

SUSE YES System Certification Kit 9.0

SUSE Linux Enterprise – POS Test Suite



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About This Guide

The POS Yes Certification Test Kit for SUSE® Linux contains a procedure manual and all test tools necessary to test the SUSE® products used in the SUSE Yes Certified™ system certification process. The manual explains how to install the software and set up hardware and software configurations.

Audience

This manual is intended for users who have experience with computers, networking, Linux, and Microsoft Windows.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation.

Documentation Updates

For the most recent version of the System Test Tools and documentation, visit System Test Tools for SUSE LINUX

<https://www.suse.com/partners/ihv/yes/system-test-tools-for-suse-linux.html>.

Additional Information

For more Information on YES Certification, see:

SUSE YES Certified Program <https://www.suse.com/partners/ihv/yes/>

Partner Resources <https://www.suse.com/partners/become-partner/>

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1 OS Configuration

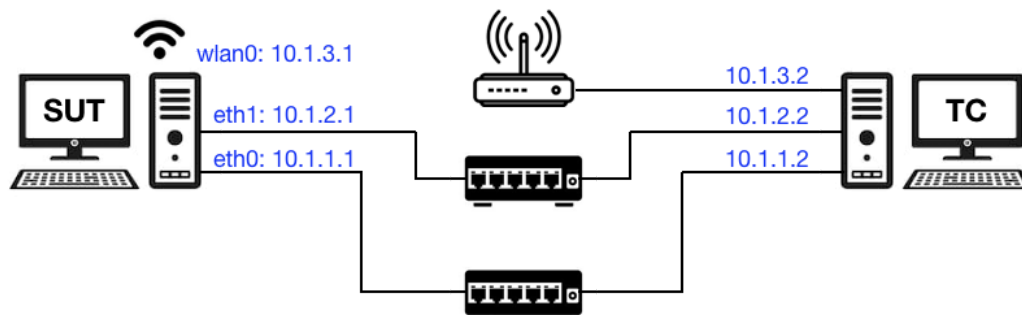
Use this test suite to certify POS systems with SLES (current supported SP).

1.1 Configuring the Hardware

Minimum Requirements for System Under Test (SUT)

- Minimum SLES hardware requirements must be met on the SUT hardware
- Direct access to the system (do not use remote access, do not use SSH)
- 512 MB RAM plus 265 MB for each CPU core.
- Null modem serial cable (for systems with serial ports)
- 2 USB hard drives (Required for systems with USB ports) or USB flash drives (min 2 GB free space), no spaces in the volume name.
- 1 eSATA hard drive (Required for systems testing an eSATA port).
- External speakers, if the SUT has a sound card.
- SLES 12 (current supported SP)
- 2 monitors that support the video adapter.
- 1 Network Interface Cards (NICs)
- Drivers which do NOT taint the kernel (Driver in the distro will not taint the kernel).
Compiling drivers for certification is not permitted. If drivers are needed please obtain them using the SUSE SolidDriver Program.
- We recommend UEFI be enabled during testing (if supported).
- Secure Boot is not required. If Secure Boot is enabled during testing, a configuration note can be added stating this. DVD OS installation is required if secure boot is enabled.
- All hardware (RAM, HDD, NIC, etc.) must be installed in the SUT prior to installing the OS.
- A wireless router matching the highest speed of the SUT WI-FI NIC (if present).

Figure 1-1 Configuration with up to two NIC ports and one wi-fi adapter.



Notes: When assigning IP addresses to the NICs, do not use the range 192.168.101.0 thru 192.168.101.255. These IP addresses are used in the Serial Port test. If a wired and wireless adapter are to be included on a certification bulletin then both must be tested using the POS project.

1.2 Setting Up the POS SUT

The following instructions are for installing SLES on the SUT. Before doing so, please ensure that the TestConsole system has been set up according to the latest TestConsole documentation.

The SLEPOS lifecycle for some SLEPOS Client SPs provides up to a 7.5 year general support window. (SLEPOS does not provide LTSS). Even though the SLES SP lifecycle General Support and/or LTSS may have ended for that SP.

For example, SLEPOS 12 SP3/SP4 Clients provide general support until 31 Mar 2025 while the newer SLEPOS 12 SP5 Clients provide general support only until 31 Oct 2024. In addition, SLEPOS 15 SP3 Clients provide general support until 31 Dec 2028 while SLEPOS 15 SP4/SP5 Clients provide general support until 31 Dec 2023 and 31 Dec 2024 respectively.

SLEPOS 15 SP6 Client version will provide general support for a 7.5 year general support period. The current cadence is that every third SLES SP will provide a longer SLEPOS general support lifecycle. (In the point of service market space, such as retail or embedded, it is expected that SLEPOS will have a longer lifecycle).

It was decided that we would allow YES Certification of any SLEPOS SP Client while that version of SLEPOS is in general support

Our release restricted policy for SLEPOS systems will be based on the SLES lifecycle dates not the SLEPOS lifecycle dates. In other words, if the SLES SP version that the specific SLEPOS Client is based on has moved from general support to LTSS those bulletins are required to include a configuration note and be release restricted.

Some of these certifications will require an old version of the SCK to be installed and used for certification testing. SUSE Partner Engineering will only develop and test new SCK versions on SLE/ALP OS/Platform versions that are "current" which is defined as currently in general support.

No hardware enablement is provided for the longer SLEPOS SP Client lifecycles. If hardware enablement is required a newer SLES version should be certified. SUSE partners can decide which versions SLEPOS (SLES) that they certify on their POS systems. If a newer version is released with a longer lifecycle, partners are expected to

use the newer version. (For example, when a future SLEPOS 15 SPx Clients is released, partners should no longer certify with SLEPOS 15 SP3 Clients, even if SLEPOS 15 SP3 is still in general support). At the discretion SUSE, partners may be allowed to certify the older version of SLEPOS.

1.3 Install SLES 15 (current SP) on SUT with PXE

1. Delete all existing partitions from all hard drives. Section “1.1 Removing the ELIO Boot Tables” in the Troubleshooting and Help Document has instructions which will delete any and all existing partitions.
2. Remove all external devices (USB, eSATA, Firewire, etc.) from the SUT.
3. Boot the SUT and enter the BIOS/UEFI configuration.
4. Ensure network boot (PXE) is enabled in the BIOS/UEFI. If needed, press the appropriate key to enter the BIOS/UEFI and select PXE boot during post. Exit out of the BIOS saving any changes which were needed.
5. PXE boot the SUT. The PXE server has to be the TC.
6. The SUSE SCK Install Main Menu will be displayed on SUT. Use the arrow keys (or the tab keys on some systems) to select the OS to install, then press <Enter>.
7. The OS specific Install screen will be displayed. Use the arrow keys (or the tab keys on some systems) to select the OS to install, then press <Enter>.

Note: There may be a short delay after pressing <Enter>. The SUT will display the SLE GUI installation screen and the OS installation will begin.

8. When the OS installation is complete, proceed to **Section 2, “POS Pre-Testing and Preparation”**.

1.4 Manually Install SLES 15 (Latest SP) on SUT

The NICs in TC must match the highest speed NIC in the SUT.

1. Delete all existing partitions from all hard drives. Section A.1.1 “Removing the ELIO Boot Tables” has instructions which will delete any and all existing partitions.
2. Make sure the SUT has an active Internet connection.
3. Boot the system to SUSE LINUX Enterprise Server 15 SP2 from Online DVD.
4. Select *Installation*<Enter> (before the 20 second timeout expires).
5. If prompted click *No* to the Network is not configured...message in the Updating the installer screen.



6. Select the English (US) language and English (US) keyboard Layout.
7. Select I Agree to the License Terms, then click Next.
8. If prompted click *Next* in the Network Settings screen. The network will be set up in the next section during the Test Kit installation on this SUT.
9. Click the *Skip Registration* radio button on the Registration screen.
10. Click OK at the registration warning prompt, then click *Next*.
11. If prompted click *Next*.
12. The default manual SLES installation does not allocate enough space on / (root) to perform the kdump test, so the partition needs to be changed.
 - a. Click "Edit Proposal Settings".
 - b. Uncheck "Propose Separate Home Partition".
 - c. Click OK.
 - d. Click *Next*.
13. Adjust the region and time zone to match your region and time zone.
 - a. Click on your region in the *Region* pull down menu on the left.
 - b. Click on your time zone in the *Time Zone* pull down menu on the right side.
14. Set the system clock to match the time of the other systems on your test rack.
 - a. Click the *Other Settings* button.
 - b. Change the Current time and Current date to be the same as the TC time and date.
 - c. Click the *Accept* button.
 - d. Click the *Next* button to complete the setup of the Clock and Time Zone screen.
15. Configure the authentication.
 - a. Click the *Skip User Creation* radio button on the Local User screen.
 - b. Click *Next* in the Local User screen.
16. Set the Password for the System Administrator user root.
 - a. Type *suse* in both fields for the System Administrator root user password.
 - b. Click *Next*.
 - c. Click *Yes* in the *password is too simple* message window.
17. Disable the firewall by clicking on *disable* next to *firewall will be enabled*. The display will change to *firewall will be disabled*.
18. Enable the SSH service by clicking on *enable*, located next to *SSH service will be disabled*. The display will change to *SSH service will be enabled*.
19. If listed, enable an SSH port by clicking on *open*, located next to *SSH port will be blocked*. The display will change to *SSH port will be open*.



