

Installation Quick Start

SUSE Linux Enterprise Desktop 15

This Quick Start guides you step-by-step through the installation of SUSE® Linux Enterprise Desktop 15.

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1 Welcome to SUSE Linux Enterprise Desktop

Use the following procedures to install the product on all supported hardware platforms. They assume you have successfully booted into the installation system. For more detailed installation instructions and deployment strategies, refer to the *Book "*Deployment Guide". For preparations required to boot into the installation system, refer to *Book "*Deployment Guide", *Chapter 2 "Installation on AMD64 and Intel 64"*.

1.1 The Default Installation Procedure

Starting with SUSE Linux Enterprise Desktop 15, the installation medium only consists of the Installer, a minimal, command line-based system for installing, updating and registering SUSE Linux Enterprise Desktop. During the installation you can add functionality by selecting modules to be installed on top of the Installer.

A default installation requires network access to either contact the SUSE Customer Center or a local Repository Mirroring Tool server to retrieve repository data for the modules. In case you want to perform an installation without network access, a second installation medium, the SLE-15-Packages ISO image, is required.

To install SUSE Linux Enterprise Desktop, boot into the installer from the Installer medium and start the installation.

1.1.1 Language, Keyboard, and Product Selection

| SUSE. | | | |
|--|--|---------------------------|--------------|
| Language, Keyboard and Product Selection | | | |
| | Language English (US) | oard Layout glish (US) | |
| | | pard Test | |
| | | | |
| | Product to Install SUSE Linux Enterprise Server 15 SUSE Linux Enterprise High Performance Computing SUSE Linux Enterprise Server for SAP Applications 15 SUSE Linux Enterprise Desktop 15 | | |
| Help | | Abort | <u>N</u> ext |

The *Language* and *Keyboard Layout* settings are initialized with the language you chose on the boot screen. If you did not change the default, it will be English (US). Change the settings here, if necessary. Use the *Keyboard Test* text box to test the layout.

With the Installer you can install all SUSE Linux Enterprise base products:

- SUSE Linux Enterprise Server (refer to https://www.suse.com/documentation/sles/ a for installation instructions)
- SUSE Linux Enterprise Desktop (covered here)
- SUSE Linux Enterprise High Performance Computing (refer to FIXME for installation instructions)
- SUSE Linux Enterprise Server for SAP Applications (refer to https://www.suse.com/documentation/sles-for-sap/
 → for installation instructions)

Select a product for installation. You need to have a registration code for the respective product. In the course of this document it is assumed you have chosen SUSE Linux Enterprise Desktop. Proceed with *Next*.

| SUSE. | |
|--|---|
| | License Language |
| | English (US) |
| | SUSE(R) End User License Agreement for Beta Software |
| SUSE Linux Enterprise Desktop 15 License | PLEASE READ THIS BETA AGREEMENT CAREFULLY. BY INSTALLING, DOWNLOADING OR OTHERWISE USING THE SOFTWARE, YOU AGREE TO THE TERMS OF THIS BETA AGREEMENT AND ANY SUPPLEMENTAL SUSE LICENSE AGREEMENT INCLUDED WITH THE SOFTWARE. IF YOU DO NOT AGREE WITH THESE TERMS, DO NOT DOWNLOAD, INSTALL OR USE THE SOFTWARE. THE SOFTWARE MAY NOT BE SOLD, TRANSFERRED, OR FURTHER DISTRIBUTED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM SUSE. |
| Agreement | This SUSE End User License Agreement for Beta Software ("Beta Agreement") together with any Supplemental SUSE License Agreement included with the Software constitutes a legal agreement between You (an entity or a person) and SUSE LLC ("SUSE"). The software product(s) accompanying this Beta Agreement, software updates, media (if any) and accompanying online or printed documentation (collectively the "Software") is protected by the copyright laws and treaties of the United States and other countries and is subject to the terms of this Beta Agreement. If You do not agree with the terms of this Beta Agreement, on to download, install or otherwise use the Software and, if applicable, return the entire unused package to SUSE. The Software is licensed to You, not sold. |
| | The Software may include or be bundled with other software programs licensed under different terms and/or licensed by a licensor other than SUSE. The terms of an end user license agreement accompanying a particular software file upon installation or download of the software shall supersede the terms presented below. Third party software programs are provided for use at Your option. SUSE is not responsible for any third party's software and shall have no liability for Your use of third party software. |
| | The Software may include components that are open source packages, developed independently, and accompanied by separate license terms. Your license rights with respect to individual components accompanied by separate license terms are defined by those terms; |
| | I Agree to the License Terms. |
| Help | Abo <u>r</u> t <u>B</u> ack <u>N</u> ext |

1.1.2 License Agreement

Read the License Agreement. It is presented in the language you have chosen on the boot screen. Translations are available via the *License Language* drop-down box. You need to accept the agreement by checking *I Agree to the License Terms* to install SUSE Linux Enterprise Desktop. Proceed with *Next*.

