Developer Guide

Novell. Teaming

2.0

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Contents

	Abou	ut This	Manual	7
1	Web	Service	es Overview	9
	1.1	1.1 Teaming Web Services Terminology		ç
	1.2		ervices Implementation	
	•	1.2.1	Sample Clients	
	1.3		ication	
		1.3.1	HTTP Basic Authentication Access (ssr)	
		1.3.2	Web Services Security Access (ssf)	
	1.4	Server E	Endpoints	
	1.5	Categor	ries of Operations	13
	1.6	Client S	itubs	14
	1.7	Managir	ng Data	15
		1.7.1	Working with Java Objects	
		1.7.2	Adding Folders and the Binder Configuration Identifier	
		1.7.3	Attaching Files	17
		1.7.4	Fetching Attachments	
		1.7.5	Adding Calendar Entries	
	4.0	1.7.6	Binder Pages and search_getWorkspaceTreeAsXML	
	1.8	Extendir	ng Teaming Web Services	20
Α	Web	Service	e Operations	21
	admin	_destroy	/ApplicationScopedToken	24
			licationScopedToken	
	binder	addBin	der	26
		_	nder	
		,	Binder	
		_	Гад	
		_	der	
			derByPathName	
			Versions	
			ders	
			scription	
			S	
			mMembers	
			inder	
		_	ree	
		_	Binder	
			inder	
		_		
		_	eFile	
		_	initions	
		_	ctionMembership	
		_	ctionMembershipInherited	
		_	ner	
		_	scription	
	hindei	r setTag		47

binder_setTeamMembers	. 48
binder_uploadFile	. 49
definition_getDefinitionAsXML	. 50
definition_getDefinitionByName	. 51
definition_getDefinitions	. 52
definition_getLocalDefinitionByName	. 53
definition_getLocalDefinitions	. 54
folder_addEntry	. 55
folder_addEntryWorkflow	. 56
folder_addMicroBlog	
folder_addReply	
folder_copyEntry	. 59
folder_deleteEntry	
folder_deleteEntryTag	
folder_deleteEntryWorkflow	
folder_getEntries	
folder_getEntry	
folder_getEntryByFileName	
folder_getEntryTags	
folder_getFileVersions	
folder_getSubscription	
folder_modifyEntry	
folder_modifyWorkflowState	
folder_moveEntry	
folder removeFile	
folder_reserveEntry	
folder_setEntryTag	
folder_setRating	
folder_setSubscription	
folder_setWorkflowResponse	
folder_synchronizeMirroredFolder	
folder_unreserveEntry	
folder_uploadFilefolder uploadFile	
folder_uploadFileStagedfolder_uploadFileStaged	
ical_uploadCalendarEntriesWithXML	
Idap synchAll	
ldap_synchUser	
license getExternalUsers	
license getRegisteredUsers	
license_updateLicense	
migration addBinder	
migration_addBinderWithXML	
migration_addEntryWorkflow	
migration_addFolderEntry	
migration_addFolderEntryWithXML	
migration_addFolderEntryWithXML	
· - · · ·	
migration_addReplyWithXML	
migration_uploadFolderFile	
migration_uploadFolderFileStaged	
profile_addGroupMomber	
profile_addGroupMember	
profile_addUser	105

	profile_addUserWorkspace	106
	profile_deletePrincipal	107
	profile_getFileVersions	108
	profile_getGroup	109
	profile_getGroupByName	110
	profile_getGroupMembers	111
	profile_getPrincipals	
	profile_getUser	113
	profile_getUserByName	114
	profile_getUsers	
	profile_getUserTeams	116
	profile_modifyGroup	
	profile_modifyUser	
	profile_removeFile	
	profile_removeGroupMember	
	profile_uploadFile	
	search_getFolderEntries	
	search_getHotContent	
	search_getTeams	
	search_getWorkspaceTreeAsXML	
	search_search	
	template_addBinder	
	template_getTemplates	
	zone_addZone	
	zone_deleteZone	
	zone_modifyZone	132
	- ·	
В	zone_modifyZone Deprecated Web Service Operations	132 133
В	- ·	133
В	Deprecated Web Service Operations	133 135
В	Deprecated Web Service Operations addFolder	133 135 136
В	Deprecated Web Service Operations addFolder	133 135 136 138
В	Deprecated Web Service Operations addFolder	133 135 136 138 140
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace	133 135 136 138 140 141
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML	133 135 136 138 140 141
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML	133 135 136 138 140 141 142 143
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML	133 135 136 140 141 142 143
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML	133 135 136 138 140 141 142 143 144
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML	133 135 136 140 141 142 143 144 145
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getPrincipalAsXML getPrincipalAsXML	133 135 136 140 141 143 144 145 147
В	Deprecated Web Service Operations addFolder addFolderEntry addReply. addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntriesAsXML getFolderEntryAsXML getPrincipalAsXML getPrincipalAsXML getTeamMembersAsXML	133 135 136 138 140 141 142 145 146 147 148 149
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntriesAsXML getFolderEntryAsXML getFrincipalAsXML getFreamMembersAsXML getTeamMembersAsXML	133 135 136 138 140 141 142 145 146 147 148 149 150
В	Deprecated Web Service Operations addFolder addFolderEntry addReply. addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML. getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getFrincipalAsXML getFreamMembersAsXML getTeamMembersAsXML getTeamSersAsXML getTeamSersAsXML getWorkspaceTreeAsXML indexFolder	133 . 135 . 136 . 138 . 140 . 141 . 142 . 143 . 144 . 145 . 148 . 150 . 150
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntriesAsXML getFolderEntryAsXML getFrincipalAsXML getPrincipalAsXML getPrincipalAsXML getTeamMembersAsXML getTeamMembersAsXML getTeamSeparate getWorkspaceTreeAsXML indexFolder migrateBinder	133 135 136 140 141 145 145 146 147 148 150 152 153
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getPrincipalAsXML getPrincipalAsXML getPreamMembersAsXML getTeamMembersAsXML getTeamSasXML getTeamSasXML getWorkspaceTreeAsXML indexFolder migrateBinder migrateEntryWorkflow	133 135 136 138 140 141 145 145 148 149 152 153 155
В	Deprecated Web Service Operations addFolder addFolderEntry addReply. addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getPrincipalAsXML getPrincipalAsXML getTeamMembersAsXML getTeamMembersAsXML getTeamSasXML getWorkspaceTreeAsXML indexFolder migrateBinder migrateEntryWorkflow migrateFolderEntry migrateFolderEntry	133 . 135 . 136 . 138 . 140 . 141 . 142 . 145 . 146 . 147 . 148 . 150 . 153 . 153
В	Deprecated Web Service Operations addFolder addFolderEntry addReply. addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getFolderEntryAsXML getPrincipalAsXML getPramMembersAsXML getTeamMembersAsXML getTeamSetAsXML getTeamSetAsXML getWorkspaceTreeAsXML indexFolder migrateBinder migrateEntryWorkflow migrateFolderEntry migrateFolderEntry migrateFolderFile	133 135 136 138 140 141 145 146 147 148 150 155 157 159
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getFrincipalAsXML getPrincipalAsXML getPramMembersAsXML getTeamMembersAsXML getTeamSetAsXML getTeamSetAsXML getWorkspaceTreeAsXML indexFolder migrateBinder migrateEntryWorkflow migrateFolderEntry migrateFolderFile migrateFolderFile migrateFolderFileStaged.	133 . 135 . 136 . 138 . 140 . 141 . 145 . 145 . 146 . 150 . 150 . 157 . 159 . 161
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getPolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getFrincipalAsXML getPrincipalAsXML getTeamMembersAsXML getTeamMembersAsXML getTeamSersAsXML getWorkspaceTreeAsXML indexFolder migrateBinder migrateEntryWorkflow migrateFolderEntry migrateFolderFile migrateFolderFile migrateFolderFileStaged migrateReply	133 . 135 . 136 . 138 . 140 . 141 . 145 . 145 . 146 . 150 . 150 . 155 . 157 . 159 . 161 . 163
В	Deprecated Web Service Operations addFolder addFolderEntry addReply addUserWorkspace getAllPrincipalsAsXML getDefinitionAsXML getDefinitionConfigAsXML getDefinitionListAsXML getFolderEntriesAsXML getFolderEntryAsXML getFolderEntryAsXML getFrincipalAsXML getPrincipalAsXML getPramMembersAsXML getTeamMembersAsXML getTeamSetAsXML getTeamSetAsXML getWorkspaceTreeAsXML indexFolder migrateBinder migrateEntryWorkflow migrateFolderEntry migrateFolderFile migrateFolderFile migrateFolderFileStaged.	133 135 136 140 141 145 146 145 152 153 155 157 163 165

setFunctionMembership	. 167
setFunctionMembershipInherited	. 169
setOwner	. 170
setTeamMembers	. 171
synchronizeMirroredFolder	. 172
uploadCalendarEntries	. 173
uploadFolderFile	. 174

About This Manual

The *Novell Teaming 2.0 Developer Guide* present ways to extend the functionality of Teaming 2.0. The guide is divided into the following sections:

- Chapter 1, "Web Services Overview," on page 9
- Appendix A, "Web Service Operations," on page 21
- Appendix B, "Deprecated Web Service Operations," on page 133

Audience

This guide is intended for programmers who want to write extensions for Teaming 2.0.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *Novell Teaming 2.0 Developer Guide* and other documentation, visit the Novell Teaming 2.0 Documentation Web site (http://www.novell.com/documentation/teaming2).

Additional Documentation

You can find more information in the Novell Teaming documentation, which is accessible from links within Novell Teaming:

- Novell Teaming Help system
- Novell Teaming Quick Start
- Novell Teaming User Guide
- Novell Teaming Advanced User Guide
- Novell Teaming Installation Guide
- Novell Teaming Administration Guide

To access the Novell Teaming Help system, log in to the Teaming site, then click the *Help* icon (question mark), then click a yellow Help spot for context-sensitive help.

To access the Novell Teaming guides from within Teaming, click the *Help* icon (question mark), then click *Teaming Manuals*.

Documentation Conventions

A greater-than symbol (>) is used to separate actions within a step and items in a cross-reference path.

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When a single pathname can be written with a backslash for some platforms or a forward slash for other platforms, the pathname is presented with a backslash. Users of platforms that require a forward slash, such as Linux* or UNIX*, should use forward slashes as required by your software.

Web Services Overview

1

Novell[®] offers a set of operations that you can use in client programs to exchange information with a server that is running an installation of Novell Teaming 2.0 or later.

In addition to the overview information in this chapter, see Appendix A, "Web Service Operations," on page 21, for reference information about the latest operations for the new interface. For reference information about earlier Web Services operations that have been superseded by the current release, see Appendix B, "Deprecated Web Service Operations," on page 133.

- Section 1.1, "Teaming Web Services Terminology," on page 9
- Section 1.2, "Web Services Implementation," on page 10
- Section 1.3, "Authentication," on page 12
- Section 1.4, "Server Endpoints," on page 13
- Section 1.5, "Categories of Operations," on page 13
- Section 1.6, "Client Stubs," on page 14
- Section 1.7, "Managing Data," on page 15
- Section 1.8, "Extending Teaming Web Services," on page 20

1.1 Teaming Web Services Terminology

The following are Novell Teaming definitions that can assist you when using the Teaming Web services:

- binder: A place such as a workspace or folder.
- binder configuration ID: A number that identifies the template used to create and configure a new workplace or folder. This number represents a set of information that Teaming uses to establish configuration settings, such as the default view, allowable views, allowable workflow, and workflow associations.
- binder ID: A unique number that identifies a specific workspace or folder.
- data item name: A tag value that maps an HTML form element to a value stored in the Teaming database.
- **definition ID:** A unique 32-character hexadecimal identifier that maps to a definition for a specific type of entry. (You modify and create definitions by using the designers in the administration portlet.) You need to specify this value when creating a new entry in a folder.
- page: A level in the workspace hierarchy that represents a subset of binders. Most often used to
 group personal workspaces into sets that are convenient for display in the user interface (UI).
 Section 1.7.6, "Binder Pages and search_getWorkspaceTreeAsXML," on page 18 provides
 additional information about this hierarchical level.
- principal: A registered user or a group.
- principal ID: A unique number that identifies a specific user or group.
- **stub:** A proxy on the client. The stub code performs SOAP calls to the server.

1.2 Web Services Implementation

• Section 1.2.1, "Sample Clients," on page 10

Teaming implements Java Web services, which provide a set of operations that client programs can use to exchange information with Teaming. The alphabetized reference section in this documentation provides syntax for these operations (Appendix B, "Deprecated Web Service Operations," on page 133).

You can view a list of available operations online:

```
http://localhost:8080/ssf/ws
```

The latest operations are listed under the *TeamingServiceV1* header, and the deprecated operations are listed under the *Facade* header.

You can also access the Teaming Web Services Description Language (WSDL) file:

```
http://localhost:8080/ssf/ws/TeamingServiceV1?wsdl
```

In the previous two examples, replace the localhost specification with the host and port for your Teaming installation.

NOTE: Teaming does not currently publish its WSDL file with Universal Description, Discovery, and Integration (UDDI) or the Web Services Inspection Language (WSIL). Use the alphabetized reference section in this manual (Appendix A, "Web Service Operations," on page 21) or the URL-generated WSDL file to understand the Teaming operation interface. For reference information about earlier Web Services operations that have been superseded by the current release, see Appendix B, "Deprecated Web Service Operations," on page 133.

When you make calls to Teaming Web services, there are two ways that you can implement lower-level Simple Object Access Protocol (SOAP) calls:

- Unzip client-side routines on the system running your application. These routines are Java classes and other files that produce a stub. Your application can use an interface with these stub routines, which make the SOAP calls to and from the server. See Section 1.6, "Client Stubs," on page 14, for more information about implementing these client-side routines on your application's system.
- Have your application perform the SOAP calls by using, for example, routines from the Apache Axis toolkit.

Teaming Web services accepts and provides data by using Java objects and methods defined in the Teaming source code. (Visit the Open Source Community page (http://www.kablink.org) for more information about downloading the source code.) Although this section provides tips for locating object and method definitions, you might want to apply a tool such as Javadoc to the sources, so that you have reference pages to assist you in working with the Teaming objects and methods.

The primary method of learning to use Teaming Web services is by reviewing sample clients and their source code, which are provided in the Teaming sources.

1.2.1 Sample Clients

Teaming provides sample clients in its product code base that can assist you in learning how to use its Web services. The sample clients are located within the source code:

/ssf/samples/wsclient

The following sample clients are provided. The are listed in the order of how helpful they are in learning how to make Web service calls:

- teamingservice-client-with-stub.bat (Teaming 2.0+): Uses client-side routines to implement a Windows batch file for simple operations, this is the recommended method. Using this batch file requires the installation of the client-side routines.
- teamingservice-client-with-call.bat (Teaming 2.0+): Uses the Axis Call object when making Web service calls, as a way to implement a Windows batch file for simple operations.
- facade-client.bat (V1+): Uses the deprecated Web services interface.
- wsExport.bat and wsImport.bat (Teaming 2.0+): Takes data from a portion of the workspace and folder hierarchy and reproduces it on another file system. These tools are not a complete import and export facility, because they do not retain the workflow states, access-control settings, and history of the original objects.

You can find the source files for the sample clients here:

/ssf/samples/wsclient/src/org/kablink/teaming/samples/wsclient

The TeamingServiceClientWithCall.java file extends the WSClientBase.java file, which is also located in the /ssf/samples/wsclient/src/org/kablink/teaming/samples/wsclient directory.

Enabling the .bat clients (Windows systems only)

Before executing the sample .bat programs on a Windows system, you need to do some work in your build to enable them.

1 Execute the build Ant target in /ssf/samples/wsclient/build.xml by entering ant from the command line.

To use one of the batch files:

- 1 Use a command line window to cd to the /ssf/samples/wsclient directory.
- 2 Type the filename for the batch file you want to execute.

 To see a list of legal commands and arguments for one of the t
 - To see a list of legal commands and arguments for one of the teamingservice or facade batch files, type only the filename of the batch file, then press the Return key.
- **3** On the same line, just after the name of the batch file, type a command name and desired arguments.
- **4** Press the Return key.

If the command executes successfully, Teaming displays the return value in the command line window.

1.3 Authentication

Before determining how to connect your client application to the server, it is important to decide on the authentication method that you want to use. Teaming and its Web services support three types of authentication:

- Section 1.3.1, "HTTP Basic Authentication Access (ssr)," on page 12
- Section 1.3.2, "Web Services Security Access (ssf)," on page 12

1.3.1 HTTP Basic Authentication Access (ssr)

For basic authentication, use calls from your client application to pass a username and password as you establish an HTTP session. Then, perform SOAP calls or calls using the client-side routines. If you want to use basic authentication, you muse use the /ssr/secure/ws endpoint when connecting to the server.

