

Creating depository databases of archive database on Oracle platform

The PL/SQL script [Arc2Trezor.sql](#) (located in the [installation directory](#) - the **Templates\Oracle** subdirectory) allows to create depository databases of archive database on Oracle platforms.

This manual assumes at least basic knowledge on the Oracle management (creating tablespaces, work with **SqlPlus**).

Depository databases can be created with optional period that may differ from the parameter [TrezorPeriod](#). The script **Arc2Trezor.sql** can be run in the **SqlPlus** tool on Windows or Linux platforms. It supports creating depository databases in archive database or different database (see the configuration parameter [TNS_Service_Name_Trezor](#)). The procedure to use the script **Arc2Trezor.sql** is following:

1. Editing the script **Arc2Trezor.sql** and definition of parameters.
2. Running the script in **SqlPlus** and starting the saved procedure that will generate the file **Arc2Trezor_out.sql**.
3. If depository databases are being created in archive database or in different database:
 - execution of the file **Arc2Trezor_out.sql** in **SqlPlus** (depository in archive database),
 - execution of the file **Arc2Trezor_out.sql** in **SqlPlus**, creation and starting batch file (depository databases in different database).

1. Editing the script Arc2Trezor.sql and definition of parameters

1. Save the script [Arc2Trezor.sql](#) on a disk.
2. Modify the following parameters in the script header:

Parameter	Description
TrezorId	Number of depository database that is to be created. Positive integer (1,2,3,...) - later depository means a higher number.
AppName	Application name. The names of depository database tablespaces are to be composed of the application name and the number of depository database.
TrezorPath	Directory to store datafiles of depository database tablespace (see the configuration parameter TrezorPath). You must also enter the slash at the end. Example: <ul style="list-style-type: none">• C:\ora920\oradata\d2000\ (Windows)• /opt/ora9/oradata/D2000/ (Linux)
TrezorCountDatafiles	Number of datafiles in tablespace (see the configuration parameter TrezorCountDatafiles).
TrezorStartDatafileSize	Initial size of datafile (see the configuration parameter TrezorStartDatafileSize).
TrezorMaxDatafileSize	Maximum size of datafile (see the configuration parameter TrezorMaxDatafileSize).
TrezorDatafileSizeStep	Size of datafile increment (see the configuration parameter TrezorDatafileSizeStep).
StartDateUTC, EndDateUTC	Time interval of data exported to the depository database (in UTC time). <i>Note:</i> Values in depository database are saved in UTC time, values in Oracle archive usually in UTC + 2 hrs.

If depository database is in different database, you must also define the following parameters:

Parameters	Description
TrezorsInArchiveDatabase	Its value must be TRUE.
ArchivDBLogonInfo	Name, password and TNS for logon to archive (<i>aplikacia_archiv/swx@D2000</i> , by default).
TrezorDBLogonInfo	Name, password and TNS for logon to the database that will contain depository databases. The database must contain the archive tablespace that is available for the user <i>aplikacia_archiv</i> with the password <i>swx</i> . That tablespace must contain at least one empty table <i>Tabver</i> that belongs to the user <i>aplikacia_archiv</i> .
OSTypesWindows	TRUE if SqlPlus will be run on Windows or FALSE if on Linux. The database may be on optional platform.
ParallelLoading	The value of TRUE causes that data export from archive table will be executed in parallel with import of archive data from previous archive table. This setting speeds up the export and the import in case that the archive and the depository database are on different servers and data export/import is executed on workstation that is speed enough (mostly yes - the workstation can handle export as well as import).

2. Running the script in SqlPlus and starting saved procedure that will generate the file Arc2Trezor_out.sql

1. In the directory where the script *Arc2Trezor.sql* is placed, run **SqlPlus** and log on as the user *application_archiv*:
sqlplus aplikacia_archiv/swx@D2000
2. Run the SQL script that creates the saved procedure *Arc2Trezor*:
@Arc2Trezor;
3. Set the **SqlPlus** output formatting properties and redirect the output to the file:
SET SERVEROUTPUT ON
SET LINE 260
SPOOL .\Arc2Trezor_out.sql
Note: For Linux platforms, the last line is **SPOOL ./Arc2Trezor_out.sql**.
4. Run the procedure *Arc2Trezor*:
EXEC Arc2Trezor;
5. Disable the redirecting of the output to the file:
SPOOL OFF

3.A. If depository databases are in archive database: execution of the file *Arc2Trezor_out.sql* in **SqlPlus**

1. Using a text editor, remove the last line in the file *Arc2Trezor_out.sql*:
SQL> EXEC Arc2Trezor;
2. In the file *Arc2Trezor_out.sql* remove last three lines:
PL/SQL procedure successfully completed.

SQL> SPOOL OFF
3. Run creating the archive:
@Arc2Trezor_out;
4. Exit **SqlPlus**:
exit

3.B: If depository databases are in different database: execution of part of file, creation and running batch file

1. In the file *Arc2Trezor_out.sql* select the part that begins
REM / Start of CreateTrezor.sql */*
and ends
REM / End of CreateTrezor.sql */*
and copy it to the file *CreateTrezor.sql*
2. Run **SqlPlus** and log on as the user *application_archiv@depository_database_TNS*:
sqlplus aplikacia_archiv/swx@depository_database_TNS
3. By running the script *CreateTrezor.sql* in **SqlPlus** create depository database tablespace and basic depository database tables:
@CreateTrezor;
4. Exit **SqlPlus**:
exit
5. In the file *Arc2Trezor_out.sql* select the part that begins
REM / Start of Exp.bat */*
and ends
REM / End of Exp.bat */*
and copy it to the file *Exp.bat* in the work directory
6. Copy the file *d2expdt.sql* (located in the [installation directory](#) - the **Templates\Oracle** subdirectory) to the work directory.
7. Run
Exp.bat
to export data from the archive database into text files on your computer.
Note: If you do not have enough free space on your disk, enabling the compression of the directory, where the file *Exp.bat* is stored, reduces the required space (text files will be compressed).
Note: If the parameter *ParallelLoading=TRUE*, the file *Exp.bat* executes export along with import and leave out the following two steps.
8. In the file *Arc2Trezor_out.sql* select the part that begins
REM / Start of Imp.bat */*
and ends
REM / End of Imp.bat */*
and copy it to the file *Imp.bat* in the work directory.
9. Run
Imp.bat
to import the data from the text files into the depository database.
10. Run **SqlPlus** and log on as the user *application_archiv@depository_database_TNS*:
sqlplus aplikacia_archiv/swx@depository_database_TNS
11. Perform two commands ALTER TABLESPACE ... placed at the end of the file *Arc2Trezor_out.sql* below the line
REM / End of Imp.bat */*
and exit **SqlPlus**
exit

The procedure, described above, must be used for each new depository database. If you first want to reconfigure the archive to create depository database automatically and then create depository databases according to the method described above, it is necessary for the process [D2000 Archiv](#) to start creating depository databases not from the number of 1 but from e.g. 13 (if you want to create depository databases 1...12 manually according to the method above). To do that, insert the line containing the number of the last depository database you want to create manually into the table TREZORS in the database that will contain the depository databases:

```
INSERT INTO TREZORS(ID,TIME_FROM,TIME_TO,STATUS,DATAFILES) VALUES(12,SYSDATE,SYSDATE,40,1)
```

After the process **D2000 Archiv** is started, it begins to create the depository databases numbered from 13.

After you create the depository databases 1...12 manually, you must delete the inserted line to avoid creating lines with duplicate ID.



Related pages:

[Depository databases](#)