtmDocSnapshot.

### 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 | |
| snapshot | RtmDocSnapshot | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| snapshot | RtmDocSnapshotOut | 1..1 | |

# Method: CreateRtmDocument

### Description

Create a new project rtm document.

### Style

Document

### Input (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| sessionId | string | 1..1 | |
| rtmDoc | RtmDocumentWithCategory | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | CreateRtmDocumentResult | 1..1 | |

# Method: CreateTemplate

### Description

Create a new project document template.

### Style

Document

### Input (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| sessionId | string | 1..1 | |
| docTemplate | Template | 1..1 | |
| encodedContent | base64Binary | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| returnTemplate | Template | 1..1 | |

# Method: DeleteBaseline

### Description

Delete 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 | |
| nBaselineId | int | 1..1 | |

### 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 | |

# 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 | |
| sClassName | string | 1..1 | |
| aObjectPUIDs | StringList | 1..1 | |

### 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 | |

# Method: DeleteRtmDocument

### Description

Delete the rtm document specified by template 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 | |
| id | int | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| status | CommandStatus | 1..1 | |

# 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 | SyncXrefLink | 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

Delete 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 | |
| id | int | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| returnTemplate | Template | 1..1 | |

# Method: DocumentAddChapter

### Description

Service definition of function ns__DocumentAddChapter

### 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 | |
| documentId | int | 0..1 | |
| documentName | string | 0..1 | |
| parentIID | int | 0..1 | |
| chapterName | ns-chapterDetails | 1..1 | |
| position | int | 0..1 | |

### 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 | |
| Chapter | DocumentObject | 0..1 | |

# Method: DocumentMoveObject

### Description

Service definition of function ns__DocumentMoveObject

### 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 | |
| documentId | int | 0..1 | |
| documentName | string | 0..1 | |
| IID | int | 1..1 | |
| parentIID | int | 1..1 | |
| position | int | 0..1 | |

### 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 | |

# 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 | |
| documentId | int | 0..1 | |
| documentName | string | 0..1 | |
| IID | int | 1..1 | |

### 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 | |

# Method: FindAndReplaceObject

### Description

Search 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 | Requirement | 1..1 | |
| aAttrList | NameValueList | 0..1 | |
| bCreateIfnotFound | 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 | ReplaceRequirementList | 1..1 | |

# Method: FindLinkedObjects

### Description

returns links with linked requirements (current state or specified state) for a 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 | |
| sClassName | string | 1..1 | |
| nObjectId | int | 1..1 | |
| sStatus | string | 0..1 | |
| aAttrList | StringList | 0..1 | |
| bIncludeDeleted | boolean | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| sourceObjDetails | ObjectDetails | 1..1 | |
| relations | RelationList | 0..1 | |

# 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 | |
| sClassName | string | 1..1 | |
| nTimestamp | dateTime | 1..1 | |
| aObjectPUIDs | StringList | 0..1 | |
| aAttrList | StringList | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| results | RequirementList | 1..1 | |

# 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 | |
| sClassName | string | 1..1 | |
| aKeywords | StringList | 0..1 | |
| bSearchFullText | boolean | 0..1 | |
| bIncludeSubCategories | boolean | 0..1 | |
| sAdditionalConditions | string | 0..1 | |
| anExample | Requirement | 0..1 | |
| aAttrList | StringList | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | RequirementList | 1..1 | |

### Remarks

**Additional info:**
For looking for requirements in some categories, IN_CATEGORY attribute can be used
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>
  <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 | |
| aClassNamesList | StringList | 0..1 | |
| aKeywords | StringList | 0..1 | |
| bSearchFullText | boolean | 0..1 | |
| bIncludeSubCategories | boolean | 0..1 | |
| sAdditionalConditions | string | 0..1 | |
| anExample | Requirement | 0..1 | |
| aAttrList | StringList | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | RequirementList | 1..1 | |

### Remarks

**Additional info:**
For looking for requirements in some categories, IN_CATEGORY attribute can be used
**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 | |
| collectionIds | IdList | 1..1 | |
| aSearchAttr | SearchRequirement | 0..1 | |
| aKeywords | StringList | 0..1 | |
| bSearchFullText | boolean | 0..1 | |
| bDetagDescription | boolean | 0..1 | |
| aReturnAttrList | StringList | 0..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| results | RequirementFindList | 1..1 | |