20. Click *Install* to start the installation.
21. Click *Install* in the Confirm Installation window. The file copying will begin. After the OS installation completes, the system will restart.
22. After restart, DO NOT remove the OS DVD from the SUT. It is needed for the Kit install.
23. Proceed to Section 2.0 "Creating a New Test Project"

2 POS Pre-Testing and Preparation

2.1 Configure SUT Desktop Environment (SLES 15)

1. Click **Activities** in the top left corner of the desktop.
2. Search for **Tweaks** and click the **Tweaks** icon.
3. Click **Top Bar** and under the **Clock** label, enable **Weekday** and **Seconds**.
4. Close the **Tweaks** Window.
5. From the Desktop, Right-click, then click **Settings**.
6. Scroll to the bottom of the left selection pane and click **Details**.
7. Click **Date & Time** and change the Time Format to AM / PM.
8. Close the Settings Window..
9. Continue with **Section 2.2 – Configure SUT Wireless** or skip to **Section 2.3 – Install Workstation Extensions**.

2.2 Configure SUT Wireless for SLES

1. From the SUT, Right-click and open a **Terminal** window.
2. Type “yast2 lan” <Enter>, select the wlan0 adapter and click **Edit**.
3. Click the **Statically Assigned IP Address** radio button.
4. Enter 10.1.3.1 for the **IP address**.
5. Enter 255.255.255.0 for the **Subnet Mask**.
6. Enter a hostname and click **Next**.
7. Click the **Scan Network** button and choose the TC wi-fi network.
8. Choose your **Authentication Mode** if needed, and click **Next**.
9. Click **Yes** to accept security risk if prompted and click **Ok**.
10. Proceed to **Section 2.3 – Install Workstation Extensions (SLES 12)** or **Section 2.4 – Install Workstation Extensions (SLES 15)**.

2.3 (Optional) Install Workstation Extensions (SLES 15)

1. From the SUT, open a **Terminal** and type “zypper in sle-we-release”.
2. Press <Enter> to continue and follow the prompts.
3. Close the **Terminal** window.
4. Proceed to **Section 3.1 – Creating a New Test Project**

3 Set Up Test Suite

3.1 Creating a New Test Project

1. Double-click the **TestConsole** icon from the desktop of the TC to open **TestConsole**.
2. Ensure that you have updated the products.txt file as instructed in the TestConsole documentation and click the New button on the menu bar.

Note: Direct Access to the TC, and SUT network is required, do not use remote access, do not use SSH).

3. Click on the *POS* project then click the select button.
4. A default unique project file-name will be generated. The unique project file-name contains a date-stamp and time-stamp. You may choose a different unique project filename by typing a filename into the project file name field.

Note: Use a unique project filename which has not been used previously used. Do not use spaces or html control characters in the filename. Do not create a project name greater than 58 characters as this may cause some tests to fail.

5. Click **Save** to save the project. The install tests should all be displayed under the Install Test category.

3.2 Install Test Kit on SUT

Test Objective: This test installs the Yes Certification Test Kit onto the SUT.

Note: If the SUT contains a wireless adapter, use Yast2 to configure WLAN0 and connect to the TC Wi-Fi network before installing the test kit. Refer to Figure 2-3 for IP addressing.

1. Click the + to open and double-click *Install Kit on SUT* under the TC POS project.
2. When prompted respond to the question "*is the SUT machine (IP Address) a laptop*" ?
3. When prompted to "Enter a NIC number to modify...", make sure the IP addresses match their respective network segment: (eth0 = 10.1.1.1, eth1 = 10.1.2.1, wlan0 = 10.1.3.1)
4. Enter the number to be edited (if needed), make appropriate changes and press <Enter>.
5. Once all changes are made, press c to continue.
6. Press <Enter> as prompted once the SCK installation has completed.
7. If this test fails, verify IP addresses are correct, then reboot the TC and run the test again.



3.4 Install Check

Test Objective: Verify that SLES and the SCK installed correctly.
Double-click *Install Check* under the TestConsole project for the SUT.

3.5 Enable Component Check

Test Objective: This test prepares for the component check.

1. Double-click *Enable Component Check* under the TestConsole project for the SUT.
2. If the GUI login screen is not displayed on the SUT then on the SUT press <Ctrl><Alt><F7> at the same time to bring up the GUI.
3. Login into the SUT as Root. The password should be *suse*.

3.6 Component Check

Test Objective: This test will gather system information about the SUT. Ensure that all devices (e.g. wireless LAN adapter) are enabled before starting the Component Check Test.

All subsequent tests will be available once the Install Check Test and Component Check Test are completed. If a detected component is deleted from the detected devices it can be listed again by starting the component check test again. Direct access to the TC, and SUT are required (do not access remotely, do not use SSH).

1. Double-click *Component Check* in the Project Contents pane.
2. Follow any on-screen prompts on TC.
3. Click Yes on the Open Edit Product/Report pop-up window.

4 Product and Report Information Entry

The Product and Report Information screen is the product information input tool for your Yes Certification Bulletin. The hardware information entered on the following screens will be the same information which appears on your Yes Certification bulletin. Please be accurate with all inputted information.

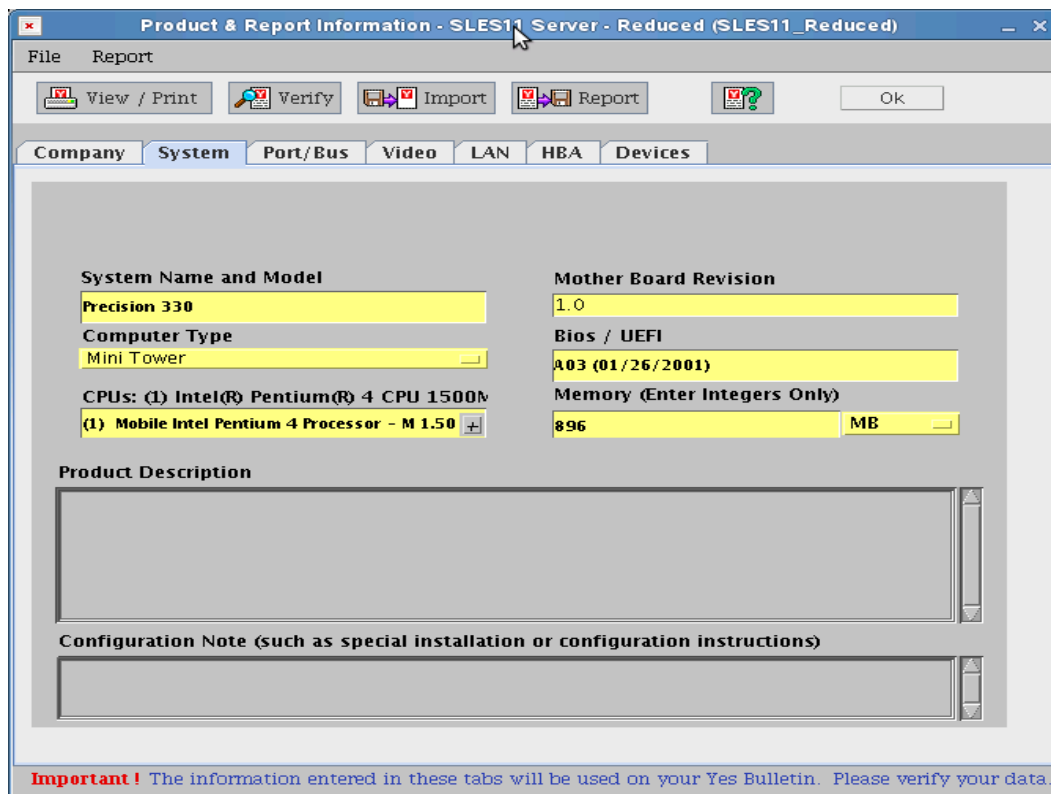
Note: Direct access to the TC, and SUT systems are required (do not access remotely, do not use SSH).

1. Click the *Edit Product/Report* button to open the Product & Report Information window.
2. Proceed to the next section (System Information Entry).

