

## DBMS\_XDB\_REPOS

The `DBMS_XDB_REPOS` package provides an interface to operate on the Oracle XML database Repository.

This chapter contains the following topics:

- [Overview](#)
- [Security Model](#)
- [Constants](#)
- [Summary of DBMS\\_XDB\\_REPOS Subprograms](#)



### See Also:

Oracle XML DB Developer's Guide for more information regarding:

- Using and managing repository resources
- ACL-based security management (controlling access to repository resources)
- Managing XLink and XInclude links
- Loading documents into the repository
- Creating, deleting, and managing resource metadata

## DBMS\_XDB\_REPOS Overview

The `DBMS_XDB_REPOS` package lets you operate on the Oracle XML DB Repository to create, modify and delete resources, including managing security based on access control lists (ACLs). The interface provides both query and DML functions.

Using a combination of PL/SQL packages - `DBMS_XDB_REPOS`, [DBMS\\_XDBZ](#), and [DBMS\\_XDB\\_VERSION](#) - you can create, delete, and rename documents and folders, move a file or folder within the folder hierarchy, set and change the access permissions on a file or folder, and initiate and manage versioning.

## DBMS\_XDB\_REPOS Security Model

Owned by XDB, the `DBMS_XDB_REPOS` package must be created by `SYS` or `XDB`. The `EXECUTE` privilege is granted to `PUBLIC`. Subprograms in this package are executed using the privileges of the current user. Subprograms that operate on the XDB Configuration will succeed only if the current user is `SYS` or `XDB`, or the current user has the `XDBADMIN` or `DBA` role.

## DBMS\_XDB\_REPOS Constants

The `DBMS_XDB_REPOS` package defines several constants that can be used for specifying parameter values.

These constants are shown in the following table.

**Table 228-1 DBMS\_XDB\_REPOS Constants**

Constant	Type	Value	Description
<code>DELETE_RESOURCE</code>	NUMBER	1	Deletes a resource; fails if the resource has children.
<code>DELETE_RECURSIVE</code>	NUMBER	2	Deletes a resource and its children, if any.
<code>DELETE_FORCE</code>	NUMBER	3	Deletes the resource, even if the object it contains is invalid
<code>DELETE_RECURSIVE_FORCE</code>	NUMBER	4	Deletes a resource and its children, if any, even if the object it contains is invalid
<code>DELETE_RES_METADATA_CA SCADE</code>	NUMBER	1	Deletes the row in the metadata
<code>DELETE_RES_METADATA_NO CASCADE</code>	NUMBER	2	Does not delete the row
<code>DEFAULT_LOCK_TIMEOUT</code>	PLS_INTEGER	(60*60)	Timeout value (in seconds) of the webdav lock
<code>LINK_TYPE_HARD</code>	NUMBER	1	Hard link of a folder to a resource
<code>LINK_TYPE_WEAK</code>	NUMBER	2	Weak link of a folder to a resource
<code>LINK_TYPE_SYMBOLIC</code>	NUMBER	3	Symbolic link of a folder to a resource

## Summary of DBMS\_XDB\_REPOS Subprograms

This table lists the `DBMS_XDB_REPOS` subprograms and briefly describes them.

**Table 228-2 DBMS\_XDB\_REPOS Package Subprograms**

Subprogram	Description
<a href="#">ACLCHECKPRIVILEGES Function</a>	Checks access privileges granted to the current user by specified ACL document on a resource whose owner is specified by the 'owner' parameter.
<a href="#">APPENDRESOURCEMETADATA Procedure</a>	Takes in user-defined metadata either as a <code>REF</code> to <code>XMLTYPE</code> or an <code>XMLTYPE</code> and adds it to the desired resource
<a href="#">CHANGEOWNER Procedure</a>	Changes the owner of the resource/s to the specified owner.
<a href="#">CHANGEPRIVILEGES Function</a>	Adds a specified ACE to a specified resource's ACL
<a href="#">CHECKPRIVILEGES Function</a>	Checks access privileges granted to the current user on the specified resource
<a href="#">CREATEFOLDER Function</a>	Creates a new folder resource in the hierarchy
<a href="#">CREATEOIDPATH Function</a>	Creates a virtual path to the resource based on object ID

