

**APPLIES TO:**

DATABASE EXPORT for HANA

**SUMMARY**

This article explains how to Perform the DATABASE EXPORT for HANA.

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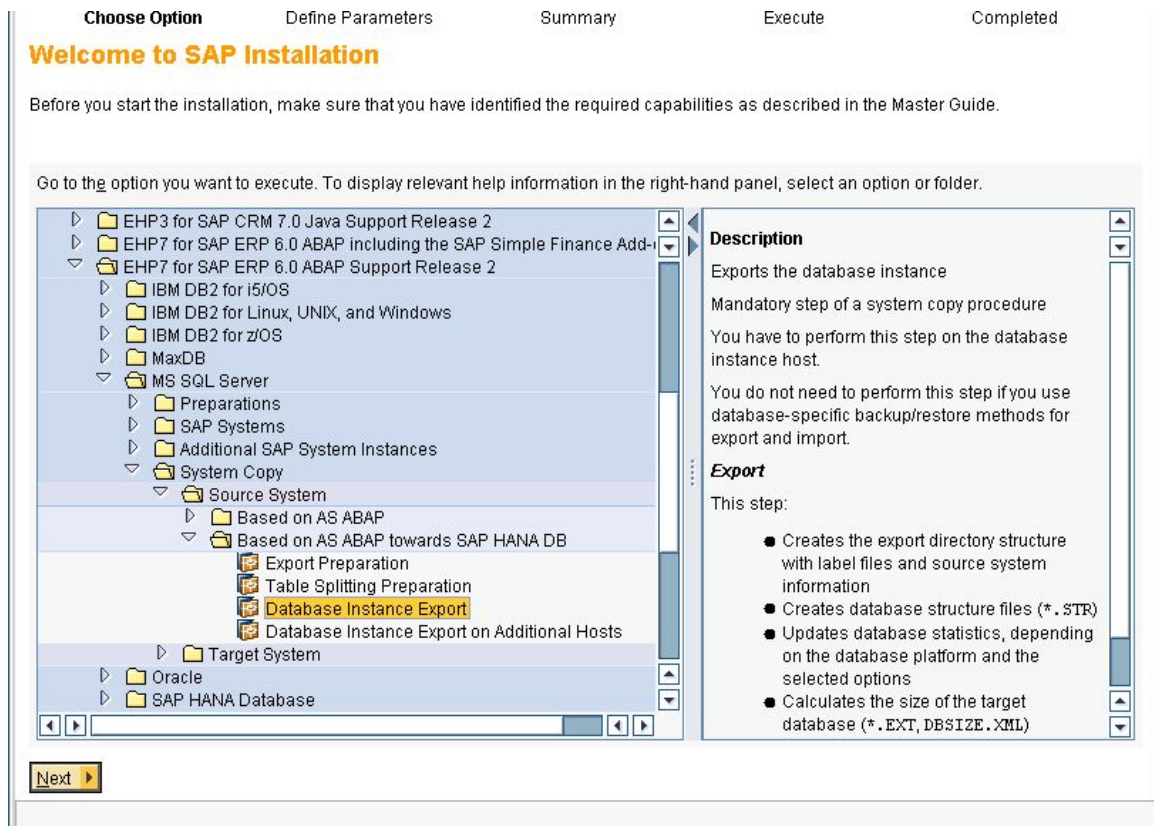


STEP 1:

Run SAPINST.exe

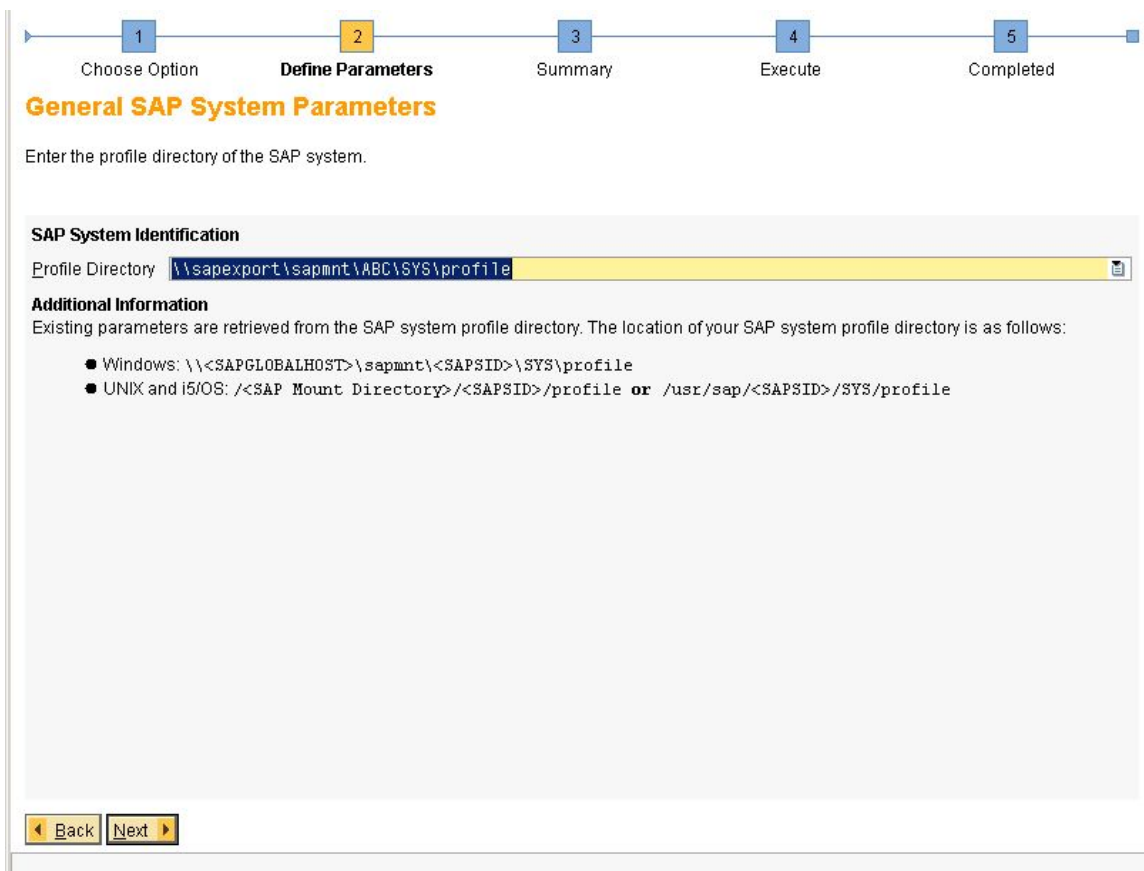
STEP 2:

- Select component
- Business Suite 7i 2013 Support Release 2 --> EHP7 for ERP 6.0 ABAP Support Release 2 --> MS SQL SERVER --> System Copy --> Source System --> Based on AS ABAP towards SAP HANA DB
- Then Click NEXT



## STEP 3:

## Specify Profile Path



1 Choose Option 2 **Define Parameters** 3 Summary 4 Execute 5 Completed

**General SAP System Parameters**

Enter the profile directory of the SAP system.