4.1 System Information Entry

The system information consists of all fields under the System tab. Much of the OS detected information will be filled in automatically, but it needs to be checked for accuracy and can be corrected as needed. This is the information which will appear on the Yes Certification Bulletin. **It is important to complete all information entry in this section accurately before testing the SUT.**

Figure 4-1 System Tab



Product & Report Information - SLES11 Server - Reduced (SLES11_Reduced)

File Report

View / Print Verify Import Report ? OK

Company **System** Port/Bus Video LAN HBA Devices

System Name and Model
Precision 330

Computer Type
Mini Tower

CPUs: (1) Intel(R) Pentium(R) 4 CPU 1500M
(1) Mobile Intel Pentium 4 Processor - M 1.50

Mother Board Revision
1.0

Bios / UEFI
A03 (01/26/2001)

Memory (Enter Integers Only)
896 MB

Product Description

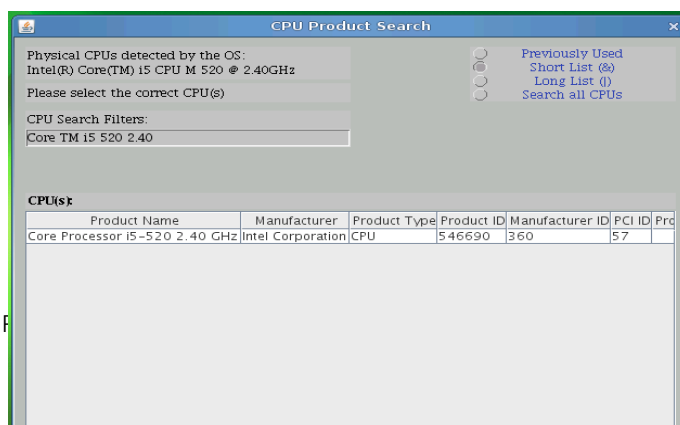
Configuration Note (such as special installation or configuration instructions)

Important ! The information entered in these tabs will be used on your Yes Bulletin. Please verify your data.

Note: The system information fields are required to be completed for the test results submission file to successfully read into the SUSE Bulletin System (SBS). Test Results will be cleared if these fields are changed (with the exception of the Product Description field and Configuration Note field).

1. Enter the System Information. The detectable information will be filled in automatically.
 - a. If missing or incorrect, enter the System Name and Model.
 - b. If missing or incorrect, choose the Computer Type from the drop-down list.
 - c. If missing or incorrect, enter the Mother Board Revision.
 - d. If missing or incorrect, enter the system BIOS/UEFI version information. There are three possible options to be reported in the BIOS / UEFI field: UEFI, BIOS or UEFI-Legacy. Edit this field to be the correct information. The line must display one of the following:
 - UEFI: <version> <date> - This means that the firmware on the hardware platform is UEFI and the system was booted in its UEFI enabled configuration. It also means that the SLES OS on the SUT was installed and booted using the UEFI boot loader (ELILO).
 - Example: UEFI: AJ152 (12/24/2013)
 - BIOS: <version> <date> - This means that the firmware on the hardware platform is a traditional BIOS and the system was booted through the BIOS. It also means that the SLES OS on the SUT was installed and booted using the traditional or legacy boot loader (GRUB). Example: BIOS: AJ152 (12/24/2013).
 - UEFI-Legacy: <version> <date> - This means that the firmware on the hardware platform is UEFI and was booted UEFI. It also means that the SLES OS on the SUT was installed and booted using the traditional or legacy boot loader (GRUB).
 - Example: UEFI-Legacy: AJ152 (12/24/2013).
 - e. If missing or incorrect, enter the system Memory (RAM) then choose from the drop-down the units of measure (e.g., Megabytes, Gigabytes, etc.).
2. Select the CPU in the SUT.

Figure 4-2 CPU Selection Window



3. Click the '+' button next to the CPU's field.
4. Select the appropriate CPU from the filter list. The short list of the closest detectable matching CPU/s will be listed on the screen.
 - a. Make sure the CPU quantity is correct then click OK.
 - b. If needed use a search filter to find the CPU in the SUT. If the correct CPU was not detected, there are 3 additional filter methods to use when searching for the CPU. The CPU should be selected from the results when using any of these filters. The filter types are: previously selected, short list, long list, and search all CPU's. These can be selected by clicking on the associated radio button on the screen. Below is an explanation of each filter.
 - c. Previously Selected - This filter will display all CPU's previously used.
 - d. Short List - This is the default filter when the screen is opened. The CPU/s containing all of the auto detected criteria will be displayed.
 - e. Long List - CPUs containing any part of the auto detected criteria will be displayed.
 - f. Search all CPU's - This is an editable interactive search filter. The editable search field will appear. Enter any information to search on. If no search criteria is entered, then all CPU's will be listed.
 - g. If the correct CPU still does not appear in the filter list after using each of the search filters, then choose a substitute CPU for testing. Propose the new unlisted CPU in SBS. See the SBS users guide in the Appendix of this document for more information.
 - h. The CPU quantity will also be automatically filled in. If CPU quantity is missing or incorrect, then enter the correct quantity.
 - i. To remove a CPU, select a different CPU and click OK.
5. Enter the Product Description. The product description field on a YES CERTIFIED bulletin is a way to include additional information about your product that is important, but that is not listed elsewhere on the bulletin.
6. Requirements for the Product Description:
 - Product description must be in English and may not exceed 1,000 characters.
 - Do not use carrots < > in the product description.
 - Do not use special characters such as trademarks or copyrights in the product description.
 - Do not make claims that are difficult or impossible to substantiate, especially over time.
 - Some examples include the following:
 - Do not use phrases like "this is the best...", "fastest...", etc.)

- Do not make statements about product lines or product series. It must be specific to the product tested and the configuration listed in the specific bulletin.
- Do not compare your product to a competitor's product or other products on the market.
- If a component category is not listed on the bulletin in the tested configuration area, but was part of the tested configuration, it may be included in the product description.
- Do not indicate optional adapter/driver configurations.
- Do not list alternate processor families, unless test results are submitted for these alternate processors.
- If alternate configurations of components are available and desired on a bulletin (video, hard drives, keyboards, etc.), then a separate bulletin must be created. If it is desired to list a "variety of options" (hard drives, optical drives, etc. are available), then each must have a separate bulletin.

Note: SUSE reserves the right to remove any information from the bulletin submission that is deemed questionable with regards to this process at its own discretion.

- Required installation or configuration instructions should not be in the product description, but should instead be included in the configuration notes section.
 - To provide additional product marketing information, the following options are provided:
 - A URL where additional product information can be obtained can be included in the product description. Note that the bulletin becomes a static document, so use a link that is not likely to change (you may want to use your company Web site).
7. Enter configuration notes into the Configuration Note field. Configuration Notes may also be added to the Yes Certification Bulletin after the bulletin submission is read into the SBS database.
- If any boot parameters were used for the OS Installation on the SUT, please enter this information into the Configuration Note field.
 - If the certification testing is for Xen, provide the Base SLES bulletin number in the configuration note or enter the information into the communications section of the bulletin submission in SBS.

- Add any configuration information an end-user would need when using the system.

4.2 Company Information Entry

The company information consists of all fields under the Company tab.

1. Select the Company tab.
2. Enter the system manufacturer company name.
 - a. Click the '+' next to the Company field.
 - b. Select your company name by clicking on it. The first time that a company name is selected it will automatically be entered into the testing company name field.

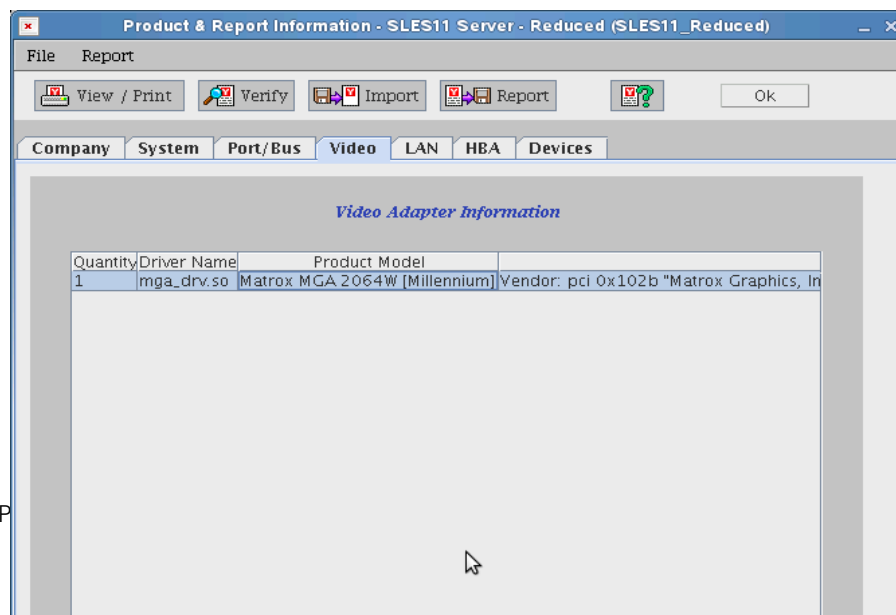
Note: If your company name is not listed in the company drop down list, leave the default name "Company Not Selected". Your company will be automatically added to the products.txt once your company has a bulletin submission in SBS with your company name listed. See the SBS users guide document for more information about adding a company to SBS.

