

Installation of SAP Systems Based on the Application Server ABAP of SAP NetWeaver 7.3 EHP1 to 7.52 on UNIX: SAP MaxDB

[Download PDF](#)

This document ▾ Enter keywords or a product name



Advanced Search ▾

[Home](#) / [Installation Options Covered by this Guide](#) /

Table of Contents

**High-Availability System**[Additional Application Server Instance](#)[Splitting off an ABAP Central Services Instance from an Existing Primary Application Server Instance](#)[ASCS Instance with Integrated SAP Web Dispatcher](#)[< Previous](#)[Next >](#)

High-Availability System ☆ 10.6



Aa

An SAP system consists of SAP instances. An SAP instance is a group of processes that are started and stopped at the same time.

In a **high-availability** system, every instance can run on a separate host.

There are the following instances:

- ABAP central services instance (ASCS instance)

Contains the ABAP message server and the Standalone Enqueue Server

Note

ASCS instance with "Standalone Enqueue Server" versus ASCS instance with new "Standalone Enqueue Server 2": Software Provisioning Manager 1.0 installs the "Standalone Enqueue Server" by default for all SAP system releases in the ASCS instance. However, if you have installed the ASCS instance for an SAP system based on SAP NetWeaver AS for ABAP 7.52, you can switch to the new "Standalone Enqueue Server 2" after the installation has completed. For more information, see <https://help.sap.com/nw752abap> Application Help > SAP NetWeaver Library: Function-Oriented View > SAP NetWeaver Application Server for ABAP > Components of SAP NetWeaver Application Server for ABAP > Standalone Enqueue Server 2 > High Availability with Standalone Enqueue Server 2, and Systems Based on SAP NetWeaver AS for ABAP 7.52 only: Switching to Standalone Enqueue Server 2 and Enqueue Replicator 2.

- Optionally you can install the ASCS instance with an integrated SAP Web Dispatcher. For more information, see [ASCS Instance with Integrated SAP Web Dispatcher](#).
- Optionally you can install the ASCS instance with an integrated gateway. For more information, see [ASCS Instance with Integrated Gateway](#).
- ERS instance for the ASCS instance (mandatory)

The ERS instance contains the replication table, which is a copy of the lock table of the Standalone Enqueue Server in the ASCS instance.

Note

ERS instance with "Enqueue Replication Server" versus ERS instance with new "Enqueue Replicator 2": Software Provisioning Manager 1.0 installs the ERS instance with the classic "Enqueue Replication Server" by default for all SAP system releases. However, if you have installed the ERS instance for an SAP system based on SAP NetWeaver AS for ABAP 7.52, you can switch to "Enqueue Replicator 2" after the installation has completed. For more information, see <https://help.sap.com/nw752abap> Application Help > SAP NetWeaver Library: Function-Oriented View > SAP NetWeaver Application Server for ABAP > Components of SAP NetWeaver Application Server for ABAP > Standalone Enqueue Server 2, and Systems Based on SAP NetWeaver AS for ABAP 7.52 only: Switching to Standalone Enqueue Server 2 and Enqueue Replicator 2.

- Database instance (DB)
- Primary application server instance (PAS)

The graphics below each assumes that you run the ASCS instance and the ERS instance on the switchover cluster infrastructure. However, you can also run other SAP system instances that are a single point of failure (SPOF) on a switchover cluster infrastructure, for example the database instance.

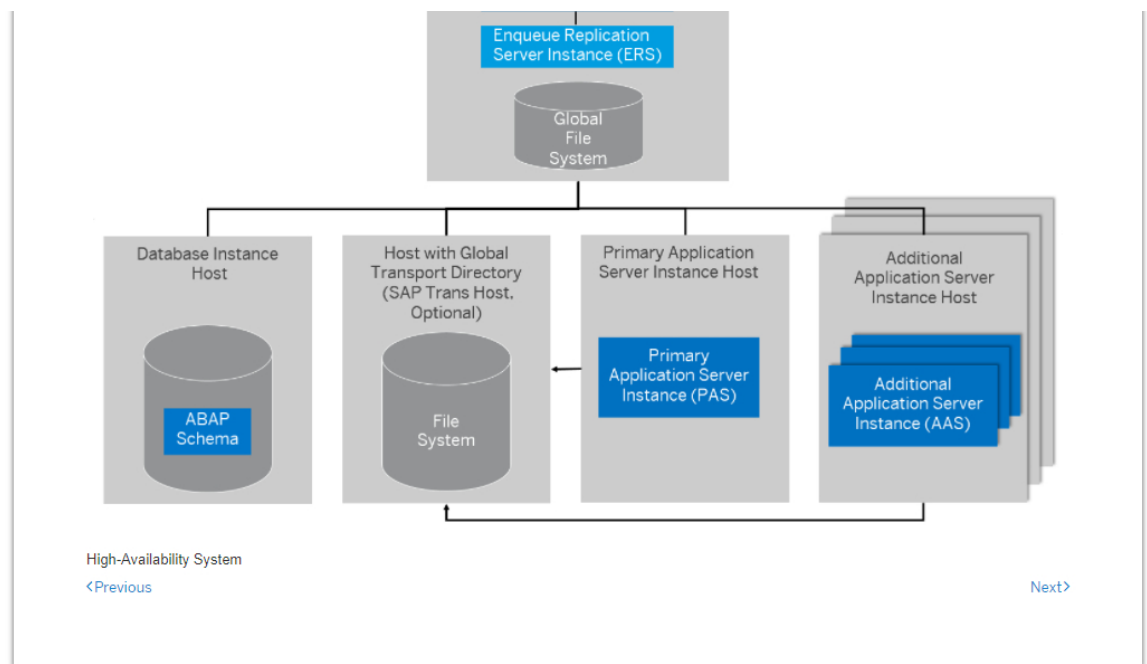
We recommend that you run the ASCS instance in a switchover cluster infrastructure.

To increase high availability by creating redundancy, we recommend that you install additional application server instances on hosts different from the primary application server instance host. For more information, see [Installation of an Additional Application Server Instance](#).

The following figure shows an example for the distribution of the SAP system instances in a high-availability system.

Switchover Cluster Infrastructure

ABAP Central Services
Instance (ASCS)



Legal

[Copyright](#)
[Disclaimer](#)
[Privacy Statement](#)
[Legal Disclosure](#)
[Trademark](#)
[Terms of Use](#)
[Cookie Preferences](#)

SAP Help Portal Links

[How can we assist you?](#)
[System Status](#)

More Links

[SAP Glossary](#)
[SAP Support](#)
[SAP Community](#)
[SAP Developer](#)
[Training & Certification](#)

Share and follow



Was this topic helpful? ✕
[Yes](#) [No](#)