

DBMS_XDB

The `DBMS_XDB` package supports the following features:



Note:

The Oracle XML DB Repository is deprecated with Oracle Database 23ai.

Oracle recommends that you replace any functionality used in XML DB Repository with alternative technologies. As a result of this deprecation, all XML DB Repository interfaces (for example Repository-specific Java classes `oracle.xdb.servlet`, `oracle.xdb.event`, and `oracle.xdb.spi`) are consequently deprecated as well.

The `DBMS_XDB` package supports the following features:

- Resource Management subprograms which complement Resource Views
- The Access Control List (ACL)-based Security Mechanism
- Configuration Session Management
- Creation of the XDB username

This chapter contains the following topics:

- [DBMS_XDB Overview](#)
- [DBMS_XDB Security Model](#)
- [DBMS_XDB Constants](#)
- [Summary of DBMS_XDB Subprograms](#)



See Also:

- *Oracle XML DB Developer's Guide*

DBMS_XDB Overview

`DBMS_XDB` provides a range of management functions.

The `DBMS_XDB` package supports the following features:

- The Resource Management functionality provides [LINK Procedures](#), [EXISTSRESOURCE Function](#), [LOCKRESOURCE Function](#), [GETLOCKTOKEN Procedure](#), [UNLOCKRESOURCE Function](#), [CREATERESOURCE Functions](#), [RENAMERESOURCE Procedure](#), [DELETERESOURCE Procedure](#), [GETRESOID Function](#), [CREATEOIDPATH Function](#), and [CREATEFOLDER Function](#) subprograms which complement Resource Views.

- The Access Control List (ACL)-based Security Mechanism can be used with in-hierarchy ACLs stored by the database or in-memory ACLs that may be stored outside the database. Some of these methods can be used for both Oracle resources and arbitrary database objects. Use [CHECKPRIVILEGES Function](#), [GETACLDDOCUMENT Function](#), and [CHANGEPRIVILEGES Function](#) for Oracle Resources. [ACLCHECKPRIVILEGES Function](#) provides access to Oracle's ACL-based Security mechanism without storing objects in the Hierarchy.
- The XDB username is created during XDB installation. This user owns a set of default tables and packages. [GETXDB_TABLESPACE Function](#) and the `DBMS_XDB_ADMIN.MOVEXDB_TABLESPACE` Procedure enable movement of schemas to a specified tablespace, and support the default `SYSAUX` tablespace introduction

DBMS_XDB Security Model

Owned by XDB, the `DBMS_XDB` 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 Constants

All constants described in the following table are deprecated in Oracle Release 12c.

They are relocated to either the [DBMS_XDB_CONFIG](#) package or the [DBMS_XDB_REPOS](#) package. The specifics of transference in each case are detailed in the **Relocated** column.

Oracle recommends that you do not use constants in their `DBMS_XDB` context in new applications. Support for deprecated features is for backward compatibility only and may be terminated in future releases.

Table 223-1 DBMS_XDB Constants

Constant	Type	Value	Description	Relocated
<code>DELETE_RESOURCE</code>	<code>NUMBER</code>	1	Deletes a resource; fails if the resource has children.	<code>DBMS_XDB_REPOS</code>
<code>DELETE_RECURSIVE</code>	<code>NUMBER</code>	2	Deletes a resource and its children, if any.	<code>DBMS_XDB_REPOS</code>
<code>DELETE_FORCE</code>	<code>NUMBER</code>	3	Deletes the resource, even if the object it contains is invalid.	<code>DBMS_XDB_REPOS</code>
<code>DELETE_RECURSIVE_FORCE</code>	<code>NUMBER</code>	4	Deletes a resource and its children, if any, even if the object it contains is invalid.	<code>DBMS_XDB_REPOS</code>
<code>DELETE_RES_METADATA_CASCADE</code>	<code>NUMBER</code>	1	Deletes the corresponding row in the metadata table	<code>DBMS_XDB_REPOS</code>
<code>DELETE_RES_METADATA_NOCASCADE</code>	<code>NUMBER</code>	2	Does not delete the row in the metadata table	<code>DBMS_XDB_REPOS</code>
<code>DEFAULT_LOCK_TIMEOUT_CONSTANT</code>	<code>PLS_INTEGER</code>	(60*60)	Default time (in seconds) after which lock will expire	<code>DBMS_XDB_REPOS</code>
<code>LINK_TYPE_HARD</code>	<code>NUMBER</code>	1	Type of link to be created (default)	<code>DBMS_XDB_REPOS</code>