1.1.3 Network Settings

| SUSE | | | | | |
|--|-----------------------|--|--|--|--|
| Network Settings | Network Settings | | | | |
| Overview | Ho <u>s</u> tname/DNS | Routing | | | |
| Name Paddress People Controller (Copper) Not configured Page Address | | | | | |
| 82543GC Gigabit Ethernet Controller (Copper) (Not connected MAC : 08:00:27:85:19:14 BusiD : 0000:00:03:0 Device Name: enp0s3 The device is not configured. Press Edit to configure. | J) | | | | |
| <u>A</u> dd Ed <u>i</u> t Dele <u>t</u> e | | Abo <u>r</u> t <u>B</u> ack <u>N</u> ext | | | |

A system analysis is performed, where the installer probes for storage devices, and tries to find other installed systems. If the network was automatically configured via DHCP during the start of the installation, you will be taken to the registration step.

If the network is not yet configured, the *Network Settings* dialog opens. Choose a network interface from the list and configure it with *Edit*. Alternatively, *Add* an interface manually. See *Book* "Deployment Guide", *Chapter 4 "Installation Steps", Section 4.5 "Network Settings"* and *Book "*Administration Guide", *Chapter 17 "Basic Networking", Section 17.4 "Configuring a Network Connection with YaST"* for more information. If you prefer to do an installation without network access, skip this step without making any changes and proceed with *Next*.

1.1.4 Registration

| SUSE. | |
|--------------------|---|
| | Network Configuration |
| Registration | |
| | SUSE Linux Enterprise Desktop 15 |
| | Please select your preferred method of registration. |
| | Register System via scc.suse.com |
| | E-mail Address |
| | |
| | Registration <u>C</u> ode |
| | |
| | Register System via local SMT Server Local Registration Server URL |
| | https://smt.example.com |
| | O Skip Registration |
| | |
| | |
| Help Release Notes | Abo <u>r</u> t <u>B</u> ack <u>Next</u> |

To get technical support and product updates, you need to register and activate your product with the SUSE Customer Center or a local registration server. Registering SUSE Linux Enterprise Desktop at this stage also grants you immediate access to the update repository. This enables you to install the system with the latest updates and patches available.

When registering, repositories and dependencies for the modules and extensions, which you may install with the next step, are loaded from the registration server.

If you are offline or want to skip registration, activate *Skip Registration*. Proceed with the installation by following the instructions in *Section 1.2, "Installing without Registration"*.

To register with the SUSE Customer Center, enter the *E-mail Address* associated with your SCC account and the *Registration Code* for SUSE Linux Enterprise Desktop. If your organization provides a local registration server, you may alternatively register there. Activate *Register System via local SMT Server* and either choose a URL from the drop-down box or type in an address.



Solution Note: Trusting Repositories

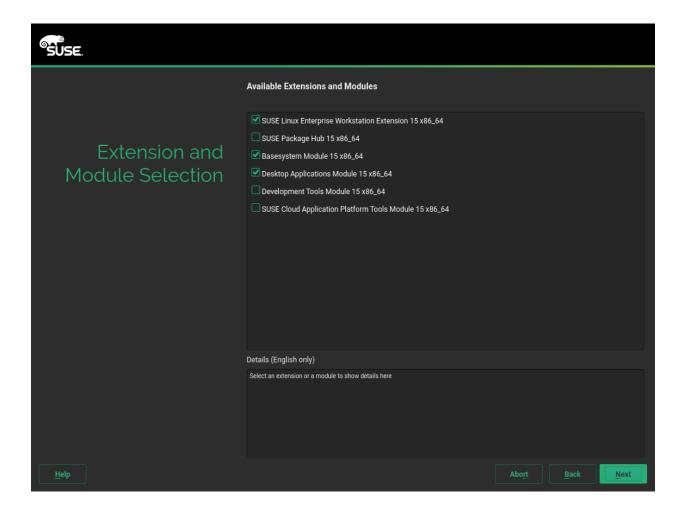
Depending on your hardware, additional repositories containing hardware drivers may be added during the registration. If so, you will be asked to Trust each of these repositories.

 ∇

Tip: Installing Product Patches at Installation Time

After SUSE Linux Enterprise Desktop has been successfully registered, you are asked whether to install the latest available online updates during the installation. If choosing Yes, the system will be installed with the most current packages without having to apply the updates after installation. Activating this option is recommended.