**SAP System Identification**

Profile Directory

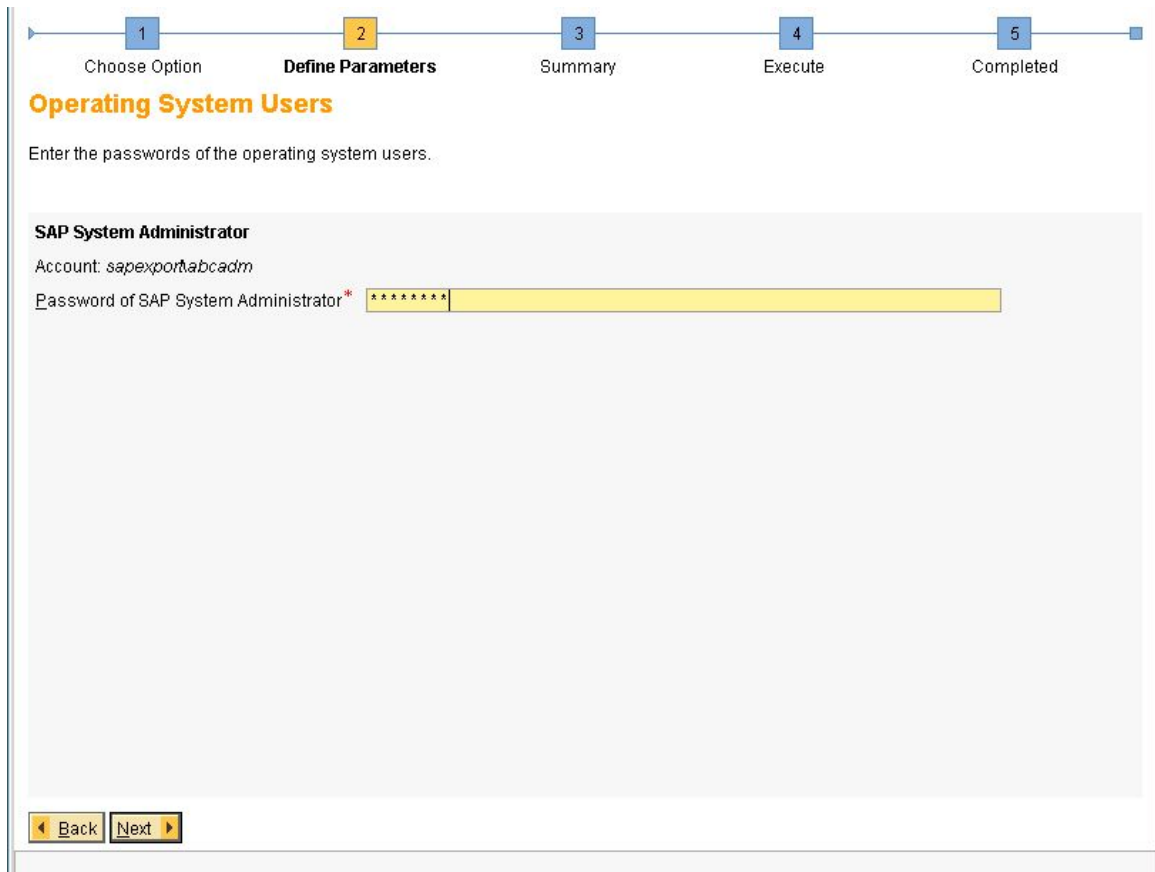
**Additional Information**

Existing parameters are retrieved from the SAP system profile directory. The location of your SAP system profile directory is as follows:

- Windows: \\<SAPGLOBALHOST>\sapmnt\<SAPSID>\SYS\profile
- UNIX and i5/OS: /<SAP Mount Directory>/<SAPSID>/profile or /usr/sap/<SAPSID>/SYS/profile

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### Specify SAP System administrator Password



1 Choose Option 2 **Define Parameters** 3 Summary 4 Execute 5 Completed

**Operating System Users**

Enter the passwords of the operating system users.