Table 223-1 (Cont.) DBMS_XDB Constants

Constant	Type	Value	Description	Relocated
LINK_TYPE_WEAK	NUMBER	2	Type of link to be created	DBMS_XDB_RE POS
LINK_TYPE_SYMBOLIC	NUMBER	3	Type of link to be created	DBMS_XDB_RE POS
ON_DENY_NEXT_CUSTOM	NUMBER	1	If access denied, the next custom authorization is tried	DBMS_XDB_CO NFIG
ON_DENY_BASIC	NUMBER	2	If access denied, basic authentication is used	DBMS_XDB_CO NFIG

Summary of DBMS_XDB Subprograms

This table lists the DBMS_XDB subprograms and briefly describes them.

Table 223-2 DBMS_XDB Package Subprograms

Subprogram	Description
ACLCHKPRIVILEGES Function	Checks access privileges granted to the current user by specified ACL document on a resource whose owner is specified by the 'owner' parameter.
APPENDRESOURCEMETADATA Procedure	Takes in user-defined metadata either as a REF to XMLTYPE or an XMLTYPE and adds it to the desired resource
CHANGEOWNER Procedure	Changes the owner of the resource/s to the specified owner.
CHANGEPRIVILEGES Function	Adds a specified ACE to a specified resource's ACL
CHECKPRIVILEGES Function	Checks access privileges granted to the current user on the specified resource
CREATEFOLDER Function	Creates a new folder resource in the hierarchy
CREATEOIDPATH Function	Creates a virtual path to the resource based on object ID
CREATERESOURCE Functions	Creates a new resource
DELETERESOURCE Procedure	Deletes a resource from the hierarchy
DELETERESOURCEMETADATA Procedures	Deletes metadata from a resource (can be used for schema-based or nonschema-based metadata)
ENABLEDIGESTAUTHENTICATION Procedure	Enables digest authentication
EXISTSRESOURCE Function	Determines if a resource is in the hierarchy, based on its absolute path
GETACLDOCUMENT Function	Retrieves ACL document that protects resource given its path name
GETCONTENTBLOB Function	Retrieves the contents of a resource returned as a BLOB
GETCONTENTCLOB Function	Retrieves the contents of a resource returned as a CLOB
GETCONTENTVARCHAR2 Function	Retrieves the contents of a resource returned as a string

Table 223-2 (Cont.) DBMS_XDB Package Subprograms

Subprogram	Description
GETCONTENTXMLREF Function	Retrieves the contents of a resource returned as a a REF to an XMLTYPE
GETCONTENTXMLTYPE Function	Retrieves the contents of a resource returned as an XMLTYPE
GETHTTPREQUESTHEADER Function	Gets the values of the passed header
GETLOCKTOKEN Procedure	Returns that resource's lock token for the current user given a path to a resource
GETPRIVILEGES Function	Gets all privileges granted to the current user on a specified resource
GETRESOID Function	Returns the object ID of the resource from its absolute path
GETXDB_TABLESPACE Function	Returns the current tablespace of the XDB (user)
HASBLOBCONTENT Function	Returns TRUE if the resource has BLOB content
HASCHARCONTENT Function	Returns TRUE if the resource has character content
HASXMLCONTENT Function	Returns TRUE if the resource has XML content
HASXMLREFERENCE Function	Returns TRUE if the resource has REF to XML content
ISFOLDER Function	Returns TRUE if the resource is a folder or container
LINK Procedures	Creates a link to an existing resource
LOCKRESOURCE Function	Gets a WebDAV-style lock on that resource given a path to that resource
PROCESSLINKS Procedure	Processes document links in the specified resource
PURGERESOURCEMETADATA Procedure	Deletes all user metadata from a resource
RENAMERESOURCE Procedure	Renames the XDB resource
SETACL Procedure	Sets the ACL on a specified resource
SPLITPATH Procedure	Splits the path into a parentpath and childpath
TOUCHRESOURCE Procedure	Changes the modification time of the resource to the current time
UNLOCKRESOURCE Function	Unlocks the resource given a lock token and resource path
UPDATERESOURCEMETADATA Procedures	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.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [ACLCHECKPRIVILEGES Function](#).