**Table 228-2 (Cont.) DBMS\_XDB\_REPOS Package Subprograms**

Subprogram	Description
<a href="#">CREATERESOURCE Functions</a>	Creates a new resource
<a href="#">DELETERESOURCE Procedure</a>	Deletes a resource from the hierarchy
<a href="#">DELETERESOURCEMETADATA Procedures</a>	Deletes metadata from a resource (can be used for schema-based or nonschema-based metadata)
<a href="#">EXISTSRESOURCE Function</a>	Determines if a resource is in the hierarchy, based on its absolute path
<a href="#">GETACLDOCUMENT Function</a>	Retrieves ACL document that protects resource given its path name
<a href="#">GETCONTENTBLOB Function</a>	Retrieves the contents of a resource returned as a BLOB
<a href="#">GETCONTENTCLOB Function</a>	Retrieves the contents of a resource returned as a CLOB
<a href="#">GETCONTENTVARCHAR2 Function</a>	Retrieves the contents of a resource returned as a string
<a href="#">GETCONTENTXMLREF Function</a>	Retrieves the contents of a resource returned as a <code>REF</code> to an <code>XMLTYPE</code>
<a href="#">GETCONTENTXMLTYPE Function</a>	Retrieves the contents of a resource returned as an <code>XMLTYPE</code>
<a href="#">GETLOCKTOKEN Procedure</a>	Returns that resource's lock token for the current user given a path to a resource
<a href="#">GETPRIVILEGES Function</a>	Gets all privileges granted to the current user on a specified resource
<a href="#">GETRESOID Function</a>	Returns the object ID of the resource from its absolute path
<a href="#">GETXDB_TABLESPACE Function</a>	Returns the current tablespace of the XDB (user)
<a href="#">HASBLOBCONTENT Function</a>	Returns <code>TRUE</code> if the resource has BLOB content
<a href="#">HASCHARCONTENT Function</a>	Returns <code>TRUE</code> if the resource has character content
<a href="#">HASXMLCONTENT Function</a>	Returns <code>TRUE</code> if the resource has XML content
<a href="#">HASXMLREFERENCE Function</a>	Returns <code>TRUE</code> if the resource has <code>REF</code> to XML content
<a href="#">ISFOLDER Function</a>	Returns <code>TRUE</code> if the resource is a folder or container
<a href="#">LINK Procedures</a>	Creates a link to an existing resource
<a href="#">LOCKRESOURCE Function</a>	Gets a WebDAV-style lock on that resource given a path to that resource
<a href="#">PROCESSLINKS Procedure</a>	Processes document links in the specified resource
<a href="#">PURGERESOURCEMETADATA Procedure</a>	Deletes all user metadata from a resource
<a href="#">RENAMERESOURCE Procedure</a>	Renames the XDB resource
<a href="#">SETACL Procedure</a>	Sets the ACL on a specified resource
<a href="#">SPLITPATH Procedure</a>	Splits the path into a parentpath and childpath
<a href="#">TOUCHRESOURCE Procedure</a>	Changes the modification time of the resource to the current time
<a href="#">UNLOCKRESOURCE Function</a>	Unlocks the resource given a lock token and resource path
<a href="#">UPDATERESOURCEMETADATA Procedures</a>	Updates metadata for a resource

## ACLCHECKPRIVILEGES Function

This function checks access privileges granted to the current user by specified ACL document by the `OWNER` of the resource. Returns positive integer if all privileges are granted.

### Syntax

```
DBMS_XDB_REPOS.ACLCHECKPRIVILEGES (
    acl_path IN VARCHAR2,
    owner    IN VARCHAR2,
    privs    IN xmltype)
RETURN PLS_INTEGER;
```

### Parameters

**Table 228-3** *ACLCHECKPRIVILEGES Function Parameters*

Parameter	Description
<code>acl_path</code>	Absolute path in the Hierarchy for ACL document
<code>owner</code>	Resource owner name; the pseudo user "DAV:owner" is replaced by this user during ACL privilege resolution
<code>privs</code>	An <code>XMLType</code> instance of the privilege element specifying the requested set of access privileges. See description for <a href="#">CHECKPRIVILEGES Function</a> .

## APPENDRESOURCEMETADATA Procedure

This procedure takes in user-defined metadata either as a `REF` to `XMLTYPE` or an `XMLTYPE` and adds it to the desired resource.