### 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>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:FindObjectsInCollections>
```

# 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 | |
| id | int | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | RtmDocumentList | 1..1 | |

# 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 | |
| id | int | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | TemplateList | 1..1 | |

# 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 | getAsyncAppendRtmDocStatusResponse | 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 | getAsyncCreateRtmDocStatusResponse | 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 | getAsyncQueryRtmDocumentStatusResponse | 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 | getAsyncReplaceRtmDocStatusResponse | 1..1 | |

# Method: getAsyncStatus

### Description

Get status from an asyncronous commmand

### 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 | getAsyncStatusResponse | 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 | GetAttributeDefInfoRequest | 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 | AttributeDefInfo | 1..1 | |

# Method: GetCategoryByDisplayName

### Description

Service definition of function ns__GetCategoryByDisplayName

### 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 | |
| sDisplayName | string | 1..1 | |

### 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 | |

# Method: GetCategoryById

### Description

Service definition of function ns__GetCategoryById

### Style

Document

### Input (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| sessionId | string | 1..1 | |
| categoryId | long | 1..1 | |
| parentLevel | long | 0..1 | |

### 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 | |
| nType | long | 1..1 | |
| sName | string | 1..1 | |
| sDescription | string | 0..1 | |
| sDisplayName | string | 1..1 | |
| nParentId | long | 1..1 | |

# Method: GetClassDefInfo

### Description

Service definition of function ns__GetClassDefInfo

### 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 | GetClassDefInfoRequest | 0..1 | |

### 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 | ClassDefInfo | 1..1 | |

# Method: GetCollectionById

### Description

Get a collection specified by collection

### 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 | |
| collection-id | int | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| collection | CollectionEx | 1..1 | |

# 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 | |
| collection-name | string | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| collection | CollectionEx | 1..1 | |

# 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 | GetCollectionInfoRequest | 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 | CollectionInfo | 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 | StringList | 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 | RequirementList | 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 | IdList | 1..1 | |
| bDetagDescription | boolean | 0..1 | |
| aAttrList | StringList | 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 | RequirementList | 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 | StringList | 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 | RequirementList | 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 | GetProjectInfoRequest | 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 | ProjectInfo | 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 | RtmDocSnaphotOutList | 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 | RtmDocSnapshotOut | 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 | RtmDocSnapshotOut | 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 | FileAttachment | 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 | FileAttachment | 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 commmand

### 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 |
|---|---|---|---|
| cmdToken | 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 |
|---|---|---|---|
| result | testAsyncStatusResponse | 1..1 | |

# 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 | StringList | 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 | |

# 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 | StringList | 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 | |

# 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 | IdList | 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 | StringList | 0..1 | |

# 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 | CategoryList | 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 | CategoryList | 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 | CollectionList | 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 | CollectionExList | 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 | CollectionEx2List | 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 | Requirement | 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 | LinkList | 1..1 | |

# 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 | CategoryList | 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 | DocumentsFilter | 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 | RtmDocumentList | 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 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>
```

# 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 | TemplateList | 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

It is also possible to use RM Browser session in any RM web service.
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 | |

# 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 | LoginExResultInfo | 1..1 | |

# 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

Service definition of function ns__ModifyObjectsByScript

### 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 | NameValueList | 1..1 | |
| anScript | Script | 1..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 | ObjectsList | 1..1 | |
| aFailedObjects | ObjectsList | 1..1 | |

### Remarks

**Additional Info:**
New attributes values section is used for replace, update actions. Also it is 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:
- Specify script name or script text