HTTP Basic Authentication is the existing transport authentication to authenticate the Web services client. HTTP Basic Authentication uses a username and password to authenticate a service client to a secure endpoint. To use this authentication mechanism, use /ssr/secure/ws endpoint. To enable this service on the Teaming side, select the *Enable Basic Authentication (recommended)* check box during product installation.

See Section 1.4, "Server Endpoints," on page 13, for more information about connecting to the server.

1.3.2 Web Services Security Access (ssf)

For WSS authentication, you need to place the authentication information (username and password) in the SOAP calls. If you want to use this method of authentication, use the /ssf/ws endpoint to connect to the server.

Web Services Security (WSS) is a standard protocol from Oasis* that provides a means for applying security to Web services. Unlike security mechanisms that rely on the use of transport layer services, WSS provides authentication at the message layer by using a SOAP header. To use this authentication mechanism, use /ssf/ws endpoint. The deprecated Web services operation is accessed only through this mechanism. This service is enabled on the Teaming side by selecting the Enable WSS Authentication (recommended) check box during product installation.

If you choose to use WSS authentication instead of HTTP basic authentication:

- Use the teamingservices-client-with-call.bat client and its sources to see an example of this type of authentication.
- You must use the /ssf/ws endpoint (see Section 1.4, "Server Endpoints," on page 13, for more information).
- You must use password-text methods.
 Password-digest is still supported in Teaming 2.0 and earlier but support is dropped with Teaming 2.1. We strongly recommended that you use only the password-text method.

On the client side of the Web services transaction, the client code uses password-text to provide a username and password to the Web services framework, and the framework passes the password as plain text.

On the server side, the security framework allows Teaming to retrieve the clear-text password from the operation by using an application programming interface (API) call. Teaming applies its internal password encryptor and compares the result with the password stored in the database for the user when the password is retrieved.

Although it is easy to code, this method is not secure, because the password is transmitted in plain text. Systems requiring a higher level of security should connect to Teaming over SSL.

To use this service with the teamingservice-client-with-call.bat, edit the script and set the value of the -Dauthmethod switch to wss text.

See Section 1.4, "Server Endpoints," on page 13, for more information about connecting to the server.

1.4 Server Endpoints

An endpoint is the URL that you use to connect your client application to the Teaming server. Depending on the authentication method you want to use and other factors, you must choose one of the following four endpoints to specify in your client application:

- /ssf/ws/TeamingServiceV1: Use this endpoint if you want to use WSS authentication with the latest Web services operations. See Section 1.3, "Authentication," on page 12.
- /ssf/ws/Facade: Use this endpoint if you want to use the deprecated Web services operation. This endpoint requires WSS authentication.
- /ssr/secure/ws/TeamingServiceV1: Use this endpoint only if you are using HTTP Basic Authentication with the latest Web services operations.
- /ssr/token/ws/TeamingServiceV1: Use this endpoint when you are making a Web services call as a remote application.
- /ssr/ws/TeamingServiceV1: Use this endpoint when you want to access Teaming as an anonymous user (not specifying any username or password).

1.5 Categories of Operations

To assist you in locating the operation you need to perform, the name of each operation is prefaced with its category name. For example, one category is called folder, and one operation within that category is folder getEntry.

The following categories of Web services operations are available:

- **binder:** Operations that are specific to workspaces, common to workspaces and folders, or that are to be applied to the workspace tree beginning at a specific node in the tree.
- **definition:** Operations for obtaining and using definitions. Definitions are created by using the designers within the Teaming UI.
- **folder:** Operations that affect only folders and their contents (entries and comments).
- ical: The operation that adds a calendar entry.
- Idap: Operations that work with LDAP data.
- license: Operations used for license compliance.

- migration: Operations that assist migration from the SiteScape Forum[®] product to Teaming. See "Migrating from SiteScape Forum or Other Collaboration Software" in "Update" in the *Novell Teaming 2.0 Installation Guide*.
- profile: Operations affecting users and groups.
- search: Operations that assist in locating information based on criteria other than the defined type.
- template: Operations that create workspaces and folders, or that get lists of available templates. (To create a completely configured folder, use template_addBinder and not binder addBinder.)
- zone: Operations that work with different Teaming starting points within the same installation. Each starting point contains its own unique workspace hierarchy.

1.6 Client Stubs

A stub is a proxy on the client. The stub code performs SOAP calls to the server. Teaming provides pre-generated Java stub classes that are included in the Kablink Teaming Web Services Java client library. To obtain the Kablink Teaming Web Services Java client library, see Section 1.7.1, "Working with Java Objects," on page 15.

The following example is the <code>deleteFolderEntry</code> method defined in the sample Java class <code>TeamingServiceClientWithStub.java</code> file. The <code>TeamingServiceClientWithStub.java</code> file makes SOAP calls to Teaming through the use of the pre-generated Java stub classes mentioned above. This method uses the folder_deleteEntry Web services operation to delete an entry from Teaming. This code assumes that your client is running on the same machine that is running the Teaming server (localhost). It uses the Basic Authentication mechanism for authentication.

Consider the following code:

```
private static final String TEAMING_SERVICE_ADDRESS_BASIC = "http://
localhost:8080/ssr/secure/ws/TeamingServiceV1";

private static final String USERNAME = "admin";
private static final String PASSWORD = "test";

.
.
.
.
.
public static void deleteFolderEntry(long entryId) throws Exception {
    TeamingServiceSoapServiceLocator locator = new
TeamingServiceSoapServiceLocator();
    locator.setTeamingServiceEndpointAddress(TEAMING_SERVICE_ADDRESS_BASIC);
    TeamingServiceSoapBindingStub stub = (TeamingServiceSoapBindingStub)
locator.getTeamingService();
    WebServiceClientUtil.setUserCredentialBasicAuth(stub, USERNAME, PASSWORD);
    stub.folder_deleteEntry(null, entryId);
    System.out.println("ID of the deleted entry: " + entryId);
}
```

1.7 Managing Data

Some operations are less intuitive than others for messages. This section provides additional information for those operations and includes the following subsections:

- Section 1.7.1, "Working with Java Objects," on page 15
- Section 1.7.2, "Adding Folders and the Binder Configuration Identifier," on page 16
- Section 1.7.3, "Attaching Files," on page 17
- Section 1.7.4, "Fetching Attachments," on page 18
- Section 1.7.5, "Adding Calendar Entries," on page 18
- Section 1.7.6, "Binder Pages and search getWorkspaceTreeAsXML," on page 18

1.7.1 Working with Java Objects

The Web services operations often pass and return data within model objects as defined within the Kablink[®] Teaming software. This is beneficial because it cuts down on the amount of code required to prepare, send, receive, and interpret data. For example, parsing XML strings requires more coding. For users who develop Web services client applications in Java, Kablink Teaming provides a client-side library that they can use directly for added convenience. Users who develop Web services client applications in a language other than Java must rely on their own tools for understanding and coding the Kablink Teaming Web interfaces that have been defined and exposed by the corresponding WSDL.

Regardless of the language and tools that are used to develop Web services applications, it is helpful to familiarize yourself with some of the Teaming source code in order to understand the model objects and methods that are used to pass parameters and receive returned data.

To obtain the Kablink Teaming Web Services Java client library, download the Kablink Teaming product distribution tar/zip file, and expand it in a directory. This product distribution tar/zip file contains teaming-2.*.*-wsclient.zip. This file contains:

• The Axis generated Java source and class files for the client side stubs and model classes.

```
kablink-teaming-wsclient.jar
```

• Search utility classes that aid in building search queries.

```
kablink-teaming-util-search.jar
```

• All third-party libraries needed on the client side to run generated stubs.

The kablink-teaming-wsclient.jar file contains the Java source that defines model objects that are passed between the Web services client and the Teaming server as either input arguments to or return values from various Web service operations. These model classes are located in the org/kablink/teaming/client/ws/model Java package. A significant number of the model classes build upon the base class DefinableEntity. The TeamingServiceSoapBindingStub.java class is the main stub class that application programs need to interact with in order to invoke various Web service operations.

To access Java sample programs that use the Kablink Teaming Web Services Java client library, download the Teaming source code from the Open Community Source page (http://www.kablink.org/) and examine the source code and scripts located in the /ssf/samples/wsclient directory. For example, the TeamingServiceClientWithStub.java class in /ssf/

samples/wsclient/src/org/kablink/teaming/samples/wsclient demonstrates how to use the supplied stub and model classes to invoke Teaming Web services operations with minimum coding effort.

The kablink-teaming-wsclient.jar is also found with in the source tree in the /ssf/ws-client directory. To implement a client-side application of your own, all of the necessary libraries must be defined as being in your class path. When the sample program is run in /ssf/samples/wsclient, the accompanying build.xml Ant build script performs this function for you. It can be viewed as a template.

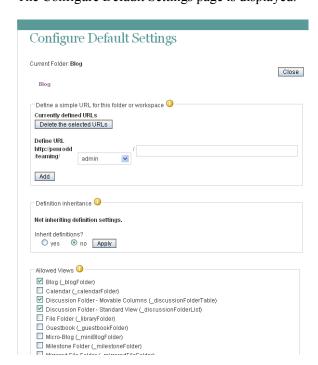
The names of the Web services operations use categories to organize the operations so they are easier for you to locate and understand. In general, the categories describe an item within Teaming that is the focus of the operation, such as folder, entry, binder, or attachments.

1.7.2 Adding Folders and the Binder Configuration Identifier

When you add a fully configured folder (template_addBinder (page 128)), you need to specify a binder configuration identifier, which identifies the template used to configure a folder of a particular type. For example, the blog-folder template specifies settings used to configure a new blog folder.

To review the blog-folder template:

- **1** Log in to Teaming as the Teaming administrator.
- **2** Click *Manage* > *Site Administration*.
- **3** Click Manage Workspace and Folder Templates.
- **4** In the *Standard Templates* section, click *Blog*.
- 5 Click Manage This Target > Configure.
 The Configure Default Settings page is displayed.



The following configuration settings are available in the template:

- Definition inheritance
- Allowed Views
- Default View
- Default Entry Types
- Workflow Associations
- Allowed Workflows

At the time of this writing, Teaming does not provide a message that you can use to retrieve the binder configuration identifier for a particular type of folder. Use the following procedure to obtain the binder configuration identifier for the folder you want to create:

- 1 View any workspace or folder.
- **2** Click *Manage* > *Add folder*.
- **3** While viewing the *Add new folder* page, use your browser to view the HTML source code for the page.
- **4** Search for the type of folder you want to create (for example, discussion, blog, or calendar).
- **5** In the input HTML tag that creates the radio button for that type of folder, note the name="binderConfigId" and value="nnn" pair of tag elements.

The number specified by the value element is the binder configuration identifier of the folder you want to create.

The following figure shows an example of the binder configuration information for a blog folder, as found in the HTML source for the *Add new folder* page:

Figure 1-1 The Binder Configuration Identifier in Source Code

```
ctr>

ctd valign="top" style="padding-bottom:6px;"><span class="ss_smallprint ss_light">
    A blog folder is a forum where entire entries are displayed in reverse chronolog, based on when they were created. Blogs typically provide information on a particular from an individual or small group of authors. Optionally, the blog folder can be sured so that a larger group can make comments on the entries nosted by the original.
```

1.7.3 Attaching Files

In Novell Teaming, attachments are files that are associated with an entry. An entry can have more than one attached file.

For Web services, an attachment is a file exchanged in conjunction with an operation being passed between the client and server. Teaming recognizes only the first file attachment to an operation being sent to the server and ignores all other attachments.

To attach more than one file to an entry in Teaming, you must use one of the upload operations multiple times. For example, to attach 17 files to an entry in Teaming, you must use folder_uploadFile 17 times. Your client source code establishes where in the file system it finds or places files used as attachments to messages.

The <code>folder_uploadFile</code> operation requires that you pass a data item name. This identifier maps to the value specified in the <code>name</code> attribute of the <code>input</code> HTML tag used to upload the file; this value is also used in a <code>hidden</code> HTML tag that communicates values between the HTML form and the Teaming database.

To upload a file into the standard form element used to contain attachments, specify ss_attachFile1 as the data item name. If you are uploading files into a custom form element, create an instance of that custom entry, use an operation to get the name of the hidden field, then use the name when attaching files to the entry you actually want to affect.

1.7.4 Fetching Attachments

When you use folder_getEntry to obtain information about an entry, you use a Boolean parameter to indicate if you want the entry's attachments. If you specify that you do want the attachments, your client establishes where on its system it places the attached files.

1.7.5 Adding Calendar Entries

When you pass the <code>ical_uploadCalendarEntriesWithXML</code> operation to the server, the Web services framework uses an XML formatted string of iCal data passed as the second parameter to the operation (<code><doc><entry>iCal data</entry></doc>)</code>.

1.7.6 Binder Pages and search_getWorkspaceTreeAsXML

When you use search_getWorkspaceTreeAsXML to obtain information about the hierarchical workspace tree, Novell Teaming returns XML formatted information about nodes in the tree, within the levels of the hierarchy you specify. Each node in the tree is a binder, which is typically a place (a workspace or folder). Sometimes, the XML element returned for a node is called a page.

The following graphic shows the workspace tree, which is expanded to show five levels of the workspace hierarchy:

Figure 1-2 Workspace Hierarchy Levels as Seen in the UI



In the graphic, each of the workspaces and folders are nodes in the workspace tree. The Workspaces workspace is the only binder at level 1. Level 2 binders include Global workspaces, Personal workspaces, and Team workspaces. The only binder shown at level 3 is the Corporate web site binder. Level 4 binders include folders and the December 2008 redesign workspace. The Calendar binder is located at level 5. If a binder has a plus sign next to it (for example, both the Global workspaces and Personal workspaces binders are preceded by plus signs), it means that there are hierarchy levels of binders that are not displayed in the UI.

If you use search_getWorkspaceTreeAsXML to get one level of the tree starting at the Workspaces node, Teaming returns information about Global workspaces, Personal workspaces, and Team workspaces.

As mentioned, some nodes in the tree are pages:

Figure 1-3 Pages as They Appear in the UI



The /ssf/web/docroot/WEB-INF/classes/config/ssf.properties file contains a property called wsTree.maxBucketSize, which, by default, is set to 25. This means that the maximum number of sub-workspaces allowed is 25. If a folder or workspace has more subplaces, Teaming creates virtual buckets called pages. Each line in Figure 1-3 corresponds to a page. The Personal workspaces workspace has two pages.

When you use search_getWorkspaceTreeAsXML to retrieve information about nodes in the workspace tree, it can return more than one hierarchical level as you specify, unless it encounters a page. To expand the tree beyond a page, you must call search_getWorkspaceTreeAsXML again, pass the binder identifier of the page, and pass the number of levels beyond the page you want to retrieve.

Consider the following:

Figure 1-4 A Page Containing Sub-Workspaces



The wong//zeeman page contains workspaces. The workspaces listed (Wong, Charles (cwong), and Zeeman, Skip szeeman)) are one level beyond the page.

When you receive page information as a node in the workspace tree, you receive page and tuple attributes. For example, page="2" and pageTuple="charles_wong (cwong) //skip_zeeman (szeeman)". To obtain information about the contents of this page, you need to specify the identifier of the page's parent, the number of hierarchy levels you want expanded, and a concatenation of the page number and tuple values, as shown in this example:

```
search getWorkspaceTreeAsXML 24 3 "2//charles wong//skip zeeman"
```

This code begins at binder number 24, accesses page number 2, and returns two hierarchical levels of data for all users between Charles Wong and Skip Zeeman.

Given the structure of the Teaming pages and how Web services returns tree data, it is easiest to retrieve page data in this way. However, if you choose, you can actually retrieve paged tree data regardless of page number. To do this, specify any page number (Teaming actually ignores it), and specify a tuple in the correct order in which it appears in the tree, even if the set of users crosses pages. Teaming returns hierarchical information for all users in between the tuple values. However, if the number of returned nodes exceeds the value specified in the wsTree.maxBucketSize property (by default, 25 users), Teaming pages the data.

Finally, if you want to see all tree information without any page specifications, specify -1 as the value of the hierarchy levels you want returned.

1.8 Extending Teaming Web Services

Because Kablink Teaming is open source software, you have the source code that implements our Web services, and you can extend it. However, we invite you to operate within the spirit of an open source community by participating in the Kablink Teaming online community (http://www.kablink.org), sharing your code with others, and working with the Novell engineers to incorporate your Web services extensions into the base product. In this way, you make the product and community stronger, and you avoid doing work that might need to be redone in future versions of Kablink Teaming because of engineering changes.

Of course, whether you participate in the community or upgrade to future versions of the software is up to you. Regardless of your decision, Kablink Teaming includes an example that provides a structure that enables users of all versions of our software to be able to extend our Web services in the most optimal way, minimizing work that you might need to do to maintain the extensions for every upgrade.