### Syntax

```
DBMS_XDB_REPOS.APPENDRESOURCEMETADATA (
    abspath IN VARCHAR2,
    metadata IN XMLTYPE);

DBMS_XDB_REPOS.APPENDRESOURCEMETADATA (
    abspath IN VARCHAR2,
    metadata IN REF SYS.XMLTYPE);
```

### Parameters

**Table 228-4** *APPENDRESOURCEMETADATA Procedure*

Parameter	Description
<code>abspath</code>	Absolute path of the resource
<code>metadata</code>	Metadata can be schema based or nonschema-based. Schema-based metadata is stored in its own table.

### Usage Notes

- In the case in which a `REF` is passed in, the procedure stores the `REF` in the resource, and the metadata is stored in a separate table. In this case you are responsible for populating the `RESID` column for the metadata table. Note that the `REF` passed in must be unique. In

other words, there must not be a `REF` with the same value in the resource metadata, as this would violate uniqueness of properties. An error is thrown if users attempt to add a `REF` that already exists.

- In the case where the `XMLTYPE` is passed in, the data is parsed to determine if it is schema-based or not and stored accordingly.

## CHANGEOWNER Procedure

This procedure changes the owner of the resource/s to the specified owner.

### Syntax

```
DBMS_XDB_REPOS.CHANGEOWNER(  
    abspath    IN    VARCHAR2,  
    owner      IN    VARCHAR2,  
    recurse    IN    BOOLEAN := FALSE);
```

### Parameters

**Table 228-5** CHANGEOWNER Procedure Parameters

Parameter	Description
<code>abspath</code>	Absolute path of the resource
<code>owner</code>	New owner for the resource
<code>recurse</code>	If <code>TRUE</code> , recursively change owner of all resources in the folder tree

## CHANGEPRIVILEGES Function

This function adds a specified ACE to a specified resource's ACL.

### Syntax

```
DBMS_XDB_REPOS.CHANGEPRIVILEGES(  
    res_path    IN    VARCHAR2,  
    ace         IN    xmltype)  
RETURN PLS_INTEGER;
```

### Parameters

**Table 228-6** CHANGEPRIVILEGES Function Parameters

Parameter	Description
<code>res_path</code>	Path name of the resource for which privileges need to be changed
<code>ace</code>	An <code>XMLType</code> instance of the <code>&lt;ace&gt;</code> element which specifies the <code>&lt;principal&gt;</code> , the operation <code>&lt;grant&gt;</code> and the list of privileges

### Return Values

A positive integer if the ACL was successfully modified.

### Usage Notes

If no ACE with the same principal and the same operation (*grant/deny*) already exists in the ACL, the new ACE is added at the end of the ACL.

## CHECKPRIVILEGES Function

This function checks access privileges granted to the current user on the specified resource.

### Syntax

```
DBMS_XDB_REPOS.CHECKPRIVILEGES (
    res_path  IN  VARCHAR2,
    privs     IN  xmltype)
RETURN PLS_INTEGER;
```

### Parameters

**Table 228-7 CHECKPRIVILEGES Function Parameters**

Parameter	Description
res_path	Absolute path in the Hierarchy for resource
privs	An <code>XMLType</code> instance of the privilege element specifying the requested set of access privileges

### Return Values

A positive integer if all requested privileges granted.

## CREATEFOLDER Function

This function creates a new folder resource in the hierarchy.

### Syntax

```
DBMS_XDB_REPOS.CREATEFOLDER (
    path  IN  VARCHAR2)
RETURN BOOLEAN;
```

### Parameters

**Table 228-8 CREATEFOLDER Function Parameters**

Parameter	Description
path	Path name for the new folder

### Return Values

`TRUE` if operation successful; `FALSE`, otherwise.

### Usage Notes

The given path name's parent folder must already exist in the hierarchy: if  `'/folder1/folder2'` is passed as the path parameter, then  `'/folder1'` must already exist.

## CREATEOIDPATH Function

This function creates a virtual path to the resource based on object ID.

