
Serena Development Manager Web Services Reference

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Overview

Description

This document contains Web Service descriptions for the following services.

Web Services

Name	Description
DevManagerServicesService	Allows you to retrieve Dimensions login credentials from the SBM auxiliary table, update a Dimensions CM request, and update an item in SBM with data from a Dimensions CM request.
Getcmproducts	Returns a list of all available products in Dimensions CM. This, along with the rest of the services described in this document, are REST services hosted on the Dimensions CM server.
Getcmprojects	Returns a list of all available projects and streams for a specific product in Dimensions CM.
Getcmrequesttypes	Returns a list of all available request types for a specific product in Dimensions CM.
Getcmbaselinetemplates	Returns a list of all available baseline templates for a specific product in Dimensions CM.
Getcmbaselinetypes	Returns a list of all available baseline types for a specific product in Dimensions CM.
Getcmdesignparts	Returns a list of all available design parts for a specific product in Dimensions CM.
Getcmbuildconfigurations	Returns a list of all available build configurations for a specific product and project (or stream) in Dimensions CM. The build configuration name is returned in the following format: "{name};{version}" where {name} is the name of the build configuration and {version} is the version of the configuration. For example: "ANT_JAVA_BUILD;1"
Getcmbuildareas	Returns a list of all available build areas for a specific product, project or stream, and build configuration in Dimensions CM.

DevManagerServicesService Web Service

Description

Allows you to retrieve Dimensions login credentials from the SBM auxiliary table, update a Dimensions CM request, and update an item in SBM with data from a Dimensions CM request.

Type

SOAP

Style

Document

See Also

Methods

Methods: DevManagerServicesService

Description

The following methods are provided by the Development Manager Web Services. The SBMConnection and auxItemID parameters are mandatory. All others are necessary.

Methods

Name	Description
getDimensionsCMCredentials	Returns Dimensions CM credentials fields from an SBM aux table.
getRequirementsByDevCR	Returns list of requirements ids that points to passed CR, but not in the requirementsExcludeList.
getRequirementsNotPointingToDevCR	Returns sub-list of passed requirements that aren't pointing to passed CR.
updateCMRequest	Updates or creates a request in Dimensions CM. If the createIfNotExists parameter set to false, this method only attempts to update the item and will not create a new item if it does not already exist in Dimensions CM. If the createIfNotExists parameter is set to true, this service will create a new item if the item does not already exist.
updateFromCMRequest	Updates or creates an item in SBM. If the createIfNotExists parameter is set to false, this method will attempt to update item but will not create it if it is not already exist in SBM. If the createIfNotExists parameter is set to true, this service will create a new item if the item does not already exist in SBM.
updateRequirementsNotPointingToDevCRInList	Updates requirements in AUX table that don't point to CR, but exist in passed list of requirements, so they will point to CR.
updateRequirementsPointingToDevCRButNotInList	Updates requirements in Aux table that point to CR, but aren't in the passed list of requirements, so they won't be pointing to CR any more.

Method: getDimensionsCMCredentials

Description

Returns Dimensions CM credentials fields from an SBM aux table.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:SBMConnection	tns:sbmConnection	0..1	No	Server, port, user, and password for SBM login.
tns:tableDbName	xsd:string	0..1	No	
tns:idDbName	xsd:string	0..1	No	
tns:idValue	xsd:string	0..1	No	
tns:CMConnectionDbNames	tns:cmConnection	0..1	No	

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	tns:cmConnection	0..1	No	Server, user, password, database name, and database connection for Dimensions CM login.

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	In case of an unexpected error, the Web service will generate a Web fault.

Method: getRequirementsByDevCR

Description

Returns list of requirements ids that points to passed CR, but not in the requirementsExcludeList.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:SBMAuth	tns:sbmConnection	0..1	No	
tns:CRId	xsd:string	0..1	No	
tns:RequirementsTableId	xsd:string	0..1	No	
tns:CRsFieldName	xsd:string	0..1	No	
tns:RequirementsExcludeList	tns2:NameValue	0..1	No	

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	xsd:string	0..*	No	

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	

Method: getRequirementsNotPointingToDevCR

Description

Returns sub-list of passed requirements that aren't pointing to passed CR.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:SBMAuth	tns:sbmConnection	0..1	No	
tns:CRId	xsd:string	0..1	No	
tns:RequirementsTableId	xsd:string	0..1	No	
tns:CRFieldName	xsd:string	0..1	No	
tns:RequirementsList	tns2:NameValue	0..1	No	

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	xsd:string	0..*	No	

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	

Method: updateCMRequest

Description

Updates or creates a request in Dimensions CM. If the createIfNotExists parameter set to false, this method only attempts to update the item and will not create a new item if it does not already exist in Dimensions CM. If the createIfNotExists parameter is set to true, this service will create a new item if the item does not already exist.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:SBMItemId	xsd:string	0..1	No	The SBM item ID.
tns:mapping	tns:mapping	0..1	No	The mapping structure between CM and SBM fields.
tns:createIfNotExists	xsd:boolean	1..1	No	Boolean flag that, if set to true, causes the service to create a new item if no existing item is found.