- c. Click *Select*.
3. Change the Testing Company name if it is different from the system manufacturer company name.
 - a. Click the '+' next to the Testing Company field.
 - b. Select the testing company name by clicking on it.
 - c. Click *Select*.
 4. Type in the Company URL (optional).

4.3 Video Device Information Entry

1. Select the Video Adapter used in the SUT.
 - a. Click the *Video* tab.
 - b. Click on the first video adapter listed.

Figure 4-3 Video Tab



- c. Click *edit* in the Video Tab window.
- d. Select the appropriate video adapter from the filter list. Any previously selected video adapter will be listed on the screen. If this is the correct video adapter and quantity which is in your SUT then click on the displayed video adapter to select it, then click OK. If there are no additional video adapters to select then go to the LAN Device Information entry section. Repeat the steps in 1 for each additional video adapter in the SUT. If the video adapter which is in the SUT is not being listed then go to step 1e.

Figure 4-4 Video Edit/Selection Window

Edit Video Adapter Information

Device Model (Detected by OS):
MGA 2064W [Millennium]

Manufacturer (Detected by OS):
Matrox Graphics, Inc.

Select a device to be listed with the adapter:

Device Search Filters:
MGA 2064W [Millennium]

Device list:

Product Name	Manufacturer	Product Type	Product ID	Manufacturer ID	Product Type ID
--------------	--------------	--------------	------------	-----------------	-----------------

Quantity: 1

Buttons: Ok, Cancel

Radio Buttons: Previously Used (selected), Short List (&), Long List (!), Search all Devices, Propose new device

- e. Use a search filter to list the video adapters to choose from. If the correct video adapter was not detected, there are additional search filters to use when searching for the correct video adapter. The video adapter should be selected from the results when using any of these filters. The filter types are: previously selected, short list, long list, and search all devices. These can be selected by clicking on the associated radio button on the screen.
- f. Below is an explanation of each filter:
 - **Previously Selected** - This is the default filter when the screen is opened. This filter will display all video adapter 's previously selected.

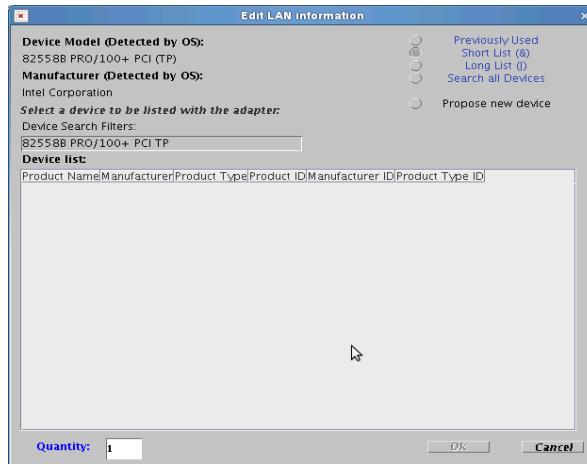
- **Short List** – The video adapter containing all of the auto detected criteria will be displayed.
 - **Long List** – The video adapter/s containing any part of the auto detected criteria will be displayed.
 - **Search all Devices** – This is an interactive search filter. The editable search field will appear.
 - Enter any information to search on. If no search criteria is entered, then all video adapter's will be listed. You may want to search for part or all of the device or name. For example to search for an NE 2000, search for NE or 2000. Or search for the *Company* or *ID number*.
 - **Propose New Device (not found in database)** – This is the method used to propose new video adapters. If the video adapter cannot be found, then it must be proposed as new adapter.
- g. If the video adapter cannot be found with the filters, then it must be proposed as a new adapter which is not already contained in the SBS database.
 - h. Click on the *Propose new device* radio button.
 - i. Enter the video adapter product name.
 - j. If the device type listed is not correct then select the correct device type from the drop-down choices.
 - k. Click on the *Manufacturer* drop down to select the video adapter manufacturer and click *OK*.
2. After the bulletin submission file is read into SBS, a manufacturer URL will need to be added for the proposed device. See the SBS Users Guide for more information about adding a URL.
 3. The video adapter quantity will also be automatically filled in. If the video adapter quantity is missing or incorrect, then enter the correct quantity and click *OK*.
 4. Repeat the video selecting steps until all video devices in the SUT are selected.
 5. To remove a video adapter,
 - a. Click the *Edit Product/Report* button.
 - b. Click on the video tab.
 - c. Click on the video adapter to remove
 - d. Click remove.
 - e. Follow the onscreen prompts.
 6. To restore a deleted video adapter,
 - a. Close the **Product & Report Information** screen by clicking on the **OK** button.
 - b. Double-click *Component Check* in the *Project Contents pane*.
 - c. Click on the *Edit Product/Report* button.
 - d. Click on the video tab. The removed video driver will be listed.
 - e. Repeat the video selecting steps until all video adapters are selected.



4.4 LAN Device Information Entry

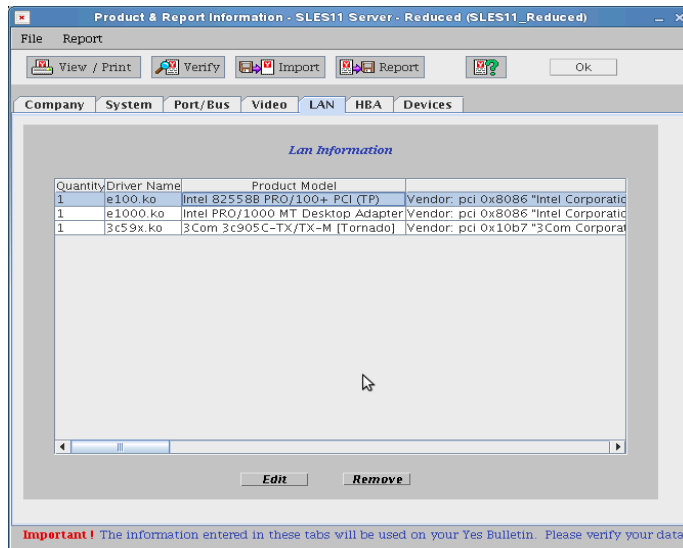
1. Select the LAN Adapter/s used in the SUT.
 - a. Click the *LAN* tab.
 - b. Click on the first LAN adapter listed.

Figure 4-5 LAN Tab



2. Click *edit* in the *LAN Tab* window.

Figure 4-6 LAN Edit Window



3. Select the appropriate LAN adapter from the filter list. Any previously selected LAN adapter will be listed on the screen. If the correct LAN adapter and quantity is displayed, select the displayed LAN and click OK. Repeat the steps 1-3 for each additional LAN adapter in the SUT. If the LAN adapter which is in the SUT is not being listed then go to step 4. If there are no additional LAN devices in the SUT then go to the HBA Device Information entry section.

4. If the correct LAN adapter was not detected, there are additional search filters to use. The filter types are: previously selected, short list, long list, and search all devices
5. Below are explanations of each filter:

Previously Selected – This is the default filter when the screen is opened. This filter will display all LAN adapters previously selected.

Short List – The LAN adapter containing all of the auto detected criteria will be displayed.

Long List – The LAN adapter/s containing the auto detected criteria will be displayed.

Search all Devices – This is a editable interactive search filter. The editable search field will appear. Enter any information to search on. If no search criteria is entered, then all LAN adapter's will be listed. You may want to search for part or all of the device or name. For example to search for an NE 2000, search for NE or 2000, or for the *Company* or *ID number*.