Syntax

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

Parameters

Table 223-3 *ACLCHECKPRIVILEGES Function Parameters*

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

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.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [APPENDRESOURCEMETADATA Procedure](#).

Syntax

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

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

Parameters

Table 223-4 *APPENDRESOURCEMETADATA Procedure*

Parameter	Description
abspath	Absolute path of the resource
metadata	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. This procedure is deprecated in Release 12c.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [CHANGEOWNER Procedure](#).

Syntax

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

Parameters

Table 223-5 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. This procedure is deprecated in Release 12c.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [CHANGEPRIVILEGES Function](#).

Syntax

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

Parameters

Table 223-6 CHANGEPRIVILEGES Function Parameters

Parameter	Description
res_path	Path name of the resource for which privileges need to be changed
ace	An XMLType instance of the <ace> element which specifies the <principal>, the operation <grant> 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.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [CHECKPRIVILEGES Function](#).

Syntax

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

Parameters

Table 223-7 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 deprecated function creates a new folder resource in the hierarchy.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [CREATEFOLDER](#) Function.

Syntax

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

Parameters

Table 223-8 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 deprecated function creates a virtual path to the resource based on object ID.



Note:

This function is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [CREATEOIDPATH Function](#).

Syntax

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

Parameters

Table 223-9 CREATEOIDPATH Function Parameters

Parameter	Description
oid	Object ID of the resource

CREATERESOURCE Functions

The deprecated function creates a new resource. The description of the overload options precede each version of the syntax



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [CREATERESOURCE Functions](#).

Syntax

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.CREATERESOURCE(  
    abspath      IN  VARCHAR2,  
    datarow      IN  REF SYS.XMLTYPE,  
    createfolders IN  BOOLEAN := FALSE)  
RETURN BOOLEAN;
```

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

```
DBMS_XDB.CREATERESOURCE(  
    abspath      IN  VARCHAR2,
```

```

        data          IN  BLOB,
        csid          IN  NUMBER :=0,
        createfolders IN  BOOLEAN := FALSE)
RETURN BOOLEAN;

```

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

```

DBMS_XDB.CREATERESOURCE (
    abspath          IN  VARCHAR2,
    data             IN  BFILE,
    csid             IN  NUMBER :=0,
    createfolders    IN  BOOLEAN := FALSE)
RETURN BOOLEAN;

```

Creates a resource with a specified CLOB as its contents:

```

DBMS_XDB.CREATERESOURCE (
    abspath          IN  VARCHAR2,
    data             IN  CLOB,
    createfolders    IN  BOOLEAN := FALSE)
RETURN BOOLEAN;

```

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

