

DBMS_LOGSTDBY_CONTEXT

As of Oracle Database 12c release 1 (12.1), SQL Apply processes have access to a context namespace called `LSBY_APPLY_CONTEXT`. You can use the procedures provided in the `DBMS_LOGSTDBY_CONTEXT` package to set and retrieve various parameters associated with `LSBY_APPLY_CONTEXT`. This is useful when writing skip procedures that are registered with SQL Apply using the `DBMS_LOGSTDBY.SKIP` and `DBMS_LOGSTDBY.SKIP_ERROR` procedures.

This chapter contains the following topics:

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



See Also:

Oracle Data Guard Concepts and Administration for more information about SQL Apply and logical standby databases

DBMS_LOGSTDBY_CONTEXT Overview

SQL Apply processes have access to a context namespace called `LSBY_APPLY_CONTEXT`.

The following table lists the predefined parameters associated with `LSBY_APPLY_CONTEXT` that you can set and retrieve by using the procedures provided in the `DBMS_LOGSTDBY_CONTEXT` package. The ability to set and retrieve the parameters in this way is useful when writing skip procedures that are registered with SQL Apply using the `DBMS_LOGSTDBY.SKIP` and `DBMS_LOGSTDBY.SKIP_ERROR` procedures.

Table 125-1 Predefined Parameters of Namespace `LSBY_APPLY_CONTEXT`

Parameter	Description
<code>STATEMENT</code>	First 4000 bytes of the statement that the Apply process is processing.
<code>STATEMENT_TYPE</code>	See Table 123-15 for a list of various statement types.
<code>PACKAGE_SCHEMA</code>	Schema that owns the PL/SQL package being processed (if applicable).
<code>PACKAGE_NAME</code>	Name of the PL/SQL package being processed (if applicable).
<code>PROCEDURE_NAME</code>	Name of the PL/SQL procedure being processed (if applicable).
<code>CURRENT_SCHEMA</code>	Current schema in effect when the DDL or PL/SQL procedure was executed at the primary.
<code>XIDUSN</code>	XIDUSN of the transaction at the primary database.
<code>XIDSLT</code>	XIDSLT of the transaction at the primary database.

Table 125-1 (Cont.) Predefined Parameters of Namespace LBY_APPLY_CONTEXT

Parameter	Description
XIDSN	XIDSN of the transaction at the primary database.
SCHEMA	Schema that owns the object being processed by SQL Apply (in the case of DML or DDL operations).
NAME	Object name being processed by SQL Apply (in case of DML or DDL operations).
CONTAINER_NAME	Container where the target object or the PL/SQL procedure resides (in the case of a multitenant container database (CDB)).
ERROR	Text of the original error encountered by the SQL Apply process (if applicable).
NEW_ERROR	Text of the new error to be raised by the SQL Apply process (if applicable, See the DBMS_LOGSTDBY SKIP_ERROR Procedure).
NEW_STMT	Text of the replacement statement that SQL Apply must execute (If applicable, See the DBMS_LOGSTDBY SKIP Procedure).
SKIP_ACTION	The skip action to be performed by SQL Apply (See the DBMS_LOGSTDBY SKIP Procedure).

DBMS_LOGSTDBY_CONTEXT Security Model

The security model for the DBMS_LOGSTDBY_CONTEXT package is the same as for the DBMS_LOGSTDBY package.



See Also:

[DBMS_LOGSTDBY](#)

Summary of DBMS_LOGSTDBY_CONTEXT Subprograms

This table lists and briefly describes the DBMS_LOGSTDBY_CONTEXT package subprograms.

Table 125-2 DBMS_LOGSTDBY_CONTEXT Package Subprograms

Subprogram	Description
CLEAR_ALL_CONTEXT Procedure	Clears all parameters contained within namespace LBY_APPLY_CONTEXT.
CLEAR_CONTEXT Procedure	Clears the specific parameter.
GET_CONTEXT Procedure	Retrieves the value for the specified parameter.
SET_CONTEXT Procedure	Sets the named parameter with the specified value.

CLEAR_ALL_CONTEXT Procedure

This procedure clears all parameters contained within namespace `LSBY_APPLY_CONTEXT`.

Syntax

```
DBMS_LOGSTDBY_CONTEXT.CLEAR_ALL_CONTEXT;
```

Parameters

None

CLEAR_CONTEXT Procedure

This procedure clears the specific parameter.

Syntax

```
DBMS_LOGSTDBY_CONTEXT.CLEAR_CONTEXT (
    name          IN VARCHAR2);
```

Parameters

Table 125-3 *CLEAR_CONTEXT Procedure Parameters*

Parameter	Description
name	Name of the parameter to be cleared.

GET_CONTEXT Procedure

This procedure retrieves the value for the specified parameter.

Syntax

```
DBMS_LOGSTDBY_CONTEXT.GET_CONTEXT (
    name          IN VARCHAR2,
    value         OUT VARCHAR2);
```

Parameters

Table 125-4 *GET_CONTEXT Procedure Parameters*

Parameter	Description
name	Name of the parameter.
value	The value retrieved for the parameter.

SET_CONTEXT Procedure

This procedure sets the named parameter with the specified value.

Syntax

```
DBMS_LOGSTDBY_CONTEXT.SET_CONTEXT (
    name          IN VARCHAR2
    value          IN VARCHAR2);
```

Parameters

Table 125-5 *SET_CONTEXT Procedure Parameters*

Parameter	Description
name	Name of the parameter to be set.
value	Value to be assigned to the parameter being set.