**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>
```

# 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 | NameValueList | 1..1 | |
| anECPsInfo | ECPsObjectInfo | 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 | ProposeNewRequirementResult | 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>vvvvvv</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 | FileAttachment | 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 defined attributes in a classe.

### 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 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | AttributeDefList | 1..1 | |

# Method: QueryAttributesEx

### Description

Return the list of defined attributes in a classe.

### 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 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | AttributeDefExList | 1..1 | |

# 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 | ClassDefList | 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 | ClassDefExList | 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 | DatabaseList | 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 | LinkClassDefList | 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 | ProjectList | 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 | ProjectExList | 1..1 | |

# Method: QueryRtmDocumentStructure

### Description

Creates an XML representing RM Document structure.

### Style

Document

### Input (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| info | RtmDocumentProperties | 1..1 | |
| sContent | string | 1..1 | |

# 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 | SystemInfo | 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 | RequirementIdentifier | 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 | RequirementOut | 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 | RequirementIdentifier | 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 | FileAttachment | 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 | RequirementIdentifier | 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 | RequirementOut | 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 | RequirementIdentifierList | 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 | RequirementList | 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 | SyncXrefLink | 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 | SyncXrefLinkList | 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 | CommandStatus | 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 | ObjectDef | 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 | RequirementIdentifier | 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 | removeObjectFromCollectionResponse | 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 | Requirement | 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 | RequirementOut | 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 | Requirement | 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 | RequirementOut | 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 **true**, all outgoing links will be cleared from suspect.<br>If **false**, outgoing links will still be suspect.<br><br>Default is true |
| bSecondaryLinks | boolean | 0..1 | If **true**, all incoming links will be cleared from suspect.<br>If **false**, incoming links will still be suspect.<br><br>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 | Requirement | 1..1 | |
| sAttrName | string | 1..1 | |
| oFile | FileAttachment | 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 | RequirementOut | 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 | ns-chapterDetails | 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 | Requirement | 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 | ECPObjInfo | 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 | runTestAsyncInputData | 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 | runTestAsyncResponse | 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: 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 | StringList | 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 | |

# 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 | StringList | 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 | |

# 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 | IdList | 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 | StringList | 0..1 | |

# 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 | Requirement | 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 | RequirementOut | 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 | FileAttachment | 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 | Requirement | 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 | RequirementOut | 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 | Template | 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 | ImageList | 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 | ImageUploadResultList | 1..1 | |
| aFailed | ImageUploadResultList | 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>iVBORw0KGgoAAAANSUhEUgAAADwAAAA1CAIAAACSkR/tAAAAAXNSR0
      IArs4c6QAAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAADsMAAA7DAcdvqGQAAAHxSURBVGh
      D7ZQxcsIwEEU5FwfiPJyBI6TgAByBloouDTMumKGgIJL2S1ptstgSlsYEvfmTSXYV7bMte/V4Q7p0
      K7p0K7p0K7p0Kz5AerX7rhHsPplJ0mJGpWDYBMalxda1g6lPGZEWO7YJZuv8O2mxlwkasyJGmK
      ChkyGNagXEIBM0FBYhbcia1aVfIGvWh0nvD0l3tRv26MTW+nhHyXE6Xn4vJnwdQVWhWPq+/Uq6
      Nl/Xk23dNqFyuLnFBKtjZQR1H1QViqXJwN+w82DXkMpwXdvfL+5nlKPbvzm4lcnFWGhECKoKpdJk
      6WfjPNCfrrU+3tyj8FeFK7nu3QnZnKkasf/OgqpCoTQ7nSHwo5bRcldy2Q626H+nQ4UiJ92qjnR41R
      D2uINrsGePJT1UjLiVC6oKZdL8huH18k+caSXnxC32h0S8hYYwhYKqQpE0zfY3jO46vm5cC8tc2H
      HnjyWAZT6oKhRJp7NxvpmW/zyHb9xfl5filsWgqlAiTZZxNrvx8Rxb8C33K9W30EAjQlBVKHwRZydr
      Vpd+gaxZXfoFsmYtQloMMkFDIUOagt58iP1N0NB5Jm0Q27UJZussThqDnzIibRCbVg1GjjEuTYjdaw
      STJjBVmhBjZgm2ziFPeiF06VZ06VZ06VZ06Va8ofTj8QO6Ch0Ds823OQAAAABJRU5ErkJggg==
      </encodedContents>
    </item>
  </files>
</urn:UploadImageForHTMLAttribute>
```

# Complex Types: rtmService

### Complex Types

| Name | Description |
|---|---|
| addObjectToCollectionResponse | |
| AppendRMDocumentExResult | |
| AppendRtmDocumentResult | |
| AsyncAppendRtmDocResponse | |
| AsyncCreateRtmDocResponse | |
| AsyncReplaceRtmDocResponse | |
| AttributeDef | |
| AttributeDefEx | |
| AttributeDefExList | |
| AttributeDefInfo | |
| AttributeDefList | |
| AttributeDefSpecifier | |
| AttributeFormatDef | |
| Category | |
| CategoryAssign | |
| CategoryList | |
| CategoryReq | |
| ClassDef | |
| ClassDefEx | |
| ClassDefExList | |
| ClassDefInfo | |
| ClassDefList | |
| ClassSpecifier | |
| CmdStatus | |
| CollectionEx | |
| CollectionEx2 | |
| CollectionEx2List | |
| CollectionExList | |
| CollectionInfo | |
| CollectionList | |
| CollectionSpecifier | |
| CollectionTransferRules | |
| CollectionTransferRulesEx | |
| CommandStatus | |
| CreateCollectionEx | |
| CreateRMDocumentExResult | |
| CreateRtmDocumentResult | |
| DatabaseList | |
| DocumentObject | |
| DocumentsFilter | |