### Syntax

```
DBMS_XDB_REPOS.CREATEOIDPATH (
    oid      IN   RAW)
RETURN VARCHAR2;
```

### Parameters

**Table 228-9 CREATEOIDPATH Function Parameters**

Parameter	Description
oid	Object ID of the resource

## CREATERESOURCE Functions

The functions create a new resource. The description of the overload options precede each version of the syntax

### Syntax

Creates a new resource with a specified string as its contents:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN   VARCHAR2,
    data         IN   VARCHAR2)
RETURN BOOLEAN;
```

Creates a new resource with a specified XMLType data as its contents:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN   VARCHAR2,
    data         IN   SYS.XMLTYPE)
RETURN BOOLEAN;
```

Given a REF to an existing XMLType row, creates a resource whose contents point to that row. That row should not already exist inside another resource:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN   VARCHAR2,
    datarow      IN   REF SYS.XMLTYPE)
RETURN BOOLEAN;
```

Creates a resource with a specified BLOB as its contents, and specifies character set of the source BLOB:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN   VARCHAR2,
    data         IN   BLOB,
    csid         IN   NUMBER :=0)
RETURN BOOLEAN;
```

Creates a resource with a specified BFILE as its contents, and specifies character set of the source BFILE:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN  VARCHAR2,
    data         IN  BFILE,
    csid         IN  NUMBER :=0)
RETURN BOOLEAN;
```

Creates a resource with a specified CLOB as its contents:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN  VARCHAR2,
    data         IN  CLOB)
RETURN BOOLEAN;
```

Given a string, inserts a new resource into the hierarchy with the string as the contents:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN  VARCHAR2,
    data         IN  VARCHAR2,
    schemaurl    IN  VARCHAR2 := NULL,
    elem         IN  VARCHAR2 := NULL)
RETURN BOOLEAN;
```

Given an XMLTYPE and a schema URL, inserts a new resource into the hierarchy with the XMLTYPE as the contents:

```
DBMS_XDB_REPOS.CREATERESOURCE (
    abspath      IN  VARCHAR2,
    data         IN  SYS.XMLTYPE,
    schemaurl    IN  VARCHAR2 := NULL,
    elem         IN  VARCHAR2 := NULL)
RETURN BOOLEAN;
```

## Parameters

**Table 228-10** CREATERESOURCE Function Parameters

Parameter	Description
abspath	Absolute path of the resource to create. The path name's parent folder must already exist in the hierarchy. In other words, if <code>/foo/bar.txt</code> is passed in, then folder <code>/foo</code> must already exist.
data	String buffer containing new resource's contents. The data is parsed to check if it contains a schema-based XML document, and the contents are stored as schema-based in the schema's default table. Otherwise, it is saved as binary data.
datarow	REF to an XMLType row to be used as the contents
csid	Character set id of the document. Must be a valid Oracle ID; otherwise returns an error.  If CSID is not specified, or if a zero CSID is specified, then the character set id of the document is determined as follows: <ul style="list-style-type: none"> <li>From the abspath extension, determine the resource's MIME type.</li> <li>If the MIME type is <code>*/xml</code>, then the encoding is detected based on Appendix F of the W3C XML 1.0 Reference at <a href="http://www.w3.org/TR/2000/REC-xml-20001006">http://www.w3.org/TR/2000/REC-xml-20001006</a>;</li> <li>Otherwise, it is defaulted to the database character set.</li> </ul>
schemaurl	For XML data, schema URL data conforms to (default NULL)
elem	Element name (default NULL)



## Return Values

TRUE if operation successful; FALSE, otherwise.

# DELETERESOURCE Procedure

This procedure deletes a resource from the hierarchy.

## Syntax

```
DBMS_XDB_REPOS.DELETERESOURCE (
    path          IN      VARCHAR2,
    delete_option IN      PLS_INTEGER);
```

## Parameters

**Table 228-11 DELETERESOURCE Procedure Parameters**

Parameter	Description
path	Path name of the resource to delete
delete_option	The option that controls how a resource is deleted: <ul style="list-style-type: none"> <li>DELETE_RESOURCE</li> <li>DELETE_RECURSIVE</li> <li>DELETE_FORCE</li> <li>DELETE_RECURSIVE_FORCE</li> </ul>

# DELETERESOURCEMETADATA Procedures

This procedure takes in a resource by absolute path and removes either the schema-based metadata identified by the REF, or the metadata identified by the namespace and name combination, which can be either schema-based or non-schema based. It also takes an additional (optional) parameter that specifies how to delete it. This parameter is only relevant for schema-based resource metadata that needs to be deleted. For non-schema based metadata, this parameter is ignored.

## Syntax

Can be used only for schema-based metadata:

```
DBMS_XDB_REPOS.DELETERESOURCEMETADATA (
    abspath      IN  VARCHAR2,
    metadata     IN  REF SYS.XMLTYPE,
    delete_option IN pls_integer := DBMS_XDB_REPOS.DELETE_RESOURCE_METADATA_CASCADE);
```

Can be used for schema-based or nonschema-based metadata:

```
DBMS_XDB_REPOS.DELETERESOURCEMETADATA (
    abspath      IN  VARCHAR2,
    metadatans   IN  VARCHAR2,
    metadataname IN  VARCHAR2,
    delete_option IN pls_integer := DBMS_XDB_REPOS.DELETE_RESOURCE_METADATA_CASCADE);
```

## Parameters

**Table 228-12 DELETERESOURCEMETADATA Procedure Parameters**

Parameter	Description
abspath	Absolute path of the resource
metadata	REF to the piece of metadata (schema based) to be deleted
mettadatans	Namespace of the metadata fragment to be removed
mettadataname	Local name of the metadata fragment to be removed
delete_option	Only applicable for schema-based metadata, this can be one of the following: <ul style="list-style-type: none"><li>DELETE_RES_METADATA_CASCADE - deletes the corresponding row in the metadata table</li><li>DELETE_RES_METADATA_NOCASCADE - does not delete the row in the metadata table</li></ul>

## EXISTSRESOURCE Function

This function indicates if a resource is in the hierarchy. It matches the resource by a string that represents its absolute path.

### Syntax

```
DBMS_XDB_REPOS.EXISTSRESOURCE(  
    abspath    IN    VARCHAR2)  
RETURN BOOLEAN;
```

### Parameters

**Table 228-13 EXISTSRESOURCE Function Parameters**

Parameter	Description
abspath	Path name of the resource whose ACL document is required

### Return Values

TRUE if the resource is found.

## GETACLDOCUMENT Function

This function retrieves ACL document that protects resource given its path name.

### Syntax

```
DBMS_XDB_REPOS.GETACLDOCUMENT(  
    abspath    IN    VARCHAR2)  
RETURN sys.xmltype;
```

## Parameters

**Table 228-14 GETACLDOCUMENT Function Parameters**

Parameter	Description
abspath	Path name of the resource whose ACL document is required

## Return Values

The XMLType for ACL document.

# GETCONTENTBLOB Function

This function retrieves the contents of a resource returned as a BLOB.

## Syntax

```
DBMS_XDB_REPOS.GETCONTENTBLOB(  
    abspath    IN    VARCHAR2,  
    csid       OUT   PLS_INTEGER,  
    locksrc    IN    BOOLEAN := FALSE)  
RETURN BLOB;
```

## Parameters

**Table 228-15 GETCONTENTBLOB Function Parameters**

Parameter	Description
abspath	Absolute path of the resource
csid	If TRUE, lock and return the source LOB. If FALSE, return a temp LOB copy.
locksrc	Contents of the resource as a BLOB

## Return Values

The contents of the resource as a BLOB.

# GETCONTENTCLOB Function

This function gets the contents of a resource returned as a CLOB.

## Syntax

```
DBMS_XDB_REPOS.GETCONTENTCLOB(  
    abspath    IN    VARCHAR2,  
    RETURN CLOB;
```

## Parameters

**Table 228-16** GETCONTENTCLOB Function Parameters

Parameter	Description
abspath	Absolute path of the resource

## Return Values

The contents of the resource as a CLOB.

# GETCONTENTVARCHAR2 Function

This function gets the contents of a resource returned as a string.

## Syntax

```
DBMS_XDB_REPOS.GETCONTENTVARCHAR2(  
    abspath IN VARCHAR2,  
    RETURN BLOB;
```

## Parameters

**Table 228-17** GETCONTENTVARCHAR2 Function Parameters

Parameter	Description
abspath	Absolute path of the resource

## Return Values

The contents of the resource as a string.

# GETCONTENTXMLREF Function

This function retrieves the contents of a resource returned as a `REF` to an `XMLTYPE`.

## Syntax