Extension and Module Selection 1.1.5



After the system is successfully registered, the installer lists modules and extensions that are available for SUSE Linux Enterprise Desktop. Modules are components which allow you to shape the product according to your needs. They are free of charge. Extensions add functionality to your product. They are offered as subscriptions and require a registration key that is liable for costs.

The availability of certain modules or extensions depends on the product you have chosen in the first step of this installation. For a description of the modules and their life cycles, select a module to see the accompanying text. More detailed information is available in the Release Notes (https://www.suse.com/releasenotes/x86_64/SUSE-SLES/15/#Intro.Module) **?**.

The selection of modules indirectly affects the scope of the installation, because it defines which software sources (repositories) are available for installation and in the running system.

The following modules and extensions are available for SUSE Linux Enterprise Desktop:

Basesystem Module

This module adds a basic system on top of the Installer. It is required by all other modules and extensions. The scope of an installation that only contains the base system is comparable to the installation pattern *minimal system* of previous SUSE Linux Enterprise Desktop versions. This module is selected for installation by default and should not be deselected. *Dependencies*: None

Desktop Applications Module

Adds a graphical user interface (Wayland) and essential desktop applications to the system. This module is selected for installation by default; deselcting it is not recommended. *Dependencies:* Basesystem

Development Tools Module

Contains compilers (including \underline{gcc}) and libraries required for compiling and debugging applications.

Dependencies: Basesystem, Desktop Applications

SUSE Cloud Application Platform Tools Module

Adds tools allowing you to interact with a SUSE Cloud Application Platform product. *Dependencies:* Basesystem

SUSE Package Hub

Provides access to packages for SUSE Linux Enterprise Desktop maintained by the openSUSE community. These packages are delivered without L3 support and do not interfere with the supportability of SUSE Linux Enterprise Desktop. For more information refer to https://packagehub.suse.com/ 2.

Dependencies: Basesystem

SUSE Linux Enterprise Workstation Extension

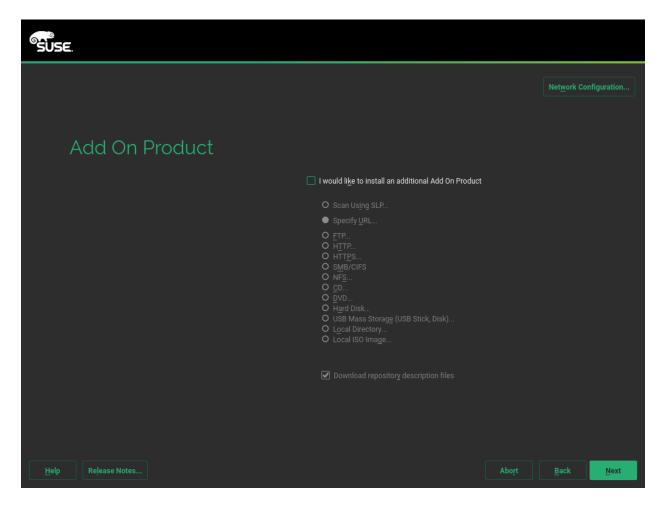
Contains additional desktop tools such as an office suite or multimedia software such as music and video players. This extension is included in the SUSE Linux Enterprise Desktop subscription and is selected for installation by default; deselcting it is not recommended. *Dependencies:* Basesystem, Desktop Applications

Some modules depend on the installation of other modules. Therefore, when selecting a module, other modules may be selected automatically to fulfill dependencies.

Depending on the product, the registration server can mark modules and extensions as recommended. Recommended modules and extensions are preselected for registration and installation. To avoid installing these recommendations, deselect them manually.

Select the modules and extension you would like to install and proceed with *Next*. In case you have chosen one or more extensions, you will be prompted to provide the respective registration codes. Depending on your choice, it may also be necessary to accept additional license agreements.

1.1.6 Add-On Product



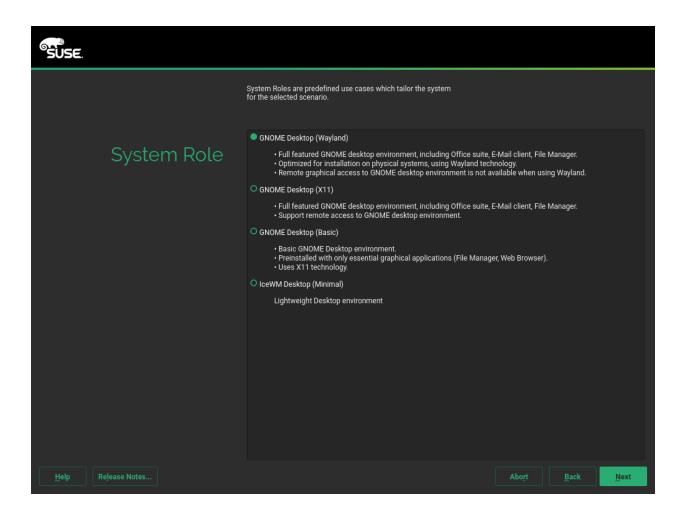
The *Add-On Product* dialog allows you to add additional software sources (so-called "repositories") to SUSE Linux Enterprise Desktop, that are not provided by the SUSE Customer Center. Such add-on products may include third-party products and drivers or additional software for your system.

