



## CHAPTER 28

# RepositoryApp Service

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This chapter describes the DCNM web services' API methods for the RepositoryApp service.

## Information About RepositoryApp Service

This chapter defines the services exposed by the Repository API component of the DCNM server.

### abortCurrentProcess

This API will be usually called after invoking the API `getResultsFromConnection(OpContext, String)` to stop the current process running. Client can also invoke this API if the End of list is not reached after invoking `getFirstLevelFileNames(OpContext, String, String, String, Boolean)`, `getRecursivelyFileNames(OpContext, String, String, String, Boolean)`. This API will return a boolean value = true for successful abort.

#### Parameters

`opContext`—Operational context

`connectionId`—ConnectionId for which the current process has to be aborted

#### Return Value

True for successful abort, else false.

### createConnection

This API is used by the client to create a connection to the repository which is in the DB. Creates a connection to the give repository InstanceNameId. Generates a unique connection Id string. This is unique across each client connections, client can create multiple connection to a single repository server with unique connection Id. Returns this connectionId to the client.

#### Parameters

`opContext`—Operational context

`repositoryInstanceNameId`—Repository Instance name for which a connection has to be created

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**Return Value**

Returns a connection Id to the client. Client can use the same connection Id in successive Repository API calls on the same repository instead of new connection.

## createConnectionWithRepSvr

This API is used by the client to create a temporary connection by giving a dummy ServerRepository object. This API is usually called when client wants to connect to a repository which is not created earlier. Hence the client can create a connection using this API. Creates a connection to the repository in the given ServerRepository(rfp) information. Generates a unique connection Id string. This is unique across each client connections, client can create multiple connection to a single repository server with unique connection Id. Returns this connectionId to the client.

**Parameters**

opContext—Operational context

rfp—Information of the repository for which a connection has to be created

**Return Value**

Returns a connection Id to the client. Client can use the same connection Id in successive Repository API calls on the same repository instead of new connection.

## createRepositoryServers

Persist the repository information collection in DCNM server and returns the repository server collection itself. Since few properties will be manipulated and set in the server side. Client may require to know it.

**Parameters**

opContext—Operational context.

newRepLocationCol—Collection of Repository information to persist,

**Return Value**

Returns the repository server collection to the client.

## deleteConnection

Disconnect and remove the repository connection for the given connectionId from the DCNM server.

**Parameters**

opContext—Operational context

connectionId—ConnectionId for which the connection should be disconnected and remove from DCNM server.

**Return Value**

void

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## deleteConnectionUseRepSvr

This API is used by the client, if he wants the DCNM server to disconnect and remove all connections from the given set of server repositories. This will be likely used before the ServerRepository information is going to be modified. Disconnect and remove the repository connections for the given repository information from the DCNM server.

### Parameters

opContext—Operational context

repositoryCol—Repository information collection for which the connection has to be created and disconnected.

### Return Value

void

## deleteRepositoryFiles

This API deletes the given files on the given repository connection.

### Parameters

opContext—Operational context

connectionId—connection id of a repository

pathCol—File's path collection which are to be deleted on the repository(which is containing connectionId)

### Return Value

void

## deleteRepositoryServers

Removes the repository informations from the DCNM server for the given Repository instanceNameId collection.

### Parameters

opContext—Operational context.

repInstanceNameIdCol—Repository instance name collection for which repository information to be removed.

### Return Value

void

## getAllRepositoryServers

Retrieves all the repository information to the client.

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**Parameters**

opContext—Operational context.

**Return Value**

Repository information collection

## getFirstLevelFileNames

Returns the immediate file/directory names,its details under the given directory alone and filter is applied. For the retrieved file and directory names & details a List object is populated and returned.

If the given directory name is null, the retrieval of files names will be done from the repository's root directory.

if the given filter is null, all the retrieved file names are sent to client.

If the given filter is not null, the directory/file names are verified against the filter, if the verification is false, the directory/file names will be skipped. This API waits for few seconds for the result otherwise it returns the result got at that time. This API creates a background process for further result. Client can invoke `getResultsFromConnection(OpContext, String)` API for further results. The end of the result can be identified by a file which contains the name ":End:".

**Parameters**

opContext—Operational context

connectionId—ConnectionId for which the retrieval to be done from which repository

dir—dir is the directory, under which the file/directory names retrieval will be done.

filter—filter is applied on the retrieved directory and file names from repository

includeFileNames—Whether file names also will be retrieved or only directory names from repository

**Return Value**

Returns the List which is retrieved and populated from the repository for the given connectionId.

## getRecursivelyFileNames

Retrieve the file names,its details recursively from the given directory and filter is applied. For the retrieved file and directories details a List object is populated and returned.

If the given directory detail is null, the retrieval will be done from the repository's root directory.

if the given filter is null, all the retrieved file details are sent to client.

If the given filter is not null, the directory/file names are verified against the filter, if the verification is false, the directory/file information is skipped. This API waits for few seconds for the result otherwise it returns the result got at that time. This API creates a background process for further result. Client can invoke `getResultsFromConnection(OpContext, String)` API for further results. The end of the result can be identified by a file which contains the name ":End:".

**Parameters**

opContext—Operational context

connectionId—ConnectionId for which the retrieval to be done from which repository

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dir—dir is the directory, under which the file/directory names retrieval will be done.

filter—filter is applied on the retrieved directory and file names from repository

includeFileNames—Whether file names also will be retrieved or only directory names from repository

### **Return Value**

Returns the List which is retrieved and populated from the repository for the given connectionId.

## **getResultsFromConnection**

This API returns the accumulated result of the current process running or for the current connection. Client usually invoke this API if the End of list is not reached after invoking `getFirstLevelFileNames(OpContext, String, String, String, Boolean)`, `getRecursivelyFileNames(OpContext, String, String, String, Boolean)` This API will be invoked from a loop to get the result of the current process till End of list is reached. The End of List can be identified from a file which contains the name ':End:' in this result collection. This returns the result from the process and clears the same from it, since the successive invocation of this API wont return again the same result collection. The current process can be aborted by the API `abortCurrentProcess(OpContext, String)`

### **Parameters**

opContext—Operational context

connectionId—ConnectionId for which the retrieval to be done from which repository

### **Return Value**

Returns the List which is retrieved and populated from the repository for the given connectionId.

## **modifyRepositoryServers**

Modifies the given repository information collections in the DCNM server and returns the same collection.

### **Parameters**

opContext—Operational context

modRepLocationCol—Modified repository information collection.

### **Return Value**

Returns the modified repository information collection.

## **validateConnectivity**

This API is used to verify whether the Repository is able to connect and returns the appropriate message of the cause for connection failure.

### **Parameters**

opContext—Operational context

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repositoryCol—repository collection for which the connection has to be validated

**Return Value**

Returns the pair object collection, where a pair object holds the reference to the boolean attribute and a message string. Boolean attribute refers to the repository is able to get connected. Message String contains the information cause of the connection failure.