Kablink Teaming includes an extended Web services example, which adds the folder_getFolderTitle operation to the base Teaming web services, and also adds the getFolderTitle command to the teamingservice-client-with-call.bat sample client. The source code for the extension is located in this directory and in its subdirectories:

/ssf/samples/extendedws

This directory contains the readme.txt file, which provides simple directions for establishing the extension.

Web Service Operations



This section provides alphabetized reference pages for the Web services operations of Novell® Teaming 2.0 and later.

NOTE: All examples in this reference section use the Novell Teaming client library. See Section 1.6, "Client Stubs," on page 14, for more information about the client library and other ways to call Teaming Web services operations.

- "admin destroyApplicationScopedToken" on page 24
- "admin_getApplicationScopedToken" on page 25
- "binder_addBinder" on page 26
- "binder_copyBinder" on page 27
- "binder_deleteBinder" on page 28
- "binder deleteTag" on page 29
- "binder getBinder" on page 30
- "binder getBinderByPathName" on page 31
- "binder_getFileVersions" on page 32
- "binder getFolders" on page 33
- "binder_getSubscription" on page 34
- "binder_getTags" on page 35
- "binder_getTeamMembers" on page 36
- "binder_indexBinder" on page 37
- "binder_indexTree" on page 38
- "binder modifyBinder" on page 39
- "binder_moveBinder" on page 40
- "binder removeFile" on page 41
- "binder setDefinitions" on page 42
- "binder_setFunctionMembership" on page 43
- "binder_setFunctionMembershipInherited" on page 44
- "binder setOwner" on page 45
- "binder_setSubscription" on page 46
- "binder_setTag" on page 47
- "binder setTeamMembers" on page 48
- "binder uploadFile" on page 49
- "definition_getDefinitionAsXML" on page 50
- "definition getDefinitionByName" on page 51
- "definition getDefinitions" on page 52

- "definition_getLocalDefinitionByName" on page 53
- "definition getLocalDefinitions" on page 54
- "folder_addEntry" on page 55
- "folder_addEntryWorkflow" on page 56
- "folder_addMicroBlog" on page 57
- "folder_addReply" on page 58
- "folder_copyEntry" on page 59
- "folder_deleteEntry" on page 60
- "folder_deleteEntryTag" on page 61
- "folder deleteEntryWorkflow" on page 62
- "folder_getEntries" on page 63
- "folder_getEntry" on page 64
- "folder_getEntryByFileName" on page 65
- "folder_getEntryTags" on page 66
- "folder_getFileVersions" on page 67
- "folder_getSubscription" on page 68
- "folder modifyEntry" on page 69
- "folder modifyWorkflowState" on page 70
- "folder moveEntry" on page 71
- "folder removeFile" on page 72
- "folder reserveEntry" on page 73
- "folder_setEntryTag" on page 74
- "folder setRating" on page 75
- "folder setSubscription" on page 76
- "folder_setWorkflowResponse" on page 77
- "folder synchronizeMirroredFolder" on page 78
- "folder unreserveEntry" on page 79
- "folder uploadFile" on page 80
- "folder uploadFileStaged" on page 81
- "ical uploadCalendarEntriesWithXML" on page 83
- "ldap synchAll" on page 84
- "ldap synchUser" on page 85
- "license getExternalUsers" on page 86
- "license_getRegisteredUsers" on page 87
- "license updateLicense" on page 88
- "migration_addBinder" on page 89
- "migration_addBinderWithXML" on page 90
- "migration addEntryWorkflow" on page 92

- "migration addFolderEntry" on page 93
- "migration addFolderEntryWithXML" on page 94
- "migration_addReply" on page 96
- "migration_addReplyWithXML" on page 97
- "migration_uploadFolderFile" on page 99
- "migration_uploadFolderFileStaged" on page 101
- "profile addGroup" on page 103
- "profile_addGroupMember" on page 104
- "profile_addUser" on page 105
- "profile addUserWorkspace" on page 106
- "profile_deletePrincipal" on page 107
- "profile_getFileVersions" on page 108
- "profile getGroup" on page 109
- "profile getGroupByName" on page 110
- "profile getGroupMembers" on page 111
- "profile_getPrincipals" on page 112
- "profile getUser" on page 113
- "profile getUserByName" on page 114
- "profile_getUsers" on page 115
- "profile getUserTeams" on page 116
- "profile_modifyGroup" on page 117
- "profile modifyUser" on page 118
- "profile removeFile" on page 119
- "profile removeGroupMember" on page 120
- "profile uploadFile" on page 121
- "search getFolderEntries" on page 122
- "search getHotContent" on page 123
- "search getTeams" on page 124
- "search getWorkspaceTreeAsXML" on page 125
- "search search" on page 126
- "template addBinder" on page 128
- "template getTemplates" on page 129
- "zone addZone" on page 130
- "zone deleteZone" on page 131
- "zone modifyZone" on page 132

admin_destroyApplicationScopedToken

Destroys an application-scoped token.

Syntax

public void admin_destroyApplicationScopedToken(String accessToken, String token);

Description

The admin_destroyApplicationScopedToken operation destroys a previously acquired application scoped token.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

token

The string representation of the previously acquired application-scoped token that you want to destroy.

return_value

None.

admin_getApplicationScopedToken

Requests an application-scoped token on behalf of the user.

Syntax

public String admin_getApplicationScopedToken(String accessToken, long applicationId, long userId);

Description

The admin_getApplicationScopedToken operation requests the system to create and return an application-scoped token on behalf of the user. The token is subsequently utilized by the application.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

applicationId

The identifier of the application set up with the Teaming system.

userId

The identifier of the user on whose behalf you want the token to be created.

return_value

A string representation of the requested token.

binder_addBinder

Adds an unconfigured binder to the workspace tree hierarchy.

Syntax

public long binder_addBinder(String accessToken, Binder binder);

Description

The binder addBinder operation adds either a workspace or folder to the hierarchy.

To add a fully configured binder, use the template_addBinder operation instead.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part implementing a remote application, or the null value.

binder

Data and methods for the Java Binder object, defined in the Teaming source code.

return_value

The identifier of the new binder.

See Also

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- template_addBinder (page 128)

binder_copyBinder

Creates a new binder identical to an existing one.

Syntax

public long binder_copyBinder(String accessToken, long sourceId, long destinationId, boolean cascade);

Description

The binder copyBinder operation copies an existing workspace or folder, and creates a new one.

Teaming automatically copies all non-binder content (entries and comments). As an option, you can replicate the source binder's sub-binders (sub-workspaces or sub-folders).

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

sourceId

The identifier of the binder you want to copy.

destinationId

The binder identifier of the parent for the new workspace or folder.

cascade

A Boolean value indicating whether you want to copy the source binder's sub-binders (sub-workspaces and sub-folders).

return value

The identifier of the new binder.

See Also

 Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_deleteBinder

Deletes a binder.

Syntax

public void binder_deleteBinder(String accessToken, long binderId, boolean deleteMirroredSource):

Description

The binder deleteBinder operation deletes a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier of the workspace or folder you want to delete.

deleteMirroredSource

Deletes the source directory, if the folder being deleted is a mirrored folder.

return value

None.

See Also

 Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_deleteTag

Removes a tag from a binder.

Syntax

public void binder deleteTag(String accessToken, long binderId, String tagId);

Description

The binder deleteTag operation removes a tag from a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the binder that applies the tag you want to remove.

tagId

The tag you want to remove.

return_value

None.

Example

```
public static void checkTags (long binderId) throws Exception { ...
Tag[] tags = setupTags (binderId);
for (inti=0; i<tags.length; ++i) {stub.binder_setTag(null, tags[i]); }
tags = stub.binder_getTags(null, binderId);
validateTags(tags);
stub.binder deleteTag(null, binderId, tags[0].getId());</pre>
```

This code is taken from the source code for the teamingservice-client-with-stub.bat file.

See Also

• Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getBinder

Accepts a binder identifier to get information about a binder.

Syntax

public Binder binder getBinder (String accessToken, long binderId, boolean includeAttachments);

Description

The binder getBinder operation gets information about a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder for which you want information.

includeAttachments

A Boolean value that indicates whether you want Teaming to return attached files.

By default, workspaces do not include attached files. However, users can use the designers to define workspaces that do include attached files.

return_value

A Binder Java object that contains data and methods for the requested binder.

See Also

 Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getBinderByPathName

Accepts a directory specification to get information about a binder.

Syntax

public Binder binder_getBinderByPathName(String accessToken, String pathName, boolean includeAttachments);

Description

The binder_getBinderByPathName operation uses a workspace-hierarchy path name to get information about a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

pathName

The titles of the binder for which you want information, preceded by the titles of all of its parents, separated by slashes:

```
Workspaces / Global workspaces / wsOrfolderTitle / ... / titleTargetWS
```

includeAttachments

A Boolean value that indicates whether you want Teaming to return attached files.

By default, workspaces do not include attached files. However, users can use the designers to define workspaces that do include attached files.

return_value

A Binder Java object that contains data and methods for the requested binder.

See Also

• Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getFileVersions

Returns information about the versions of a file.

Syntax

public void binder getFileVersions(String accessToken, long binderID, String fileName);

Description

The binder_getFileVersion operation retrieves information about the versions of a file associated with a workspace or folder.

By default, workspaces and folders do not contain files, but users can alter definitions by using the designers in the user interface so that a custom workspace or folder can include one or more files.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderID

The binder identifier for the workspace or folder.

filename

The filename of the file you want to retrieve version information about.

return_value

A File Version Java object that contains information about the file versions.

See Also

 Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getFolders

Returns a folder collection for a binder's sub-folders.

Syntax

public FolderCollection binder_getFolders(String accessToken, long binderId, int firstRecord, int maxRecords);

Description

The binder_getFolders operation returns a folder collection, which contains information about the sub-folders of a specified binder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder for which you want information about its subfolders.

firstRecord

The index of the first record whose folder information you want to obtain. The index is 0-based.

maxRecord

The maximum number of folders whose information should be returned. Specify -1 for unlimited.

return value

A FolderCollection Java object containing information about the sub-folders.

See Also

• Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getSubscription

Obtains subscription information about a binder.

Syntax

public Subscription binder getSubscription(String accessToken, long binderId);

Description

The binder_getSubscription operation returns subscription information for a specified binder. When a user subscribes to a binder, that person receives e-mail notifications.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder for which you want subscription information.

return value

A Subscription Java object containing subscription information.

Example

```
public static void checkBinderSubscriptions(long binderId) throws Exception {
    ...
Subscription subscription = setupSubscription(binderId);
stub.binder_setSubscription(null, binderId, subscription);
subscription = stub.binder_getSubscription(null, binderId);
validateSubscription(subscription);
}
```

This code is taken from the source code for the teamingservice-client-with-stub.bat file.

See Also

• Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getTags

Obtains tags applied to a binder.

Syntax

public Tag[] binder_getTags(String accessToken, long binderId);

Description

The binder getTags operation gets tag information for a specified binder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder whose tag information you want.

return_value

An array of Tag Java objects, each containing information about one of the tags applied to the binder.

Example

```
public static void checkTags (long binderId) throws Exception { ...
Tag[] tags = setupTags (binderId);
for (inti=0; i < tags.length; ++i) { stub.binder_setTag (null, tags[i]); }
tags = stub.binder_getTags (null, binderId);
validateTags (tags);
stub.binder deleteTag (null, binderId, tags[0].getId());</pre>
```

This code is taken from the source code for the teamingservice-client-with-stub.bat file.

See Also

 Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_getTeamMembers

Obtains information about the members of a team assigned to a specified binder.

Syntax

public TeamMemberCollection binder getTeamMembers(String accessToken, long binderId);

Description

The binder_getTeamMembers operation obtains information about the members of a team assigned to a specified binder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binder

The binder identifier for the workspace or folder for which you want information about team members.

return_value

A TeamMemberCollection Java object containing information about the members of a team assigned to the specified binder.

See Also

 Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)

binder_indexBinder

Indexes a binder and its content.

Syntax

public void binder indexBinder(String accessToken, long binderId);

Description

The binder_indexBinder operation indexes a workspace or folder (and its contents), optimizing the ability of Teaming to search its contents. This operation does not index sub-binders.

To index sub-binders, use the binder_indexTree operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder that you want to index.

return_value

None.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- binder_indexTree (page 38)

binder_indexTree

Indexes a binder's sub-binders.

Syntax

public Long binder_indexTree(String accessToken, long binderId);

Description

The binder_indexTree operation indexes the specified workspace or folder, all sub-binders, and all content in all those binders.

If you want to index a binder and its contents without indexing sub-binders, use the binder indexBinder operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder that indicates the node where you want to begin indexing within the workspace hierarchy.

return_value

An array of integers, with each integer being the identifier of a binder successfully indexed.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- binder_indexBinder (page 37)

binder_modifyBinder

Modifies a binder.

Syntax

public void binder modifyBinder(String accessToken, Binder binder);

Description

The binder modifyBinder operation modifies a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binder

Data and methods for the Binder Java object, defined in the Teaming source code.

return_value

None.

Example

```
public static Binder modify Binder (Binder binder) throws Exception { ...
binder.setTitle(binder.getTitle() + " (Modified)");
binder.getDescription() .setText(binder.getDescription() .getText() + "
(Modified)"); stub.binder_modify Binder (null, binder);
stub.binder_getBinder (null, binder.getId(), true);
System.out.println("ID of the modified binder: " + binder.getId());
return binder;
}
```

This code is taken from the source code for the teamingservice-client-with-stub.bat file.

See Also

binder_moveBinder

Moves a binder within the workspace tree hierarchy.

Syntax

public void binder moveBinder(String accessToken, long binderId, long newParentBinderId);

Description

The binder_moveBinder operation moves either a workspace or folder within the workspace hierarchy.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder that you want to move.

newParentBinderId

The binder identifier of the binder under which you want binderId to appear as a sub-binder.

return value

None.

See Also

binder_removeFile

Removes a file from a binder.

Syntax

public void binder removeFile(String accessToken, long binderId, String fileName);

Description

The binder removeFile operation removes a file from a workspace or folder.

By default, workspaces do not contain files, but users can alter definitions by using the designers in the UI so that a custom workspace can include one or more files.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder from which you want to remove a file.

fileName

The file name of the file you want to remove from the binder.

return_value

None.

See Also

binder setDefinitions

Associates workflow definitions with entry definitions.

Syntax

public void binder_setDefinitions(String accessToken, long binderId, String[] entryDefinitionIds, String [] workflowDefinitionIds);

Description

The binder_setDefinitions operation associates entries within the specified binder with workflow processes. (Teaming associates identifiers in the first element of both arrays, the second element of both arrays, the third, and so on.)

When an entry is associated with a workflow process, creation of an entry of that type automatically places the entry into the initial state of the workflow process. By default, workspaces do not contain entries that can be associated with workflow processes. However, users can alter definitions by using the designers in the UI so that a custom workspace can include one or more files.

NOTE: This operation is an overwrite operation, setting all workflow associations for the folder; you cannot use repeated calls to this operation to set associations incrementally. Set all of the workflow associations for the folder with one call.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the folder or custom workspace within which you want entries associated with workflow processes.

entryDefinitionIds

An array of definition identifiers for each type of entry to which you want to associate a workflow process.

workflowDefinitionIds

An array of workflow identifiers in the order in which you want them applied to the entry-definition identifiers in <code>entryDefinitionIds</code>.

return_value

None.

See Also

binder_setFunctionMembership

Applies access-control settings to a binder.

Syntax

public void binder_setFunctionMembership(String accessToken, long binderId, FunctionMembership[] functionMemberships);

Description

The binder_setFunctionMembership operation provides access-control settings for a folder or workspace. The term function is analogous to an access-control role in the UI.

NOTE: This operation is an overwrite operation, that sets all function memberships for the folder or workspace; you cannot use repeated calls to this operation to set memberships incrementally. Set all memberships for the workspace or folder with one call.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder whose access control you want to set.

functionMemberships

An array of FunctionMembership Java objects.

return value

None.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- binder_setFunctionMembershipInherited (page 44)

binder_setFunctionMembershipInherited

Establishes inheritance as the access-control mechanism for a folder or workspace.

Syntax

public void binder_setFunctionMembershipInherited(String *accessToken*, long *binderId*, boolean *inherit*);

Description

The binder_setFunctionMembershipInherited establishes whether a specified workspace or folder inherits access-control settings from its parent binder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder for which you want to establish the inheritance setting for access control.

inherit

A true or false value that establishes whether the binder inherits its access-control settings.

return_value

None.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- binder_setFunctionMembership (page 43)

binder_setOwner

Establishes the owner of the binder.

Syntax

public long binder setOwner(String accessToken, long binderId, long userId);

Description

The binder_setOwner operation establishes the specified user as the owner of a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder whose owner you want to establish.

userId

The identifier for the user whom you want to be the owner of the binder.

return value

None.

See Also

binder_setSubscription

Establishes e-mail settings for a binder.

Syntax

public void binder_setSubscription(String accessToken, long binderId, Subscription subscription);

Description

The binder_setSubscription operation establishes subscription settings for a workspace or folder. When a user subscribes to a binder, that person receives e-mail notifications.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder whose subscription you want to set.

subscription

A Subscription Java object containing information used to establish e-mail notification settings for the specified binder.

return_value

None.