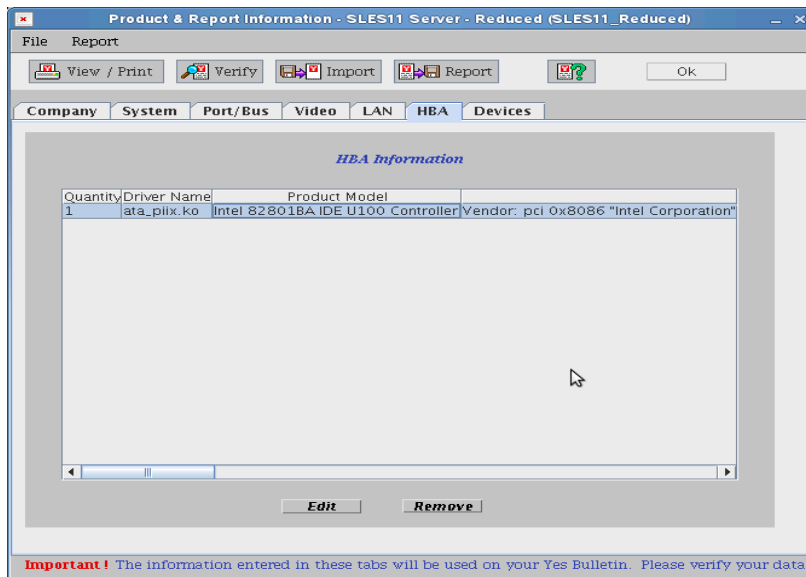
Propose New Device (not found in database) – This is the method used to propose new LAN adapters. If the adapter cannot be found, then it must be proposed as a new adapter.

- a. If the LAN adapter cannot be found with the filters, then it must be proposed as a new adapter which is not already contained in the SBS database.
- b. Click on the *Propose new device* radio button and Enter the LAN product name.
- c. If the device type listed is not correct then select the correct device type from the drop-down choices.
- d. Click on the *Manufacturer* drop down to select the LAN adapter manufacturer.
- e. Click OK.
6. After the bulletin submission file is read into SBS, a manufacturer URL will need to be added for the proposed device. See the SBS Users Guide for more information.
7. The LAN adapter quantity will also be automatically filled in. If the LAN adapter quantity is missing or incorrect, then enter the correct quantity.
8. Click OK.
9. Repeat the LAN selecting steps until all LAN's in the SUT are selected.
10. To remove a LAN driver or LAN adapter,
 - a. Click the *Edit Product/Report* button.
 - b. Click on the LAN tab.
 - c. Click on the LAN driver or LAN adapter to remove, then Click remove.
 - d. Follow the onscreen prompts.
11. To restore a deleted LAN driver,
 - a. Close the *Product & Report Information* screen by clicking on the OK.
 - b. Double-click *Component Check* in the *Project Contents* pane.
 - c. Click on the *Edit Product/Report* button.
 - d. Click on the LAN tab. The removed LAN Driver will be listed.
 - e. Repeat the LAN selecting steps until all LAN's in the SUT are listed.

4.5 HBA Device Information Entry

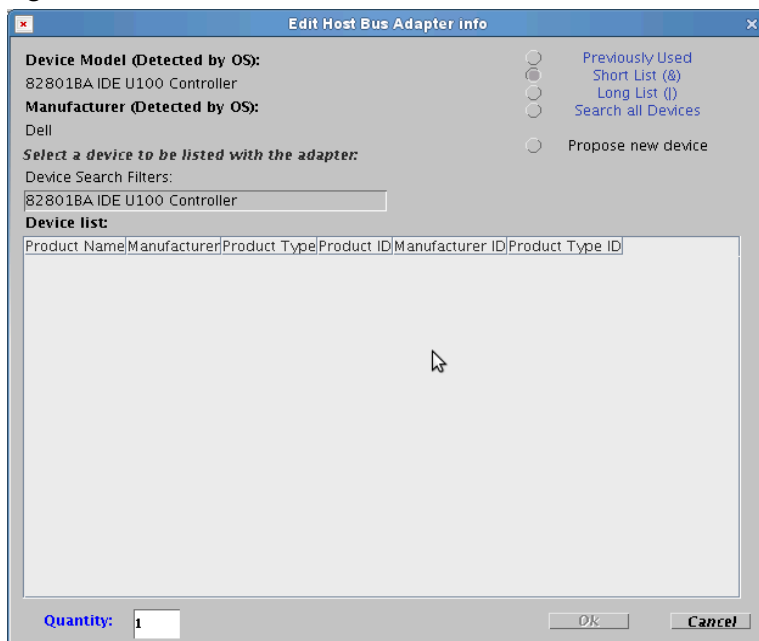
1. Select the HBA used in the SUT.
 - a. Click the *HBA* tab.
 - b. Click on the first HBA listed.

Figure 4-7 HBA Tab



2. Click *edit* in the *HBA Tab* window.

Figure 4-8 HBA Edit/Selection Window



3. Select the appropriate HBA from the filter list. Any previously selected HBA will be listed on the screen. If the correct HBA and quantity is displayed, select it and click OK.
4. Repeat steps for each additional HBA in the SUT. If the HBA which is in the SUT is not being listed then go to step 5.
5. Use a search filter for a list of all HBAs. The filter types can be selected by clicking on the associated radio button on the screen.
6. Below is an explanation of each filter:

Previously Selected – This is the default filter when the screen is opened. This filter will display all HBAs previously selected.

Short List – The HBA containing all of the auto detected criteria will be displayed.

Long List – The HBA containing any part of the auto detected criteria will be displayed.

Search all devices – This is an interactive search filter. The editable search field will appear. Enter any information to search on. If no search criteria is entered, then all HBA's will be listed. You can search for part or all of the device or name. Or search for the *Company* or *ID number*.

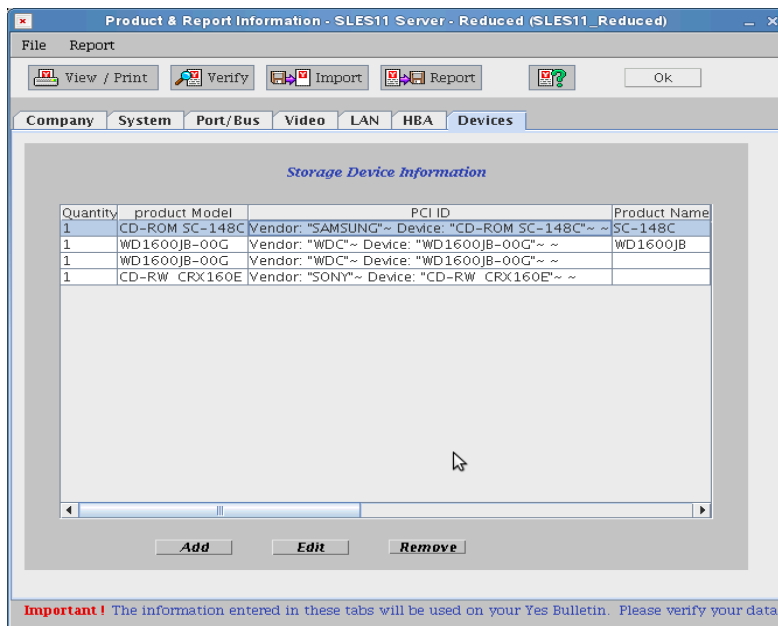
Propose New Device (not found in database) – This is the method used to propose new HBA. If the HBA cannot be found, then it must be proposed as a new adapter.

7. If the HBA cannot be found with the filters, then it must be proposed as a new adapter which is not already contained in the SBS database.
 - a. Click on the *Propose new device* radio button.
 - b. Enter the HBA product name.
 - c. If the device type listed is not correct then select the correct device type from the drop down choices.
 - d. Click the *Manufacturer* drop down to select the HBA manufacturer and click OK.
8. After the bulletin submission file is read into SBS, a manufacturer URL will need to be added for the proposed device. See the SBS Users Guide for more information.
9. The HBA quantity will also be automatically filled in. If the HBA quantity is missing or incorrect, enter the correct quantity and click OK.
10. Repeat the HBA selecting steps until all HBA's in the SUT are selected.
11. To remove an HBA,
 - a. Click the *Edit Product/Report* button.
 - b. Click on the HBA tab.
 - c. Click on the HBA driver or HBA to remove, then click remove.
 - d. Follow the onscreen prompts.
12. To restore a deleted HBA or HBA driver,
 - a. Close the Product & Report Information screen by clicking on the OK button.
 - b. Double-click *Component Check* in the *Project Contents* pane.
 - c. Click on the *Edit Product/Report* button.
 - d. Click on the HBA tab. The removed HBA driver will be listed.
 - e. Repeat the HBA selecting steps until all HBA's in the SUT are selected.

4.6 Storage Device Information Entry

1. Select the storage devices in the system (this includes hard disk drives, optical media drives, SAN's and backup drives).
2. Click the *Devices* tab.
3. Click on the first device listed.

Figure 4-9 Devices Tab



4. Click *edit* or if the device is unlisted, click *add* in the *Device Tab* window.
5. Select the appropriate device from the filter list. Any previously selected device will be listed on the screen. If this is the correct device which is in your SUT then click on the displayed device to select it. If the device which is in the SUT is not being listed then go to step 6.