| Name | Description |
|---|---|
| ECPObjInfo | |
| ECPsObjectInfo | |
| FileAttachment | |
| FindRequirementOut | |
| FormatDef | |
| getAsyncAppendRtmDocStatusResponse | |
| getAsyncCreateRtmDocStatusResponse | |
| getAsyncQueryRtmDocResponse | |
| getAsyncQueryRtmDocumentStatusResponse | |
| getAsyncReplaceRtmDocStatusResponse | |
| getAsyncStatusResponse | |
| GetAttributeDefInfoReply | |
| GetAttributeDefInfoRequest | |
| GetClassDefInfoReply | |
| GetClassDefInfoRequest | |
| GetCollectionInfoReply | |
| GetCollectionInfoRequest | |
| GetProjectInfoReply | |
| GetProjectInfoRequest | |
| IdList | |
| ImageList | |
| ImageUploadResult | |
| ImageUploadResultList | |
| Link | |
| LinkClassDef | |
| LinkClassDefList | |
| LinkList | |
| LoginExResultInfo | |
| NameValue | |
| NameValueList | |
| ns-chapterDetails | |
| Object | |
| ObjectDef | |
| ObjectDetails | |
| ObjectDetailsList | |
| ObjectsList | |
| ProjectEx | |
| ProjectExList | |
| ProjectInfo | |
| ProjectList | |
| ProjectSpecifier | |
| ProposeNewRequirementResult | |
| RelationList | |

| Name | Description |
|---|---|
| RelationWithObjects | |
| removeObjectFromCollectionResponse | |
| ReplaceRequirementList | |
| ReplaceRequirementOut | |
| Report | |
| Requirement | |
| RequirementFindList | |
| RequirementIdentifier | |
| RequirementIdentifierList | |
| RequirementList | |
| RequirementOut | |
| Result | |
| RtmDocSnaphotOutList | |
| RtmDocSnapshot | |
| RtmDocSnapshotOut | |
| RtmDocument | |
| RtmDocumentList | |
| RtmDocumentProperties | |
| RtmDocumentWithCategory | |
| runTestAsyncInputData | |
| runTestAsyncResponse | |
| runTestAsyncResponseData | |
| Script | |
| SearchRequirement | |
| StatusMessage | |
| StatusMessageList | |
| StringList | |
| SyncXrefLink | |
| SyncXrefLinkList | |
| SystemInfo | |
| Template | |
| TemplateList | |
| testAsyncStatusResponse | |

# 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 | cmdStatusCode | 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 | RtmDocumentProperties | 1..1 | |
| status | CommandStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CommandStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CmdStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CmdStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CmdStatus | 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 | |
| bManditory | boolean | 1..1 | |
| bEditable | boolean | 1..1 | |
| bUnique | boolean | 1..1 | |
| bVisable | boolean | 1..1 | |
| bMultiple | boolean | 1..1 | |
| aFormat | FormatDef | 1..1 | |
| aValues | StringList | 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 | |
| bManditory | 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 | FormatDef | 1..1 | |
| aValues | StringList | 0..1 | |

# 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 | AttributeDefEx | 0..* | |

# 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 | |
| bManditory | 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 | AttributeFormatDef | 1..1 | |
| aValues | StringList | 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 | AttributeDef | 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 | IdNameEnumeration | 1..1 | |
| Value | IdNameUnion | 1..1 | |

# 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 | |

# 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 | Category | 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 | |

