



SMART Notebook™ 10

Installation and Administration Guide

Linux® Operating Systems

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Product Key: _____

Date of Purchase: _____

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Chapter 1

Installing SMART Notebook 10 for Linux

System requirements

- Pentium® III 750 MHz processor
- 512 MB of RAM (1 GB recommended)
- 350 MB of free hard disk space for minimum installation
- Linux kernel 2.6 or later
 - 2.6.11 or later to use a SMART Podium™ DT770 interactive pen display
 - 2.6.26 or later to use a SMART Board™ V280 interactive whiteboard
 - 2.6.32 or later to use a SMART Board 480 interactive whiteboard
- X Window System™ 11 release 6 (X11R6) or later that supports XRender and Xinerama™
- glibc 2.3.3 (gcc 3.4.2)
- libstdc++6
- GNOME™ 2.8.0 or KDE® 3.5 or 4.1 libraries or later (recommended)

Linux distributions tested

- Red Hat® Enterprise Linux 6.0
- openSUSE® 11.3
- Ubuntu® 10.4 LTS

NOTE

64-bit Linux distributions aren't supported.

If your computer doesn't meet these requirements, you might need to install an earlier version of SMART Notebook collaborative learning software. Visit smarttech.com/support for details.

Installation packages

You can install SMART Notebook 10 software for Linux operating systems using one of the following:

- Autopackage
- Debian packages
- RPM™ packages

Autopackage

The SMART Notebook 10 software installer uses the Autopackage system. You need your root password to install SMART Notebook 10 software and the Autopackage system. For more information about Autopackage, go to autopackage.org/howtoinstall.html.

Debian packages

Debian packages containing SMART Notebook software and SMART Product Drivers are available.

Unlike the Autopackage system, which is essentially interactive, Debian packages are designed to allow automated, silent and unattended deployment over the network from a central location to remote target computers. This includes software pre-activation, as well as local/distributed mirroring of Gallery material.

RPM Packages

RPM packages containing SMART Notebook software and SMART Product Drivers are also available.

Like Debian packages, RPM packages are designed to allow automated, silent and unattended deployment over the network from a central location to remote target computers. This includes software pre-activation, as well as local/distributed mirroring of Gallery content.

Chapter 2

Installing SMART Notebook 10 software using Autopackage

Autopackage is a free computer package management system aimed at making it simple to create a package that can be installed on all Linux distributions. Autopackage package files are indicated by the .package file extension.

Installing SMART Notebook software



IMPORTANT

Before you install SMART Notebook 10 software, you must obtain a product key.

Obtaining a product key

To obtain a product key

1. Go to smarttech.com/NB10ProductKey.
2. Type your SMART product's serial number, choose your organization type, and then click **Continue**.
3. Fill out the customer information form.
4. Continue the download and installation procedures while you wait for SMART to e-mail you a product key.

During the installation, use the product key you receive to activate your software.



NOTES

- You can activate every copy of SMART Notebook 10 software using the same product key.
- Until you activate the software, you have only a 30-day trial version.

Downloading SMART Notebook software Autopackages

To download SMART Notebook 10 software

1. Go to smarttech.com/, select **Support**, and then select **Downloads**.
2. In the *SMART Notebook collaborative learning software* area, select **SMART Notebook for Linux** from the drop-down list.
3. In the *Downloads* section, locate the Autopackage software section, and then click **Download**.
4. Fill out the *Download Software* form, and then click **Start Download**.

The *Download Confirmation* page appears, and then the *File Download* dialog box appears.

5. Click **Save**.
6. Browse to where you want to save the file, and then click **Save**.

The *Download Complete* dialog box appears.

7. Click **Close**.

Installing the SMART Notebook software package

To install SMART Notebook 10 software

1. Browse to where you saved the file, and then double-click **SMART Notebook Software With Drivers 10.tar.gz**.

Your file compression program opens.

2. Decompress **SMART Notebook Software With Drivers 10.tar.gz**, and then browse to the decompressed folder.
3. If you have Autopackage installed on your computer, double-click **SMART Notebook Software With Drivers 10.package**, and then follow the on-screen installation instructions.

OR

If you don't have Autopackage installed on your computer, make the .package file executable and run it in terminal. This installs Autopackage and then the software.

i NOTE

For more information on installing software with Autopackage, go to autopackage.org/howtoinstall.html.

