

DBMS_TTS

The DBMS_TTS package checks if the transportable set is self-contained. All violations are inserted into a temporary table that can be selected from the view `TRANSPORT_SET_VIOLATIONS`.

This chapter contains the following topics:

- [Security Model](#)
- [Exceptions](#)
- [Operational Notes](#)
- [Summary of DBMS_TTS Subprograms](#)

See Also:

- *Oracle Database Administrator's Guide*
- *Oracle Database Upgrade Guide*

DBMS_TTS Security Model

Only users having the `execute_catalog_role` can execute this procedure. This role is initially only assigned to user SYS.

DBMS_TTS Exceptions

The DBMS_TTS package creates exceptions for missing or invalid transportable tablespaces.

```
ts_not_found EXCEPTION;
PRAGMA exception_init(ts_not_found, -29304);
ts_not_found_num NUMBER := -29304;

invalid_ts_list EXCEPTION;
PRAGMA exception_init(invalid_ts_list, -29346);
invalid_ts_list_num NUMBER := -29346;

sys_or_tmp_ts EXCEPTION;
PRAGMA exception_init(sys_or_tmp_ts, -29351);
sys_or_tmp_ts_num NUMBER := -29351;
```

DBMS_TTS Operational Notes

With respect to transportable tablespaces, disabled and enabled referential integrity constraints are handled differently.

- A disabled referential integrity constraint does not violate the transportability rules and is dropped during the import phase.

- An enabled referential integrity constraint violates the transportability rules if it references a table in a tablespace outside the transportable set.

Summary of DBMS_TTS Subprograms

The two procedures listed in the table are designed to be called by database administrators.

Table 209-1 DBMS_TTS Package Subprograms

Subprogram	Description
DOWNGRADE Procedure	Downgrades transportable tablespace-related data
TRANSPORT_SET_CHECK Procedure	Checks if a set of tablespaces (to be transported) is self-contained

DOWNGRADE Procedure

This procedure downgrades transportable tablespace related data in releases earlier than Oracle Database 10g.

Syntax

```
DBMS_TTS.DOWNGRADE;
```

Note:

This procedure has no effect in Oracle Database 10g and later releases. It is included only for backward compatibility to support references to it in existing scripts.

TRANSPORT_SET_CHECK Procedure

This procedure checks if a set of tablespaces (to be transported) is self-contained. After calling this procedure, the user may select from a view to see a list of violations, if there are any.

Syntax

```
DBMS_TTS.TRANSPORT_SET_CHECK (  
    ts_list          IN CLOB,  
    incl_constraints IN BOOLEAN DEFAULT FALSE,  
    full_check       IN BOOLEAN DEFAULT FALSE);
```

Parameters

Table 209-2 TRANSPORT_SET_CHECK Procedure Parameters

Parameter	Description
<code>ts_list</code>	List of one or more tablespaces, separated by comma.
<code>incl_constraints</code>	TRUE if you want to count in referential integrity constraints when examining if the set of tablespaces is self-contained. (The <code>incl_constraints</code> parameter is a default so that <code>TRANSPORT_SET_CHECK</code> will work if it is called with only the <code>ts_list</code> argument.)

Table 209-2 (Cont.) TRANSPORT_SET_CHECK Procedure Parameters

Parameter	Description
full_check	Indicates whether a full or partial dependency check is required. If <code>TRUE</code> , treats all <code>IN</code> and <code>OUT</code> pointers (dependencies) and captures them as violations if they are not self-contained in the transportable set. The parameter should be set to <code>TRUE</code> for TSPITR or if a strict version of transportable is desired. By default the parameter is set to <code>FALSE</code> . It will only consider <code>OUT</code> pointers as violations.

Examples

If the view does not return any rows, then the set of tablespaces is self-contained. For example,

```
SQLPLUS> EXECUTE DBMS_TTS.TRANSPORT_SET_CHECK('foo,bar', TRUE);
SQLPLUS> SELECT * FROM TRANSPORT_SET_VIOLATIONS;
```