Tip: Adding Drivers During the Installation

You can also add driver update repositories via the *Add-On Product* dialog. Driver updates for SUSE Linux Enterprise are provided at http://drivers.suse.com/ . These drivers have been created via the SUSE SolidDriver Program.

If you want to skip this step, proceed with *Next*. Otherwise activate *I would like to Install an Addon Product*. Specify a media type, a local path, or a network resource hosting the repository and follow the on-screen instructions. Check *Download Repository Description Files* to download the files describing the repository now. If deactivated, they will be downloaded after the installation has started. Proceed with *Next* and insert a medium if required. Depending on the product's content it may be necessary to accept additional license agreements. Proceed with *Next*. If you have chosen an add-on product requiring a registration key, you will be asked to enter it before proceeding to the next step.

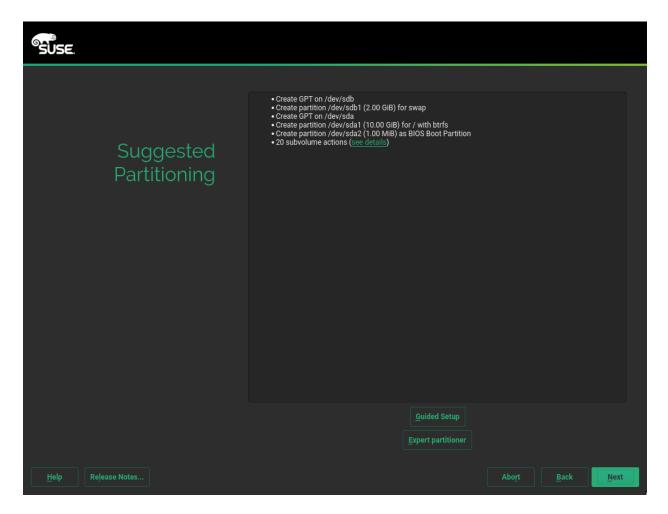
1.1.7 System Role



The availability of system roles depends on your selection of modules and extensions. System roles define, for example, the partitioning proposal and the set of software patterns that is going to be preselected for the installation. Refer to the description on screen to make your choice. Select a role and proceed with *Next*.

Tip: Release Notes

From this point on, the Release Notes can be viewed from any screen during the installation process by selecting *Release Notes*.



1.1.8 Suggested Partitioning

Review the partition setup proposed by the system. If necessary, change it. You have the following options:

Guided Setup

Starts a wizard which lets you refine the partitioning proposal. Options available here depend on your system setup. In case it contains more than a single hard disk, you may choose which disk(s) to use and where to place the root partition. If the disk(s) already contain partitions, decide whether to remove or resize them.

In subsequent steps you may also add LVM support and disk encryption. You can change the file system for the root partition and decide whether to have a separate home partition or not.

Expert Partitioner

Opens the *Expert Partitioner* described in *Book "Deployment Guide", Chapter 6 "Expert Partitioner", Section 6.1 "Using the Expert Partitioner"*. This gives you full control over the partitioning setup and lets you create a custom setup. This option is intended for experts.

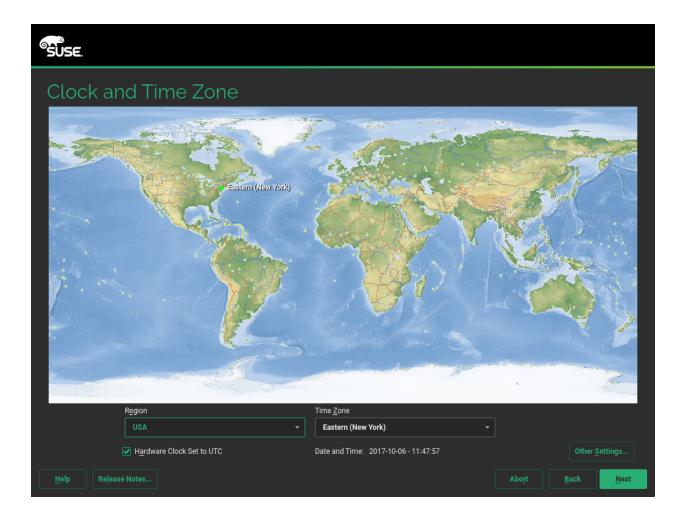
To accept the proposed setup without any changes, choose Next to proceed.



