


## HOMOGENEOUS SYSTEM COPY IN SAP HANA

### Software Provisioning



1

Choose Option

2

Define Parameters

3

Summary

4

Execute

5

Completed

### Welcome to SAP Installation

Before you start the installation, make sure that you have identified the required capabilities as described in the Master Guide.

Go to the option you want to execute. To display relevant help information in the right-hand panel, select an option or folder.

▼

SAP Business Suite powered by SAP HANA

▼

▼

SAP Business Suite 7i 2013 Support Release 2

▼

▶

EHP3 for SAP CRM 7.0 ABAP Support Release 2

▶

EHP3 for SAP CRM 7.0 Java Support Release 2

▶

EHP7 for SAP ERP 6.0 ABAP including the SAP Simple Finance Add-on

▼

EHP7 for SAP ERP 6.0 ABAP Support Release 2

▼

▶

IBM DB2 for Linux, UNIX, and Windows

▶

IBM DB2 for z/OS

▶

MaxDB

▶

Oracle

▼

SAP HANA Database

▼

▶

Preparations

▶

SAP Systems

▶

Additional SAP System Instances

▼

System Copy

▼

▶

Source System

▼

Target System

▼

▶

Standard System

▼

Based on AS ABAP

▼

▶

Standard System

▶

Database Refresh or Move

▶

Distributed System

▶

High-Availability System

▶

SAP ASE

▶

EHP7 for SAP ERP 6.0 Java Support Release 2

◀ ▶

◀ ▶

Description

Installs an EHP7 for SAP ERP 6.0 ABAP Support Release 2 ABAP system with all instances except the database instance on one host

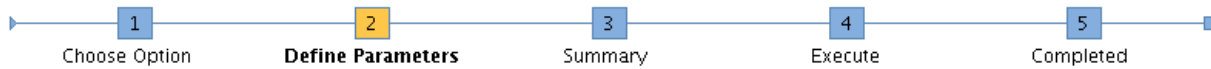
**Note:**  
You can also install SAP systems based on SAP Netweaver Application Server ABAP 7.4 on the same host as the SAP HANA database, without applying additional environment settings.  
Prerequisite: For the SAP Netweaver AS ABAP 7.4-based system, you must use a <SAPSID> that is different from the <DBSID> of the SAP HANA database.  
For more information, see [SAP Note 1953429](#).

**SAP System Instances**  
Mandatory instances of an EHP7 for SAP ERP 6.0 ABAP Support Release 2 ABAP system are:

- ABAP central services instance (ASCS instance)
- Database instance
- Primary application server instance

You can have one or more additional...

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## Parameter Settings

Choose whether you want to run the installation in a typical or a custom mode.

### Parameter Settings

Parameter Mode ☒ Typical  
☐ Custom

### Additional Information

You can run the installation either in a typical or a custom mode:

- **Typical Mode**

If you choose *Typical*, the option is performed with default settings. As a result, you only have to respond to a small selection of prompts. If you want to change any of the default settings, you can do so on the *Parameter Summary* screen.

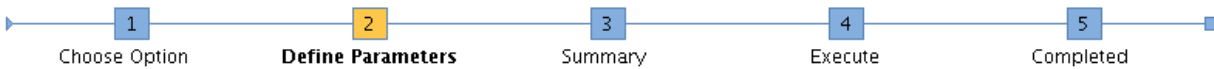
Note that if you choose the *Typical* setting and then choose *Back* after processing one or more input screens, the *Custom* setting is activated. You are now guided through all screens with the default parameters that have been applied in the background so far.

- **Custom Mode**

If you choose *Custom*, you are prompted for all parameters. At the end, you can still change any of these parameters on the *Parameter Summary* screen.

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## General SAP System Parameters

Enter the SAP system ID.

### SAP System

SAP System ID (SAPSID)\*

SA1

SAP Mount Directory

/sapmnt

Browse...

Unicode System (Recommended) ☒

### Additional Information

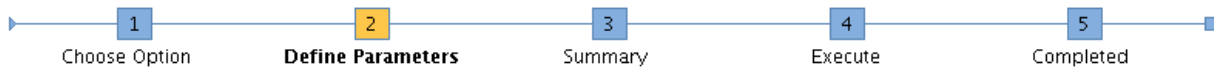
The *SAP System ID* is an identifier for your SAP system. It must be unique throughout your system landscape.