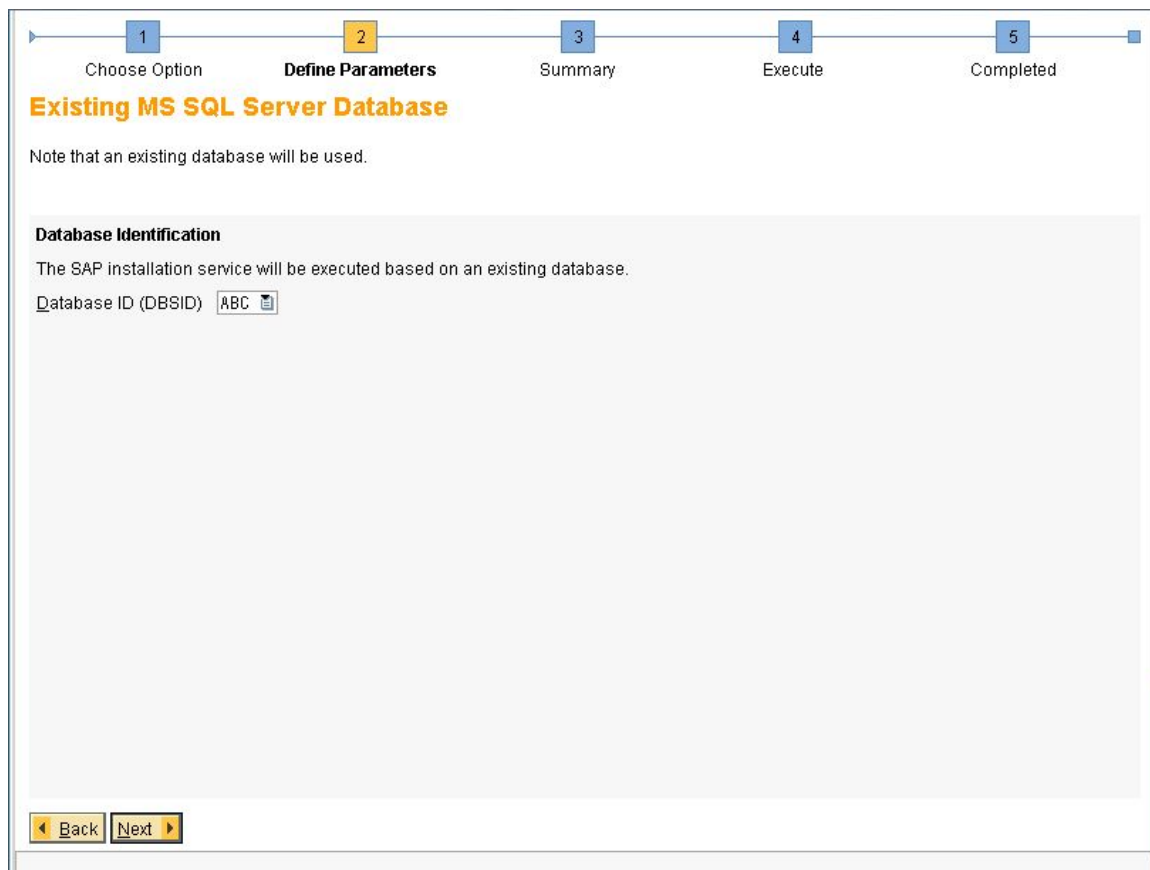
**SAP System Administrator**

Account: *sapexport@abcadm*

Password of SAP System Administrator\*

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Specify Existing Database SID. Default it will come.




1 Choose Option 2 **Define Parameters** 3 Summary 4 Execute 5 Completed




**Existing MS SQL Server Database**

Note that an existing database will be used.

**Database Identification**

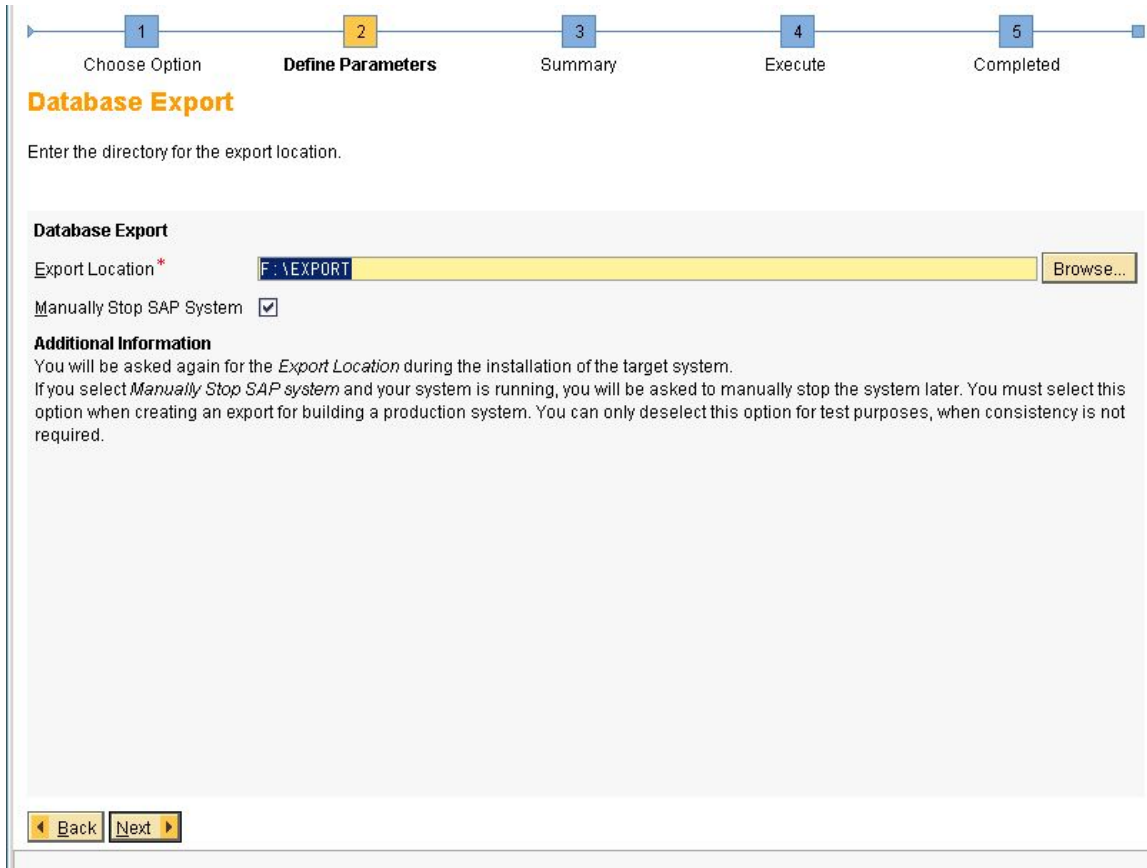
The SAP installation service will be executed based on an existing database.

Database ID (DBSID)  

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## STEP 6:

Enter the directory for the EXPORT Location



1 Choose Option 2 **Define Parameters** 3 Summary 4 Execute 5 Completed

**Database Export**

Enter the directory for the export location.

**Database Export**

Export Location\* F:\EXPORT Browse...

Manually Stop SAP System ☒

**Additional Information**

You will be asked again for the *Export Location* during the installation of the target system.

If you select *Manually Stop SAP system* and your system is running, you will be asked to manually stop the system later. You must select this option when creating an export for building a production system. You can only deselect this option for test purposes, when consistency is not required.