Tip: Release Notes

From this point on, the Release Notes can be viewed from any screen during the installation process by selecting *Release Notes*.

1.1.9 Clock and Time Zone



Select the clock and time zone to use in your system. To manually adjust the time or to configure an NTP server for time synchronization, choose *Other Settings*. See *Book "*Deployment Guide", *Chapter 4 "Installation Steps"*, *Section 4.11 "Clock and Time Zone"* for detailed information. Proceed with *Next*.

1.1.10 Local User

| SUSE. | |
|--------------------|--|
| | |
| Local Users | <u>Create New User</u> User's <u>Full Name</u> <u>Username</u> <u>Password</u> <u>Confirm Password</u> <u>Confirm Password</u> <u>Outer Data from a Previous Installation</u> <u>No users selected</u> <u>Choose Users</u> <u>Skip User Creation</u> |
| Help Release Notes | Abo <u>r</u> t <u>B</u> ack <u>Next</u> |

To create a local user, type the first and last name in the *User's Full Name* field, the login name in the *Username* field, and the password in the *Password* field.

The password should be at least eight characters long and should contain both uppercase and lowercase letters and numbers. The maximum length for passwords is 72 characters, and passwords are case-sensitive.

For security reasons it is also strongly recommended *not* to enable the *Automatic Login*. You should also *not Use this Password for the System Administrator* but rather provide a separate <u>root</u> password in the next installation step. Proceed with *Next*.

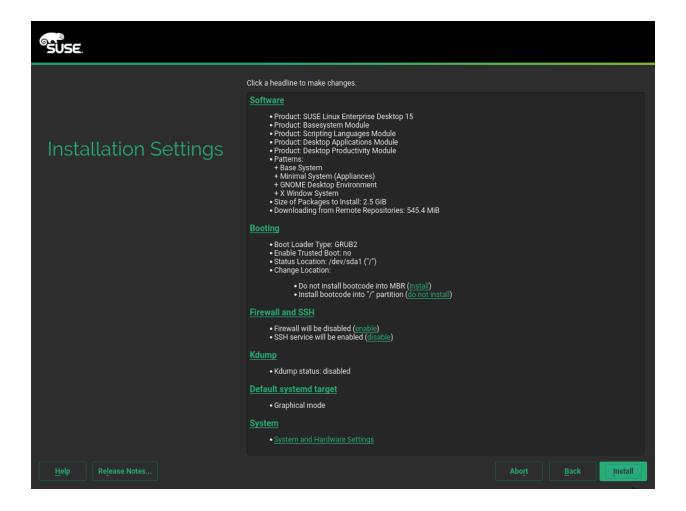
1.1.11 Password for the System Administrator "root"

| SUSE. | | | |
|----------------------------|------------------------------------|-------|--------------|
| | | | |
| | | | |
| Password for the System | | | |
| Administrator "root" | Do not forget what you enter here. | | |
| | Password for root User | | |
| | Con <u>f</u> irm Password | | |
| | | | |
| | Test Keyboard Layout | | |
| | | | |
| | | | |
| | | | |
| Help Release Notes | | Abort | <u>N</u> ext |

Type a password for the system administrator account (called the root user).

You should never forget the <u>root</u> password! After you entered it here, the password cannot be retrieved. See *Book "*Deployment Guide", *Chapter 4 "Installation Steps", Section 4.13 "Password for the System Administrator"* for more information. Proceed with *Next*.

1.1.12 Installation Settings



Use the *Installation Settings* screen to review and—if necessary—change several proposed installation settings. The current configuration is listed for each setting. To change it, click the headline. Some settings, such as firewall or SSH can directly be changed by clicking the respective links.

Tip: Remote Access

Changes you can make here, can also be made later at any time from the installed system. However, if you need remote access directly after the installation, you should check the *Firewall and SSH* settings.

Software

The scope of the installation is defined by the modules and extensions you have chosen for this installation. However, depending on your selection, not all packages available in a module are selected for installation.

Clicking *Software* opens the *Software Selection and System Tasks* screen, where you can change the software selection by selecting or deselecting patterns. Each pattern contains several software packages needed for specific functions (for example, *KVM Host Server*). For a more detailed selection based on software packages to install, select *Details* to switch to the YaST *Software Manager*. See *Book "*Deployment Guide*"*, *Chapter 13 "Installing or Removing Software"* for more information.