See Also

binder_setTag

Applies a tag for a binder.

Syntax

public void binder setTag(String accessToken, Tag tag);

Description

The binder setTag operation applies a tag to a workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

tag

A Tag Java object that contains information applying the tag to a workspace or folder.

return_value

None.

Example

```
public static void checkTags (long binderId) throws Exception { ...
Tag[] tags = setupTags (binderId);
for (inti=0; i<tags.length; ++i) {stub.binder_setTag(null, tags[i]); }
tags = stub.binder_getTags (null, binderId);
validateTags (tags);
stub.binder deleteTag(null, binderId, tags[0].getId());</pre>
```

This code is taken from the source code for the teamingservice-client-with-stub.bat file.

See Also

binder_setTeamMembers

Establishes members of a team for a binder.

Syntax

public void binder setTeamMembers (String accessToken, long binderId, String[] teamMembers);

Description

The binder_setTeamMembers operation establishes members of the team for a specified workspace or folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binder

The binder identifier for the workspace or folder for which you want to establish team membership.

return_value

None.

teamMembers

Names of the team members.

See Also

binder_uploadFile

Uploads a file into a binder.

Syntax

public void binder_uploadFile(String accessToken, long binderId, String formDataItemName, String fileName);

Description

The binder_uploadFile operation performs an action equivalent to using the UI to upload a file to either a workspace or folder. You can attach only one file at a time; call this operation multiple times to attach more than one file to the binder.

By default, workspaces do not include attached files. However, users can use the designers to define workspaces that do include attached files.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder into which you want to upload a file.

formDataItemname

A string containing the internal identifier for the part of the entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to data in the Teaming database; a hidden HTML tag communicates this file mapping to the server.

The name value for the standard entry element containing attached files is ss_attachFile1. If you want to upload a file into a custom form element you defined using the designers, you need to look up the name identifier for that form element.

If you are uploading to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

fileName

A string containing the filename of the file you want to upload to the binder.

return value

None.

See Also

definition_getDefinitionAsXML

Obtains information about a definition.

Syntax

public String definition getDefinitionAsXML(String access Token, String definitionId);

Description

The definition_getDefinitionAsXML operation returns a string of XML containing information about a specified definition.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

definitionId

The definition identifier of the item about which you want information.

return_value

An XML string containing information about the definition. This XML is free form; it does not have a firm, established schema.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- definition getDefinitionByName (page 51)
- definition_getDefinitions (page 52)
- definition_getDefinitionByName (page 51)
- definition_getLocalDefinitions (page 54)

definition_getDefinitionByName

Obtains information about a global definition.

Syntax

public DefinitionBrief definition_getDefinitionByName(String accessToken, String definitionName);

Description

The definition_getDefinitionByName operation obtains information about a global definition by using the definition name. To get information about a local definition, use the definition getLocalDefinitionByName operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

definitionName

The descriptive word or phrase used to name the global definition.

return_value

A DefinitionBrief Java object containing information about the global definition.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- definition_getDefinitions (page 52)
- definition_getLocalDefinitionByName (page 53)

definition_getDefinitions

Obtains all global definitions in the installation.

Syntax

public DefinitionCollection definition_getDefinitions(String accessToken);

Description

The definition_getDefinitions operation obtains information about all global definitions in the installation. To get information about local definitions, use the definition getLocalDefinitions operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return_value

A DefinitionCollection Java object containing information about all global definitions in the installation.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- definition getLocalDefinitionByName (page 53)
- definition getLocalDefinitions (page 54)

definition_getLocalDefinitionByName

Obtains information about a local definition.

Syntax

public DefinitionBrief definition_getLocalDefinitionByName(String accessToken, long binderId, String name, boolean includeAncestors);

Description

The definition_getLocalDefinitionByname operation obtains information about a local definition by using a name. To get information about a global definition, use the definition_getDefinitionByname operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder whose local definition you want.

name

The word or phrase used to name the local definition.

includeAncestors

A Boolean value that indicates whether Teaming should check local definitions inherited from ancestor workspaces and folders, which are located higher in the hierarchy than the specified binder. If you specify false, Teaming checks only the local definitions created within the specified binder.

return value

A DefinitionBrief Java object containing information about the definition that matches name.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- definition getLocalDefinitionByName (page 53)
- definition getLocalDefinitions (page 54)

definition_getLocalDefinitions

Obtains information about all local definitions.

Syntax

public DefinitionCollection definition_getLocalDefinitions(String accessToken, long binderId, boolean includeAncestors);

Description

The definition_getLocalDefinitions operation obtains information about the local definitions for a specified binder. If you want information about all global definitions in the installation, use the definition_getDefinitions operation.

If you want to add a fully configured binder, use template_addBinder instead.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the workspace or folder whose local definitions you want.

includeAncestors

A Boolean value that indicates whether Teaming should include local definitions inherited from ancestor workspaces and folders, which are located higher in the hierarchy than the specified binder. If you specify false, Teaming includes only the local definitions created within the specified binder.

return_value

A DefinitionCollection Java object that contains information about the binder's local definitions.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- definition getDefinitions (page 52)
- definition_getLocalDefinitionByName (page 53)

folder_addEntry

Adds an entry to a folder.

Syntax

public long folder addEntry(String accessToken, FolderEntry entry, String attachedFileName);

Description

The folder addEntry operation adds an entry to a folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entry

A FolderEntry Java object containing information that Teaming uses to create the new entry.

attachedFileName

(Optional) A string containing the filename of a file to attach to the new entry. If you are not attaching a file, specify the null value for this argument.

return value

The entry identifier of the newly created entry.

See Also

folder_addEntryWorkflow

Initiates a workflow process for a folder entry.

Syntax

public void folder_addEntryWorkflow(String accessToken, long entryId, String workflowDefinitionId);

Description

The folder addEntryWorkflow operation initiates a workflow process for a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the folder entry with which you want to initiate a workflow process.

workflowDefinitionId

The definition identifier of the workflow process that you want to initiate for the specified folder entry.

return_value

None.

See Also

folder_addMicroBlog

Adds a micro-blog entry to a folder.

Syntax

public long folder_addMicroBlog(String accessToken, string text);

Description

The folder addMicroBlog operation adds a micro-blog entry to a folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

text

A string containing the text of the micro-blog to create.

return_value

The entry identifier of the newly created micro-blog entry.

See Also

folder_addReply

Adds a comment to a folder entry.

Syntax

public long folder_addReply(String accessToken, long parentEntryId, FolderEntry reply, String attachedFileName);

Description

The folder addReply operation adds a comment to a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

parentEntryId

The entry identifier of the entry or comment that is to be the parent of the comment you are adding.

reply

A FolderEntry Java object containing information that yyyy uses to create the new comment.

attachedFileName

The filename of a file you are attaching to the comment. If you are not attaching a file, specify the null value for this argument.

return value

The entry identifier of the newly created comment.

See Also

folder_copyEntry

Copies a folder entry.

Syntax

public long folder copyEntry(String accessToken, long entryId, long parentFolderId);

Description

The folder copyEntry operation copies a folder entry.

NOTE: This operation does not copy workflow information for an entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the folder entry you want to copy.

parentFolderId

The folder identifier of the folder you want to contain the copied entry.

return_value

The entry identifier of the new entry created by copying the existing entry.

See Also

folder_deleteEntry

Deletes a folder entry.

Syntax

public void folder_deleteEntry(String accessToken, long entryId);

Description

The folder deleteEntry operation deletes a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the folder entry you want to delete.

return_value

None.

See Also

folder_deleteEntryTag

Removes a tag from a folder entry.

Syntax

public void folder_deleteEntryTag(String accessToken, long entryId, String tagId);

Description

The folder deleteEntryTag operation removes a tag from a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the entry from which you want to remove a tag.

tagId

A string identifying the tag you want to remove from the entry.

return_value

None.

See Also

folder_deleteEntryWorkflow

Removes a workflow from an entry.

Syntax

public void folder_deleteEntryWorkflow(String *accessToken*, long *entryId*, String *workflowDefinitionId*);

Description

The folder deleteEntryWorkflow operation removes a workflow process from a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the entry for which you want to remove a workflow process.

workflowDefinitionId

A string containing the definition identifier for the workflow process you want to remove from the entry.

return_value

None.

See Also

folder_getEntries

Obtains information about the entries within a specified folder.

Syntax

public FolderEntryCollection folder_getEntries(String accessToken, long binderID, int firstRecord, int maxRecords);

Description

The folder getEntries operation obtains information about the entries contained in a folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the folder containing the entries for which you want information.

firstRecord

The index of the first record whose information you want to obtain. The index is 0-based.

maxRecords

The maximum number of entries whose information should be returned. Specify -1 for unlimited.

return value

A FolderEntryCollection Java object containing information about the entries contained within the folder.

See Also

folder_getEntry

Accepts an entry identifier to get information about an entry in a folder.

Syntax

public FolderEntry folder_getEntry(String accessToken, long entryId, boolean includeAttachments);

Description

The folder getEntry operation obtains information about an entry in a folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the entry about which you want information.

includeAttachments

A Boolean value that indicates whether you want Teaming to return the entry's attachments. The client program is responsible for placement of attachment files on its local system.

return_value

A FolderEntry Java object that contains information about the specified entry.

See Also

folder_getEntryByFileName

Accepts a filename to get information about an entry.

Syntax

public FolderEntry folder_getEntryByFileName(String accessToken, long binderId, String fileName, boolean includeAttachments);

Description

The folder_getEntryByFileName operation obtains information about an entry in a folder by using the entry's file name.

Although this operation is most useful for file folders, it works for any folder that requires that all filenames within the folder to be unique.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The binder identifier for the folder containing the entry for which you want information.

fileName

The name of the file that corresponds with the entry for which you want information.

includeAttachment

A Boolean value that indicates whether you want Teaming to return the entry's attachments. The client program is responsible for placement of attachment files on its local system.

return_value

A FolderEntry Java object that contains information about the specified entry.

See Also

folder_getEntryTags

Obtains information about an entry's tags.

Syntax

public Tag[] folder getEntryTags(String accessToken, long entryId);

Description

The folder_getEntryTags operation gets information about each of the tags applied to a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry about whose tags you want information.

return_value

An array of Tag Java objects, where each object contains information about one tag applied to the entry.

See Also

folder_getFileVersions

Returns information about the versions of a file.

Syntax

public void folder_getFileVersions(String accessToken, long entryId, String fileName);

Description

The folder_getFileVersions operation retrieves information about the versions of a file associated with an entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The entry identifier of the entry.

fileName

The filename of the file you want to retrieve version information about.

return value

A File Versions Java object containing information about the file versions.

See Also

folder_getSubscription

Obtains subscription information for a specified folder.

Syntax

public Subscription folder getSubscription(String accessToken, long entryId);

Description

The folder_getSubscription operation gets information about the e-mail notification settings for a specified folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier for the entry whose subscription information you want.

return_value

A Subscription Java object that contains information about e-mail notification settings for the specified folder.

See Also

folder_modifyEntry

Modifies an entry in a folder.

Syntax

public void folder_modifyEntry(String accessToken, FolderEntry entry);

Description

The folder modifyEntry operation modifies the contents of a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entry

A FolderEntry Java object containing the information to apply to the existing folder entry.

return_value

None.

See Also

folder_modifyWorkflowState

Changes the workflow state of an entry.

Syntax

public void folder_modifyWorkflowState(String accessToken, long entryId, long StateId, String toState);

Description

The folder_modifyWorkflowState operation changes the workflow state of a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry whose workflow state you want to change.

stateID

The token ID of the current workflow state from which you want the entry to transition to the new state.

toState

A string identifying your desired workflow state.

return value

None.

See Also

folder_moveEntry

Moves an entry within the folder-tree hierarchy.

Syntax

public void folder moveEntry(String accessToken, long entryId, long parentId);

Description

The folder moveEntry operation moves an entry to be under a new parent within the folder hierarchy.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry you want to move.

parentId

The identifier of the folder that is to be the new parent of the specified entry.

return value

None.

See Also

folder_removeFile

Removes a file attachment from an entry.

Syntax

public void folder_removeFile(String accessToken, long entryId, String fileName);

Description

The folder removeFile operation removes a file attachment from an entry in a folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry that includes the attachment you want to remove.

fileName

A string containing the filename of the attachment you want to remove from the entry.

return_value

None.

See Also

folder_reserveEntry

Reserves an entry.

Syntax

public void folder_reserveEntry(String accessToken, long entryId);

Description

The folder_reserveEntry operation reserves an entry in a folder, preventing others from modifying it.

Users reserve and release an entry in the UI using the Reserve and Unreserve menu items.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry you want to reserve.

return_value

None.

See Also

folder_setEntryTag

Applies a tag to a folder entry.

Syntax

public void folder_setEntryTag(String accessToken, Tag tag);

Description

The folder setEntryTag operation applies a tag to a folder entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

tag

A Tag Java object containing information about the tag you want to apply.

return_value

None.

See Also

folder_setRating

Sets a rating for a folder entry.

Syntax

public void folder_setRating(String accessToken, long entryId, long value);

Description

The folder setRating operation applies a "star" rating to an entry.

In the UI, entries can have ratings that range from a lowest value of 1 star to the highest value of 5 stars.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry for which you want to apply a rating.

ratingValue

An integer indicating how many stars you want to set as the rating.

return_value

None.

See Also

folder_setSubscription

Establishes subscription settings for an entry.

Syntax

public void folder_setSubscription(String accessToken, long entryId, Subscription subscription);

Description

The folder_setSubscription operation establishes settings for e-mail notifications for a specified entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry for which you want to set subscription information.

subscription

A Subscription Java object that contains subscription information to be applied to the specified entry.

return_value

None.

See Also

folder_setWorkflowResponse

Applies an answer to a workflow question for a specified entry.

Syntax

public void folder_setWorkflowResponse(String *accessToken*, long *entryId*, long *stateId*, String *question*, String *response*);

Description

The folder_setWorkflowResponse operation establishes an answer for a workflow question for a specified entry.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry that is currently in the workflow state within which you want to apply an answer to a question.

stateId

The token ID of the current workflow state that defines the question that you want to affect.

question

A string identifying the question that you are providing an answer to.

response

A string identifying the response you want to apply to the workflow question.

See Also

folder_synchronizeMirroredFolder

Synchronizes a mirrored folder with its source folder.

Syntax

public void folder_synchronizeMirroredFolder(String accessToken, long binderId);

Description

The folder_synchronizeMirroredFolder operation synchronizes a mirrored folder with its source folder.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the mirrored folder that you want to synchronize.

return_value

None.

See Also

folder_unreserveEntry

Releases a locked entry.

Syntax

public void folder_unreserveEntry(String accessToken, long entryId);

Description

The folder unreserveEntry operation releases a locked entry.

Users reserve and release an entry in the UI by using the *Reserve* and *Unreserve* menu items.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry that you want to release from its lock.

return_value

None.

See Also

folder_uploadFile

Uploads a file as an attachment to an entry.

Syntax

public void file_uploadFile(String accessToken, long entryId, String formDataItemName, String fileName);

Description

The file_uploadFile operation uploads a file as an attachment to an entry. You can attach only one file at a time; call this operation multiple times to attach more than one file to the entry.

Because transferring files across the Internet can be time-consuming, you can upload files that have already been moved to a staging area on the Teaming server by using the folder_uploadFileStaged operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

The identifier of the entry that is to include the new attached file.

formDataItemName

A string containing the internal identifier for the part of the entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to data in the Teaming database; a hidden HTML tag communicates this file mapping to the server.

The name value for the standard entry element containing attached files is ss_attachFile1. If you want to upload a file into a custom form element you defined by using the designers, you need to look up the name identifier for that form element.

If you are uploading to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

fileName

A string containing the filename of the file you want to attach to the entry.

return value

None.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- folder_uploadFileStaged (page 81)

folder_uploadFileStaged

Locates a locally stored file and attaches it to an entry.

Syntax

public void file_uploadFileStaged(String accessToken, long entryId, String formDataItemName, String fileName, String stagedFileRelativePath);

Description

As a way to streamline the transfer of files, the file_uploadFileStaged operation accesses a file that has been copied locally to the Teaming server, avoiding transferring them over the Internet. The operation then attaches the file to a folder entry in Teaming. In order for the Web services client to utilize this operation, the Teaming administrator must first configure the server to allow this operation by specifying staging.upload.files.enable and

staging.upload.files.rootpath configuration settings in ssf-ext.properties file. Because it involves Teaming administrator access to the server environment, this operation is reserved only for major migration projects where individual file uploads through the HTTP protocol do not meet the performance requirements of the project.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entryId

An identifier for the entry to which you want to attach a file.

formDataItemName

A string containing the internal identifier for the part of the entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to data in the Teaming database; a hidden HTML tag communicates this file mapping to the server.

