

DBMS_CSX_ADMIN

The `DBMS_CSX_ADMIN` package provides an interface to customize the setup when transporting a tablespace containing binary XML data.

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DBMS_CSX_ADMIN Overview

This package can be used by DBAs to customize the setup when transporting a tablespace containing binary XML data. The use of the package is not required in order for a transportable tablespace job to run.

By default, all binary XML tables will use the default token table set, which will be replicated during transport on the target database. To avoid the cost of transporting a potentially large token table set, the DBA may opt for registering a new set of token tables for a given tablespace. The package provides routines for token table set registration and lookup.

DBMS_CSX_ADMIN Security Model

Owned by `XDB`, the `DBMS_CSX_ADMIN` package must be created by `SYS` or `XDB`. The `EXECUTE` privilege is granted to `SYS` or `XDB` or `DBA`. Subprograms in this package are executed using the privileges of the current user.

DBMS_CSX_ADMIN Constants

The `DBMS_CSX_ADMIN` package uses several constants.

These are described in the following table.

Table 58-1 DBMS_CSX_ADMIN Constants

Name	Type	Value	Description
<code>DEFAULT_LEVEL</code>	<code>BINARY_INTEGER</code>	0	Default token table
<code>TAB_LEVEL</code>	<code>BINARY_INTEGER</code>	1	Token table set associated with tables, not tablespaces
<code>TBS_LEVEL</code>	<code>BINARY_INTEGER</code>	2	Token table set associated with a tablespace
<code>NO_CREATE</code>	<code>BINARY_INTEGER</code>	0	Token tables already exist, associate them with the given table/tablespace

Table 58-1 (Cont.) DBMS_CSX_ADMIN Constants

Name	Type	Value	Description
NO_INDEXES	BINARY_INTEGER	1	Do not create indexes on the new set of token tables
WITH_INDEXES	BINARY_INTEGER	2	Create indexes on the token tables
DEFAULT_TOKS	BINARY_INTEGER	0	Prepopulate the token tables with default token mappings
NO_DEFAULT_TOKS	BINARY_INTEGER	1	Do not prepopulate the token tables with default token mappings

Summary of DBMS_CSX_ADMIN Subprograms

This table lists and describes the DBMS_CSX_ADMIN Package subprograms.

Table 58-2 DBMS_CSX_ADMIN Package Subprograms

Subprogram	Description
GETTOKENTABLEINFO Procedure & Function	Returns the GUID of the token table set where token mappings for this table
GETTOKENTABLEINFOBYTABLESPACE Procedure	Returns the GUID and the token table names for this tablespace
NAMESPACEIDTABLE Function	Returns default namespace-ID token table
PATHIDTABLE Function	Returns the default path-ID token table
QNAMEIDTABLE Function	Returns the default qname-ID token table.

GETTOKENTABLEINFO Procedure & Function

This procedure is overloaded. The specific forms of functionality are described along with the syntax declarations.

Given the table name and the owner, the first overload of the procedure returns the globally unique identifier (GUID) of the token table set where token mappings for this table can be found. The procedure returns also the names of the token tables, and whether the token table set is the default one.

Given the object number of a table, the second overload of the procedure returns the GUID of the token table set used by the table, and whether this is the default token table set.

Syntax

```
DBMS_CSX_ADMIN.GETTOKENTABLEINFO (
  ownername      IN  VARCHAR2,
  tablename      IN  VARCHAR2,
  guid           OUT RAW,
  qnametable     OUT VARCHAR2,
  nmspctable     OUT VARCHAR2,
  level          OUT  NUMBER,
  tabno          OUT  NUMBER);
```

```
DBMS_CSX_ADMIN.GETTOKENTABLEINFO (
  tabno          IN  NUMBER,
```

```
    guid          OUT RAW);  
RETURN BOOLEAN;
```

Parameters

Table 58-3 GETTOKENTABLEINFO Procedure & Function Parameters

Parameter	Description
ownername	Owner of the table
tablename	Name of the table
guid	GUID of the token table set used by the given table
qnametable	Name of the qname-ID table in the new set
nmspctable	Name of the namespace-ID table in the new set
level	DEFAULT_LEVEL if default token table set, TBS_LEVEL if same token table set is used by all tables in the same tablespace as the given table, TAB_LEVEL otherwise
tabno	Table object number

GETTOKENTABLEINFOBYTABLESPACE Procedure

Given a tablespace number, this procedure returns the GUID and the token table names for this tablespace.

Syntax

```
DBMS_CSX_ADMIN.GETTOKENTABLEINFOBYTABLESPACE (  
    tsname          IN  VARCHAR2,  
    tablespaceno    IN  NUMBER,  
    guid            OUT RAW,  
    qnametable      OUT VARCHAR2,  
    nmspctable      OUT VARCHAR2,  
    isdefault       OUT BOOLEAN,  
    containTokTab   OUT BOOLEAN);
```

Parameters

Table 58-4 GETTOKENTABLEINFOBYTABLESPACE Procedure Parameters

Parameter	Description
tsname	Tablespace name
tablespaceno	Tablespace number
guid	GUID of the token table set associated with this tablespace (if any)
qnametable	Name of the qname-ID table
nmspctable	Name of the namespace-ID table
isdefault	TRUE if the token table is the default one
containTokTab	TRUE if the tablespace contains its own token table set

NAMESPACEIDTABLE Function

This procedure returns default namespace-ID token table.

Syntax

```
DBMS_CSX_ADMIN.NAMESPACEIDTABLE  
RETURN VARCHAR2;
```

PATHIDTABLE Function

This procedure returns the default path-ID token table. This is used for granting permissions on the default path-ID token table for a user before executing `EXPLAIN PLAN` for a query on an XML table with an XML index.

Syntax

```
DBMS_CSX_ADMIN.PATHIDTABLE  
RETURN VARCHAR2;
```

QNAMEIDTABLE Function

This procedure returns the default qname-ID token table.

Syntax

```
DBMS_CSX_ADMIN.QNAMEIDTABLE  
RETURN VARCHAR2;
```