



Release Notes

SUSE Linux Enterprise Server for SAP Applications 15 SP1

SUSE Linux Enterprise Server for SAP Applications combines SLES and SLE-HA with additional software specifically meant to simplify running and managing SAP applications. This document provides an overview of high-level general features, capabilities, and limitations of SUSE Linux Enterprise Server for SAP Applications 15 SP1 and important product updates.


The support period for SUSE Linux Enterprise Server for SAP Applications 15 SP1 has ended. To keep systems secure and supported, upgrade to a current SUSE Linux Enterprise Server for SAP Applications version. Before starting the upgrade, make sure to apply all maintenance updates.

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1 About the Release Notes

The most recent version of the Release Notes is available online at <https://www.suse.com/releasenotes> .

These Release Notes are identical across all supported architectures.

Entries can be listed multiple times if they are important and belong to multiple sections.

Release notes usually only list changes that happened between two subsequent releases. Certain important entries from the release notes documents of previous product versions may be repeated. To make such entries easier to identify, they contain a note to that effect.

Repeated entries are provided as a courtesy only. Therefore, if you are skipping one or more service packs, check the release notes of the skipped service packs as well. If you are only reading the release notes of the current release, you could miss important changes.

2 SUSE Linux Enterprise Server for SAP Applications

SUSE Linux Enterprise Server for SAP Applications is the leading Linux platform for SAP HANA, SAP NetWeaver, and SAP S/4HANA applications that provides optimized performance, reduced downtime, and faster SAP landscape deployments. It includes features to secure SAP HANA systems and ease the transition to SAP S/4HANA for systems administrators. SUSE Linux Enterprise Server for SAP Applications combines SUSE Linux Enterprise Server and its SLE HA with additional software specifically meant to simplify running and managing SAP applications.

2.1 What Is New?

SLES for SAP 15 SP1 introduces many innovative changes compared to SLES for SAP 15 GA. The most important changes are listed below:

- **SAP HANA-SR Wizard Can Be Used in Unattended Mode.** For more information, see <https://documentation.suse.com/sles-sap/15-SP1/single-html/SLES4SAP-guide/#sec-s4s-hana-cluster-wizard-semiautomatic>.

2.2 Important Sections of This Document

If you are upgrading from a previous SUSE Linux Enterprise Server for SAP Applications release, you should review at least the following sections:

- *Section 2.5, “Support Statement for SUSE Linux Enterprise Server for SAP Applications”*

2.3 Additional Release Notes Documents

SUSE Linux Enterprise Server for SAP Applications also includes the software selection of SUSE Linux Enterprise Server and SUSE Linux Enterprise High Availability Extension.

Make sure to review the release notes for both products in addition to this document:

- SUSE Linux Enterprise Server: https://www.suse.com/releasenotes/x86_64/SUSE-SLES/15-SP1/
- SUSE Linux Enterprise High Availability Extension: https://www.suse.com/releasenotes/x86_64/SLE-HA/15-SP1/

2.4 Support and Life Cycle

SUSE Linux Enterprise Server for SAP Applications is backed by award-winning support from SUSE, an established technology leader with a proven history of delivering enterprise-quality support services.

SUSE Linux Enterprise Server for SAP Applications 15 has a 13-year life cycle, with 10 years of General Support and 3 years of Extended Support. SUSE Linux Enterprise Server for SAP Applications comes Extended Service Pack Overlay Support by default, this means the current version (SP1) will be fully maintained and supported until 3.5 years after the release of SUSE Linux Enterprise Server for SAP Applications 15 SP2.

If you need additional time to design, validate and test your upgrade plans, Long Term Service Pack Support (LTSS) can extend the support you get by an additional 12 to 36 months in 12-month increments, providing a total of 3 to 5 years of support on any given Service Pack.

For more information, see:

- The support policy at <https://www.suse.com/support/policy.html> ↗
- Long Term Service Pack Support page at <https://www.suse.com/support/programs/long-term-service-pack-support.html> ↗

2.5 Support Statement for SUSE Linux Enterprise Server for SAP Applications

To receive support, you need an appropriate subscription with SUSE. For more information, see https://www.suse.com/support/programs/subscriptions/?id=SUSE_Linux_Enterprise_Server_for_SAP_Applications ↗.

The following definitions apply:

L1

Problem determination, which means technical support designed to provide compatibility information, usage support, ongoing maintenance, information gathering and basic troubleshooting using available documentation.

L2

Problem isolation, which means technical support designed to analyze data, reproduce customer problems, isolate problem area and provide a resolution for problems not resolved by Level 1 or prepare for Level 3.

L3

Problem resolution, which means technical support designed to resolve problems by engaging engineering to resolve product defects which have been identified by Level 2 Support.