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## STEP 7:

Select No, skip the export and runs the export without SQL files

Choose Option   **Define Parameters**   Summary   Execute   Completed

**SAP System Report Execution**

Decide if you want to use SQL files generated by the SMIGR\_CREATE\_DDL report or not.

**Execution of Report SMIGR\_CREATE\_DDL**

SMIGR\_CREATE\_DDL   ☐ Yes, use the generated SQL files for the system copy export  
☒ No, skip the report and run the export without SQL files

SQL File Directory

**Additional Information**

Run the latest version of the SMIGR\_CREATE\_DDL report to generate SQL files for a correct database on the target system.

Avoid import errors or potential harm your target system by only choosing *No, skip the report and run the export without SQL files* in the following cases:

- Your source system is a standard ABAP system **without customer-modified objects and without an SAP\_BW component**
- SMIGR\_CREATE\_DDL ended **successfully** but did not generate SQL files

## STEP 8:

## Specify the Target System Database Type

Choose Option   **Define Parameters**   Summary   Execute   Completed

### SAP System Export for Target System

Specify the system parameters of the database that you want to install.

**Source System**

Database ID (DBSID)

Database Host

Source DB

Source OS

**Target System**

Target Database Type

**Export Settings**

Split STR Files ☒

Start Migration Monitor Manually ☐

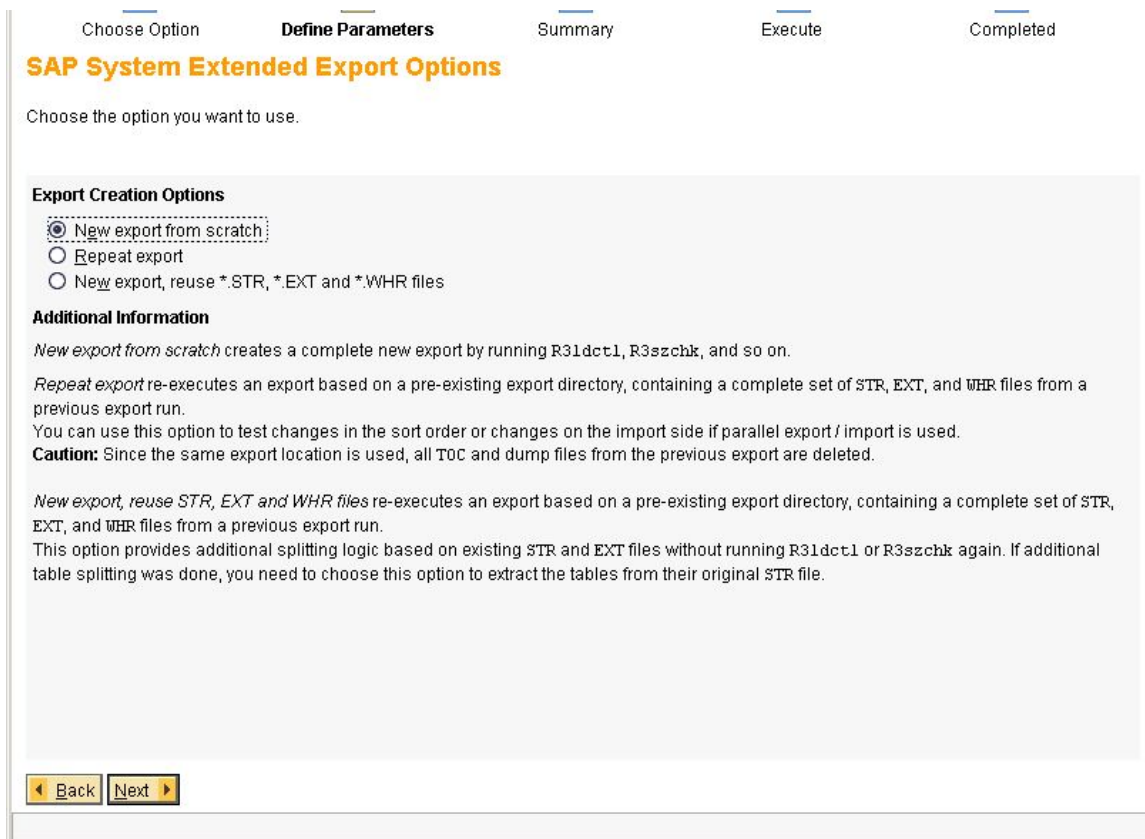
**Additional Information**

If you need to configure parameters that cannot be set by the system copy procedure, you start the *Migration Monitor* manually.



## STEP 9:

Select New export from scratch. Then Click NEXT



Choose Option   **Define Parameters**   Summary   Execute   Completed

### SAP System Extended Export Options

Choose the option you want to use.

**Export Creation Options**

- ☒ New export from scratch
- ☐ Repeat export
- ☐ New export, reuse \*.STR, \*.EXT and \*.WHR files

**Additional Information**

*New export from scratch* creates a complete new export by running R31dct1, R3szchk, and so on.

*Repeat export* re-executes an export based on a pre-existing export directory, containing a complete set of STR, EXT, and WHR files from a previous export run.

You can use this option to test changes in the sort order or changes on the import side if parallel export / import is used.