Booting

This section shows the boot loader configuration. Changing the defaults is only recommended if really needed. Refer to *Book "*Administration Guide", *Chapter 12 "The Boot Loader GRUB 2"* for details.

Firewall and SSH

By default, the Firewall is enabled with all network interfaces configured for the public zone. See *Book "*Security Guide*"*, *Chapter 16 "Masquerading and Firewalls"*, *Section 16.4 "*fire-walld" for configuration details.

The SSH service is enabled by default, its port (22) is open. Click *enable and open* to toggle these settings. Note that if SSH is disabled, logging in from remote will not be possible.

Kdump

Kdump saves the memory image ("core dump") to the file system in case the kernel crashes. This enables you to find the cause of the crash by debugging the dump file. Kdump is preconfigured and enabled by default. See *Book "*System Analysis and Tuning Guide", *Chapter 17 "Kexec and Kdump"*, *Section 17.7 "Basic Kdump Configuration"* for more information.

Default Systemd Target

SUSE Linux Enterprise Desktop boots into a graphical desktop by default. Since it does not make much sense to run a desktop system from the command line, it is recommended to not change this setting.

System

View detailed hardware information by clicking *System*. In the resulting screen you can also change *Kernel Settings*—see *Book "*Deployment Guide", *Chapter 4 "Installation Steps"*, *Section 4.14.6 "System Information"* for more information.

1.1.13 Start the Installation

| SUSE | |
|--------------------|---|
| | Click a headline to make changes. Software • Product: SUSE Linux Enterprise Desktop 15 |
| Installation Se | Confirm Installation Information required for the base installation is now complete. If you continue now, partitions on your hard disk will be modified according to the installation settings in the previous dialogs. Go back and check the settings if you are unsure. |
| | Install Back Default systemd target • Graphical mode System • System and Hardware Settings |
| Help Release Notes | Abo <u>r</u> t <u>B</u> ack <u>Install</u> |

After you have finalized the system configuration on the *Installation Settings* screen, click *Install*. Depending on your software selection you may need to agree to license agreements before the installation confirmation screen pops up. Up to this point no changes have been made to your system. After you click *Install* a second time, the installation process starts.

1.1.14 The Installation Process

| SUSE. | | |
|----------------------------|--|---|
| | <u>D</u> etails | SLED15 Release Notes |
| Performing Installation | Media Remaining Pack Total 2.415 GB SLES15-15-0 690.04 MiB SLE:Module-Basesystem15-Pool 690.04 MiB SLE:Module-Basesystem15-Pool 76.43 MiB SLE:Module-Scripting15-Pool 36.46 MiB SLE:Module-Scripting15-Pool 86.46 MiB Medium 1 36.46 MiB 516.13 MiB 516.13 MiB SLE:Module-Desktop-Applications15-Pool Medium 1 516.13 MiB SLE:Module-Desktop-Productivity15-Pool Medium 1 516.13 MiB SLE:Module-Desktop-Applications15-Pool Medium 1 453.82 MiB Actions performed: Installing libboost_system1_64_0-1.64.0-1.25 x86_64 rpm (installed size 75 KiB) 115.25 x86_64 rpm (installed size 77 KiB Installing notillar-nos-3.31.1-1.2 x86_64 rpm (installed size 77 KiB 115.25 x86_64 rpm (installed size 77 KiB 115.25 x86_0.64 rpm (installed size 75 KiB) Installing libtrpc3-1.0.2-0.12.1 x86_64 rpm (installed size 75 KiB 115.21 k86_64 rpm (installed size 75 k38 115.21 k86_64 rpm (installed size 23.3 kiB) Installing libtrpc3-1.0.2-0.1 x86_64 rpm (installed size 23.3 kiB 115.21 k86_64 rpm (installed size 23.3 kiB) 115.21 k86_64 rpm (installed size 23.3 kiB) Installing libtrpc3-1.0.2-0.1 x86_64 rpm (installed size 23.3 kiB) <td< th=""><th>0 MiB) B) B KiB) iB) iB) iB) 17.8 KiB) 17.8 KiB) KiB)</th></td<> | 0 MiB) B) B KiB) iB) iB) iB) 17.8 KiB) 17.8 KiB) KiB) |
| | Installing libedit0-3.1.snap20150325-1.6.x86_64.rpm (installed s 100% | size 247.5 KiB) |
| | Installing Packages (Remaining: 2.415 GiB, 1225 packages) 12% | |
| Help | | Abort Back Next |

During the installation, the progress is shown in detail on the Details tab.

After the installation routine has finished, the computer is rebooted into the installed system. Log in and start YaST to fine-tune the system. If you are not using a graphical desktop or are working from remote, refer to *Book* "Administration Guide", *Chapter 5 "YaST in Text Mode"* for information on using YaST from a terminal.