```

DBMS_XDB.CREATERESOURCE (
    abspath          IN  VARCHAR2,
    data             IN  VARCHAR2,
    schemaur1        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.CREATERESOURCE (
    abspath          IN  VARCHAR2,
    data             IN  SYS.XMLTYPE,
    schemaur1        IN  VARCHAR2 := NULL,
    elem             IN  VARCHAR2 := NULL)
RETURN BOOLEAN;

```

Parameters

Table 223-10 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

Table 223-10 (Cont.) CREATERESOURCE Function Parameters

Parameter	Description
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">• From the abspath extension, determine the resource's MIME type.• If the MIME type is */xml, then the encoding is detected based on Appendix F of the W3C XML 1.0 Reference at http://www.w3.org/TR/2000/REC-xml-20001006;• Otherwise, it is defaulted to the database character set.
createfolders	If TRUE, create the parent folders if they do not exist
schemauri	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 **deprecated procedure** deletes a resource from the hierarchy.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [DELETERESOURCE Procedure](#).

Syntax

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

Parameters**Table 223-11 DELETERESOURCE Procedure Parameters**

Parameter	Description
path	Path name of the resource to delete
delete_option	The option that controls how a resource is deleted; defined in Table 223-1 : <ul style="list-style-type: none">• DELETE_RESOURCE• DELETE_RECURSIVE• DELETE_FORCE• DELETE_RECURSIVE_FORCE

DELETERESOURCEMETADATA Procedures

This **deprecated 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.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [DELETERESOURCEMETADATA Procedures](#).

Syntax

Can be used only for schema-based metadata:

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

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

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

Parameters

Table 223-12 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">DELETE_RES_METADATA_CASCADE - deletes the corresponding row in the metadata tableDELETE_RES_METADATA_NOCASCADE - does not delete the row in the metadata table

ENABLEDIGESTAUTHENTICATION Procedure

This deprecated procedure enabling digest authentication. It will list digest as the first authentication mechanism to be used by the XML DB HTTP server.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_CONFIG](#) package - the [ENABLEDIGESTAUTHENTICATION Procedure](#).

Syntax

```
DBMS_XDB.ENABLEDIGESTAUTHENTICATION;
```

EXISTSRESOURCE Function

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [EXISTSRESOURCE Function](#).

Syntax

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

Parameters

Table 223-13 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 deprecated function retrieves ACL document that protects resource given its path name.

Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETACLDOCUMENT Function](#).

Syntax

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

Parameters

Table 223-14 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 deprecated function retrieves the contents of a resource returned as a `BLOB`.

Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETCONTENTBLOB Function](#).

Syntax

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

Parameters

Table 223-15 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 deprecated function gets the contents of a resource returned as a CLOB.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETCONTENTCLOB Function](#).

Syntax

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

Parameters

Table 223-16 GETCONTENTCLOB Function Parameters

Parameter	Description
abspath	Absolute path of the resource

Return Values

The contents of the resource as a CLOB.

GETCONTENTVARCHAR2 Function

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETCONTENTVARCHAR2 Function](#).

Syntax

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

Parameters

Table 223-17 GETCONTENTVARCHAR2 Function Parameters

Parameter	Description
abspath	Absolute path of the resource

Return Values

The contents of the resource as a string.

GETCONTENTXMLREF Function

This deprecated function retrieves the contents of a resource returned as a [REF](#) to an [XMLTYPE](#).



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETCONTENTXMLREF Function](#).

Syntax

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


Parameters

Table 223-18 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 deprecated function retrieves the contents of a resource returned as an `XMLTYPE`.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETCONTENTXMLTYPE Function](#).

Syntax

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

Parameters

Table 223-19 GETCONTENTXMLTYPE Function Parameters

Parameter	Description
abspath	Absolute path of the resource

Return Values

The contents of the resource as an `XMLTYPE`.

GETHTTPREQUESTHEADER Function

This deprecated function, if called during an HTTP request serviced by XDB, returns the values of the passed header. It is used by routines that implement custom authentication.



Note:

This procedure is deprecated in Release 12c.

Syntax

```
DBMS_XDB.GETHTTPREQUESTHEADER(  
    header_name    IN    VARCHAR2)  
RETURN VARCHAR2;
```

Parameters

Table 223-20 GETHTTPREQUESTHEADER Function Parameters

Parameter	Description
header_name	Passed header

Return Values

Returns `NULL` in case the header is not present in the request, or for `AUTHENTICATION`, for security reasons.

GETLOCKTOKEN Procedure

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETLOCKTOKEN Procedure](#).

Syntax

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

Parameters

Table 223-21 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 deprecated function gets all privileges granted to the current user on a specified resource.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETPRIVILEGES Function](#).

Syntax

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

Parameters

Table 223-22 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

This deprecated procedure returns the object ID of the resource from its absolute path.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETRESOID Function](#).

Syntax

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

Parameters

Table 223-23 GETRESOID Function Parameters

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

Return Values

NULL if the resource is not present.

GETXDB_TABLESPACE Function

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [GETXDB_TABLESPACE Function](#).

Syntax