The system is installed under `/usr/sap/<SAPSID>/...`. Common directories are linked to `<SAP Mount Directory>/<SAPSID>/...`

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## Software Provisioning



### Media Browser

Enter the location of the required software packages.

#### Software Package Request

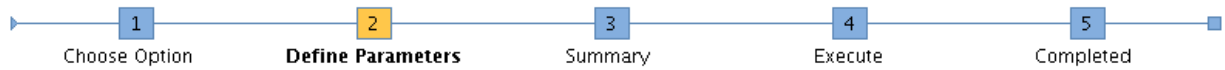
Medium	Package Location	
UC Kerne1 NW740 SR2	/HANA_SW/51049350_Linu/LABELIDX.ASC	<a href="#">Browse</a>

#### Additional Information

The required software packages available on the medium are detected using the identification files LABEL.ASC or LABELIDX.ASC. If there is a complete medium available on the installation host, you only need to enter the path to the root directory of the medium in the *Package Location* column.

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## Master Password

Enter the master password for all users.

### Master Password

The master password is used for all users that are created, as well as for the secure store key phrase. Check the F1 help for restrictions and dependencies.

Password for All Users \*

Confirm \*

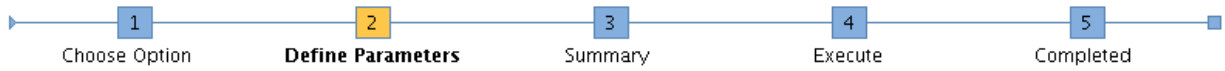
### Additional Information

If you want to set an individual password for each user, you can do this in the corresponding parameter section on the *Parameter Summary* screen.

If you set individual passwords, a new master password does not overwrite these individual settings.



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## SAP System Database

Select the database copy method.

### Target Database

Copy Method

- ☐ Standard System Copy / Migration (Load-Based)  
☒ Homogeneous System Copy (SAP HANA-specific Backup/Recovery)

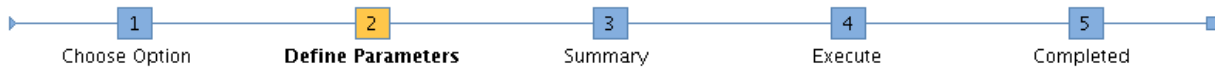
Start Migration Monitor Manually ☐

### Additional Information

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

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## Database for SAP System

Enter the database parameters.

### SAP HANA Database or Database Tenant

Database ID (DBSID)\*

Database Host\*

Instance Number of the SAP HANA Database\*

Password of the SAP HANA Database System Administrator\*

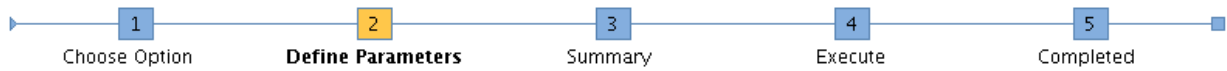
### Additional Information

Specify the connectivity data of the database to be used for the SAP system.

If you are using SAP HANA multitenant database container, specify the SID and the password of the database tenant. The instance number and the hostname has to be from the system database. The database tenant will be created if it doesn't exist.

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## Database for SAP System

Enter the database parameters.

### SAP HANA Database or Database Tenant

Database ID (DBSID) \*

Database Host \*

Instance Number of the SAP

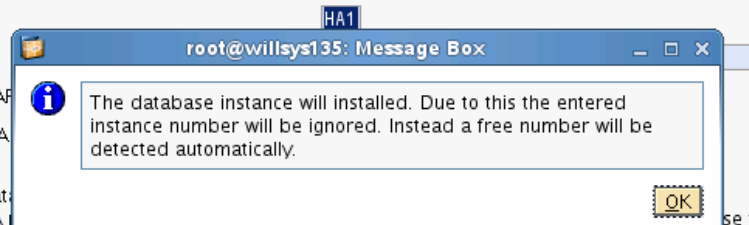
Password of the SAP HANA

#### Additional Information

Specify the connectivity data

If you are using SAP HANA

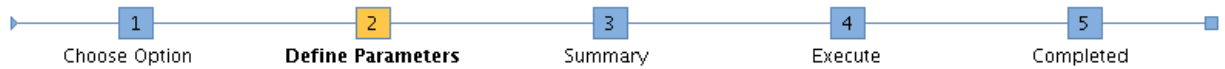
number and the hostname has to be from the system database. The database tenant will be created if it doesn't exist.