**Caution:** Since the same export location is used, all TOC and dump files from the previous export are deleted.

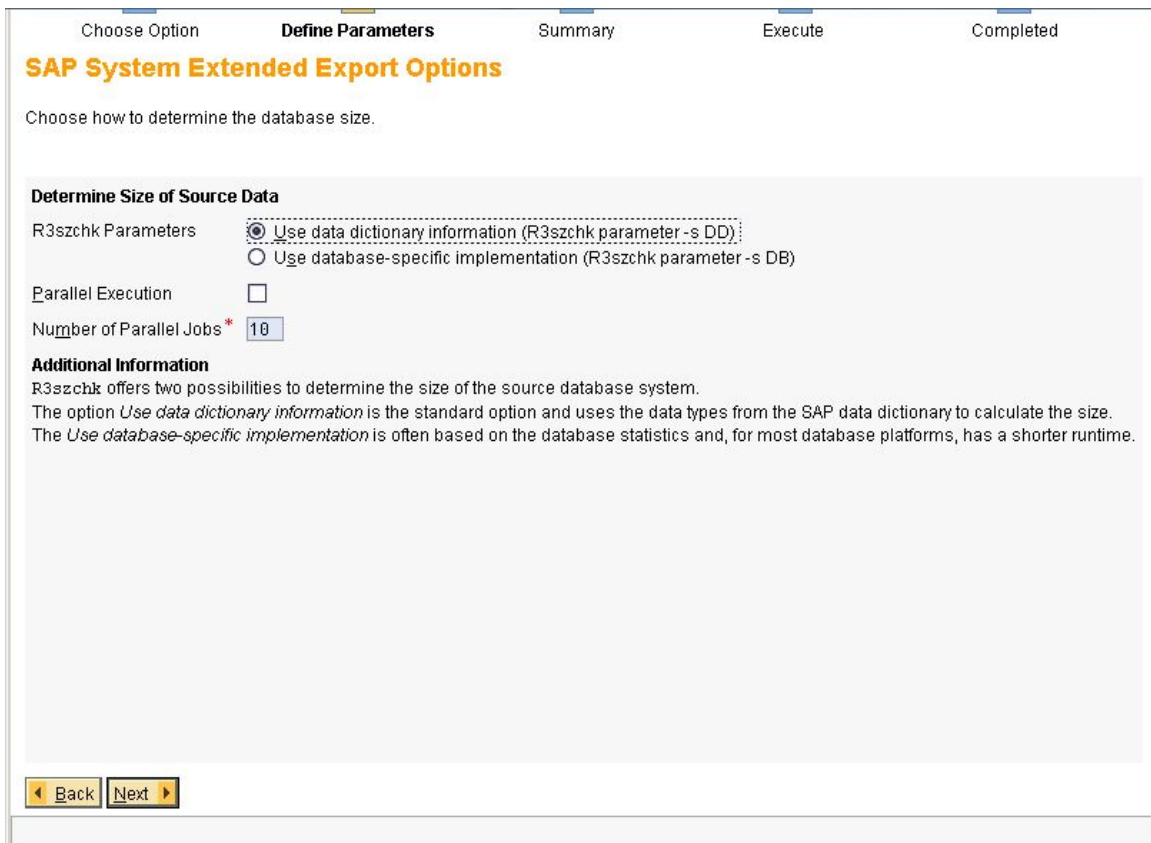
*New export, reuse STR, EXT and WHR files* re-executes an export based on a pre-existing export directory, containing a complete set of STR, EXT, and WHR files from a previous export run.

This option provides additional splitting logic based on existing STR and EXT files without running R31dct1 or R3szchk again. If additional table splitting was done, you need to choose this option to extract the tables from their original STR file.

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## STEP 10:

Select Use data dictionary information(R3szchk parameter-s DD). Then Click NEXT.



The screenshot shows the 'Define Parameters' step of the 'SAP System Extended Export Options' dialog. The 'Determine Size of Source Data' section has two radio buttons: 'Use data dictionary information (R3szchk parameter -s DD)' (selected) and 'Use database-specific implementation (R3szchk parameter -s DB)'. The 'Parallel Execution' checkbox is unchecked. The 'Number of Parallel Jobs' is set to 10. The 'Additional Information' section provides details about the two options. At the bottom, there are 'Back' and 'Next' buttons.

Choose Option   **Define Parameters**   Summary   Execute   Completed

**SAP System Extended Export Options**

Choose how to determine the database size.

**Determine Size of Source Data**

R3szchk Parameters   ☒ Use data dictionary information (R3szchk parameter -s DD)   ☐ Use database-specific implementation (R3szchk parameter -s DB)

Parallel Execution   ☐

Number of Parallel Jobs \*   10

**Additional Information**

R3szchk offers two possibilities to determine the size of the source database system.  
The option *Use data dictionary information* is the standard option and uses the data types from the SAP data dictionary to calculate the size.  
The *Use database-specific implementation* is often based on the database statistics and, for most database platforms, has a shorter runtime.

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## STEP 11:

Enter the parameter for the java splitting tool

Choose Option

Define Parameters

Summary

Execute

Completed

### SAP System Split STR Files

Enter the parameters for the Java splitting tool.

**Splitting Tool Parameters**

Largest Tables in Separate Packages	<input checked="" type="checkbox"/>
Number of Tables to Be Extracted*	<input type="text" value="10"/>
Split Packages with Size More than Limit	<input checked="" type="checkbox"/>
Package Size Limit [MB]*	<input type="text" value="1000"/>
Split Packages by Number of Tables	<input type="checkbox"/>
Number of Tables Limit*	<input type="text" value="1000"/>
Extract Tables with Size More than Limit	<input checked="" type="checkbox"/>
Table Size Limit [MB]*	<input type="text" value="300"/>
Split Predefined Tables	<input type="checkbox"/>
Table Input File*	<input type="text"/> <input type="button" value="Browse..."/>