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	xsd:string	0..1	No	The created or updated Dimensions CM request ID.

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	In case of an unexpected error, the Web service will generate a Web fault.

Method: updateFromCMRequest

Description

Updates or creates an item in SBM. If the createIfNotExists parameter is set to false, this method will attempt to update item but will not create it if it is not already exist in SBM. If the createIfNotExists parameter is set to true, this service will create a new item if the item does not already exist in SBM.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:CMRequestId	xsd:string	0..1	No	The Dimensions CM request ID.
tns:mapping	tns:mapping	0..1	No	Mapping structure between Dimensions CM and SBM items.
tns:createIfNotExists	xsd:boolean	1..1	No	Boolean flag that, if set to true, causes the service to create a new item if no existing item is found.

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	xsd:string	0..1	No	Created or updated SBM team ID.

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	In case of an unexpected error, the Web service will generate a Web fault.

Method: updateRequirementsNotPointingToDevCRInList

Description

Updates requirements in AUX table that don't point to CR, but exist in passed list of requirements, so they will point to CR.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:SBMAuth	tns:sbmConnection	0..1	No	
tns:CRId	xsd:string	0..1	No	
tns:RequirementsTableId	xsd:string	0..1	No	
tns:CRFieldName	xsd:string	0..1	No	
tns:RequirementsList	tns2:NameValue	0..1	No	

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	xsd:string	0..*	No	

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	

Method: updateRequirementsPointingToDevCRButNotInList

Description

Updates requirements in Aux table that point to CR, but aren't in the passed list of requirements, so they won't be pointing to CR any more.

Action

Style

Document

Input (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:SBMAuth	tns:sbmConnection	0..1	No	
tns:CRId	xsd:string	0..1	No	
tns:RequirementsTableId	xsd:string	0..1	No	
tns:CRFieldName	xsd:string	0..1	No	
tns:RequirementsExcludeList	tns2:NameValue	0..1	No	

Output (Literal)

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

Element	Type	Occurs	Nilable?	Description
SEQUENCE		1..1		
tns:return	xsd:string	0..*	No	

Faults

Name	Content	Description
DevManagerFault	tns:DevManagerFault	

Getcmproducts Web Service

Description

Returns a list of all available products in Dimensions CM. This, along with the rest of the services described in this document, are REST services hosted on the Dimensions CM server.

Type

REST

Remarks

This REST service resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmproducts

Methods

Name	Description
getCmProducts	Returns a list of all available products in Dimensions CM.

Method: getCmProducts

Description

Returns a list of all available products in Dimensions CM.

Action

`http://{host}:{port}/DevManager/services/rest/getCmProducts?username={string}&password={string}&server={string}&dbName={string}&dbConnection={string}&designMode={true/false}`

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
<input type="checkbox"/> ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
username	string	1..1	Username for Dimensions CM login.
password	string	1..1	Password for Dimensions CM login.
server	string	1..1	Dimensions CM server name.
dbName	string	1..1	Dimensions CM database name.
dbConnection	string	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM product IDs.

Getcmprojects Web Service

Description

Returns a list of all available projects and streams for a specific product in Dimensions CM.

Type

REST

Remarks

This REST service resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmprojects

Methods

Name	Description
getCmProjects	Returns a list of all available projects and streams for a specific product in Dimensions CM.

Method: getCmProjects

Description

Returns a list of all available projects and streams for a specific product in Dimensions CM.

Action

```
http://{host}:{port}/DevManager/services/rest/getCmProjects?product={product}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}
```

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	Password for Dimensions CM login.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM projects.

Getcmrequesttypes Web Service

Description

Returns a list of all available request types for a specific product in Dimesions CM.

Type

REST

Remarks

This REST service resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmrequesttypes

Methods

Name	Description
getCmRequestTypes	Returns a list of all available request types for a specific product in Dimesions CM.

Method: getCmRequestTypes

Description

Returns a list of all available request types for a specific product in Dimesions CM.

Action

http://{host}:{port}/DevManager/services/rest/getCmRequestTypes?product={product}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	Password for Dimensions CM login.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database name.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM request types.