1.2 Installing without Registration

If you perform an installation without connecting to a registration server, you cannot register your system during the installation. Therefore you will not be able to receive the repository configuration for modules and extensions from the registration server. To enable a regular installation, SUSE offers a second installation medium, the SLE-15-Packages ISO image.



Note: Registering SUSE Linux Enterprise Desktop

Your system and extensions need to be registered in order to retrieve updates and to be eligible for support. If you do not register during the installation, you can do so at any time later from the running system. To do so, run YaST > Product Registration.

To perform the installation without registration, make sure the contents of the SLE-15-Packages ISO image can be accessed during the installation. This can be achieved by copying it to a local hard disk or a removable flash disk, by burning the image to a DVD, or by making it available in the local network. Choose a method that is supported by your hardware.



Tip: Copying Data from the SLE-15-Packages ISO Image to a Removable Flash Disk

To copy the contents of an ISO image to a removable flash disk, use the following command.

```
tux > sudo dd if=PATH TO ISO IMAGE
    of=FLASH STORAGE PARTITION bs=4M && sync
```

PATH TO ISO IMAGE needs to be replaced with the relative or absolute path to this ISO image file. FLASH STORAGE PARTITION needs to be replaced with the path to a partition on the flash device (usually there is just one). To identify the device, and its partition(s), insert it and use the commands shown in the example below:

```
root # grep -Ff <(hwinfo --disk --short) <(hwinfo --usb --short)</pre>
disk:
  /dev/sdc
                      General USB Flash Disk
root # fdisk -l /dev/sdc | grep -e "^/dev"
/dev/sdc1 *
               2048 31490047 31488000 15G 83 Linux
```

In this case the command to use would be for example:

```
dd if=/tmp/SLE-15-Packages-x86_64-DVD1.iso \
 of=/dev/sdc1 bs=4M && sync
```

Make sure a partition with sufficient size (6 GB or more) exists on the device. It also must not be mounted when running the **dd** command. Note that all data on the partition will be erased!

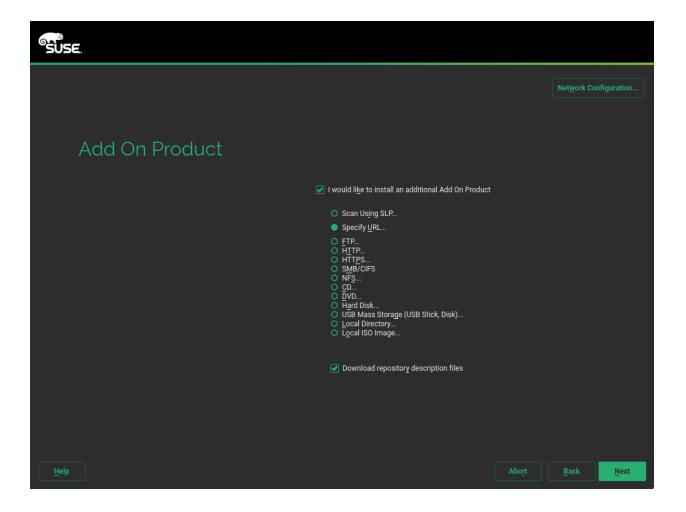
1.2.1 Starting the Installation without Registration

The installation follows the same workflow as outlined in *Section 1.1, "The Default Installation Procedure"*, only the steps for registering the system and adding modules/extensions differ. To start the installation, perform the steps *Section 1.1.1, "Language, Keyboard, and Product Selection"* to *Section 1.1.3, "Network Settings"* from *Section 1.1, "The Default Installation Procedure"*.

1.2.2 Skipping Registration

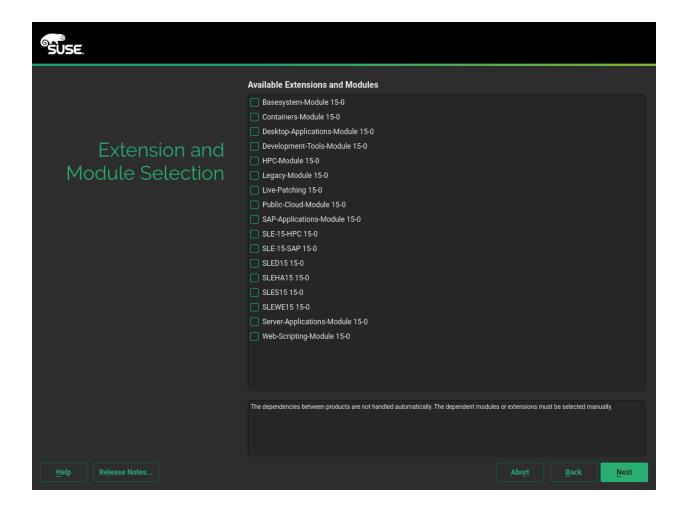
On the *Registration* screen activate *Skip Registration*. Accept the warning with *OK* and proceed with *Next*.