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Verifying connectivity data





## SAP HANA Client Software Installation Path

Decide on the client path strategy.

### Client Path Strategy

Client Software Path ☒ Local Client Directory  
☐ Central Client Directory

### Additional Information

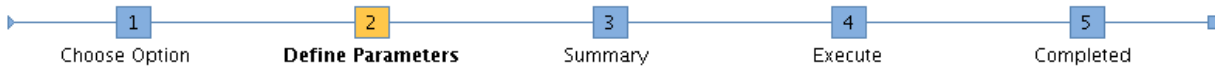
Choose *Local Client Directory* for installing the client locally on each server to `/usr/sap/<SID>/hdbclient`.

Choose *Central Client Directory* to install into a central directory `$DIR_CT_RUN/hdbclient`.

In this case sapcpe is enabled for the client software. During a restart the instance client is automatically kept up-to-date.

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## Media Browser

Enter the location of the required software packages.

### Software Package Request

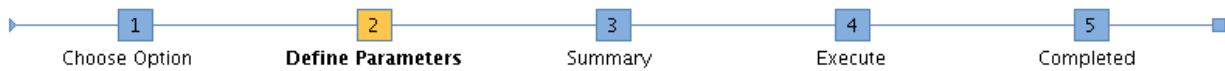
Medium	Package Location	
RDBMS HANA Client	/HANA_SW/51049354_Hana/LABEL.ASC	<a href="#">Browse...</a>

### Additional Information

The required software packages available on the medium are detected using the identification files LABEL.ASC or LABELIDX.ASC. If there is a complete medium available on the installation host, you only need to enter the path to the root directory of the medium in the *Package Location* column.

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## Database Schema

Enter the database schema password.

### Database Schema

Database ID	HA1
Database Host	w111sys135
Instance Number of the SAP HANA Database	02
Schema*	DBACOCKPIT
Drop Existing Schema	<input type="checkbox"/>
Schema Password*	*****
Confirm*	*****

### Additional Information

Follow the relevant instructions for your scenario:

- **Installation / System Copy / Migration (Load-Based)**

The schema must either not exist in the database or if it exists, the checkbox for dropping the existing schema must be checked, in which case all data in the existing schema is deleted.

The only exception is the DBACOCKPIT schema, which can be used by multiple systems and does not have to be dropped if it exists.

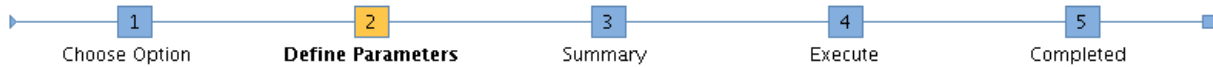
- **Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)**

For a SAP HANA-specific system copy, the schema name must be present in the database backup to be restored.

- **System Rename**

Verify that the schema name is the correct one for the system to be renamed and enter the password.





## Database Schema

Enter the database schema password.

### Database Schema

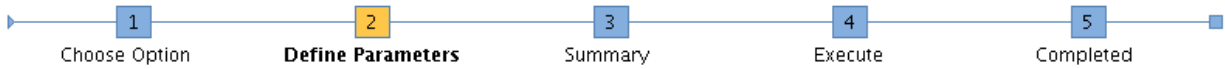
Database ID	HA1
Database Host	willsys135
Instance Number of the SAP HANA Database	02
Schema*	SAPABAP1
Drop Existing Schema	<input type="checkbox"/>
Schema Password*	*****
Confirm*	*****

### Additional Information

Follow the relevant instructions for your scenario:

- **Installation / System Copy / Migration (Load-Based)**  
The schema must either not exist in the database or if it exists, the checkbox for dropping the existing schema must be checked, in which case all data in the existing schema is deleted.  
The only exception is the DBACOCKPIT schema, which can be used by multiple systems and does not have to be dropped if it exists.
- **Homogeneous System Copy (SAP HANA-Specific Backup / Recovery)**  
For a SAP HANA-specific system copy, the schema name must be present in the database backup to be restored.
- **System Rename**  
Verify that the schema name is the correct one for the system to be renamed and enter the password.