Figure 4-10 Devices Edit/Selection Window

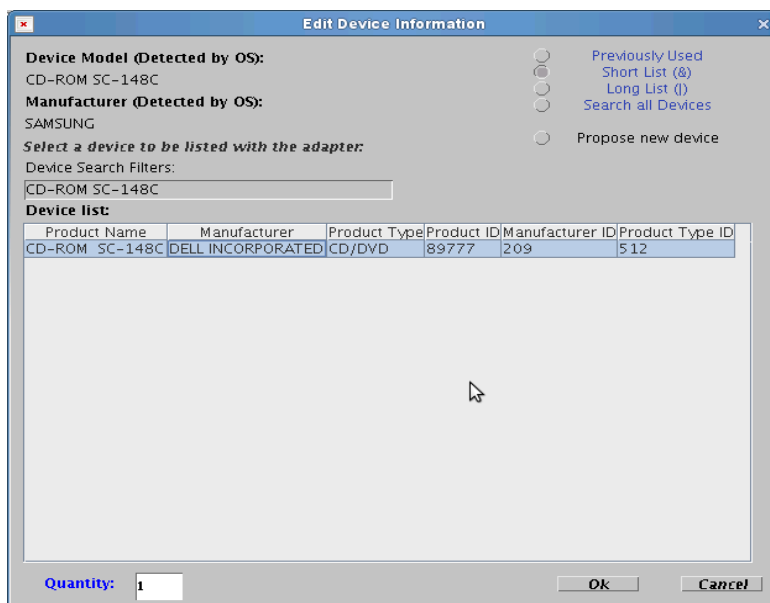
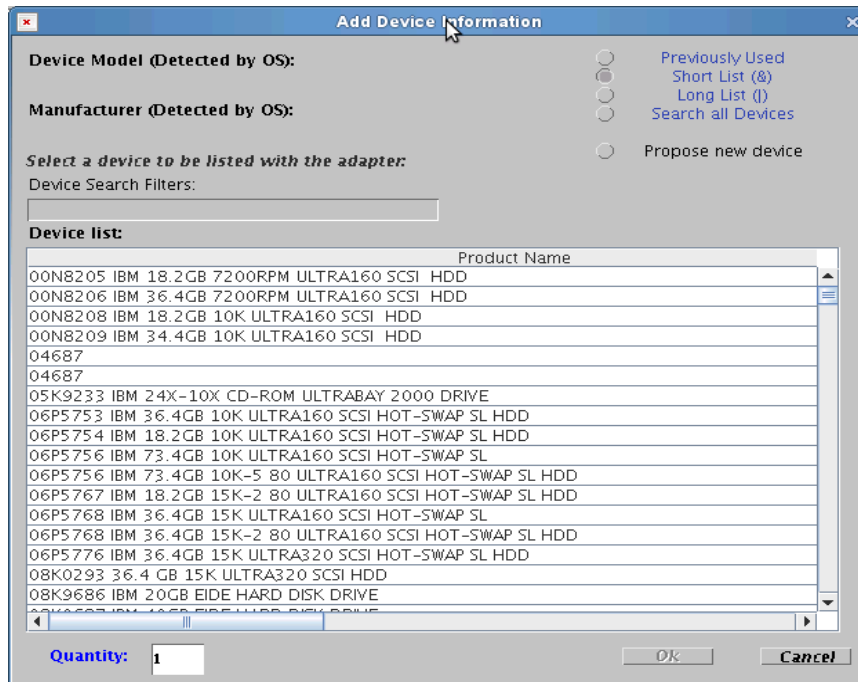


Figure 4-11 Devices Add Window

6. Use a search filter for a list of all devices. The filter types can be selected by clicking on the associated radio button on the screen.
7. Below is an explanation of each filter:

Previously Selected – This is the default filter when the screen is opened. This filter will display all device's previously selected.

Short List – The device containing all of the auto detected criteria will be displayed.

Long List – The device/s containing any part of the auto detected criteria will be displayed.

Search all devices – This is a editable interactive search filter. The editable search field will appear. Enter any information to search on. If no search criteria is entered, then all device's will be listed. You may want to search for part or all of the device or name. For example to search for an NE 2000, search for NE or 2000. Or search for the *Company* or *ID number*.

Propose New Device (not found in database) – This is the method used to propose new device. If the device cannot be found, then it must be proposed as a new adapter.

8. If the device cannot be found with the filters, then it must be proposed as a new device which is not already contained in the SBS database.
9. Click on the *Propose new device* radio button.
10. Enter the device product name.

11. If the device type listed is not correct then select the correct device type from the drop down choices.
12. Click the *Manufacturer* drop down to select the device manufacturer and click *OK*.
13. After the bulletin submission file is read into SBS, a manufacturer URL will need to be added for the proposed device. See the SBS Users Guide more information.
14. The device quantity will also be automatically filled in. If the device quantity is missing or incorrect, then enter the correct quantity and click *OK*.
15. Repeat the device selecting steps until all device's in the SUT are selected.
16. To remove a device, click on the device and click remove.
17. Continue to Verify Device Information Entry.

4.7 Verify Device Information Entry

1. Check for hardware that has not been added to the SUT hardware information list.
2. Click *Verify* in the Product & Report Information window to review the Errors.
3. If there are any "ERROR ... Missing...:" messages do the following:
 - a. Write down the missing devices.
 - b. Follow the instructions in section 2.5... to add all missing System, Company, LAN, HBA, Video or Device information.
 - c. Click *OK* to close the Exception Information window.
 - d. Repeat for each driver ERROR:...missing... message.
 - e. Once all missing hardware has been added, click *OK* in the *Product & Report Information* window.

4.8 Saving the Test Project

1. Click on **Save** (at the top of the screen) to save the project.
2. Begin testing the system now according to the requirements for the test project.
3. Follow the testing instructions in the next section for the testing that you will perform.
4. Run the tests in order.

During testing, TestConsole may prompt the tester for IP addresses, usernames, passwords, and user directory context for the SUT. We have not documented all on screen prompts for each individual test. The answers to the on screen questions should be obvious. If your SUSE DS contract includes support from an assigned SUSE engineer, you may contact that engineer for additional assistance.

4.9 SUSE Linux Enterprise POS (SLEPOS) Support Cycle

It is important to note that SUSE does not offer LTSS support contracts for SLEPOS. Instead, SUSE provides an extended lifecycle for every third Support Pack release. In the case of SLEPOS for SUSE Linux Enterprise 15, that extended lifecycle falls on SLE15 SP3 and SLE15 SP6. The lifecycles of these releases extend to 7 years from FCS. Other releases have a normal lifecycle that matches the OS. If you have any questions, please contact your assigned partner engineer.

5 POS Test Suite

Most tests in this section have 4 possible testing outcomes, pass, fail, pass w/warning and not applicable. Below are explanations for each possible outcome:

PASS test result – indicates that the tested configuration has completely passed the testing requirements.

PASS w/WARNING test result – indicates that the tested configuration has passed the testing requirements but may have configuration issues which are in question. A PASS w/WARNING test result will need to be reviewed by a SUSE engineer when the test results are submitted. If there were warning messages on the SUT during the test, review these messages with regards to your hardware.

FAIL test result – indicates that the tested configuration has failed the testing requirements. This may be due to improper configuration or steps missed during installation, setup or testing.

NOT APPLICABLE test result – indicates that the test does not apply to the tested configuration.

5.1 Manual Tests Group

Test Group Overview: The Manual Tests in this section require user interaction. Run these tests individually before moving on to the Automated and Stress Test groups.

5.1.1 Battery Test

Test Overview: This test is required for systems that can be powered by a battery (not an external UPS). The battery must be fully charged prior to starting this test. If the SUT does not have a battery, skip to the next test. This test must pass in order for power management to display yes on the bulletin. For more information about power management requirements, see the YES Certified System Test Kit Policy document.

Test Objective: Verify the OS can properly monitor the usage of the battery on the system.

1. Double-click the Battery Test in the TestConsole project for the SUT.
2. Follow the onscreen instructions in the new console window that appears on the SUT.

5.1.2 Video Test

Test Objective: Verify that the display sleep functionality works on the system.

1. Double-click *Video Test* in the TestConsole project for the SUT.
2. Follow the on-screen instructions in the console window that appears on the TC.

5.1.3 Touchscreen Test

Test Objective: Verify that the touchscreen functions correctly with the OS.

1. Double-click *Touchscreen Test* in the TestConsole project for the SUT.
2. Follow the on-screen instructions in the console window that appears on the SUT.

5.1.4 Speaker Test

Test Overview: This test is required for systems which support audio output or have built in speakers.

Test Objective: Verify that the sound card and speakers are compatible with the OS.

1. Double-click the *Speaker Test* in the TestConsole project for the SUT.
2. Follow the on-screen instructions in the console window that appears on the SUT.