```
DBMS_XDB_REPOS.GETCONTENTXMLREF(  
    abspath IN VARCHAR2,  
    RETURN SYS.XMLTYPE;
```

## Parameters

**Table 228-18** GETCONTENTXMLREF Function Parameters

Parameter	Description
abspath	Absolute path of the resource

## Return Values

The contents of the resource as a `REF` to an `XMLTYPE`.

## GETCONTENTXMLTYPE Function

This function retrieves the contents of a resource returned as an `XMLTYPE`.

### Syntax

```
DBMS_XDB_REPOS.GETCONTENTXMLTYPE (  
    abspath      IN      VARCHAR2,  
    RETURN SYS.XMLTYPE;
```

### Parameters

**Table 228-19 GETCONTENTXMLTYPE Function Parameters**

Parameter	Description
abspath	Absolute path of the resource

### Return Values

The contents of the resource as an `XMLTYPE`.

## GETLOCKTOKEN Procedure

Given a path to a resource, this procedure returns that resource's lock token for the current user.

### Syntax

```
DBMS_XDB_REPOS.GETLOCKTOKEN (  
    path          IN      VARCHAR2,  
    locktoken     OUT     VARCHAR2);
```

### Parameters

**Table 228-20 GETLOCKTOKEN Procedure Parameters**

Parameter	Description
path	Path name to the resource
locktoken	Logged-in user's lock token for the resource

### Usage Notes

The user must have `READPROPERTIES` privilege on the resource.

## GETPRIVILEGES Function

This function gets all privileges granted to the current user on a specified resource.

### Syntax

```
DBMS_XDB_REPOS.GETPRIVILEGES (  
    res_path      IN      VARCHAR2)  
RETURN sys.xmltype;
```

## Parameters

**Table 228-21 GETPRIVILEGES Function Parameters**

Parameter	Description
res_path	Absolute path in the hierarchy of the resource

## Return Values

An XMLType instance of <privilege> element, which contains the list of all leaf privileges granted on this resource to the current user.

# GETRESOID Function

The GETRESOID function returns the object ID of the resource from its absolute path.

## Syntax

```
DBMS_XDB_REPOS.GETRESOID(
    abspath IN VARCHAR2)
RETURN RAW;
```

## Parameters

**Table 228-22 GETRESOID Function Parameters**

Parameter	Description
abspath_path	Absolute path of the resource

## Return Values

NULL if the resource is not present.

# GETXDB\_TABLESPACE Function

This function returns the current tablespace of the XDB (user).

## Syntax

```
DBMS_XDB_REPOS.GETXDB_TABLESPACE
RETURN VARCHAR2;
```

# HASBLOBCONTENT Function

This function returns TRUE if the resource has BLOB content.

## Syntax

```
DBMS_XDB_REPOS.HASBLOBCONTENT
    abspath IN VARCHAR2)
RETURN BOOLEAN;
```

## Parameters

**Table 228-23 HASBLOBCONTENT Function Parameters**

Parameter	Description
<code>abspath_path</code>	Absolute path of the resource

## Return Values

`TRUE` if the resource has BOB content.

# HASCHARCONTENT Function

This function returns `TRUE` if the resource has character content.

## Syntax

```
DBMS_XDB_REPOS.HASCHARCONTENT  
    abspath IN VARCHAR2)  
RETURN BOOLEAN;
```

## Parameters

**Table 228-24 HASCHARCONTENT Function Parameters**

Parameter	Description
<code>abspath_path</code>	Absolute path of the resource

## Return Values

`TRUE` if the resource has character content.

# HASXMLCONTENT Function

This function returns `TRUE` if the resource has XML content.

## Syntax

```
DBMS_XDB_REPOS.HASXMLCONTENT  
    abspath IN VARCHAR2)  
RETURN BOOLEAN;
```

## Parameters

**Table 228-25 HASXMLCONTENT Function Parameters**

Parameter	Description
<code>abspath_path</code>	Absolute path of the resource

## Return Values

`TRUE` if the resource has XML content.

## HASXMLREFERENCE Function

This function returns `TRUE` if the resource has a `REF` to XML content.

### Syntax