# 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 | ClassDefEx | 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 | ClassDef | 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 | IdNameEnumeration | 1..1 | |
| Value | IdNameUnion | 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 | StatusMessageList | 0..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 | CollectionTransferRules | 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 | CollectionEx2 | 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 | CollectionEx | 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 | CollectionTransferRules | 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 | IdNameEnumeration | 1..1 | |
| Value | IdNameUnion | 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 | CollectionTransferRulesEx | 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 | RtmDocumentProperties | 1..1 | |
| status | CommandStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CommandStatus | 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 | |
| bIsBeforeAndAfterIncludeSpecifiedTime | boolean | 0..1 | |
| sCategory | string | 0..1 | |
| bIncludeSubCategories | 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 | NameValueList | 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 | RtmDocumentProperties | 1..1 | |
| status | CmdStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CmdStatus | 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 | RtmDocument | 1..1 | |
| status | CmdStatus | 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 | RtmDocument | 1..1 | |
| status | CmdStatus | 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 | RtmDocumentProperties | 1..1 | |
| status | CmdStatus | 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 | CmdStatus | 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 | AttributeDefInfo | 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 | ClassSpecifier | 1..1 | |
| attributeDefSpecifier | AttributeDefSpecifier | 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 | ClassDefInfo | 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 | ClassSpecifier | 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 | CollectionInfo | 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 | CollectionSpecifier | 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 | ProjectInfo | 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 | ProjectSpecifier | 1..1 | |
| sUserId | string | 1..1 | |
| sPassword | string | 1..1 | |
| sDatabase | string | 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 | FileAttachment | 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 | ImageUploadResult | 0..* | |

# 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 | LinkClassDef | 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 | Link | 0..* | |

# 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 | |
| bIsAdmin | 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 | NameValue | 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 | NameValueList | 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 | ObjectDetails | 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 | Object | 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 | ProjectEx | 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 | IdNameEnumeration | 1..1 | |
| Value | IdNameUnion | 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 | RequirementOut | 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 | RelationWithObjects | 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 | ObjectDetailsList | 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 | cmdStatusCode | 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 | ReplaceRequirementOut | 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 | RequirementOut | 1..1 | |
| eStatus | reqStatusCode | 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 | NameValueList | 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 | FindRequirementOut | 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 | |
| sPUID | 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 | RequirementIdentifier | 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 | RequirementOut | 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 | |
| sPUID | 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 | NameValueList | 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 | RtmDocSnapshotOut | 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 | RtmDocumentProperties | 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 | RtmDocumentProperties | 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 | RtmDocumentProperties | 1..1 | |
| sContent | string | 0..1 | |
| categoryInfo | CategoryAssign | 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 | runTestAsyncResponseData | 1..1 | |
| status | CmdStatus | 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 | Report | 0..1 | |
| anRunTimeParameters | NameValueList | 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 | NameValueList | 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 | StringList | 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 | StatusMessage | 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 | SyncXrefLink | 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 | Template | 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 | runTestAsyncResponseData | 1..1 | |
| status | CmdStatus | 1..1 | |

# Simple Types: rtmService

### Simple Types

| Name | Description |
|---|---|
| cmdStatusCode | |
| IdNameEnumeration | |
| IdNameUnion | |
| reqStatusCode | |
| statusCode | |

# 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 |
|---|---|
| AssignCategoryToGroup | Assign category access to the group |
| AssignGroupToProject | Assign group to the project |
| AssignUserToGroup | Assign user to the group |
| AssignUserToProject | Assign user to the project |
| CreateGroup | Create a new group |
| CreateUser | Create a new user |
| DeleteGroup | Delete a group |
| DeleteUser | Delete a user |
| GetGroupInfo | Get information about group |
| GetGroups | Get list of groups |
| GetUserInfo | Get information about user |
| GetUsers | Get list of all users |
| GrantPermissionToGroup | Grant permission to group for some action |
| GrantPermissionToUser | Grant permission to user for some action |
| InheritPermissionForUser | Inherit permission to user for some action |
| RevokePermissionFromGroup | Revoke permission from group for some action |
| RevokePermissionFromUser | Revoke permission from user for some action |
| UnassignCategoryFromGroup | Un-assign category from the group |
| UnassignGroupFromProject | Un-assign group from the project |
| UnassignUserFromGroup | Un-assign user from the group |
| UnassignUserFromProject | Un-assign user from the project |
| UpdateUser | 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 | Result | 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 | Result | 1..1 | |

### Remarks

**Example of usage:**

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

# 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 | Result | 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 | |
| sUserName | string | 1..1 | |
| sGroupName | string | 1..1 | |
| sProjectName | string | 1..1 | |