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## Database Recovery

Specify the name of the backup to restore.

### Database Backup

Backup Location\*

Backup Name\*

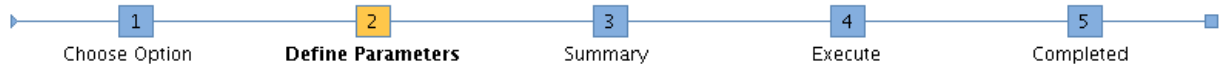
Do not check whether backup exists ☒

### Additional Information

The *Backup Name* must correspond to a set of backup files located in the *Backup Location*.



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## SAP HANA License

Enter the path to a SAP HANA license file that is valid for the target database.

### SAP HANA License Installation

SAP HANA License ☐ Install a new SAP HANA license  
☒ Do not install a new SAP HANA license

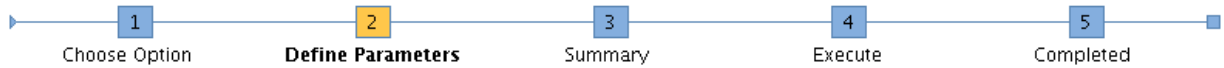
SAP HANA License File \*  [Browse...](#)

### Additional Information

A new SAP HANA license is required if a backup is recovered on a different SAP HANA instance.



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## SLD Destination for the SAP System OS Level

Enter the destination of the System Landscape Directory (SLD).

### Register in System Landscape Directory

- ☐ Use existing SLD for registration  
☒ No SLD destination

### Connect Data for Existing SLD

Use HTTPS ☐

SLD Host\*

SLD HTTP(S) Port\*

SLD Data Supplier User\*

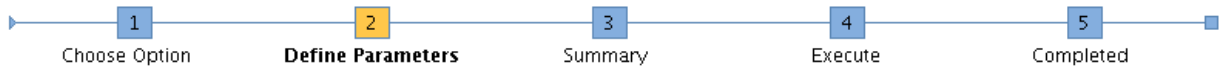
Password of SLD Data Supplier User\*

### Additional Information

The System Landscape Directory (SLD) should register the installed software of your entire system landscape. The SLD destination is configured in the file system and can be used by the SAP application server kernel as described in the SAP Notes [1717846](#) and [1018839](#). After you have completed this configuration, the sapstartsrv data supplier is enabled to send operating system information to the SLD.

After installation has finished, you perform the **technical configuration** as described in the installation guide to complete the SLD configuration of the SAP NetWeaver application server.





### SAP System DDIC Users

Enter the password of DDIC user.

#### DDIC Users in SAP System Clients

Account: *DDIC*, client *000*

Password of DDIC in Client 000 in the Source System\*

#### Additional Information

An RFC connection needs to be created to the system that you are installing.

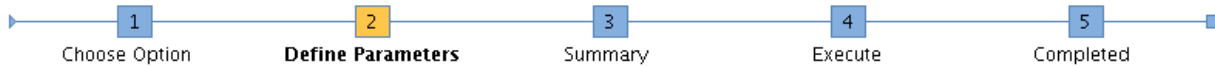
An *SAP System Client* is a self-contained unit in an SAP system with separate master records and its own set of tables. ABAP user data is *SAP System Client*-specific.



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## Secure Storage Key Generation

Decide whether you want to generate an individual key for the secure store of the SAP system.

### Secure Storage Individual Key Information

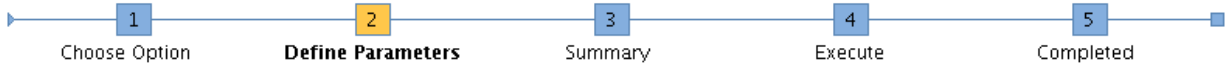
- ☐ Individual Key (Recommended for Productive Systems)  
☒ Default Key

### Additional Information

You can choose between using an *Individual Key* for the encryption of confidential data or keeping the *Default key*, which provides obfuscation only.

- New installation from scratch, target system installation for system copy, system rename:  
If you choose *Individual Key (Recommended for Productive Systems)*, you must back up the displayed key in the upcoming message **before** it is used to encrypt the secure storage in the file system.
- New installation from scratch:  
The key is also used to encrypt the secure storage in the database.