The name value for the standard entry element containing attached files is ss_attachFile1. If you want to upload a file into a custom form element you defined by using the designers, you need to look up the name identifier for that form element.

If you are uploading to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

fileName

A string containing the filename of the file you want to attach to the entry.

stagedFileRelativePath

A pathname of the file relative to the staging area on the server side. On the Teaming server, the staging directory is designated by the value of the staging.uploads.files.rootpath configuration setting. This relative pathname is resolved against the staging directory of the Teaming server to identify the input file.

return_value

None.

- ◆ Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- folder_uploadFile (page 80)

ical_uploadCalendarEntriesWithXML

Adds a calendar entry to a folder.

Syntax

public void ical_uploadCalendarEntriesWithXML(String accessToken, long folderId, String iCalDataAsXML);

Description

The ical_uploadCalendarEntriesWithXML adds a calendar entry using iCal information in an XML string.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

folderId

The identifier of the folder where you want to add a calendar entry.

iCalDataAsXML

A string containing XML formatted calendar data (<doc><entry>iCal data</entry>...</doc>).

return_value

None.

See Also

Idap_synchAll

Synchronizes all users with the current information that is in LDAP.

Syntax

public void ldap_synchAll(String accessToken);

Description

The ldap synchAll operation synchronizes all users with the current information that is in LDAP.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return_value

None.

See Also

Idap_synchUser

Synchronizes one user with the latest information in LDAP for that person.

Syntax

public void ldap_synchUser(String accessToken, long userId);

Description

The ldap_synchUser operation synchronizes one user with the latest information in LDAP for that person.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

userId

The identifier of the user whose information you want synchronized with that person's LDAP data.

return_value

None.

See Also

license_getExternalUsers

Obtains a count of external users.

Syntax

public long license_getExternalUsers(String accessToken);

Description

The license_getExternalUsers operation obtains a count of legal external users for the current license.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return_value

An integer indicating the number of allowed external users.

See Also

license_getRegisteredUsers

Obtains a count of registered Teaming users.

Syntax

public long license_getRegisteredUsers(String accessToken);

Description

The license_getRegisteredUsers operation obtains a count of the current number of registered users on the system.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return_value

An integer that is the count of users currently registered on the system.

See Also

license_updateLicense

Updates the Teaming license.

Syntax

public void license_updateLicense(String accessToken);

Description

The license updateLicense operation updates the Teaming license.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return_value

None.

See Also

migration_addBinder

Accepts a Java object to add a binder, allowing preservation of SiteScape Forum[®] data.

Syntax

public long migration addBinder(String accessToken, Binder binder);

Description

The migration_addBinder operation adds either a workspace or folder to the hierarchy, allowing you to specify SiteScape Forum data (such as the person who created the workspace or folder in Forum, the Forum creation date, the user who last modified the workspace or folder in Forum, and the date of the last modification in Forum).

If you prefer to use XML to specify data, use the migration addBinderWithXML operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binder

Data and methods for the Java Binder object, defined in the Teaming source code. Edit the information in the Binder object to reflect the Forum values.

return_value

The identifier of the newly created binder.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration addBinderWithXML (page 90)

migration_addBinderWithXML

Accepts XML to add a binder, allowing preservation of SiteScape Forum data.

Syntax

public long migration_addBinderWithXML(String accessToken, long parentId, String definitionId, String inputDataAsXML, String creator, Calendar creationDate, String modifier, Calendar modificationDate);

Description

The migration_addBinderWithXML operation adds either a workspace or folder to the hierarchy, allowing you to specify SiteScape Forum data (such as the person who created the workspace or folder in Forum, the Forum creation date, the user who last modified the workspace or folder in Forum, and the date of the last modification in Forum).

If you prefer to use a Java object to specify data, use the migration addBinder operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

parentId

The identifier of the workspace or folder that is to contain the new binder.

definitionID

A string that identifies the definition used to create the new binder.

inputDataAsXML

An XML string that provides the data needed to construct the workspace or folder.

creator

A string containing the username of the person who created the workspace or folder in Forum.

creationDate

A Calendar Java object that contains the creation date of the workspace or folder in Forum.

modifier

A string containing the username of the person who last modified the workspace or folder in Forum.

modificationDate

A Calendar Java object that contains the modification date of the workspace or folder in Forum.

return_value

The identifier of the newly created binder.

- ◆ Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration_addBinder (page 89)

migration_addEntryWorkflow

Associates an entry with a workflow process, allowing preservation of SiteScape Forum data.

Syntax

public void migration_addEntryWorkflow(String accessToken, long binderId, long entryId, String definitionId, String startState, String modifier, Calendar modificationDate);

Description

The migration_addEntryWorkflow operation associates an entry with a workflow process, while preserving values from a SiteScape Forum installation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the folder containing the entry with which you want to associate a workflow process.

entryId

The identifier of the entry with which you want to associate the workflow process.

definitionId

A string containing the definition identifier for the workflow process you want to associate with the entry.

startState

A string containing the name of the state of the entry as it was last set in the Forum installation.

modifier

A string containing the username of the person who last modified the workflow state in the Forum installation.

modificationDate

A Calender Java object that contains the date that the workflow state was last modified in the Forum installation.

return value

None.

See Also

migration_addFolderEntry

Accepts a Java object to add an entry to a folder, allowing preservation of SiteScape Forum data.

Syntax

public long migration addFolderEntry (String accessToken, FolderEntry entry, boolean subscribe);

Description

The migration addFolderEntry operation adds an entry to a folder.

If you prefer to use an XML string to create the new entry, use the migration_addFolderEntryWithXML operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

entry

A FolderEntry Java object that contains information used to create the new entry, including information from the entry in the Forum installation.

subscribe

A Boolean value that implements the Forum *notify me when someone replies to this entry* feature by establishing a subscription for the entry owner.

return_value

The identifier of the newly created entry.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration_addFolderEntryWithXML (page 94)

migration_addFolderEntryWithXML

Accepts XML to add an entry to a folder, allowing preservation of SiteScape Forum data.

Syntax

public long migration_addFolderEntryWithXML(String accessToken, long binderId, String definitionId, String inputDataAsXML, String creator, Calendar creationDate, String modifier, Calendar modificationDate, boolean subscribe);

Description

The migration_addFolderEntry operation adds an entry to a folder, allowing you to preserve data from the entry as it last existed in an installation of SiteScape Forum.

If you prefer to create the entry by using a Java object, use the migrate_addFolderEntry operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the folder that is to contain the new entry.

definitionId

A string containing the definition identifier for the new entry.

inputDataAsXML

A string containing the XML elements used to construct the new entry.

creator

A string containing the username of the person who created the entry in the Forum installation.

creationDate

A Calendar Java object containing the date the entry was created in the Forum installation.

modifier

A string containing the username of the person who last modified the entry in the Forum installation.

modificationDate

A Calendar Java object containing the date the entry was last modified in the Forum installation.

subscribe

A boolean value that implements the Forum feature "notify me when someone replies to this entry" by establishing a subscription for the entry owner.

return_value

The identifier of the binder for the newly created entry.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration_addFolderEntry (page 93)

migration_addReply

Accepts a Java object to add a comment, allowing preservation of SiteScape Forum data.

Syntax

public long migration_addReply(String accessToken, long parentEntryId, FolderEntry reply);

Description

The binder_addReply operation adds a comment to an entry or a reply, and allows you to preserve data from the reply as it last appeared in a Forum installation.

If you prefer to add the comment by using XML, use the migrate_addReplyWithXML operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

parentEntryId

The identifier of the entry or comment that is the parent of the comment you want to create.

reply

A FolderEntry Java object that contains information used to construct the new comment, including data reflecting the reply as it last appeared in the Forum installation.

return_value

The identifier of the newly created comment.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration addReplyWithXML (page 97)

migration_addReplyWithXML

Accepts XML to add a comment, allowing preservation of SiteScape Forum data.

Syntax

public long migration_addReplyWithXML(String accessToken, long binderId, long parentId, String definitionId, String inputDataAsXML, String creator, Calendar creationDate, String modifier, Calendar modificationDate);

Description

The migration_addReplyWithXML operation adds a comment to an entry or to another comment, allowing you to preserve data from the reply as it last appeared in the SiteScape Forum installation.

If you prefer to add the comment by using a Java object, use the migration addReply operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the folder that contains the entry to which you want to add the comment.

parentId

The identifier of the entry or comment that is to be the parent of the newly created comment.

definitionId

A string containing the definition identifier for the comment you want to create.

inputDataAsXML

An XML string whose elements are used to create the new comment.

creator

A string containing the username of the person who created the reply in the Forum installation.

creationDate

A Calendar Java object containing the date that the reply was created in the Forum installation.

modifier

A string containing the username of the person who last modified the reply in the Forum installation.

modificationDate

A Calendar Java object that contains the date that the reply was last modified in the Forum installation.

return_value

The identifier of the newly created comment.

- ◆ Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration_addReply (page 96)

migration_uploadFolderFile

Uploads an entry attachment, allowing preservation of SiteScape Forum data.

Syntax

public void migration_uploadFolderFile(String accessToken, long binderId, long entryId, String formDataItemName, String fileName, String modifier, Calendar modificationDate);

Description

The migration_uploadFolderFile operation attaches a file to an entry, allowing you to preserve data from the attachment as it last appeared in a SiteScape Forum installation. You can attach only one file at a time; call this operation multiple times to attach more than one file to the entry.

Because moving files across the Internet can be time-consuming, you can create attachments from Forum files that have already been copied to a staging area on the Teaming server by using the migration_uploadFolderFileStaged operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the folder containing the entry to which you want to attach a file.

entryId

The identifier of the entry to which you want to attach a file.

formDataItemName

A string containing the internal identifier for the part of the entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to data in the Teaming database; a hidden HTML tag communicates this file mapping to the server.

The name value for the standard entry element containing attached files is ss_attachFile1. If you want to upload a file into a custom form element you defined by using the designers, you need to look up the name identifier for that form element.

If you are uploading to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

fileName

A string containing the name of the file you want to upload.

modifier

A string containing the username of the last person in the Forum installation to modify the file.

modificationDate

A Calendar Java object containing the date that the file was last modified in the Forum installation.

return_value

None.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- migration_uploadFolderFileStaged (page 101)

migration uploadFolderFileStaged

Uploads a local copy of an entry attachment, allowing preservation of SiteScape Forum data.

Syntax 1 4 1

public void migration uploadFolderFileStaged(String accessToken, long binderId, long entryId, String formDataItemName, String fileName, String stagedFileRelativePath, String modifier, Calendar *modificationDate*);

Description

The migration uploadFolderFileStaged operation accesses a file that has been copied locally to the Teaming server as a way to streamline the transfer of files, avoiding transferring them over the Internet. The operation then attaches the file to a folder entry in Teaming.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the binder containing the entry to which you want to attach a file.

entryId

The identifier of the entry to which you want to attach a file.

formDataItemName

A string containing the internal identifier for the part of the entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to data in the Teaming database; a hidden HTML tag communicates this file mapping to the server.

The name value for the standard entry element containing attached files is ss attachFile1. If you want to upload a file into a custom form element you defined by using the designers, you need to look up the name identifier for that form element.

If you are uploading to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

fileName

A string containing the name of the file you want to attach to an entry.

stagedFileRelativePath

A pathname of the file relative to the staging area on the server side. On the Teaming server, the staging directory is designated by the value of the staging.upload.files.rootpath configuration setting. This relative pathname is resolved against the staging directory of the Teaming server to identify the input file.

Although the files can be present in any folder structure within the staging area, one streamlined way to approach this task is to unzip the Forum hidden directory into the staging area. Then, use this parameter to specify the relative path through the hidden folder structure to the location of the file to be attached to the entry in Teaming.

modifier

A string containing the username of the person who last modified the file in the Forum installation.

modificationDate

A Calendar Java object that contains the date that the file was last modified in the Forum installation.

return_value

None.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on
- migration_uploadFolderFile (page 99)

profile_addGroup

Adds a group.

Syntax

public long profile_addGroup(String accessToken, Group group);

Description

The profile addGroup operation adds a new group to Teaming.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

group

A Group Java object containing information needed to create the new group in Teaming.

return_value

The identifier of the newly created group.

See Also

profile_addGroupMember

Adds a user to a group.

Syntax

public void profile_addGroupMember(String accessToken, String groupName, String userName);

Description

The profile addGroupMember operation adds a user to a group.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

groupName

A string containing the name of the group.

userName

A string containing the name of the user to be added to the group.

return_value

None.

See Also

profile_addUser

Adds a user profile.

Syntax

public long profile_addUser(String accessToken, User user);

Description

The profile addUser operation adds a profile for a new Teaming user.

After you add a user profile, you can add a user workspace for the new user by using the profile addUserWorkspace operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

user

A User Java object containing the information needed to create a new user.

return_value

The identifier of the newly created user.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile_addUserWorkspace (page 106)

profile_addUserWorkspace

Adds a user workspace for an existing user.

Syntax

public long profile addUserWorkspace(String accessToken, long userId);

Description

The profile addUserWorkspace operation adds a user workspace for an existing user.

To create a new user before using this operation, use the profile addUser operation, which creates a profile for a new user.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

userId

The identifier of the user for whom you want to create a user workspace.

return_value

The binder identifier of the newly created user workspace.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile_addUser (page 105)

profile_deletePrincipal

Removes a group or user.

Syntax

public void profile_deletePrincipal(String accessToken, long principalId, boolean deleteWorkspace);

Description

The profile deletePrincipal operation removes a group or user.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

principalId

The identifier of the group or user you want to delete.

deleteWorkspace

When you delete a user, this Boolean value indicates whether Teaming should delete the corresponding user workspace.

return_value

None.

See Also

profile_getFileVersions

Returns information about the versions of a file.

Syntax

public void profile getFileVersions(String accessToken, long principalId, string fileName);

Description

The profile getFileVersions operation retrieves information about the versions of a file associated with a user or group.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

principalId

The identifier for the principal (a user or group).

fileName

The filename of the file you want to retrieve version information about.

return value

A File Version Java object containing information about the file versions.

See Also

profile_getGroup

Accepts a group identifier to obtain the title and the description of the group.

Syntax 1 4 1

public Group profile getGroup(String accessToken, long groupId, boolean includeAttachments);

Description

The profile getGroup operation obtains the title and the description of the group.

If you want to get information about the members of a group, use the profile getGroupMembers operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

groupId

The identifier of the group about which you want information.

includeAttachments

A Boolean value that indicates whether you want files that are attached to the group.

By default, you cannot attach files to a group. However, a site administrator can use the designers in the UI to customize a group to be able to include files.

return value

A Group Java object containing information about all of the group members.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile getGroupByName (page 110)
- profile getGroupMembers (page 111)

profile_getGroupByName

Accepts a group name to obtain the title and the description of the group.

Syntax

public Group profile getGroupByName(String accessToken, String groupName, boolean includeAttachments)

Description

The profile getGroupByName operation obtains the title and the description of a group.

If you want to get information about the members of a group, use the profile getGroupMembers operation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

groupName

A string containing the name of the group.

includeAttachments

A Boolean value that indicates whether you want files attached to the group.

By default, you cannot attach files to a group. However, a site administrator can use the designers in the UI to customize a group to be able to include files.

return value

A Group Java object containing information about all of the group members.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile getGroup (page 109)
- profile_getGroupMembers (page 111)

profile_getGroupMembers

Obtains information about the members of a group.

Syntax

public PrincipalCollection profile getGroupMembers(String accessToken, String groupName);

Description

The profile getGroupMembers operation obtains information about members of a group.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

groupName

A string containing the name of the group whose members you want information about.

return_value

A PrincipalCollection Java object containing information about the members of the specified

See Also

profile_getPrincipals

Gets information for users and groups in the installation.

Syntax

public PrincipalCollection profile getPrincipals(String accessToken, int firstRecord, int maxRecords);

Description

The profile getPrincipals operation gets information for users and groups in the installation. Because the set of information is potentially very large, you can use successive calls to this operation to receive manageable subsets of information for each call.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

firstRecord

The number of the record (information about one user or group) to begin returning. Use this parameter to page the returned list of principals.

The number of the first record 0.

maxRecords

The largest number of records you want returned in this call. For an unlimited number specify -

return value

A PrincipalCollection Java objection containing information about the set of users and groups you requested.

See Also

profile_getUser

Accepts a user identifier to get information about a user.

Syntax 1 4 1

public User profile getUser(String access Token, long userId, boolean include Attachments);

Description

The profile getUser operation accepts a user identifier and returns information about a Teaming

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

userId

The identifier of the user about whom you want information.

includeAttachments

A Boolean value that specifies whether Teaming should return attachments to the user's profile.

By default, the only attached files are the users' pictures. However, the site administrator can customize the profile to include other files by using the designer tools in the UI.

return value

A User Java object that contains information about the requested user.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile_getUserByName (page 114)

profile_getUserByName

Accepts a username to get information about a user.