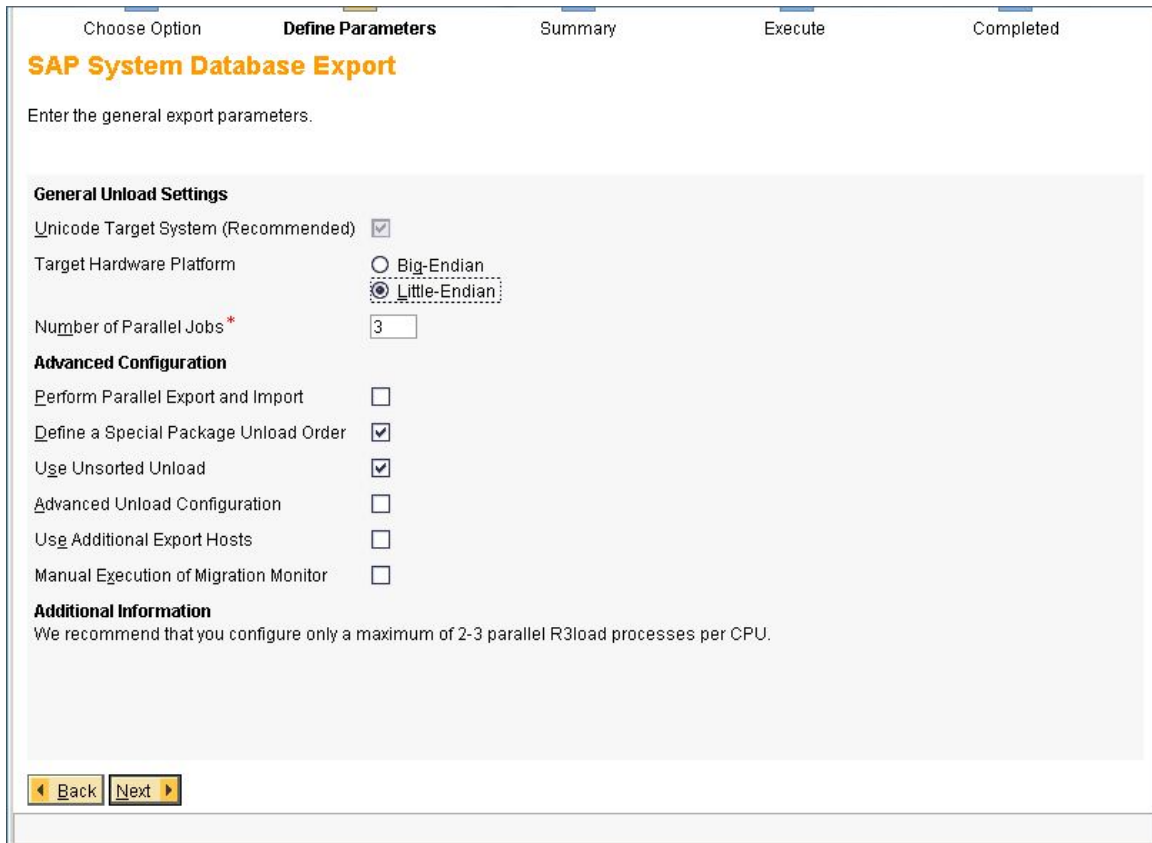
**Additional Information**

If you want to split by *Number of Largest Tables*, by *Package Size Limit*, or by *Table Size Limit* (first three splitting options), EXT files are mandatory and have to be created during the export.

If EXT files do not exist for your database platform, the first three options are ignored if selected, and you have to specify an input file.

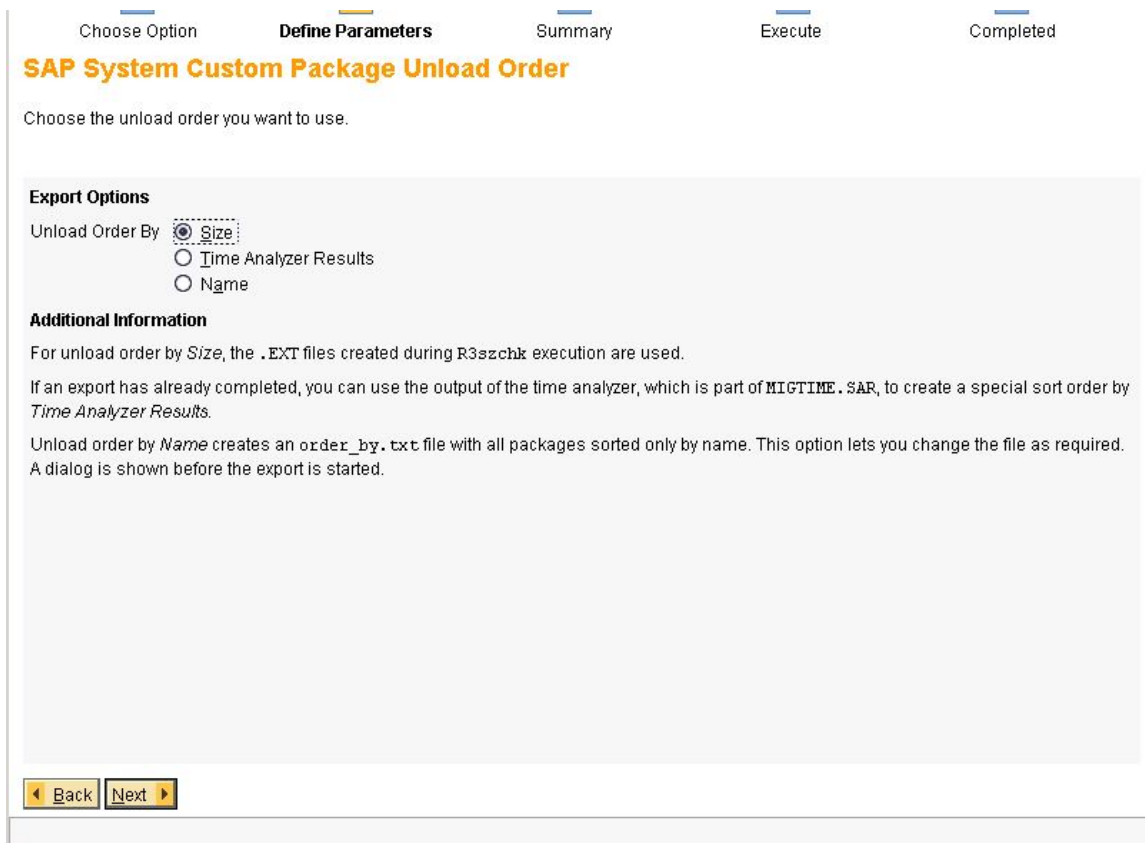
## STEP 12:

Enter the general export parameters. Then click NEXT.



## STEP 13:

Choose the unload order you want to use.  
Select Size. Then click NEXT



Choose the unload order you want to use.

**Export Options**

Unload Order By ☒ Size  
☐ Time Analyzer Results  
☐ Name

**Additional Information**

For unload order by *Size*, the .EXT files created during R3szchk execution are used.