Getcmbaselinetemplates Web Service

Description

Returns a list of all available baseline templates for a specific product in Dimensions CM.

Type

REST

Remarks

This REST service resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmbaselinetemplates

Methods

Name	Description
getCmBaselineTemplates	Returns a list of all available baseline templates for a specific product in Dimensions CM.

Method: getCmBaselineTemplates

Description

Returns a list of all available baseline templates for a specific product in Dimensions CM.

Action

http://{host}:{port}/DevManager/services/rest/getCmBaselineTemplates?product={product}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	Password for Dimensions CM login.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM baseline templates.

Getcmbaselinetypes Web Service

Description

Returns a list of all available baseline types for a specific product in Dimensions CM.

Type

REST

Remarks

This REST service resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmbaselinetypes

Methods

Name	Description
getCmBaselineTypes	Returns a list of all available baseline types for a specific product in Dimensions CM.

Method: getCmBaselineTypes

Description

Returns a list of all available baseline types for a specific product in Dimensions CM.

Action

`http://{host}:{port}/DevManager/services/rest/getCmBaselineTypes?product={product}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}`

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	User password for connecting to Dimensions CM.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM baseline types.

Getcmdesignparts Web Service

Description

Returns a list of all available design parts for a specific product in Dimensions CM.

Type

REST

Remarks

This REST service resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmdesignparts

Methods

Name	Description
getCmDesignParts	Returns a list of all available baseline types for a specific product in Dimensions CM.

Method: getCmDesignParts

Description

Returns a list of all available baseline types for a specific product in Dimensions CM.

Action

`http://{host}:{port}/DevManager/services/rest/getCmDesignParts?product={product}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}`

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	Password for Dimensions CM login.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM Design Parts.

Getcbuildconfigurations Web Service

Description

Returns a list of all available build configurations for a specific product and project (or stream) in Dimensions CM. The build configuration name is returned in the following format: "{name};{version}" where {name} is the name of the build configuration and {version} is the version of the configuration. For example:
"ANT_JAVA_BUILD;1"

Type

REST

Remarks

This REST services resides on the Dimensions CM server.

See Also

Methods

Methods: Getcmbuildconfigurations

Methods

Name	Description
getCmBuildConfigurations	Returns a list of all available build configurations for a specific product and project (or stream) in Dimensions CM. The build configuration name is returned in the following format: "{name};{version}" where {name} is the name of the build configuration and {version} is the version of the configuration. For example: "ANT_JAVA_BUILD;1"

Method: getCmBuildConfigurations

Description

Returns a list of all available build configurations for a specific product and project (or stream) in Dimensions CM. The build configuration name is returned in the following format: "{name};{version}" where {name} is the name of the build configuration and {version} is the version of the configuration. For example: "ANT_JAVA_BUILD;1"

Action

http://{host}:{port}/DevManager/services/rest/getCmBuildConfigurations?product={product}&project={project/stream}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
project	project/stream	1..1	Dimensions CM project name.
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	Password for Dimensions CM login.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM build configurations.

Getcbuildareas Web Service

Description

Returns a list of all available build areas for a specific product, project or stream, and build configuration in Dimensions CM.

Type

REST

Remarks

The REST services resides on the Dimensions CM Server.

See Also

Methods

Methods: Getcmbuildareas

Methods

Name	Description
getCmBuildAreas	Returns a list of all available build areas for a specific product, project or stream, and build configuration in Dimensions CM.

Method: getCmBuildAreas

Description

Returns a list of all available build areas for a specific product, project or stream, and build configuration in Dimensions CM.

Action

http://{host}:{port}/DevManager/services/rest/getCmBuildAreas?product={product}&project={project/stream}&buildConfiguration={buildConfiguration}&username={username}&password={password}&server={server}&dbName={dbName}&dbConnection={dbConnection}&designMode={true/false}

Style

HTTP GET

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
ALL		1..1	
host		1..1	Server where the services are hosted.
port		1..1	Port where the services are hosted.
product	product	1..1	Dimensions CM product name.
project	project/stream	1..1	Dimensions CM project name.
buildConfiguration	buildConfiguration	1..1	The name of the build configuration in Dimensions CM. Define this in the following format: String "{name};{version}" (this is the same format that is returned by the getCmbuildConfigurations REST service).
username	username	1..1	Username for Dimensions CM login.
password	password	1..1	User password for Dimensions CM login.
server	server	1..1	Dimensions CM server name.
dbName	dbName	1..1	Dimensions CM database name.
dbConnection	dbConnection	1..1	Dimensions CM database connection.
designMode	true/false	1..1	Service returns sample data if enabled without connection.

Output (XML)

Dimensions CM build areas.