Syntax

public User profile getUserByName(String accessToken, String userName, boolean includeAttachments);

Description

The profile getUserByName operation accepts a username as a parameter and returns information about a Teaming user.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

userName

A string containing the username of the user for whom you want information.

includeAttachments

A Boolean value that indicates whether Teaming should return attached files.

By default, the only attached files are the users' pictures. However, the site administrator can customize the profile to include other files by using the designer tools in the UI.

return value

A User Java object containing information about the requested user.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile getUser (page 113)

profile getUsers

Obtains information for users in the installation.

Syntax 1 4 1

public UserCollection profile getUsers(String accessToken, boolean captive, int firstRecord, int maxRecords);

Description

The profile getUsers operation gets information for users in the installation. Because the set of information is potentially very large, you can use successive calls to this operation to receive manageable subsets of information for each call.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

captive

Set this to true if you want the permalink URL returned for each user workspace to represent captive mode. When a user workspace is viewed in captive mode, the master heading and the sidebar are removed from the display, which allows the page to fit better in a small screen. The default is false.

firstRecord

The number of the record to begin returning. Use this parameter to page the returned list of

The number of the first record is 0.

maxRecord

The largest number of records you want to return in this call. Specify -1 for unlimited.

return_value

A UserCollection Java object that contains information about the entries contained within the folder.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- profile getUserByName (page 114)

profile_getUserTeams

Obtains information about all teams that the specified user is a member of.

Syntax

public TeamCollection search getUserTeams(String accessToken, long userId);

Description

The search getUsersTeams operation obtains information about all teams that the user is a member of.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

userId

The identifier of the user about whom you want information.

return_value

A UserCollection Java object that contains information about the entries contained within the folder.

See Also

profile_modifyGroup

Modifies a group.

Syntax

public void profile_modifyGroup(String accessToken, Group group);

Description

The profile modifyGroup operation modifies information associated with a group.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

group

A Group Java object containing modified information about a group.

return_value

None.

See Also

profile_modifyUser

Modifies a user.

Syntax

public void profile_modifyUser(String accessToken, User user);

Description

The profile modifyUser operation modifies information associated with a user.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

user

A User Java object containing modified information about a user.

return_value

None.

See Also

profile_removeFile

Removes a file from the user profile.

Syntax

public void profile removeFile (String accessToken, long principalId, String fileName);

Description

The profile removeFile operation removes a file from a user profile.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

principalId

The identifier for the principal (by default, a user) from which you want to remove a file.

By default, only user profiles contain files. However, it is possible for site administrators to customize groups by using the designer tools in the UI.

fileName

A string containing the name of the file you want to remove.

return_value

None.

See Also

profile_removeGroupMember

Removes a user from a group.

Syntax

public void profile removeGroupMember(String accessToken, String groupName, String userName);

Description

The profile removeGroupMember operation removes a user from membership in a group.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

groupName

A string containing the name of the group from which you want to remove a member.

userName

A string containing the name of the user you want to remove from the specified group.

return value

None.

See Also

profile uploadFile

Uploads a file as an attachment to a user or group.

Syntax 5 4 1

public void profile uploadFile(String accessToken, long principalID, String formDataItemName, String fileName);

Description

The profile uploadFile operation performs an action similar to using the user interface to upload a picture to user profiles. Files are attached one at a time; call this operation multiple times to attach more than one file to the binder.

By default, only user profiles contain files. However, it is possible for site administrators to customize groups by using the designer tools in the user interface,

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

principalId

The identifier for the user or group to which you want to attach a file.

formDataItemName

A string containing the internal identifier for the part of the principal entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to data in the Teaming database; a hidden HTML tag communicates this file mapping to the server.

The name value for the standard entry element containing attached files is ss attachFile1. To upload a file into the custom forms element you defined by using the designer, you need to look up the name identifier for that form element.

To upload a picture for a user profile, specify picture as an argument to this parameter to make this attachment one of the pictures associated with the user profile.

fileName

A string containing the filename of the file you want to upload to the principal.

return value

None.

See Also

search_getFolderEntries

Obtains information about the entries that match the specified search query.

Syntax

public String search getFolderEntries (String access Token, String query, int offset, int maxResults);

Description

The search getFolderEntries operation obtains information about the entries matching the specified search query. Because the list of each result can be lengthy, this operation lets you make multiple calls, receiving a subset of the search results each time.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

query

A search query represented in XML.

offset

An integer indicating at which result you want to begin receiving information. The first result is numbered 0.

maxResults

An integer indicating the number of results you want returned. The value of -1 indicates unlimited.

return_value

A FolderEntryCollection Java object containing information about the entries contained within the folder.

See Also

search_getHotContent

Returns information about binders and entries active during the last two weeks.

Syntax

public String search getHotContent(String accessToken, String limitType, Long binderId);

Description

The search getHotContent operation returns an XML document about all items that were viewed, downloaded, or modified in the past two weeks.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

limitType

One of the following values:

- activity: Returns items that had any activity.
- download: Returns items that included at least one attachment that was downloaded.
- modify: Returns items that were modified.
- view: Returns items that were viewed.

binderId

The identifier of the binder whose descendants you want to evaluate for activity. If you want to evaluate all items in a zone, pass the null value to this parameter.

return_value

An XML string containing information about the entries that had activity.

See Also

search_getTeams

Obtains information about the teams that the calling user is a member of.

Syntax

public TeamCollection search getTeams(String accessToken);

Description

The search getTeams operation obtains information about the teams that the calling member is a user of.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return value

A TeamCollection Java object that contains information about the teams that the calling user is a member of.

See Also

search getWorkspaceTreeAsXML

Obtains information needed to construct the Teaming workspace and folder tree.

Syntax 1 4 1

public String search getWorkspaceTreeAsXML(String accessToken, long binderId, int levels, String page);

Description

The search getWorkspaceTreeAsXML operation obtains information needed to construct the Teaming workspace and folder tree.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

binderId

The identifier of the binder whose descendants you want to include in the workspace and folder tree information.

The top workspace in the Teaming tree has a binder identifier of 1.

levels

The number of hierarchical levels down from the node specified by binderId that you want to include in the returned information. The value -1 indicates that you want all subsequent levels.

page

A parameter used to expand pages of binders. When you specify a valid page identifier, Teaming expands the page by the number of levels indicated in the levels parameter.

If you do not want to use this call expand pages, pass null as this parameter.

See Section 1.7.6, "Binder Pages and search_getWorkspaceTreeAsXML," on page 18 for more detailed information about working with pages.

return value

A string containing XML elements needed to construct each node within the requested levels of the workspace hierarchy.

See Also

search_search

Returns XML for results of a search query.

Syntax

public String search search (String access Token, String query, int offset, int maxResults);

Description

The search search operation returns XML for the results of a search query represented in XML. Because the list of each results can be lengthy, this operation is designed so that you can make multiple calls, receiving a subset of the search results each time.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

query

A search query represented in XML.

offset

An integer indicating at which result you want to begin receiving information. The first result is numbered 0.

maxResults

An integer indicating the number of results you want returned.

return value

A string of XML containing information about the search results that match your specified criteria.

Example

The following input query string in XML matches all users whose first name begins with the letter J or the last name is Smith.

```
<QUERY>
    <AND>
          <FIELD fieldname=" entityType" exactphrase="true">
              <TERMS>user</TERMS>
          </FIELD>
          <FIELD> fieldname=" docType" exactphrase="true">
               <TERMS>entry</Terms>
          </FIELD>
               <FIELD fieldname=" lastName">
                   <TERMS>Smith</TERMS>
               </FIELD>
```

```
<FIELD fieldname="_firstName">
                   <TERMS>J*</TERMS>
              </FIELD>
         </OR>
    </AND>
</QUERY>
```

See Also

template_addBinder

Adds a fully configured workspace or folder to the workspace hierarchy.

Syntax

public long template addBinder(String accessToken, long parentId, long binderConfigId, String title);

Description

The template addBinder operation adds a fully configured workspace or folder to the workspace hierarchy.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

parentId

The identifier of the workspace or folder that is to contain the new binder.

binderConfigId

The identifier that maps to the default configuration for the folder you want to create.

You can use the template getTemplates information to get a configuration identifier from a binder that has a configuration you want for your new binder. Or, you can get a binder configuration identifier from the Teaming user interface. See Section 1.7.2, "Adding Folders and the Binder Configuration Identifier," on page 16, for information about getting a configuration identifier from the user interface.

title

A string containing the title of the new binder.

return_value

The binder identifier of the newly created workspace or folder.

- Java objects in the Teaming sources (see Section 1.7.1, "Working with Java Objects," on page 15)
- template getTemplates (page 129)

template_getTemplates

Obtains information about all defined templates in the installation.

Syntax

public TemplateCollection template getTemplates(String accessToken);

Description

The template getTemplates operation obtains information about all defined templates in the installation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

return value

A TemplateCollection Java object that contains information about all templates in the installation.

See Also

zone_addZone

Adds a zone to the installation.

Syntax

public Long zone addZone(String accessToken, String zoneName, String virtualHost, String mailDomain);

Description

The zone addZone operation adds a zone to the installation.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

zoneName

A string containing the name of the new zone.

virtualHost

A string specifying the virtual host. (See the installation guide for more information.)

mailDomain

This parameter is not used.

return_value

The zone identifier, which is the binder identifier of the top workspace in the new zone.

See Also

zone_deleteZone

Deletes a zone.

Syntax

public void zone_deleteZone(String accessToken, String zoneName);

Description

The zone deleteZone operation deletes a zone.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

zoneName

A string containing the name of the zone you want to delete.

return_value

None.

See Also

zone_modifyZone

Modifies a zone.

Syntax

public void zone modifyZone(String accessToken, String zoneName, String virtualHost, String *mailDomain*);

Description

The zone modifyZone operation changes a zone's virtual host specification.

Parameters and Return Value

accessToken

Either the security token passed to your application by Teaming as part of implementing a remote application, or the null value.

zoneName

A string containing the name of the new zone.

virtualHost

A string specifying the virtual host. (See the installation guide for more information.)

mailDomain

This parameter is not used

return_value

None.

See Also

Deprecated Web Service Operations

This topic provides alphabetized reference pages for deprecated Web services operations provided by Novell Teaming.

NOTE: Novell recommends that you do not use these Web services operations in new applications. Instead, use the operations documented in Appendix A, "Web Service Operations," on page 21. Novell continues to support the operations in this appendix for backward compatibility for applications written to interoperate with Teaming 1.03 or earlier.

The following are conventions used in this reference section:

What you see	What it means
Click the Add a team workspace button.	Items that are clickable on the page, programming variables, or syntax parameters are presented in <i>italic</i> font.
Click the Getting Started link.	
Blog summary - Provides a	Defined terms in a list, note headers, section headers on a reference page, and list items on a reference page are presented in bold font.
Note: Remember that	
Type status, then press Enter.	Text that you must type, file names, commands, command options, routines, Web services messages, and parameters are presented in Courier font when occurring in a body of text.
Open the ManagerGuide.pdf file.	
Use the ${\tt open_db}$ routine with its lock parameter.	
[page]	Optional syntax parameters are enclosed in brackets ([]).
, paramSyntax1 paramSyntax2,	Required parameters that accept two or more optional syntaxes are separated by the vertical-line character.
(V1—V1.0.3)	The versions of Teaming that support the Web services operation ("all versions between Version 1.0 through Version 1.0.3")

NOTE: All examples in this reference section use Apache Axis run-time library methods that specify Web service operations and their argument lists. If you are not using Apache Axis, map the Apache methods to those you are using to implement your Web service calls.

The search operation is under development and subject to change or deletion at any time. Do not use this operation in your client applications.

Web service operations contained in this reference section are used by this Windows based client: / ssf/samples/wsclient/facade-client.bat. With the exception of uploadCalendarEntries, use the same parameters for the batch-file command that you use for the corresponding Web service message.

The following table maps the facade-client.bat command name to its corresponding, linked Web services message, which is documented in this reference section:

facade-client.bat command	Web services message
addEntry	addFolderEntry
addFolder	addFolder
addReply	addReply
[none]	addUserWorkspace
indexBinder	indexFolder
listDefinitions	getDefinitionListAsXML
migrateBinder	migrateBinder
migrateEntry	migrateFolderEntry
migrateReply	migrateReply
migrateFile	migrateFolderFile
migrateFileStaged	migrateFolderFileStaged
migrateWorkflow	migrateEntryWorkflow
modifyEntry	modifyFolderEntry
printAllPrincipals	getAllPrincipalsAsXML
printDefinition	getDefinitionAsXML
printDefinitionConfig	getDefinitionConfigAsXML
printFolderEntry	getFolderEntryAsXML
printFolderEntries	getFolderEntryAsXML
printPrincipal	getPrincipalAsXML
printTeamMembers	getTeamMembersAsXML
printTeams	getTeamsAsXML
printWorkspaceTree	getWorkspaceTreeAsXML
setDefinitions	setDefinitions
setFunctionMembership	setFunctionMembership
setFunctionMembershipInherited	setFunctionMembershipInherited
setOwner	setOwner
setTeamMembers	setTeamMembers
synchronize	synchronizeMirroredFolder
uploadCalendar	uploadCalendarEntries
uploadFile	uploadFolderFile

addFolder

Adds a folder to the workspace-tree hierarchy. (V1—V1.0.3)

Syntax

public long addFolder(long parentBinderId, long binderConfigId, String title);

Description

The addFolder operation adds a folder to the workspace and folder hierarchy.

Parameters and Return Value

parentBinderId

The identifier of the workspace or folder that is to contain the new folder.

binderConfigId

The identifier that maps to the default configuration for the folder you want to create.

title

A string providing a title for the new entry.

return_value

The binder identifier of the newly created folder.

Example

```
call.setOperationName(new QName("addFolder"));
Object result = call.invoke(new Object[] {new Long(21), new Long(146), new
String("My new folder")});
```

This code creates a new to the container whose binder identifier is 21, gives the folder a configuration identifier of 146 (on our test installation, this corresponds to a discussion folder), and establishes the title of the new folder as My new folder. The container whose binder identifier is 21 can be either a workspace or folder.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- Section 1.7.1, "Working with Java Objects," on page 15

addFolderEntry

Adds an entry to a folder. (V1—V1.0.3)

Syntax 5 4 1

public long addFolderEntry(long *folderId*, String *definitionId*, String *inputDataAsXML*, String *attachedFileName* | null);

Description

The addFolderEntry operation adds an entry to a folder.

Parameters and Return Value

folderId

The binder identifier of the folder that is to contain the new entry.

definitionId

The 32-character, hexadecimal identifier that maps to the type of entry to be created (for example, some default entry types are topic, file, blog, wiki, and calendar).

The easiest way to work with definition identifiers for entries is to specify null for this value. When you specify null, Teaming automatically applies the definition identifier for the default entry type of the folder in which you are creating a new entry. For example, by default, you want to create an entry in a blog folder. If you pass null as the definition identifier, Teaming automatically applies the definition identifier for a blog entry.

As another option, you can use the getDefinitionConfigAsXML operation to get information about all definitions. Then, you can parse the XML string for the definition identifier of the type of entry you want.

inputDataAsXML

A string of XML containing the values needed to create an entry of your desired type.

Use the Teaming UI to create a complete entry of the type you want this Web services operation to create, note the entry identifier, and then use the getFolderEntryAsXML operation to return XML for the entry. Then, use the returned XML as a template for this parameter.

attachedFileName

The name of the file you wish to attach to the new entry. This is an optional parameter. The file must be located in the directory in which the client code executes.

return_value

The entry identifier for the newly created entry.

Examples

```
call.setOperationName(new QName("addFolderEntry"));
Object result = call.invoke(new Object[] {new Long(21), new
String("402883b90cc53079010cc539bf260002"), s, filename}, filename);
```

This code creates a new entry in the folder whose binder identifier is 21; the specified entrydefinition identifier maps to a discussion topic. The variable s contains XML elements needed by Teaming to create the entry. The new entry includes the attached file whose filename is specified by the value of the filename variable.

```
call.setOperationName(new QName("addFolderEntry"));
Object result = call.invoke(new Object[] {new Long(21), new
String("402883b90cc53079010cc539bf260002"), s, null});
```

This code produces the same effect as the last example, except that it does not attach a file.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getFolderEntryAsXML (page 146)
- getDefinitionConfigAsXML (page 143)

addReply

Adds a new comment to an entry or comment. (V1.0.3)

Syntax 1 4 1

public long addReply(long folderId, long parentEntryId, String definitionId, String *inputDataAsXML*, String *attachedFileName* | null);

Description

The addReply operation adds a new comment to an entry or to an existing comment.

Parameters and Return Value

folderId

The binder identifier of the folder containing the entry or comment to which you want to apply the new comment.

parentEntryId

The entry identifier for the entry or comment to which you want to apply the comment.

definitionId

The 32-character, hexadecimal identifier that maps to the type of comment to be created.