```
DBMS_XDB_REPOS.HASXMLREFERENCE  
    abspath IN VARCHAR2)  
RETURN BOOLEAN;
```

### Parameters

**Table 228-26 HASXMLREFERENCE Function Parameters**

Parameter	Description
<code>abspath_path</code>	Absolute path of the resource

### Return Values

`TRUE` resource has a `REF` to XML content.

## ISFOLDER Function

This function returns `TRUE` if the resource is a folder or container.

### Syntax

```
DBMS_XDB_REPOS.ISFOLDER  
    abspath IN VARCHAR2)  
RETURN BOOLEAN;
```

### Parameters

**Table 228-27 ISFOLDER Function Parameters**

Parameter	Description
<code>abspath_path</code>	Absolute path of the resource

### Return Values

`TRUE` if the resource is a folder or container.

## LINK Procedures

This procedure creates from a specified folder to a specified resource.

### Syntax

```
DBMS_XDB_REPOS.LINK(  
    srcpath IN VARCHAR2,  
    linkfolder IN VARCHAR2,  
    linkname IN VARCHAR2);
```



```
DBMS_XDB_REPOS.LINK(
    srcpath      IN   VARCHAR2,
    linkfolder   IN   VARCHAR2,
    linkname     IN   VARCHAR2,
    linktype     IN   PLS_INTEGER := DBMS_XDB_REPOS.LINK_TYPE_HARD);
```

## Parameters

**Table 228-28 LINK Procedure Parameters**

Parameter	Description
srcpath	Path name of the resource to which a link is created
linkfolder	Folder in which the new link is placed
linkname	Name of the new link
linktype	Type of link to be created: <ul style="list-style-type: none"> <li>• DBMS_XDB.LINK_TYPE_HARD (default)</li> <li>• DBMS_XDB.LINK_TYPE_WEAK</li> <li>• DBMS_XDB.LINK_TYPE_SYMBOLIC</li> </ul>

# LOCKRESOURCE Function

Given a path to a resource, this function gets a WebDAV-style lock on that resource.

## Syntax

```
DBMS_XDB_REPOS.LOCKRESOURCE(
    path         IN   VARCHAR2,
    depthzero    IN   BOOLEAN,
    shared       IN   boolean)
RETURN BOOLEAN;
```

## Parameters

**Table 228-29 LOCKRESOURCE Function Parameters**

Parameter	Description
path	Path name of the resource to lock.
depthzero	Currently not supported
shared	Passing TRUE obtains a shared write lock

## Return Values

TRUE if successful.

## Usage Notes

The user must have UPDATE privileges on the resource.

## PROCESSLINKS Procedure

This procedure processes document links in the specified resource.

### Syntax

```
DBMS_XDB_REPOS.PURGERESOURCEMETADATA (  
  abspath IN VARCHAR2,  
  recurse IN BOOLEAN := FALSE);
```

### Parameters

**Table 228-30 PROCESSLINKS Procedure Parameters**

Parameter	Description
abspath	Absolute path of the resource. If the path is a folder, use the <code>recurse</code> flag.
recurse	Used only if <code>abspath</code> specifies a folder. If <code>TRUE</code> , process links of all resources in the folder hierarchy rooted at the specified resource. If <code>FALSE</code> , process links of all documents in this folder only.

## PURGERESOURCEMETADATA Procedure

This procedure deletes all user metadata from a resource. Schema-based metadata is removed in cascade mode, rows being deleted from the corresponding metadata tables.

### Syntax

```
DBMS_XDB_REPOS.PURGERESOURCEMETADATA (  
  abspath IN VARCHAR2);
```

### Parameters

**Table 228-31 PURGERESOURCEMETADATA Procedure Parameters**

Parameter	Description
abspath	Absolute path of the resource

## RENAMERESOURCE Procedure

This procedure renames the XDB resource.

### Syntax

```
DBMS_XDB_REPOS.RENAMERESOURCE (  
  srcpath IN VARCHAR2,  
  destfolder IN CARCHAR2,  
  newname IN VARCHAR2);
```

## Parameters

**Table 228-32 RENAMERESOURCE Procedure Parameters**

Parameter	Description
srcpath	Absolute path in the Hierarchy for the source resource destination folder
destfolder	Absolute path in the Hierarchy for the destination folder
newname	Name of the child in the destination folder

## SETACL Procedure

This procedure sets the ACL on a specified resource to be the ACL specified by path.

### Syntax