5.1.5 Microphone Test

Test Objective: Verify that the sound card and the usage of a microphone are compatible with the OS.

3. Double-click the *Microphone Test* in the TestConsole project for the SUT.
4. Follow the on-screen instructions in the console window that appears on the SUT.

5.1.6 Optical Verify/Write Test

Test Objective: Exercises the optical devices write capability. If the SUT does not have an optical device with write capability then the test will return "NOT APPLICABLE".

Blu-ray drives are not supported in SLE, please use a DVD for testing Blu-ray devices.

This test should be completed prior to stress tests. Once the test has completed the written media will be used for the Optical Read Test during the 12 hour stress tests.

1. Determine if the optical device supports auto-trayclose.
 - a. On SUT type eject <Enter> at the command line to eject the CD/DVD.
 - b. On SUT type eject --trayclose <Enter> at the command line to close the tray. If the tray closes and the command does not return an error then it is supported.

Note: If the optical device does not support auto-tray close, manually close the tray during testing.

2. On the SUT place a blank writable media into each optical media device.
3. If prompted to choose what application to open, press Cancel.
4. Double-click the *Optical Verify/Write Test*. The Test will begin. Messages generated during this test will pop up on the TC.

5.1.7 Hibernate Test

Test Overview: This test must pass in order for power management to display yes on the SLED bulletin. For more information about power management requirements on a bulletin, please see the Yes Certified System Test Kit Policy document.

Test Objective: Verify that the OS can correctly put the machine into and recover from hibernation mode.

1. Double-click the *Hibernate Test* in the TestConsole project for the SUT.
2. Follow the on-screen instructions in the console window that appears on the TC.



5.1.8 Sleep Test

Test Overview: This test must pass for power management to display yes on bulletin.

Test Objective: Verify that the OS can correctly suspend and recover SUT from sleep mode.

1. Double-click the *Sleep Test* in the TestConsole project for the SUT.
2. Follow the on-screen instructions on the TC.

5.1.9 Kdump Test

Test Overview: This test will need between 5 GB and the equivalent to the amount of RAM in the system of free disk space. The amount of free disk space needed depends on the amount of RAM in the system. SLED will need more space on the / (root) then there is RAM for the test to properly run.

Test Objective: Verify that the OS and hardware can correctly perform a kernel crash dump (kdump).

1. Double-click the *Kdump Test* in the TestConsole project for the SUT.
2. Follow the on screen instructions on TC. The onscreen instructions will direct the tester. A reboot may occur multiple times to perform and complete the kdump test.

Kdump Over Network

1. Double-click the Kdump Test in the TestConsole project for the SUT.
2. When prompted to press <Enter> to run Kdump, **First** run the following on the SUT:
 - a. Open a terminal and type "yast2 Kdump" <Enter>
 - b. Make sure Kdump is enabled.
 - c. Add 150 to the Kdump Low Memory [MiB] and Kdump High Memory [MiB] fields.
 - d. Select **Dump Target** from the left menu.
 - e. Make sure **Select Target** is set to **NFS**.
 - f. Make sure **Server Name** is set to **10.1.1.2**
 - g. Make sure **Directory on Server** is set to **/**
 - h. Select **Expert Settings** from the left menu.
 - i. Remove all data from the **Kdump Command Line Append** field.
 - j. Click **OK**.
 - k. From the TC, press <Enter> to launch the Kdump.
 - l. Follow the on-screen instructions on the TC.

5.2 Automated Tests Group

Test Group Overview: The automated tests will vary depending on the project chosen for the testing. All possible Automated Tests (minus Stress Tests) are listed in this section. For more information about.

5.2.1 CPU Frequency Test

Test Overview: This is a fully automated test, there will not be any user interaction required. This test must pass in order for power management to display yes on the



bulletin. For more information about power management requirements on a bulletin, please see the Yes Certified System Test Kit Policy document.

Test Objective: Verify OS can change and monitor CPUs that support multiple frequencies.

Note: Ensure that Auto Frequency changing is enabled in the system setup. This test may take more than 10 minutes depending on the number of CPU cores in the system.

Double-click the *CPU Frequency Test* in the TestConsole project for the SUT.

5.2.2 Fan Thermal Test

Test Overview: This test is fully automated, there will not be any user interaction required.

Test Objective: Verify that the SUT can properly monitor the change of temperature and fan states (on/off)

1. Double-click the *Fan Thermal Test* in the TestConsole project for the SUT.
2. The glxgears automated gears may be displayed on the SUT. This can be ignored.

5.2.3 Throttling Test

Test Overview: This test is fully automated, there will not be any user interaction required.

Test Objective: Verify that the OS can properly change the throttling settings on the CPUs.

Double-click the *Throttling Test* in the TestConsole project for the SUT.

5.2.4 Firmware BIOS Test (Optional)

Test Overview: This test will test the BIOS/firmware.

Test Objective: Verify that the BIOS/firmware is compatible with the OS.

Double-click *Firmware BIOS Test* in the TestConsole project for the SUT.

5.2.5 Verify Setup NIC

Test Objective: Verify that the NIC configuration is correct including LAN speeds and IP addresses. This test must pass before starting the stress tests.

1. Ensure that the IP address for the NIC is correct.
SUT NIC 1 (default) IP address 10.1.1.1
TC NIC 1 (default) IP address 10.1.1.2
2. Double-click Verify NIC Setup in the TestConsole project for the SUT.
3. Test explanations: The NIC verify test will take a few minutes to complete. If the test fails, troubleshoot the NIC setup by reviewing the configuration information in the TestConsole Document to ensure that the hardware is set up correctly. A "PASS w/WARNING" result may indicate that the SUT NIC speed is not detectable with

ethtool. If the SUT NIC speed is not detectable with ethtool then the tests are unable to verify that the network configuration is setup correctly.

5.2.6 Verify Time Sync Setup

Test Objective: Verify that the time is correctly synced between the SUT and the TC.

This test must pass before starting the stress tests.

1. Ensure that the IP address for the adapter is correct.
SUT NIC 1 (default) IP address 10.1.1.1
TC NIC 1 (default) IP address 10.1.1.2
2. Double-click *Verify Time Sync Setup* in the TestConsole project for the SUT. If the test fails then follow the onscreen instructions. If the onscreen instructions do not solve the problem then see the Time Sync troubleshooting section of the Troubleshooting and Help document.

5.3 Stress Tests Group

Test Group Overview: As each test is set up, the actual test will be added into a folder called *Stress Tests* in the *Project Contents* pane. The stress tests will be started at the same time and run together to stress the overall system more efficiently and reduce testing time. After all testing is complete the *Get Test Logs Test* is the final test. Do not run the *Get Test Logs Test* until all testing is completed.

5.3.1 Memory/CPU Test

Test Objective: Verify that the CPU's and memory function correctly under stress for an extended amount of time. This test does not require any setup.

5.3.2 Hard Disk/RAID Test Setup

Test Overview: The Hard Disk/RAID device test is always required. The Hard Disk/RAID test will detect and test all Hard Disks and/or hardware RAID devices which have a mountable partition. The hardware RAID testing is for hardware RAID only, it is not intended for testing software RAID. This test will exercise SCSI, SATA, eSATA, SAS, IDE and Fibre Optic connected devices. If the SUT does not have a Hard Disk/RAID device then the test will return the test result of "NOT APPLICABLE".

Test Objective: Verify that the Hard Disk or RAID and driver functions correctly with the system.

1. If you want to list an eSATA port on the bulletin then connect the eSATA device to the eSATA port. The eSATA device must be tested during the certification tests. See "USB Test Setup" instructions to format external drives.
2. This test is enabled by default and will run with the stress tests.

5.3.3 NIC Test

Test Objective: Verify that the NICs function correctly under stress for an extended amount of time. The Verify Setup – NIC tests are required to be run and pass prior to starting this test. If SUT has a wireless NIC, then the Wireless NIC Test will be displayed in place of the NIC Test.



If the test fails, troubleshoot the NIC setup by reviewing the configuration information in the TestConsole Document to ensure that the hardware is set up correctly. A **"PASS /WARNING"** result may indicate that the SUT NIC speed is not detectable with ethtool. If the SUT NIC speed is not detectable with ethtool then the tests are unable to verify that the network configuration is setup correctly.

5.3.4 Time Sync Test

Test Objective: Verify that the time remains synced between the SUT and the TC. This test does not require any setup.

5.3.5 Optical Read Test

Test Overview: This test is required to be run on all systems. If the SUT does not have any optical devices, the test will return "NOT APPLICABLE". Blu-ray is not supported in SLE, please use a DVD for testing in Blu-ray devices. This test will exercise the read capabilities of all optical devices attached to the SUT. Do not remove any written media created from the Optical Verify/Write Test, it will be used during this Optical read test.