You can use the getDefinitionListAsXML operation to get metadata for all definitions. Then, you can parse the XML string for the definition identifier of the type of comment you want.

inputDataAsXML

A string of XML containing the values needed to create a comment of your desired type.

Use the Teaming UI to create a complete comment of the type you want this Web services operation to create, note the entry identifier, and then use the getFolderEntryAsXML operation to return XML for the entry. Then, use the returned XML as a template for this parameter.

attachedFileName

The name of the file you wish to attach to the new comment. This is an optional parameter. The file must be located in the directory in which the client code executes.

return value

The entry identifier of the newly created comment.

Example

```
call.setOperationName(new QName("addReply"));
Object result = call.invoke(new Object[] {new Long(21), new Long(45), null, s,
null});
```

This code creates a new comment in the folder whose binder identifier is 21, and applies it to the entry or comment whose entry identifier is 45. The first null value instructs Teaming to use the default comment type for the folder. The variable s contains XML elements needed by Teaming to create the comment. Because of the final null value, the new comment does not include an attached file.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getFolderEntryAsXML (page 146)
- getDefinitionListAsXML (page 144)

addUserWorkspace

Adds a new personal workspace. (V1.0.3)

Syntax

public long addUserWorkspace (long userId);

Description

The addUserWorkspace operation adds a new personal workspace to the workspace hierarchy.

The primary purpose of this operation is to assist with migrating data from SiteScape Forum to Teaming. By default using Teaming, the creation of the personal workspace occurs when someone first uses the portal software to sign in with a username and password. If you want to migrate Forum information as sub-content to a personal workspace in Teaming, use this operation before creating the sub-content.

Parameters and Return Value

userId

The identifier for the user for whom you want to create the personal workspace

return_value

The binder identifier of the newly created personal workspace.

Example

```
call.setOperationName(new QName("addUserWorkspace"));
Object result = call.invoke(new Object[] {new Long(21)});
```

This code creates a new personal workspace.

getAllPrincipalsAsXML

Returns summary information for users and groups. (V1—V1.0.3)

Syntax 1 4 1

public String getAllPrincipalsAsXML(int firstRecord, int maxRecords);

Description

The getAllPrincipalsAsXML operation returns XML elements that provide summary information about registered users and defined groups. You can use this operation to identify a particular user by name or other data, obtain an identifier for a particular user, and then use the getPrincipalAsXML operation to gather a finer level of information about that person.

Parameters and Return Value

firstRecord

The index of the first record whose user or group information you want to obtain. The index for the first principal in the system is 1.

maxRecords

The maximum number of user and group records whose information should be returned.

You can use the previous parameter and this parameter in subsequent calls to getAllPrincipalsAsXML to process data for sets of users and groups at a time (for example, 50 at a time, or 100 at a time).

return value

A string containing the XML elements providing information about the requested set of users and groups.

Example

```
call.setOperationName(new QName("getAllPrincipalsAsXML"));
Object result = call.invoke(new Object[] {new Integer(100), new Integer(50)});
```

This code requests information for users and groups starting with the record number 100 and including up to 50 records.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getAllPrincipalsAsXML (page 141)

getDefinitionAsXML

Returns information about one definition. (V1—V1.0.3)

Syntax 1 4 1

public String getDefinitionAsXML(String definitionId);

Description

The getDefinitionAsXML operation returns an XML string containing information about one definition. You work with definitions using the designers in the administration UI.

For example, if you pass one of the definition identifiers for an entry type listed in the addFolderEntry reference page, Teaming returns information about the definition for that entry.

As an alternative, you can use the getDefinitionConfigAsXML operation to obtain all definitions in Teaming and then parse the larger string for the definition information you want.

Parameter and Return Value

definitionId

The identifier of the definition whose information you want. Definitions are maintained using the designers in the administration UI, and define the components of an object in Teaming.

return_value

A string of XML whose elements provide information about the components of an object in Teaming.

Example

```
call.setOperationName(new QName("getDefinitionAsXML"));
Object result = call.invoke(new Object[] {new
String("402883b9114739b301114754e8120008")});
```

This code requests XML-formatted information about the definition for a wiki entry.

- The operation table for the Windows based facade-client.bat program (Appendix B. "Deprecated Web Service Operations," on page 133)
- addFolderEntry (page 136)
- getDefinitionConfigAsXML (page 143)

getDefinitionConfigAsXML

Returns information about all configuration definitions. (V1—V1.0.3)

Syntax

public String getDefinitionConfigAsXML();

Description

The getDefinitionConfigAsXML operation returns information about all configuration definitions. The configuration information does not include workflow or template definitions. You can uses the returned information to extract the definition identifier for a given entry type to use in a subsequent call to addFolderEntry.

Return Value

return_value

A string of XML whose elements describe all configuration definitions.

Example

```
call.setOperationName(new QName("getDefinitionConfigAsXML"));
Object result = call.invoke();
```

This code obtains information about all configuration settings.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- addFolderEntry (page 136)

getDefinitionListAsXML

Returns metadata for all definitions in the installation. (V1.0.3)

Syntax

public String getDefinitionListAsXML ();

Description

The getDefinitionListAsXML operation returns metadata for all definitions in the installation. This metadata includes information such as the definition name and identifier.

When using other Web services operations that require a definition identifier, you can use this message, parse the XML for the name (discussion, blog, calendar, comment), and obtain the 32character, hexadecimal identifier that maps to the desired object.

Return Value

return_value

A string of XML whose elements contain metadata for all definitions in the installation.

Example

```
call.setOperationName(new QName("getDefinitionListAsXML"));
Object result = call.invoke();
```

This code obtains metadata for all definitions in the installation.

See Also

• The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)

getFolderEntriesAsXML

Returns a string containing XML providing summary information about entries in a folder. (V1-V1.0.3)

Syntax

public String getFolderEntriesAsXML(long folderId);

Description

The getFolderEntriesAsXML operation returns XML elements containing summary information about each entry in the specified folder.

Parameter and Return Value

folderId

The binder identifier of the folder containing the entries for which you want information.

return value

A string containing XML elements containing summary information for each entry in the folder specified by folderId.

Example

```
call.setOperationName(new QName("getFolderEntriesAsXML"));
Object result = call.invoke(new Object[] {new Long(21)});
```

This code returns a string containing XML information for all of the entries in the folder whose binder identifier is 21.

See Also

getFolderEntryAsXML

Returns information about one entry in a folder. (V1—V1.0.3)

Syntax 1 4 1

public String getFolderEntryAsXML(long *folderId*, long *entryId*, boolean *includeAttachments*);

Description

The getFolderEntryAsXML operation returns XML whose elements provide information about one entry in a folder.

Parameters and Return Value

folderId

The binder identifier of the folder containing the entry whose information you want.

entryId

The identifier of the entry whose information you want.

includeAttachments

A boolean value that indicates whether you want Teaming to return the entry's attachments. The client program is responsible for placement of attachment files on its local system.

return value

A string containing XML elements for the requested entry.

Example

```
call.setOperationName(new QName("getFolderEntryAsXML"));
Object result = call.invoke(new Object[] {new Long(21), new Long(34), new
Boolean.FALSE });
```

This code returns XML that includes information contained in entry number 34 in the folder whose identifier is 21. Because of the value of the last parameter, Teaming does not place the entry's file attachments in the client program's source directory.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- Section 1.7.4, "Fetching Attachments," on page 18

getPrincipalAsXML

Returns information about one user or group. (V1—V1.0.3)

Syntax 1 4 1

public String getPrincipalAsXML(long binderId, long principalId);

Description

The getPrincipalAsXML operation returns XML whose elements provide information about one registered user or defined group.

Parameters and Return Value

binderId

The binder identifier of the principal's parent workspace. The information returned by getAllPrincipalsAsXML includes the binder number of this containing workspace.

principalId

The identifier that maps to the user or group for which you want to gather information.

return value

A string containing XML elements whose elements provide information about the specified user or group.

Example

```
call.setOperationName(new QName("getPrincipalAsXML"));
Object result = call.invoke(new Object[] {new Long(2), new Long(25)});
```

This code returns information about a user or group, whose parent workspace has a binder identifier of 2 and whose principal identifier is 25.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getAllPrincipalsAsXML (page 141)

getTeamMembersAsXML

Returns information about all team members assigned within a workspace or folder. (V1—V1.0.3)

Syntax 1 4 1

public String getTeamMembersAsXML(long binderId);

Description

The getTeamMembersAsXML operation returns XML that names members of a team assigned within the specified workspace or folder.

Parameter and Return Value

binderId

The binder identifier of the workspace or folder for which you want information about team members. The getTeamsAsxML operation returns information about all workspaces and folders that have assigned teams.

return_value

A string containing XML elements describing team members for the specified place.

Example

```
call.setOperationName(new QName("getTeamMembersAsXML"));
Object result = call.invoke(new Object[] {new Long(23));
```

This code returns an XML string whose elements describe all of the team members assigned in the workspace or folder associated with the binder identifier of 23.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getTeamsAsXML (page 149)

getTeamsAsXML

Returns information about all workspaces and folders that have assigned teams. (V1—V1.0.3)

Syntax

public String getTeamsAsXML();

Description

The getTeamsAsxML operation returns an XML string providing information about all workspaces and folders that have assigned teams. You can use this operation to obtain the list of places that have assigned teams, note a binder number of a particular place, and then use the getTeamMembersAsXML operation to obtain the list of team members for that place.

Return Value

return_value

An XML string whose elements describe workspaces and folders that have assigned teams.

Example

```
call.setOperationName(new QName("getTeamsAsXML"));
Object result = call.invoke();
```

This code returns information about all places in the Teaming installation that have assigned teams.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getTeamMembersAsXML (page 148)

getWorkspaceTreeAsXML

Returns information needed to construct the Teaming workspace and folder tree. (V1-V1.0.3)

Syntax

public String getWorkspaceTreeAsXML(long binderId, int levels, String page);

Description

The getWorkspaceTreeAsXML operation returns XML elements needed to construct the requested portion of the Teaming workspace tree.

Parameters and Return Value

binderId

The binder identifier of the starting node of the returned portion of the hierarchy. The top workspace in the Teaming tree has a binder identifier of 1.

levels

The number of hierarchical levels down from the node specified by binderId that you want to include in the returned information. The value -1 indicates that you want all subsequent levels.

page

A parameter used to expand pages of binders. When you specify a valid page identifier, Teaming expands the page by the levels indicated in the levels parameter.

If you do not want to expand pages using this call, pass null as this parameter.

The Web-services overview topic contains more detailed information about working with pages (Section 1.7.6, "Binder Pages and search getWorkspaceTreeAsXML," on page 18).

return value

A string containing XML elements needed to construct each node within the requested levels of the workspace hierarchy.

Example

```
call.setOperationName(new QName("getWorkspaceTreeAsXML"));
Object result = call.invoke(new Object[] {new Long(1), new Integer(3), null});
```

This code returns a string containing XML information for the first three levels of the workspace hierarchy. The following depicts these levels using default workspace titles:

```
Level 1: Workspaces
     Level 2: Global, Personal, and Team workspaces
          Level 3: Children of Global, Personal, and Team
```

The children of Global workspaces, Personal workspaces, and Team workspaces can be either workspaces or folders.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- Section 1.7.6, "Binder Pages and search_getWorkspaceTreeAsXML," on page 18

indexFolder

Indexes a folder. (V1.0.3)

Syntax

public void indexFolder(long folderId);

Description

The indexFolder operation indexes a folder.

The primary use of this operation is to index data after you migrate it from SiteScape Forum into Teaming. (The migration operations transfer the data but do not index it.)

Parameter

folderId

The binder identifier of the folder you want to index.

Example

```
call.setOperationName(new QName("indexFolder"));
Object result = call.invoke(new Object[] {new Long(21)});
    This indexes the folder whose binder identifier is 21.
```

See Also

migrateBinder

Creates a new workspace or folder while preserving SiteScape Forum data. (V1.0.3)

Syntax 1 4 1

public long migrateBinder (long parentId, String definitionId, String inputDataAsXML, String *creator*, Calendar *creationDate*, String *modifier*, Calendar *modificationDate*);

Description

The migrateBinder operation creates a workspace or folder in Teaming that preserves values from a SiteScape Forum installation (for example, the name of the person who created the item in Forum, the Forum creation date, the person who last modified the item in Forum, and the date of the last modification in Forum).

Parameters and Return Value

parentId

The binder identifier of the parent of the newly created workspace or folder.

definitionId

The 32-character, hexadecimal identifier that maps to the type of workspace or folder to be created.

You can use the getDefinitionListAsXML operation to get metadata for all definitions. Then, you can parse the XML string for the definition identifier of the type of workspace or folder you want to create.

inputDataAsXML

A string of XML supplying the elements and values needed to construct the workspace or folder you want to create.

creator

A string containing the username of the person who created the corresponding workspace or folder in the Forum installation.

creationDate

Calendar data specifying the date when the corresponding workspace or folder was created in Forum.

modifier

A string containing the username of the person who last modified the corresponding workspace or folder in Forum.

modification Date

Calendar data specifying the date when the corresponding workspace or folder was modified in Forum.

return_value

The binder identifier of the newly created workspace or folder.

Example

```
call.setOperationName(new QName("migrateBinder"));
Object result = call.invoke(new Object[] {new Long(21), def, input, new
String("JSmith"), createcal, new String("JGarces"), modcal});
```

This code creates a new binder determined by the definition in the def variable (use the getDefinitionListAsXML operation to obtain the correct string for your binder type), and the binder will be a child of the binder whose identifier is 21. The input variable contains an XML string, properly formatted for your binder type, which Teaming uses to create binder content. The remaining four parameters provide names (literals) and dates (the createcal and modcal variables) for the creation and last modification of the corresponding item in the Forum installation.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getDefinitionListAsXML (page 144)

migrateEntryWorkflow

Associates an entry with a workflow process while preserving SiteScape Forum data. (V1.0.3)

Syntax 1 4 1

public void migrateEntryWorkflow (long binderId, long entryId, String definitionId, String *startState*, String *modifier*, Calendar *modificationDate*);

Description

The migrateEntryWorkflow operation associates a workflow process with an entry in Teaming. while preserving values from a SiteScape Forum installation (for example, the state to which the entry should be set, the person who last changed workflow state in Forum, and the date of the last state change in Forum).

Parameters and Return Value

binderId

The binder identifier of the folder that contains the entry to which you want to associate a workflow process.

entryId

The entry identifier of the entry to which you want to associate a workflow process.

definitionId

The 32-character, hexadecimal identifier that maps to the workflow-process definition.

Before using this message, you must replicate the Forum workflow processes in Teaming.

startState

The current state of the Teaming entry (which would reflect its last state in Forum).

modifier

A string containing the username of the person who last changed the workflow process in Forum.

modificationDate

Calendar data specifying the date when the workflow process was last changed in Forum.

Example

```
call.setOperationName(new QName("migrateEntryWorkflow"));
Object result = call.invoke(new Object[] {new Long(21), new Long(45),
String("ptoProcess"), String("PTO Request"), new String("JGarces"), modcal});
```

This code associates the ptoProcess workflow process with the entry whose identifier is 45 and which is located in a folder whose binder identifier is 21. The entry should be placed in the PTO Request state. The operation also provides the name of the person who last changed the workflow state in Forum and the date when that state change occurred.

See Also

migrateFolderEntry

Creates a new folder entry while preserving SiteScape Forum data. (V1.0.3)

Syntax 1 4 1

public void migrateFolderEntry (long binderId, String definitionId, String inputDataAsXML, String *creator*, Calendar *creationDate*, String *modifier*, Calendar *modificationDate*);

Description

The migrateFolderEntry operation creates a folder entry in Teaming that preserves values from a SiteScape Forum installation (for example, the name of the person who created the item in Forum, the Forum creation date, the person who last modified the item in Forum, and the date of the last modification in Forum).

When creating entries within a file folder in Teaming, use this operation to create the entry, and then use either migrateFolderFile or migrateFolderFileStaged to attach the file to the entry.

Parameters and Return Value

binderId

The binder identifier of the folder to contain the new entry.

definitionId

The 32-character, hexadecimal identifier that maps to the type of entry to be created.

The easiest way to work with definition identifiers for entries is to specify null for this value. When you specify null, Teaming automatically applies the definition identifier for the default entry type of the folder in which you are creating a new entry. For example, by default, you want to create an entry in a blog folder. If you pass null as the definition identifier, Teaming automatically applies the definition identifier for a blog entry.

As another option, you can use the getDefinitionListAsXML operation to get metadata for all definitions. Then, you can parse the XML string for the definition identifier of the type of workspace or folder you want to create.

inputDataAsXML

A string of XML supplying the elements and values needed to construct the type of entry you want to create.

creator

A string containing the username of the person who created the corresponding entry in the Forum installation.

creationDate

Calendar data specifying the date when the corresponding entry was created in Forum.

modifier

A string containing the username of the person who last modified the corresponding entry in Forum.

modificationDate

Calendar data specifying the date when the corresponding entry was modified in Forum.

return_value

The entry identifier of the newly created entry.