For contracted customers and partners, SUSE Linux Enterprise Server for SAP Applications 15 SP1 is delivered with L3 support for all packages, except for the following:

- Technology Previews
- Sound, graphics, fonts and artwork
- Packages that require an additional customer contract

SUSE will only support the usage of original packages. That is, packages that are unchanged and not recompiled.

2.6 Technology Previews

Technology previews are packages, stacks, or features delivered by SUSE which are not supported. They may be functionally incomplete, unstable or in other ways not suitable for production use. They are included for your convenience and give you a chance to test new technologies within an enterprise environment.

Whether a technology preview becomes a fully supported technology later depends on customer and market feedback. Technology previews can be dropped at any time and SUSE does not commit to providing a supported version of such technologies in the future.

Give your SUSE representative feedback about technology previews, including your experience and use case.

2.7 Documentation and Other Information

2.7.1 On the Product Medium

- For general product information, see the file README in the top level of the product medium.
- For a chronological log of all changes made to updated packages, see the file ChangeLog in the top level of the product medium.
- Detailed change log information about a particular package is available using RPM:

```
rpm --changelog -qp FILE_NAME.rpm
```

(Replace FILE_NAME.rpm with the name of the RPM.)

- For more information, see the directory docu of the product medium of SUSE Linux Enterprise Server for SAP Applications 15 SP1.

2.7.2 Externally Provided Documentation

- <https://documentation.suse.com/sles-sap/15-SP1> contains additional or updated documentation for SUSE Linux Enterprise Server for SAP Applications 15 SP1.
- Find a collection of White Papers in the SUSE Linux Enterprise Server for SAP Applications Resource Library at <https://www.suse.com/products/sles-for-sap/#resources>.

3 SUSE Linux Enterprise Server for SAP Applications for POWER

3.1 On POWER, the Minimum Certified Revision of SAP HANA 2.0 SPS04 Is Revision 41

On SLES for SAP 15 SP1 for POWER, the minimum certified revision of SAP HANA 2.0 SPS04 is revision 41. For earlier revisions of SAP HANA 2.0 SPS04, there is a compatibility issue.

However, this issue does not affect other versions of SAP HANA, such as version SAP HANA 2.0 SPS03, which is supported.

4 New Features, Changes & Fixes

4.1 SAP native systemd support

In the past for Linux the systemV init service sapinit was starting the SAP Host Agent and all the sapstartsrv processes listed in /usr/sap/sapservices. A real systemd integration was not available.

Now the native integration of SAP Host Agent is started via the `saphostagent.service` unit. Adaptations to the `saphostagent.service` unit must be done by adding a so-called drop-in file. For any native integrated SAP instance a systemd unit with name schema `<SID>_<IN0>` (for example, `SAPEN1_10`) is added. Adaptations should be done using a drop-in file. It is highly recommended to still use the `sapcontrol` functions which guarantees also the functionality of cluster integration like the `sap-suse-cluster-connector`.

Before you start your new installation or update to the native systemd integration, make sure you update the resource agent packages to the newest available versions. The native SAP systemd integration is supported starting with the following package versions for SLES for SAP Applications 15:

- resource-agents 4.3.0184.6ee15eb2-4.60.1
- sapstartsrv-resource-agents 0.9.0 + git.1645795466.55a8cca-1.12.1
- SAPHanaSR 0.155.0
- SAPHanaSR-ScaleOut 0.181.0

For details please refer to the manual pages `ocf_suse_SAPStartSrv(7)`, `SAPHanaSR(7)`, and `SAPHanaSR-ScaleOut(7)`.

5 Added Packages

5.1 Package `insserv-compat` Has Been Added to SAP Application Server Base Pattern

SAP applications depend on the `sapinit` System V script. Other third-party software not yet updated to include systemd unit scripts may also depend on System V init scripts. On its own, systemd does not support System V init scripts anymore.

The package `insserv-compat` adds compatibility with System V init scripts to systemd and can be used both SAP and non-SAP applications. This package is now also included in the *SAP Applications Server Base* pattern.

That way, `insserv-compat` will provide System V compatibility until SAP and other third parties fully adopt systemd unit scripts.

6 Obtaining Source Code

This SUSE product includes materials licensed to SUSE under the GNU General Public License (GPL). The GPL requires SUSE to provide the source code that corresponds to the GPL-licensed material. The source code is available for download at <https://www.suse.com/download/sle-sap/> on Medium 2. For up to three years after distribution of the SUSE product, upon request, SUSE will mail a copy of the source code. Send requests by e-mail to mailto:sle_source_request@suse.com. SUSE may charge a reasonable fee to recover distribution costs.

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