Serena Development Manager Web Services Reference

Table of Contents

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 Dimesions 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 | Complex Types

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.
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.

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 of type
tns:getDimensionsCMCredentials having the structure defined by the following table.

Element	Type	Occurs	Nillable?	Description
⸬ SEQUENCE		1..1		
tns:SBMConnection	tns:sbmConnection	0..1	No	Server, port, user, and password for SBM login.
tns:auxItemID	xsd:string	0..1	No	SBM item ID.
tns:hostFieldName	xsd:string	0..1	No	Database field name the field that stores the Dimensions CM Host name.
tns:dbNameFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM database name.
tns:dbConnectionFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM database connection.
tns:usernameFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM username.
tns:passwordFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM password.

Output (Literal)

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

Element	Type	Occurs	Nillable?	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: 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 of type tns:updateCMRequest having the structure defined by the following table.

Element	Type	Occurs	Nillable?	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 of type tns:updateCMRequestResponse having the structure defined by the following table.

Element	Type	Occurs	Nillable?	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 of type tns:updateFromCMRequest having the structure defined by the following table.

Element	Type	Occurs	Nillable?	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 of type tns:updateFromCMRequestResponse having the structure defined by the following table.

Element	Type	Occurs	Nillable?	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.

Complex Types: DevManagerServicesService

Complex Types

Name
tns:cmConnection
tns:DevManagerFault
tns:field
tns:getDimensionsCMCredentials
tns:getDimensionsCMCredentialsResponse
tns:mapping
tns:mappings
tns:sbmConnection
tns:updateCMRequest
tns:updateCMRequestResponse
tns:updateFromCMRequest
tns:updateFromCMRequestResponse
tns:value

Complex Type: tns:cmConnection

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⊟ SEQUENCE		1..1		
tns:dbConnection	xsd:string	0..1	No	
tns:dbName	xsd:string	0..1	No	
tns:password	xsd:string	0..1	No	
tns:server	xsd:string	0..1	No	
tns:username	xsd:string	0..1	No	

Complex Type: tns:DevManagerFault

Derived By

Restricting xsd:anyType

Complex Type: tns:field

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⸬ SEQUENCE		1..1		
tns:CMProperty	xsd:string	0..1	No	
tns:fieldNumber	xsd:int	1..1	No	
tns:SBMProperty	xsd:string	0..1	No	
tns:value	xsd:string	0..1	No	
tns:values	tns:value	0..*	Yes	

Complex Type: tns:getDimensionsCMCredentials

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⁝ SEQUENCE		1..1		
tns:SBMConnection	tns:sbmConnection	0..1	No	Server, port, user, and password for SBM login.
tns:auxItemID	xsd:string	0..1	No	SBM item ID.
tns:hostFieldName	xsd:string	0..1	No	Database field name the field that stores the Dimensions CM Host name.
tns:dbNameFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM database name.
tns:dbConnectionFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM database connection.
tns:usernameFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM username.
tns:passwordFieldName	xsd:string	0..1	No	Database field name of the field that stores the Dimensions CM password.

Complex Type: tns:getDimensionsCMCredentialsResponse

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

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

Complex Type: tns:mapping

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⸬ SEQUENCE		1..1		
tns:CMConnection	tns:cmConnection	0..1	No	
tns:CMLinkField	xsd:string	0..1	No	
tns:mappings	tns:mappings	0..1	No	
tns:SBMConnection	tns:sbmConnection	0..1	No	
tns:SBMLinkAttribute	xsd:string	0..1	No	
tns:SBMProject	xsd:string	0..1	No	

Complex Type: tns:mappings

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⸬ SEQUENCE		1..1		
tns:fields	tns:field	0..*	Yes	

Complex Type: tns:sbmConnection

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⯐ SEQUENCE		1..1		
tns:sbmPassword	xsd:string	0..1	No	
tns:sbmPort	xsd:string	0..1	No	
tns:sbmServer	xsd:string	0..1	No	
tns:sbmUser	xsd:string	0..1	No	

Complex Type: tns:updateCMRequest

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	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.

Complex Type: tns:updateCMRequestResponse

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

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

Complex Type: tns:updateFromCMRequest

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	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.

Complex Type: tns:updateFromCMRequestResponse

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

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

Complex Type: tns:value

Derived By

Restricting xsd:anyType

Content Model

Contains elements as defined in the following table.

Component	Type	Occurs	Nillable?	Description
⠿ SEQUENCE		1..1		
tns:CM	xsd:string	0..1	No	
tns:SBM	xsd:string	0..1	No	

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={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.
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 product IDs.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

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={tru
e/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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

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	Post 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 dabase 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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

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={tru
e/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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

Getcmbuildconfigurations 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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.

Getcmbuildareas 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.

Remarks

All arguments are text strings, with the exception of designMode, which is boolean.