| SUSE | | | |
|--------------|---|---------------------------------------|---------------------------|
| | | | Network Configuration |
| Registration | | | |
| | SUSE Linux Enterprise | e Desktop 15 | |
| | Warning Without registration, update channels will not be configured. This disables updates and security fixes. A full system can be installed using the SLE-15-Packages media from https://download.suse.com. Without these media only a minimum system is available in this installation. | ed method of registration. use.com | |
| | O Register System via local | SMT Server | |
| | | | |
| | https://smt.exam | ple.com 👻 | |
| | Skip Registration | | |
| | | | |
| Help | | Abo <u>r</u> t | <u>B</u> ack <u>N</u> ext |



On the *Add On Product* dialog, activate *I would like to install an additional Add On Product* and specify the source for the SLE-15-Packages ISO image. Check *Download repository description files* to download the files describing the repository now. If deactivated, they will be downloaded after the installation starts. Proceed with *Next*. If you chose *DVD* as the data source, you will be prompted to insert the media.

1.2.4 Selecting Extensions and Modules



On the *Extension and Module Selection* dialog you need to select a product, at least one module, and optionally, one or more extensions.

The SLE-15-Packages ISO images contains extensions and modules for all SUSE Linux Enterprise products. Make sure to only select modules and extensions listed below, otherwise you will end up with a system that may fail to install and is not covered by SUSE support.

Product

Selecting a product is mandatory. Choose SLED 15 15-0.

Modules

Modules extend the functionality of SUSE Linux Enterprise Desktop and are free of charge. Installing the *Basesystem-Module 15-0* is required. It is also recommended to install the *Desktop-Applications-Module 15-0*.

Note that most modules depend on other modules. These dependencies cannot be resolved automatically here. Make sure to manually solve the dependencies, otherwise the installation will fail later on. Refer to the following list for details.

Basesystem-Module 15-0. This module adds a basic system on top of the Installer. It is required by all other modules and extensions. The scope of an installation that only contains the base system is comparable to the installation pattern *minimal system* of previous SUSE Linux Enterprise Desktop versions. *Dependencies:* None

Desktop-Applications-Module 15-0. Adds a graphical user interface (Wayland) and essential desktop applications to the system. This module also is a prerequisite for the server applications and the development tools module. *Dependencies:* Basesystem

Development-Tools-Module 15-0. Contains compilers (including <u>gcc</u>) and libraries required for compiling and debugging applications.

SUSE Linux Enterprise Workstation Extension (SLEWE15 15-0)

Contains additional desktop tools such as an office suite or multimedia software such as music and video players. The SUSE Linux Enterprise Workstation Extension for SUSE Linux Enterprise Desktop is free of charge and does nor require an additional registration code. Installing *SLEWE15 15-0* is recommended.

Warning: Forbidden Selections

Do *not* install any of the following selections on SUSE Linux Enterprise Desktop, otherwise you will end up with a system that may fail to install and is not covered by SUSE support.

- Containers-Module 15-0
- HPC-Module 15-0
- Legacy-Module 15-0
- Live-Patching 15-0
- Public-Cloud-Module 15-0
- SAP-Applications-Module 15-0
- SLE-15-HPC 15-0
- SLE-15-SAP 15-0
- SLEHA15 15-0
- SLES15 15-0

- Server-Applications-Module 15-0
- Web-Scripting-Module 15-0

When you have finished selecting modules and extensions, proceed with Next.

1.2.5 Confirming the Extensions and Module Selection

| SUSE. | | | |
|----------------|---|--|--|
| | | | |
| | Product 🔺 | | |
| | Basesystem-Module 15-0 Desktop-Applications-Module 15-0 SLED15 15-0 SLEWE15 15-0 | dvd:///, Directory: /Module-Basesystem dvd:///, Directory: /Module-Desktop-Applications dvd:///, Directory: /Product-SLED dvd:///, Directory: /Product-WE | |
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All modules selected for installation are listed on the *Add-On Product Installation* dialog. To change the list, use the *Add* or *Delete* options. Using *Add* you may optionally add other add-on products. Proceed with the installation with *Next*.

1.2.6 Finalizing the Installation

From this point on, the installation follows the same path as the default installation. Proceed with the step > Section 1.1.7, "System Role" from Section 1.1, "The Default Installation Procedure".

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