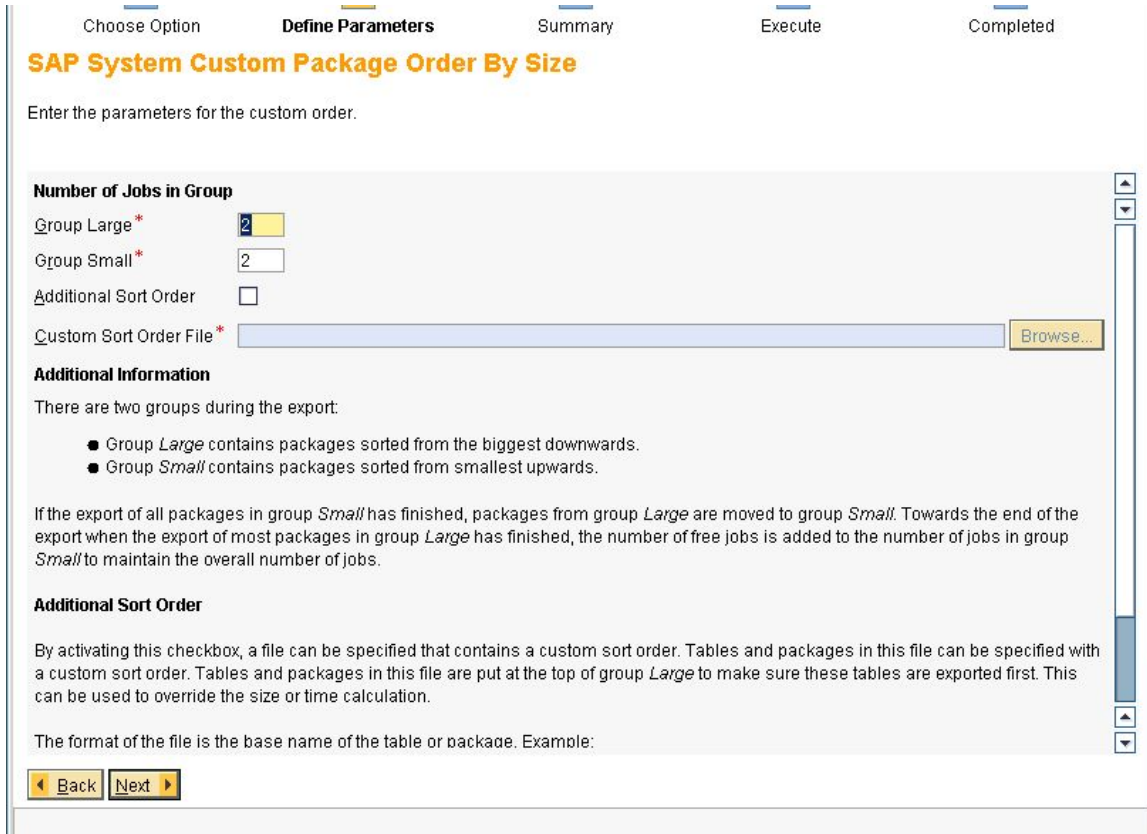
If an export has already completed, you can use the output of the time analyzer, which is part of **MIGTIME.SAR**, to create a special sort order by *Time Analyzer Results*.

Unload order by *Name* creates an order\_by.txt file with all packages sorted only by name. This option lets you change the file as required. A dialog is shown before the export is started.

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## STEP 14:

Enter the parameter for the Custom order. Then Click NEXT.



The screenshot shows the 'Define Parameters' step of the 'SAP System Custom Package Order By Size' process. The dialog has a progress bar at the top with five steps: 'Choose Option', 'Define Parameters' (current), 'Summary', 'Execute', and 'Completed'. The main title is 'SAP System Custom Package Order By Size'. Below the title, it says 'Enter the parameters for the custom order.'.

**Number of Jobs in Group**

Group Large\*

Group Small\*

Additional Sort Order ☐

Custom Sort Order File\*

**Additional Information**

There are two groups during the export:

- Group *Large* contains packages sorted from the biggest downwards.
- Group *Small* contains packages sorted from smallest upwards.

If the export of all packages in group *Small* has finished, packages from group *Large* are moved to group *Small*. Towards the end of the export when the export of most packages in group *Large* has finished, the number of free jobs is added to the number of jobs in group *Small* to maintain the overall number of jobs.

**Additional Sort Order**

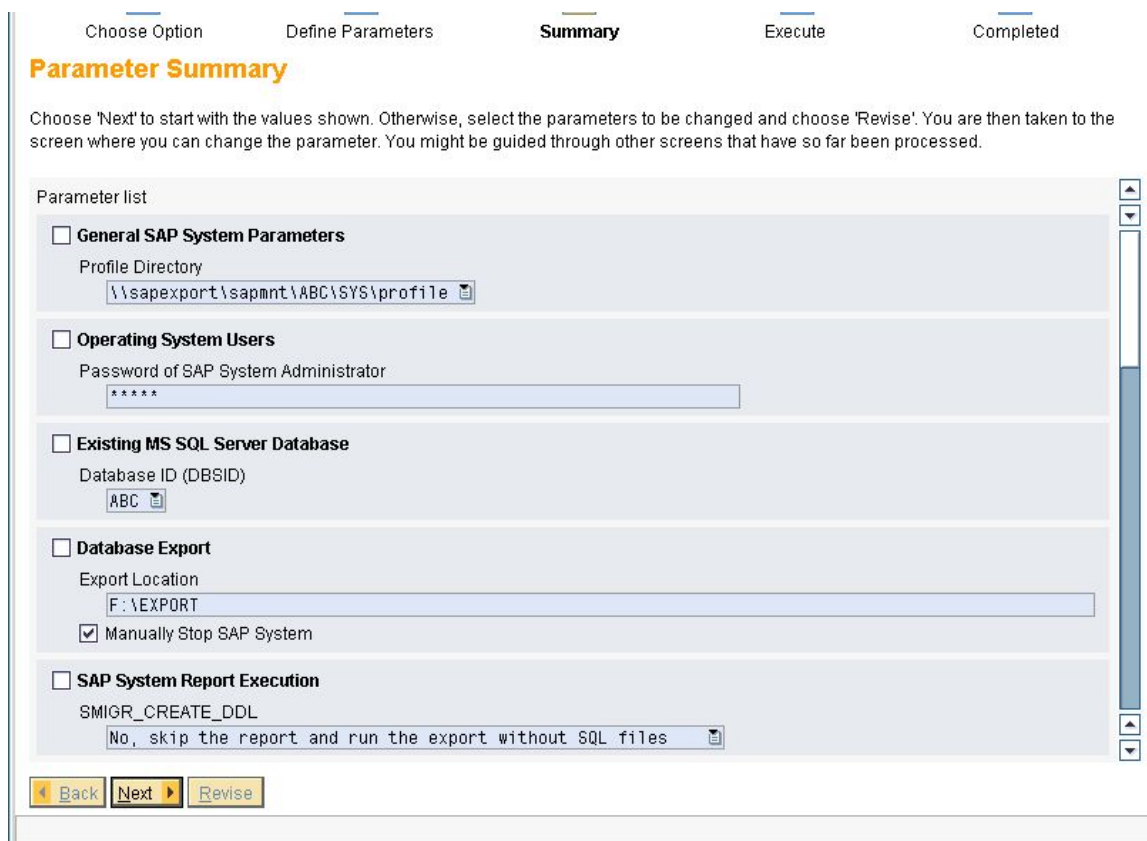
By activating this checkbox, a file can be specified that contains a custom sort order. Tables and packages in this file can be specified with a custom sort order. Tables and packages in this file are put at the top of group *Large* to make sure these tables are exported first. This can be used to override the size or time calculation.