### Output (Literal)

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

| Name | Type | Occurs | Description |
|---|---|---|---|
| result | Result | 1..1 | |

### Remarks

**Example of usage:**

```
<urn:AssignUserToProject>
  <sessionId>1</sessionId>
  <sUserName>nata</sUserName>
  <sGroupName>test1</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
</urn:AssignUserToProject>
```

# 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 | GroupInfo | 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 | Result | 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 | UserInfo | 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 | Result | 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: 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 | Result | 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 | Result | 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 | GroupInfo | 1..1 | |
| aProjects | StringList | 1..1 | |
| aUsers | StringList | 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 | GroupList | 1..1 | |

### Remarks

**Example of usage:**

```
<urn:GetGroups>
  <sessionId>1</sessionId>
</urn:GetGroups>
```

# 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 | AdditionalUserInfo | 0..1 | |
| aGroups | StringList | 0..1 | |
| aProjects | NameValueList | 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 | UserList | 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 tothis 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 | Result | 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 | Result | 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 | Result | 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 | Result | 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 | Result | 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 | Result | 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 | Result | 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 | Result | 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 | Result | 1..1 | |

### Remarks

**Example of usage:**

```
<urn:UnassignUserFromProject>
  <sessionId>1</sessionId>
  <sUserName>qa</sUserName>
  <sGroupName>TEST</sGroupName>
  <sProjectName>RMDEMO</sProjectName>
</urn:UnassignUserFromProject>
```

# 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 | UserInfo | 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 | Result | 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 |
|---|---|
| AdditionalUserInfo | |
| Group | |
| GroupInfo | |
| GroupList | |
| IdList | |
| NameValue | |
| NameValueList | |
| Result | |
| StringList | |
| User | |
| UserInfo | |
| UserList | |

# 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 | StringList | 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 | Group | 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: 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 | NameValue | 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 | AdditionalUserInfo | 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: UserList

### Derived By

Restricting anyType

### Content Model

Contains elements as defined in the following table.

| Component | Type | Occurs | Description |
|---|---|---|---|
| SEQUENCE | | 1..1 | |
| item | User | 0..* | |

# RM Restful Services

### Sources

| Name | Description |
| --- | --- |
| RM Restful Services | |

# RM Restful Services

### See Also

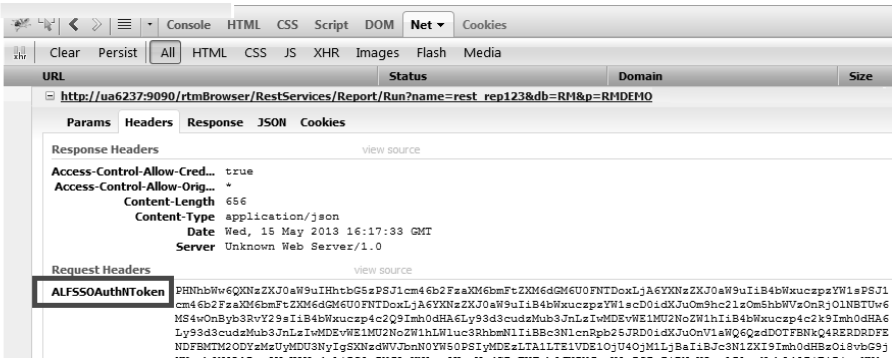
- Authentication
- Methods
- General

# Authentication for Rest Services

Authentication is mandatory for using RM Rest services

Next authentication methods are allowed:

1) SSO Token in *ALFSSOAuthNToken* 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=DBB6979CEFDF5B27ED2B0E&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 |
|---|---|
| Reports | Get reports |
| Report | Get report info |
| Run | Run report |
| Containers | Get containers |
| ContainerRequirements | 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:<br>0 – all;<br>1 – filter;<br>2 – script;<br>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 |
|---|---|---|---|
| SEQUENCE | | 1..1 | |
| item | Complex Type | 0..* | |

#### *Complex Type: item*

#### *Content Model*

Contains elements as defined in the following table.

| Component | Type | Occurs | Description |
|---|---|---|---|
| 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=ephoto&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 |
|---|---|---|---|
| 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 |
|---|---|---|---|
| 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 |
|---|---|---|---|
| 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 |
|---|---|---|---|
| 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 | StringList | 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=ephoto&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 |
|---|---|---|---|
| SEQUENCE | | 1..1 | |
| item | Complex Type | 0..* | |