```
DBMS_XDB.GETXDB_TABLESPACE
RETURN VARCHAR2;
```

HASBLOBCONTENT Function

This deprecated function returns `TRUE` if the resource has BLOB content.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [HASBLOBCONTENT Function](#).

Syntax

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

Parameters

Table 223-24 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 deprecated function returns `TRUE` if the resource has character content.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [HASCHARCONTENT Function](#).

Syntax

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

Parameters

Table 223-25 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 deprecated function returns `TRUE` if the resource has XML content.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [HASXMLCONTENT Function](#).

Syntax

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

Parameters

Table 223-26 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 deprecated function returns `TRUE` if the resource has a `REF` to XML content.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [HASXMLREFERENCE Function](#).

Syntax

```
DBMS_XDB.HASXMLREFERENCE
(abspath IN VARCHAR2)
RETURN BOOLEAN;
```

Parameters

Table 223-27 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 deprecated function returns `TRUE` if the resource is a folder or container.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [ISFOLDER Function](#).

Syntax

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

Parameters

Table 223-28 DBMS_XDB.ISFOLDER Function Parameters

Parameter	Description
abspath_path	Absolute path of the resource

Return Values

TRUE if the resource is a folder or container.

LINK Procedures

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [LINK Procedures](#).

Syntax

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

Parameters

Table 223-29 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

Table 223-29 (Cont.) LINK Procedure Parameters

Parameter	Description
linktype	Type of link to be created: <ul style="list-style-type: none"> DBMS_XDB.LINK_TYPE_HARD (default) DBMS_XDB.LINK_TYPE_WEAK DBMS_XDB.LINK_TYPE_SYMBOLIC

LOCKRESOURCE Function

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [LOCKRESOURCE Function](#).

Syntax

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

Parameters

Table 223-30 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 deprecated procedure processes document links in the specified resource.

Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [PROCESSLINKS Procedure](#).

Syntax

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

Parameters

Table 223-31 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 deprecated procedure deletes all user metadata from a resource. Schema-based metadata is removed in cascade mode, rows being deleted from the corresponding metadata tables.

Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [PURGERESOURCEMETADATA Procedure](#).

Syntax

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

Parameters

Table 223-32 PURGERESOURCEMETADATA Procedure Parameters

Parameter	Description
abspath	Absolute path of the resource

RENAMERESOURCE Procedure

This deprecated procedure renames the XDB resource.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [RENAMERESOURCE Procedure](#).

Syntax

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

Parameters

Table 223-33 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 deprecated procedure set the ACL on a specified resource to be the ACL specified by path.

**Note:**

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [SETACL Procedure](#).

Syntax

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

Parameters

Table 223-34 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 deprecated procedure splits the path into a parentpath and childpath.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [SPLITPATH Procedure](#).

Syntax

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

Parameters

Table 223-35 SPLITPATH Procedure Parameters

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

TOUCHRESOURCE Procedure

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [TOUCHRESOURCE Procedure](#).

Syntax

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

Parameters

Table 223-36 DBMS_XDB.TOUCHRESOURCE Procedure Parameters

Parameter	Description
abspath_path	Absolute path of the resource

UNLOCKRESOURCE Function

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



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [UNLOCKRESOURCE Function](#).

Syntax

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

Parameters

Table 223-37 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 deprecated procedure updates metadata for a resource.



Note:

This procedure is deprecated in Release 12c. This functionality is replaced by a subprogram of the same name in the [DBMS_XDB_REPOS](#) package - the [UPDATERESOURCEMETADATA Procedures](#).

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.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.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.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.UPDATERESOURCEMETADATA (
    abspath IN VARCHAR2,
```

```
oldns      IN  VARCHAR2,
oldname    IN  VARCHAR,
newmetadata IN  REF SYS.XMLTYPE);
```

Parameters

Table 223-38 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.