Example

```
call.setOperationName(new QName("migrateFolderEntry"));
Object result = call.invoke(new Object[] {new Long(21), def, input, new
String("JSmith"), createcal, new String("JGarces"), modcal});
```

This code creates a new entry of the type determined by the definition in the def variable (use the getDefinitionListAsXML operation to obtain the correct string for your entry type), and the new entry is to be located in the binder whose identifier is 21. The input variable contains an XML string, properly formatted for your entry type, which Teaming uses to create entry content. The remaining four parameters provide names (literals) and dates (the createcal and modcal variables) for the creation and last modification of the corresponding entry in the Forum installation.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- getDefinitionListAsXML (page 144)
- migrateFolderEntry (page 157)
- migrateFolderFileStaged (page 161)

migrateFolderFile

Attaches a file to an entry while preserving SiteScape Forum data. (V1.0.3)

Syntax

public void migrateFolderFile (long binderId, long entryId, String fileUploadDataItemName, String filename, String *modifier*, Calendar *modificationDate*);

Description

The migrateFolderFile operation attaches a file to a folder entry in Teaming that preserves values from a SiteScape Forum installation (for example, the person who last modified the item in Forum, and the date of the last modification in Forum).

Parameters and Return Value

binderId

The binder identifier of the folder that contains the entry to which you want to attach a file.

entryId

The entry identifier of the entry to which you want to attach the file.

fileUploadDataItemName

The internal-use name used by the database to identify the file as an element of an entry.

For example, a Forum custom command allowed for uploading different files into a single entry that served different functions, such as an expense report, a meeting presentation, and so on. These custom file uploads have associated internal-use names that are different than the reserved internal-use name applied to standard file entries or standard attachments.

If you are migrating to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

filename

The name of the file to be attached to the entry.

modifier

A string containing the username of the person who last modified the corresponding file in Forum.

modificationDate

Calendar data specifying the date when the corresponding file was modified in Forum.

Example

```
call.setOperationName(new QName("migrateFolderFile"));
Object result = call.invoke(new Object[] {new Long(21), new Long(45),
String(" budgetReport"), String("budget-report.xls"), new String("JGarces"),
modcal});
```

This code attaches the budget-report.xls file to the entry whose identifier is 45 and is located in a folder whose binder identifier is 21. The internal-use name that maps to the file as an element in the entry is budgetReport. The operation also provides the name of the person who modified the file in Forum and the date when that modification occurred.

See Also

migrateFolderFileStaged

Locates a locally stored file, and attaches it to an entry while preserving Forum data. (V1.0.3)

Syntax 1 4 1

public void migrateFolderFileStaged (long binderId, long entryId, String fileUploadDataItemName, String filename, String stagedFileRelativePath, String modifier, Calendar *modificationDate*);

Description

The migrateFolderFileStaged accesses a Forum file that has been copied locally on the Teaming server as a way to streamline the transfer of files, avoiding transferring them over the Internet. The operation then attaches the file to a folder entry in Teaming that preserves values from a SiteScape Forum installation (for example, the person who last modified the item in Forum, and the date of the last modification in Forum).

Parameters and Return Value

binderId

The binder identifier of the folder that contains the entry to which you want to attach a file.

entryId

The entry identifier of the entry to which you want to attach the file.

fileUploadDataItemName

The internal-use name used by the database to identify the file as an element of an entry.

For example, a Forum custom command allowed for uploading different files into a single entry that served different functions, such as an expense report, a meeting presentation, and so on. These custom file uploads have associated internal-use names that are different than the reserved internal-use name applied to standard file entries or standard attachments.

If you are migrating to a folder file, specify upload as an argument to this parameter to make this attachment the primary file for the entry.

filename

The name of the file to be attached to the entry.

stagedFileRelativePath

The relative path specification, beginning with the staging area designated in the ssf.properties and ssf-ext.properties files on the Teaming server. (See the installation guide for more information about these files.)

Although the files can be present in any folder structure within the staging area, one streamlined way to approach this task is to unzip the Forum hidden directory into the staging area. Then, use this parameter to specify the relative path through the hidden folder structure to the location of the file to be attached to the entry in Teaming.

modifier

A string containing the full name of the person who last modified the corresponding file in Forum.

modificationDate

Calendar data specifying the date when the corresponding file was modified in Forum.

Example

```
call.setOperationName(new QName("migrateFolderFileStaged"));
Object result = call.invoke(new Object[] {new Long(21), new Long(45),
String(" budgetReport"), String("budget-report.xls"), String("hidden/ssf/
myworkspace/myforum/4567849"), new String("JGarces"), modcal});
```

To locate the file, Teaming begins with the defined staging folder and then applies the relative path hidden/ssf/myworkspace/myforum/456789. This code attaches the budgetreport.xls file to the entry whose identifier is 45 and is located in a folder whose binder identifier is 21. The internal-use name that maps to the file as an element in the entry is budgetReport. The operation also provides the name of the person who modified the file in Forum and the date when that modification occurred.

See Also

migrateReply

Creates a new comment while preserving SiteScape Forum data. (V1.0.3)

Syntax 1 4 1

public void migrateReply (long binderId, long parentId, String definitionId, String inputDataAsXML, String creator, Calendar creationDate, String modifier, Calendar *modificationDate*);

Description

The migrateReply operation creates a comment in Teaming that preserves values from a SiteScape Forum installation (for example, the name of the person who created the item in Forum, the Forum creation date, the person who last modified the item in Forum, and the date of the last modification in Forum).

Parameters and Return Value

binderId

The binder identifier of the folder that will contain the new comment.

parentId

The binder identifier of the entry or comment to which you want to apply the new comment.

definitionId

The 32-character, hexadecimal identifier that maps to the type of comment to be created.

You can use the getDefinitionListAsXML operation to get metadata for all definitions. Then, you can parse the XML string for the definition identifier of the type of comment you want to create.

inputDataAsXML

A string of XML supplying the elements and values needed to construct the type of comment you want to create.

creator

A string containing the username of the person who created the corresponding reply in the Forum installation.

creationDate

Calendar data specifying the date when the corresponding reply was created in Forum.

modifier

A string containing the username of the person who last modified the corresponding reply in Forum.

modificationDate

Calendar data specifying the date when the corresponding reply was modified in Forum.

return_value

The entry identifier of the newly created comment.

Example

```
call.setOperationName(new QName("migrateReply"));
Object result = call.invoke(new Object[] {new Long(21), new Long(45), def,
input, new String("JSmith"), createcal, new String("JGarces"), modcal});
```

This code creates a new comment of the type determined by the definition in the def variable (use the getDefinitionListAsXML operation to obtain the correct string for your comment type). The new comment is to be located in the binder whose identifier is 21, and applied to an entry or comment whose identifier is 45. The input variable contains an XML string, properly formatted for your comment type, that Teaming uses to create comment content. The remaining four parameters provide names (literals) and dates (the createcal and modcal variables) for the creation and last modification of the corresponding reply in the Forum installation.

See Also

modifyFolderEntry

Modifies a single entry. (V1—V1.0.3)

Syntax

public void modifyFolderEntry(long *folderId*, long *entryId*, String *inputDataAsXML*);

Description

The modifyFolderEntry operation modifies one entry in a folder.

Parameters and Return Value

folderId

The binder identifier of the folder that contains the entry to be modified.

entryId

The identifier of the entry to be modified.

inputDataAsXML

A string of XML containing the values needed to modify the entry.

return_value

None.

Example

```
call.setOperationName(new QName("modifyFolderEntry"));
Object result = call.invoke(new Object[] {new Long(21), new Long(43), s});
```

This code modifies entry 43 in the folder whose binder ID is 21. The variable s contains XML elements needed by Teaming to modify the contents of the entry.

See Also

setDefinitions

Establishes workflow-entry associations for a folder. (V1.0.3)

Syntax 1 4 1

public void migrateEntryWorkflow (long binderId, String[] definitionIds, String[] workflowAssociations);

Description

The setDefinitions operation uses two arrays to associate workflow identifiers with entry identifiers for a folder. (Teaming associates identifiers in the first element of both arrays, the second element of both arrays, the third, and so on.)

When an entry is associated with a workflow process, creation of an entry of that type automatically places the entry into the initial state of the workflow process.

NOTE: This operation is an overwrite operation, setting all workflow associations for the folder; you cannot use repeated calls to this operation to set associations incrementally. So, set all of the workflow associations for the folder with one call.

Parameters and Return Value

binderId

The binder identifier of the folder in which you want to associate entry and workflow identifiers.

definitionIds

An array of entry identifiers.

workflowAssociations

An array of workflow identifiers.

Before using this message, you must replicate the Forum workflow processes in Teaming.

Example

```
call.setOperationName(new QName("setDefinitions"));
Object result = call.invoke(new Object[] {new Long(21), entries, workflows});
```

This code passes two array variables, entries and workflows. Teaming uses the corresponding elements in both arrays to create entry-workflow associations for the folder whose binder identifier is 21.

See Also

setFunctionMembership

Applies access-control settings to a folder or workspace. (V1—V1.0.3)

Syntax 5 4 1

public void setFunctionMembership(long binderId, String inputDataAsXML);

Description

The setFunctionMembership operation provides access-control settings for folder or a workspace. The term function is analogous to a role in the user interface (UI).

The primary use of this operation is to establish access-control settings when migrating workspaces and folders from Forum to Teaming. You must ensure that you have migrated Forum user and group names to Teaming that are required for your access-control settings.

NOTE: This operation is an overwrite operation, setting all function memberships for the folder or workspace; you cannot use repeated calls to this operation to set memberships incrementally. So, set all memberships for the workspace or folder with one call.

Parameters and Return Value

binderId

The binder identifier of the folder or workspace for which you want to set access control.

inputDataAsXML

A string of XML containing the values needed to set access control. Here is an example of XML that sets the visitor function:

```
<workAreaFunctionMemberships>
<workAreaFunctionMembership>
cproperty name="functionName"> role.visitor</property>
cproperty name="memberName">jGarces
cproperty name="memberName">sChen</property>
property name="members">1,2,3
</workAreaFunctionMembership>
</workAreaFunctionMemberships>
```

To obtain the functionName value:

- 1. Sign in as a site administrator for Teaming.
- 2. In the administration portlet, click *Configure role definitions*.

- 3. Click any item (for example, *Participant*).
- 4. Note or copy the identifier in the *Role Name* text box (for example, role.participant). This identifier begins with a double underscore (_).

You can pass either user or group names (for example, jGarces or sChen) or user or group identifiers (for example, 1, 2, 3). Teaming reserves the identifiers -1 for the workspace or folder owner, and -2 for a team member.

Example

```
call.setOperationName(new QName("setFunctionMembership"));
Object result = call.invoke(new Object[] {new Long(21), s});
```

This code uses the content of the XML string s to establish access-control settings for the folder or workspace whose binder identifier is 21.

See Also

setFunctionMembershipInherited

Establishes inheritance as the access-control mechanism for a folder or workspace. (V1.0.3)

Syntax

public void setFunctionMembershipInherited(long binderId, boolean inherit);

Description

The setFunctionMembershipInherited operation allows you to establish that a folder or workspace is to inherit its access-control settings from the parent binder. The primary purpose of this operation is to set inheritance for folders and workspaces that you migrate from Forum.

Parameters and Return Value

binderId

The binder identifier of the folder or workspace for which you want to establish inheritance for its access-control settings.

inherit

A boolean value that determines whether the folder or workspace uses inheritance to establish its access settings.

Example

```
call.setOperationName(newQName("setFunctionMembershipInherited"));
Object result = call.invoke(new Object[] {new Long(21), new Boolean.TRUE});
    This code establishes inheritance as the access-control mechanism for the folder or workspace
```

whose binder identifier is 21.

See Also

setOwner

Establishes the owner of a folder or workspace. (V1.0.3)

Syntax

public void setOwner(long binderId, long userId);

Description

The setOwner operation allows you to establish an owner for a folder or workspace. The primary purpose of this operation is to mirror Forum ownership as you migrate folders and workspaces.

Parameters and Return Value

binderId

The binder identifier of the folder or workspace for which you want to establish ownership.

userId

The user identifier of the person whom you want to be the owner of a folder or workspace.

Example

```
call.setOperationName(new QName("setOwner"));
Object result = call.invoke(new Object[] {new Long(21), new Long(345)});
```

This code establishes the user whose identifier is 345 as the owner of the folder or workspace whose binder identifier is 21.

See Also

setTeamMembers

Establishes the membership of a team for a folder or workspace. (V1.0.3)

Syntax

public void setTeamMembers(long binderId, String[] memberNames);

Description

The setTeamMembers operation establishes the members of a team for a folder or workspace.

Parameters and Return Value

binderId

The binder identifier of the folder or workspace for which you want to establish team membership.

memberNames

An array containing the names of all team members for the folder or workspace.

Example

```
call.setOperationName(new QName("setTeamMembers"));
Object result = call.invoke(new Object[] {new Long(21), users});
```

This code establishes each username in the array users as team members for the folder or workspace whose binder identifier is 21.

See Also

synchronizeMirroredFolder

Synchronizes the mirrored folder with the folder on the external drive. (V1.0.3)

Syntax

public void synchronizeMirroredFolder(long binderId);

Description

The synchronizeMirroredFolder operation synchronizes a mirrored folder with the corresponding file on the external drive. A new mirrored folder does not synchronize with its external drive until a synchronization occurs manually in the user interface (UI) or using this message.

Parameters and Return Value

binderId

The binder identifier of the mirrored file that you want to synchronize with its external drive.

Example

```
call.setOperationName (new QName ("synchronizedMirroredFolder"));
Object result = call.invoke(new Object[] {new Long(21)});
```

This code synchronizes with its external drive the mirrored folder whose binder identifier is 21.

See Also

uploadCalendarEntries

Creates new calendar entries from a file. (V1—V1.0.3)

Syntax 1 4 1

public void uploadCalendarEntries(long *folderId*, String XMLCalendarData);

Description

The uploadCalendarEntries operation uses iCal information in an XML string or in an attachment to add entries to a calendar folder.

NOTE: The uploadCalendar command in the facade-client.bat batch file accepts two required parameters and an optional third parameter. The second parameter is a file containing XML that specifies iCal data. The third, optional parameter is an iCal formatted file. Both files must be located in the same directory as facade-client.bat. Again, if you want the iCal file to be the only source of data for newly created entries, place an empty XML document in the file specified as the second command parameter.

Parameters and Return Value

folderId

The binder identifier of the calendar folder that is to contain the new entries.

XMLCalendarData

A string containing XML formatted calendar data (<doc><entry>iCal data</entry>...</ doc>). If you wish to specify all of your calendar data in an iCal file attached to the message, pass an empty document for this string (<doc></doc>).

return value

None.

Example

```
call.setOperationName(new QName("uploadCalendarEntries"));
Object result = call.invoke(new Object[] {new Long(21), s});
```

This code creates new entries in the calendar folder whose binder ID is 21. Teaming uses XML-formatted iCal information contained in the s variable to create the new calendar entries.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- Section 1.7.5, "Adding Calendar Entries," on page 18

uploadFolderFile

Attaches a file to an entry to a folder. (V1—V1.0.3)

Syntax 5 4 1

public void uploadFolderFile(long folderId, String entryId, String fileUploadDataItemName, String attachedfileName);

Description

The uploadFolderFile operation attaches a file to an entry in a folder. You can attach only one file at a time; call this operation multiple times to attach more than one file to the entry. Files to be attached must be located in the same directory as the executing client.

Parameters and Return Value

folderId

The binder identifier of the folder that contains the entry to which you want to attach a file.

entryId

The identifier of the entry to which you want to attach a file.

fileUploadDataItemName

A string containing the internal identifier for the part of the entry that contains attached files. This identifier maps the name attribute of an input HTML tag on a form to the Teaming database; a hidden HTML tag communicates this mapping to the server.

The name value for the standard entry element containing attached files is ss attachFile1. If you want to upload a file into a custom form element you defined using the designers, you need to look up the name identifier for that form element (see also getDefinitionConfigAsXML or getFolderEntryAsXML).

attachedFileName

The name of the file you wish to attach to the new entry. This client is responsible for locating on its local system the file to be used as an attachment.

return value

None.

Example

```
call.setOperationName(new QName("uploadFolderFile"));
Object result = call.invoke(new Object[] {new Long(21), new Long(43), new
String("ss attachFile1"), filename);
```

This code attaches a file to entry 43 in the folder whose binder ID is 21. The name of the file to be attached to the entry is contained in the variable filename.

- The operation table for the Windows based facade-client.bat program (Appendix B, "Deprecated Web Service Operations," on page 133)
- Section 1.7.3, "Attaching Files," on page 17
- getDefinitionConfigAsXML (page 143)
- getFolderEntryAsXML (page 146)