#### *Complex Type: item*

#### *Content Model*

Contains elements as defined in the following table.

| Component | Type | Occurs | Description |
|---|---|---|---|
| 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

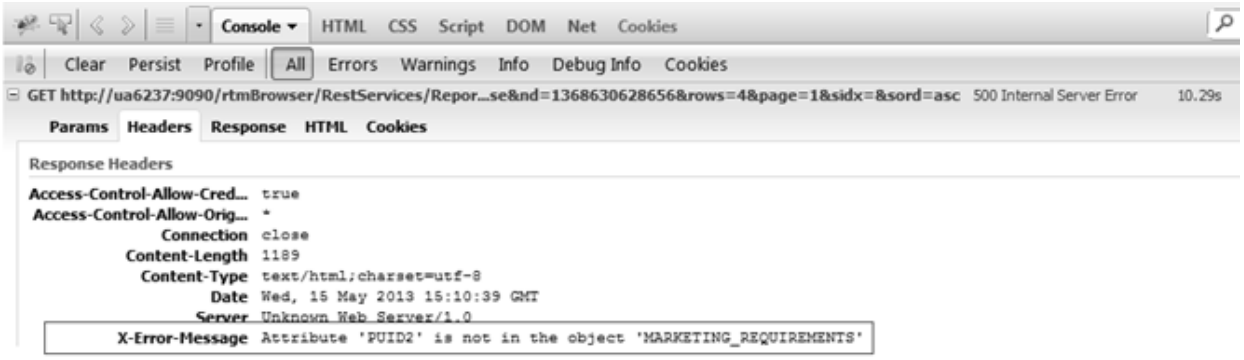
**Reports with runtime parameters**

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

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



# 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<br>Possible values:<br>• ALL - containers<br>• D - documents<br>• B - baselines<br>• C - collections<br>• S - snapshots |
| documentId | int | 0..1 | Document id if "type" parameter is set to S |
| designMode | boolean | 0..1 | possible value – true<br>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 |
|---|---|---|---|
| SEQUENCE | | 0..* | |
| id | int | 1..1 | Container id |
| name | string | 1..1 | Container name |
| type | string | 1..1 | Container type<br>"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&collection
Id=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&collection
Id=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<br>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 |
|---|---|---|---|
| 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_000004&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_000007&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
```

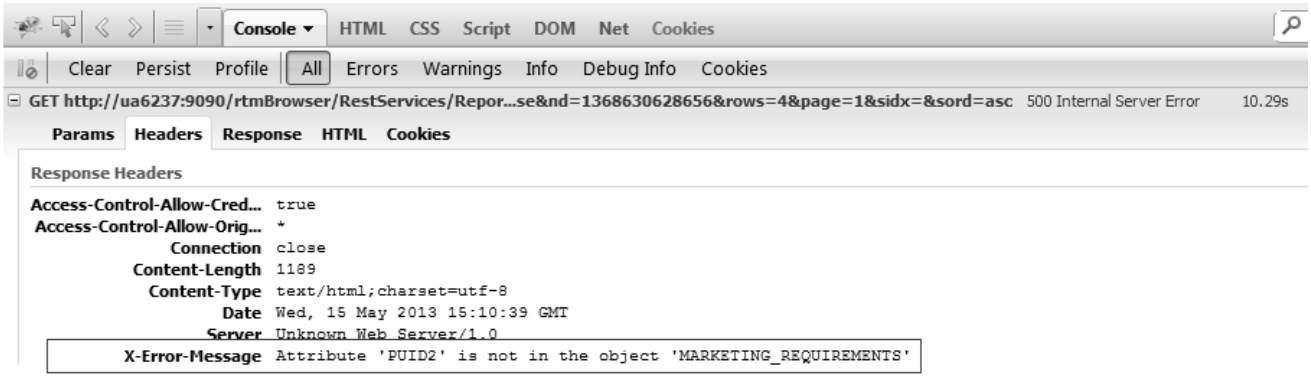
```
            },
            {
                "category": "RMDEMO/Functional/Design and Construction",
                "className": "Marketing_Requirements",
                "class_id": 1,
                "object_id": 35,
                "puid": "MRKT_000031",
                "status": "Current",
                "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_000031&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)