Test Objective: Verifies that the Optical devices function correctly with the other devices in the system.

1. This test is enabled by default and will run with the stress tests. Messages generated during this test will pop up on the TC.

5.3.6 USB Test

Test Overview: The USB device test is always required. If the SUT does not have a USB controller then the test will return the test result of "NOT APPLICABLE". The USB test will detect and test all USB devices which have a mountable partition. This test is intended for exercising 2 USB storage devices connected to the SUT. If the SUT has 2 USB ports then plug a USB device into each port.

When a USB keyboard or a USB mouse is using one of the 2 USB ports then an external USB hub is required to ensure that 2 USB storage devices are tested. A USB Keyboard, or a USB Mouse and USB hard drive can be plugged into the USB hub and the other USB hard drive is plugged into the other USB port. If the SUT has only 1 USB port then only 1 USB storage device must be tested. The volume name on the USB storage device must not have any spaces in the name.

Test Objective: Verifies that USB ports function correctly with other devices in the system.

1. Connect USB storage devices (minimum of 2) to the SUT.
2. If there are USB ports on the front and the back of the SUT, plug one USB storage device into a front USB port one into a back USB port.
3. If prompted to open a new hard disk, click *No*.
4. The USB storage device needs to be partitioned for Linux. To do so open System Partitioner to configure the device. If the USB storage device has already been partitioned using the procedure below, then you do not need to format the device

again. The USB storage device only needs to be partitioned once using the below procedure.

5. At a terminal prompt, type `yast2 disk` <Enter> and click *Yes* at the warning.
6. Double click the new USB storage device (e.g., `sdb` or `sdC`).
7. Remove existing partitions on the USB storage device and click *Delete*.
8. If prompted click *Continue* at the warning screen about unmounting the drive.
9. Click *Yes* to really delete the partition.
10. If prompted click *Continue* to unmount the drive.
11. Create a new partition on the USB storage device and click *Add*.
12. Click the *Primary Partition* radio button then click *Next*.
13. Click *Next*, for the default partition size.
14. Choose `ext3`, then click *Next*.
15. Click *Finish* to format the USB storage device.
16. On SLES 12 click *Next* on the Expert Partitioner screen. Click *Finish* on the next screen.
17. Mount the USB storage device.
18. Unplug the USB storage device, wait 20 seconds and then plug it back in. This should cause it to mount under `/media`. This test is enabled by default and will run with the stress tests.

5.3.7 Error Check Test

Test Objective: Verify that the no errors exist on the SUT.

This test does not require any setup.

5.4 Starting the Stress Tests

Test Objective: Verify that all system devices function correctly together in a high load situation for an extended period of time. All tests in the *Stress Tests* folder must be started within 1 hour of the first *Stress Test* which is started, or the *Verify Stress Tests* will fail. If all *Stress Tests* are not started within 1 hour of each other, then all *Stress Tests* should be canceled. After the *Stress Tests* are canceled and no longer listed in the testing run queue window, the 12 hour *Stress Tests* should be completely restarted. All *Stress Tests* must run for a minimum of 11 hours together, or 3 hours together during the reduced testing project.

1. Double-click the *Stress Tests* folder.
2. Click "Continue" at the "Verify run" pop-up window. This will start all of the stress tests.
3. Wait 15 minutes and check if any of the tests have failed.
4. If any tests have failed within the first hour:
 - a. Correct the problem (see "Troubleshooting and Help Documentation").
 - b. Restart the failing test within the first hour by double clicking on the failed test.



5.5 Verify Stress Tests

Test Overview: This test is required for all systems. This test will ensure that all stress tests were run as expected and according to the testing policy.

After the Stress Tests have completed double-click the *Verify Stress Test* to begin this test.

6 Post Testing

6.1 Evaluating the Results of the Stress Tests

1. After all the tests have completed, check to see if any tests have failed.
2. If a test has failed, check the test configuration setup then return to the Section entitled, "Starting the Stress Tests". All tests must be run in parallel as defined in the section entitled, "Stress Tests".

6.2 Post-Testing Cleanup

1. If USB storage devices were used during testing, then safely remove them from the SUT.
2. If CD/DVD media was used during testing, then safely remove it from the SUT.
3. If a floppy diskette was used during testing then remove it from the SUT.
4. If FireWire storage devices were used during the testing, then safely remove them from the SUT.

6.3 Get Test Logs Test

Test Overview: This test is required for all systems. This test will gather all test logs in preparation for the creation of the test results submission file.

1. Double-click *Get Test Logs* in the TestConsole project for the SUT. This test can take time to complete. We have seen systems with 5 TB of RAM take 2 hours to complete this test.

Note: Do not run the *Get Test Logs Test* until all testing is completed.

2. If prompted answer the on screen questions.
3. Continue to section 5.4 "Creating the Bulletin Submission File".

6.4 Creating the Bulletin Submission File

Overview: We refer to the test results .zip file as the bulletin submission file. The bulletin submission file is used to create the Yes Certification Bulletin in the SUSE Bulletin System (SBS). The steps in this section will create the bulletin submission (.zip) file which you will read into SBS to create the Yes Certification Bulletin.

1. Open the project file. If the project file is already opened, skip to step 2.

Note: If the project file is already open and you have just completed the tests, save the project before creating the bulletin submission (.zip) file.

2. Click the *TestConsole* icon on the desktop
3. Click *Project > Open Test Project > Existing*.
4. Select the appropriate project and click *Select* to open the project.
5. Create the bulletin submission (.zip) file.
6. Click *Edit Product/Report*.
7. Click *Report*.

Note: If the *Report Error* window appears, continue to step 3. If not, proceed to step 4.

8. Report errors.
9. Click on the x in the upper right corner of the *Report Error* window to close the window.
10. Click *Verify*.
11. Click an exception in the scroll window.
12. Click *Edit Explanation*.
13. Enter the explanation.
14. Click *OK* in the explain exception window.
15. Repeat steps c through f until all unresolved exceptions are explained.
16. Click *OK* in the *Exception Information* window.
17. Click *Report*. If the screen appears stuck then click on the terminal screen at the bottom then click inside the screen.
18. Complete the creation of bulletin submission (.zip) file. We recommend keeping the existing project filename, however another filename can be used.

Note: Do not put spaces in the file name.

19. Click *Save* to generate the bulletin submission (.zip) file.
20. Click *Finish* or *View Report Summary* to view the reported information in a browser.
21. If a browser window is open to view the *Report Summary* then close it.
22. Click *OK* to exit the *Product and Report Information* window.
23. Copy the bulletin submission (.zip) file from the `/opt/suse/testKits/system/results` directory to a USB Flash drive or CD or Network. For example: if copying the bulletin submission (.zip) file to a USB thumb drive, at a terminal prompt on TC type: `cp <bulletin submission (.zip) file> /media/usb<Tab> <Enter>`.
24. Continue to section 5.5 "Submitting the Bulletin Submission File into SBS".

6.5 Submitting the Bulletin Submission File into SBS

We use a database called the SUSE Bulletin System (SBS) to generate and manage the SUSE Yes Certification Bulletins. The Steps below will help you to read the bulletin submission .zip file into SBS and begin the bulletin creation process.

1. Open a web browser the SUSE Bulletin System (SBS). The URL is:
<https://www.suse.com/nbswebapp/yesCert.jsp>
2. Login into SBS.
3. Read the bulletin submission file (.zip) into SBS.
 - a. Click on **New Submission**, then browse to your bulletin submission file (.zip).
 - b. Click **Upload**.
4. The bulletin is now in the SBS system. There is still work to do on the bulletin submission while in SBS.
 - a. In the SBS User Guide read through the Overview part of the of the bulletin States section.
 - b. Afterward go to section F.2 of the SBS User Guide for the instructions to move the bulletin from Open State to Review for processing.
 - c. If you cannot access SBS, then contact your SUSE Partner Engineering contact for SBS access.



7 System Test Kit Revision History

Date	Description
June 2024	Updated for SLE15 SP6. Added SLEPOS Lifecycle Info.
July 2022	Updated page layout to 8.5x11 Letter
April 2022	Updated in preparation for SLE 15 SP4 and SCK 8.7 Placed into new template
June 2021	Updated in preparation for SLE 15 SP3 and SCK 8.6 Added steps to run kdump on the network
June 2020	Added wireless-tools install
May 2020	Updated for SLE 15 SP2
January 2020	Updated copyright
October 2019	Updated NIC Verify. Added NIC Setup and WE Install.
February 2019	Updated in preparation for 8.3 SCK
November 2018	Additional updates during beta and RC test cycles.
September 2018	Updated in preparation for SLES 12 SP4 and the 8.2 SCK.
July 2018	First release of this document.