```
DBMS_XDB_REPOS.SETACL(  
    res_path  IN  VARCHAR2,  
    acl_path  IN  VARCHAR2);
```

## Parameters

**Table 228-33 SETACL Procedure Parameters**

Parameter	Description
res_path	Absolute path in the Hierarchy for resource
acl_path	Absolute path in the Hierarchy for ACL

### Usage Notes

The user must have <write-acl> privileges on the resource.

## SPLITPATH Procedure

This procedure splits the path into a parentpath and childpath.

### Syntax

```
DBMS_XDB_REPOS.SPLITPATH(  
    abspath      IN  VARCHAR2,  
    parentpath   OUT VARCHAR2,  
    childpath    OUT VARCHAR2);
```

## Parameters

**Table 228-34 SPLITPATH Procedure Parameters**

Parameter	Description
abspath	Absolute path to be split
parentpath	Parentpath
childpath	Childpath

## TOUCHRESOURCE Procedure

This procedure changes the modification time of the resource to the current time.

### Syntax

```
DBMS_XDB_REPOS.TOUCHRESOURCE  
    abspath    IN    VARCHAR2);
```

### Parameters

**Table 228-35 TOUCHRESOURCE Procedure Parameters**

Parameter	Description
abspath_path	Absolute path of the resource

## UNLOCKRESOURCE Function

This function unlocks the resource given a lock token and a path to the resource.

### Syntax

```
DBMS_XDB_REPOS.UNLOCKRESOURCE(  
    path      IN  VARCHAR2,  
    deltoken  IN  VARCHAR2)  
RETURN BOOLEAN;
```

### Parameters

**Table 228-36 UNLOCKRESOURCE Function Parameters**

Parameter	Description
path	Path name to the resource
deltoken	Lock token to be removed

### Return Values

TRUE if operation successful.

### Usage Notes

The user must have UPDATE privileges on the resource.

## UPDATERESOURCEMETADATA Procedures

This procedure updates metadata for a resource.

The procedure takes in a resource identified by absolute path and the metadata in it to replace identified by its REF. It replaces that piece of metadata with user-defined metadata which is either in the form of a REF to XMLTYPE or an XMLTYPE.

## Syntax

Can be used to update schema-based metadata only. The new metadata must be schema-based:

```
DBMS_XDB_REPOS.UPDATERESOURCEMETADATA (
    abspath IN VARCHAR2,
    oldmetadata IN REF SYS.XMLTYPE,
    newmetadata IN REF SYS.XMLTYPE)
```

Can be used to update schema-based metadata only. The new metadata must be schema-based or nonschema-based:

```
DBMS_XDB_REPOS.UPDATERESOURCEMETADATA (
    abspath IN VARCHAR2,
    oldmetadata IN REF SYS.XMLTYPE,
    newmetadata IN XMLTYPE);
```

Can be used for both schema-based and nonschema-based metadata:

```
DBMS_XDB_REPOS.UPDATERESOURCEMETADATA (
    abspath IN VARCHAR2,
    oldns IN VARCHAR2,
    oldname IN VARCHAR,
    newmetadata IN XMLTYPE);
```

Can be used for both schema-based or nonschema-based metadata. New metadata must be schema-based:

```
DBMS_XDB_REPOS.UPDATERESOURCEMETADATA (
    abspath IN VARCHAR2,
    oldns IN VARCHAR2,
    oldname IN VARCHAR,
    newmetadata IN REF SYS.XMLTYPE);
```

## Parameters

**Table 228-37 UPDATERESOURCEMETADATA Procedure Parameters**

Parameter	Description
abspath	Absolute path of the resource
oldmetadata	REF to the old of metadata
newmetadata	REF to the new, replacement metadata (can be either schema-based or nonschema-based depending on the overload)
oldns	Namespace identifying old metadata
oldname	Local name identifying old metadata

## Usage Notes

In the case of REF, it stores the REF in the resource and the metadata is stored in a separate table. Uniqueness of REFs is enforced. In the case where the XMLTYPE is passed in, data is parsed to determine if it is schema-based or not and is stored accordingly.