The format of the file is the base name of the table or package. Example:



STEP 15:

Check Parameter Summary. Then Click NEXT.



Choose Option   Define Parameters   **Summary**   Execute   Completed

### Parameter Summary

Choose 'Next' to start with the values shown. Otherwise, select the parameters to be changed and choose 'Revise'. You are then taken to the screen where you can change the parameter. You might be guided through other screens that have so far been processed.

Parameter list

- ☐ **General SAP System Parameters**  
Profile Directory  
\\sapexport\sapmnt\ABC\SYS\profile
- ☐ **Operating System Users**  
Password of SAP System Administrator  
\*\*\*\*\*
- ☐ **Existing MS SQL Server Database**  
Database ID (DBSID)  
ABC
- ☐ **Database Export**  
Export Location  
F:\EXPORT  
☒ Manually Stop SAP System
- ☐ **SAP System Report Execution**  
SMIGR\_CREATE\_DDL  
No, skip the report and run the export without SQL files

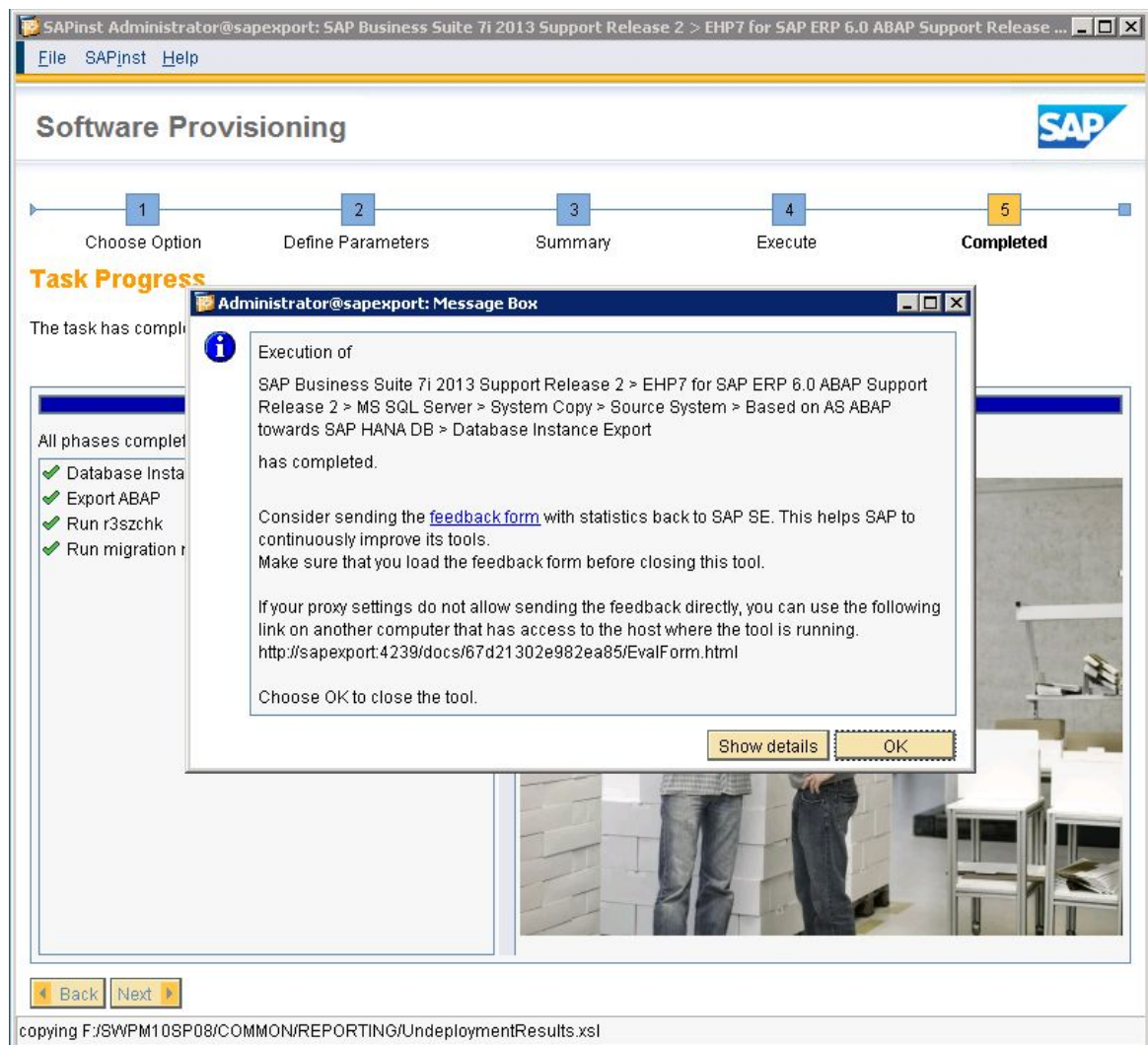
Back   **Next**   Revise

STEP 16:

Export Process Running

STEP 17:

Export Process Successfully Completed.



### Related Content:

<http://service.sap.com>  
<http://support.sap.com>  
[www.help.sap.com](http://www.help.sap.com)  
[www.sdn.sap.com/irj/sdn/index](http://www.sdn.sap.com/irj/sdn/index).

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