For more information, see the installation, system copy, system rename guides for SAP systems based on SAP NetWeaver 7.1 and higher at: <http://service.sap.com/slttoolset>



## Unpack Archives

Select the archives you want to unpack.

### SAP System Archives

The installation procedure has determined that the selected archives have to be unpacked. Choose *Next* to unpack the archives automatically from the media to the SAP global host.

#### Archives to Be Unpacked

Unpack	Archive	Codepage	Destination	Downloaded To	
<input checked="" type="checkbox"/>	DBINDEP/SAPEXE.SAR	Unicode	/usr/sap/SA1/SYS/exe/uc/linu...		<a href="#">Browse...</a>
<input checked="" type="checkbox"/>	HDB/SAPEXEDB.SAR	Unicode	/usr/sap/SA1/SYS/exe/uc/linu...		<a href="#">Browse...</a>
<input checked="" type="checkbox"/>	DBINDEP/IGSEXE.SAR	Unicode	/usr/sap/SA1/SYS/exe/uc/linu...		<a href="#">Browse...</a>
<input checked="" type="checkbox"/>	DBINDEP/IGSHELPER.SAR	Unicode	/usr/sap/SA1/DVEBM6S00		<a href="#">Browse...</a>

#### Additional Information

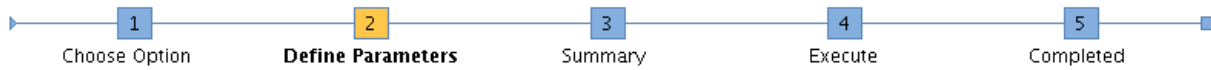
If you have downloaded newer versions of these archives from SAP Service Marketplace, enter their locations in the *Downloaded To* column.

Deselect *Unpack* for archives that you want to unpack manually; for instance if the destination is located on a network share for which the installation user does not have write permissions.

#### Additional Information for SAP HANA

If you are installing a product based on SAP HANA please download the latest SAPEXE.SAR and SAPEXEDB.SAR of your SAP kernel from the SAP Service Marketplace and enter their respective download locations in the *Downloaded To* column. If you are installing a product based on kernel version 7.20 please use the archives of kernel version 7.21.


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## Install Diagnostics Agent



Define your Diagnostics Agent installation strategy and decide whether to install the Diagnostics Agent for diagnostics in SAP Solution Manager.

### Diagnostics Agent for Diagnostics in SAP Solution Manager

 Install Diagnostics Agent

#### Additional Information

It is recommended to **not install** the Diagnostics Agent together with the managed system when using *Agents On-the-fly* functionality. Refer to SAP Note [1365123](#) for guidance and details.

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## 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

#### ☐ Parameter Settings

Parameter Mode

Typical

#### ☐ General SAP System Parameters

SAP System ID (SAPSID)

SA1

SAP Mount Directory

/sapmnt

#### ☐ Master Password

Password for All Users

\*\*\*\*\*

#### ☐ SAP System Database

Copy Method

Homogeneous System Copy (SAP HANA-specific Backup/Recovery)

#### ☐ Database for SAP System

Database ID (DBSID)

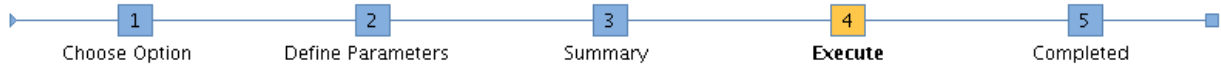
HA1

Database Host

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## Task Progress

Running phase: Create users for SAP system

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- ✓ Standard System
- Create users for SAP system
- ◇ Install common system files
- ◇ Unpack SAP archives
- ◇ Install SAP HANA Database Client
- ◇ Create and load database
- ◇ Install SAP HANA Database
- ◇ Create database schema: DBACOCKPIT
- ◇ Create database schema: SAPABAP1
- ◇ Perform database recovery using backup: today\_1
- ◇ Setup database connection information
- ◇ Perform post-load activities
- ◇ Install primary application server instance
- ◇ Install instance basics of ASCS01
- ◇ Create ICM userstore
- ◇ Configure SLD Destination
- ◇ Create Message Server Access Control List
- ◇ Start instance
- ◇ ABAP post installation activities
- ◇ Check DDIC password

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Defining environment for user sa1adm...