CHAPTER 2

Installing SMART Notebook 10 software using Autopackage

When the installation finishes, you can access SMART Notebook 10 software through the *K* menu in the KDE window manager or the *Applications* menu in the GNOME window manager. If it doesn't appear in the *K* or *Applications* menu, the version or distribution of Linux doesn't support menu installation. You can use the command line to start SMART Notebook 10 software by typing **notebook** on terminal, or by browsing to **/opt/SMART Technologies/SMART Notebook/bin**, and then double-clicking **notebook**.

Removing the software

When you installed the software, it was copied into the **/opt/SMART Technologies** folder. Other files are placed in **/etc/xdg**, **/etc/udev/rules.d**, **/usr/share** (such as **doc**, **man/man1**, **icons/hicolor**, **pixmaps/hicolor**, **appIcon**, **mimeIcon/application**), **/usr/local/share/applications** and **\$HOME/.config**.

Most files are removed during the package removal process, but the following files remain:

- global configuration files
 - **/etc/xdg/SMART Technologies/*.conf**
 - **/etc/xdg/SMART Technologies.conf**
- activation data
 - **/opt/SMART Technologies/common/data/.mp.1.1.dat**
 - **/opt/SMART Technologies/common/data/.vp.1.1.dat**
- MIME XML files wherever they're installed
- files created in the current user's home under **\$HOME/.config**

CHAPTER 2

Installing SMART Notebook 10 software using Autopackage

Chapter 3

Installing SMART Notebook 10 software from Debian packages

Introduction



IMPORTANT

Before you install SMART Notebook 10 software, you must obtain a product key. See *Obtaining a product key* on page 3.

Downloading SMART Notebook Debian software packages

To download SMART Notebook 10 software

1. Go to smarttech.com/, select **Support**, and then select **Downloads**.
2. In the *SMART Notebook collaborative learning software* area, select **SMART Notebook for Linux** from the drop-down list.
3. In the *Downloads* section, locate the Debian software section, and then click **Download**.
4. Fill out the *Download Software* form, and then click **Start Download**.

The *Download Confirmation* page appears, and then the *File Download* dialog box appears.

5. Click **Save**.
6. Browse to where you want to save the file, and then click **Save**.

The *Download Complete* dialog box appears.

7. Click **Close**.
8. Browse to where you saved the file, and then double-click **SMART_software_deb_files.tar.gz**.

Your file compression program opens.

9. Decompress **SMART_software_deb_files.tar.gz**, and then browse to the decompressed folder.

About the Debian archive

The **SMART_software_deb_files.tar.gz** archive contains Debian installation packages for SMART Notebook software and SMART Product Drivers, as well as a customization template file.

To prepare the packages for use, you must perform the following steps:

- Verify the integrity of the files you received.
- Obtain a product key. See *Obtaining a product key* on page 3.
- Select a master signing key to sign the relevant data with the GNU Privacy Guard (GPG).
- Edit the customization template file to include your product key and your GPG key ID, to select the content galleries you wish, etc.
- Execute the automated procedure that merges the customization information into the packages.



IMPORTANT

To activate your software for a silent remote deployment and to customize the installation, you must edit the customization file named **customization** before you install the software.

The installation data can be shipped in two forms: package set or Debian archive.

Before you start

Ensure that the packages `dpkg`, `dpkg-dev`, `dpkg-deb` and `binutils` are installed. You also need GPG, `md5sum`, `sha1sum`, `sha256sum` and utilities like `sed`, `cut` and `tr`.

Installing a package set

SMART provides an archive named **SMART_software_deb_files.tar.gz** containing the following:

- eight Debian package files
 - `smart-common_<version>_i386.deb`
 - `smart-hwr_<version>_i386.deb`
 - `smart-languagesetup_<version>_i386.deb`
 - `smart-activation_<version>_i386.deb`
 - `smart-gallerysetup_<version>_i386.deb`
 - `smart-notebook_<version>_i386.deb`
 - `smart-product-drivers_<version>_i386.deb`
 - `nwfermi-<version>_i386.deb` (for SMART Board 480 interactive whiteboards only)
- eight corresponding integrity information files
 - `smart-common_i386_sha256sum.asc`
 - `smart-hwr_i386_sha256sum.asc`

CHAPTER 3

Installing SMART Notebook 10 software from Debian packages

- smart-languagesetup_i386_sha256sum.asc
- smart-activation_i386_sha256sum.asc
- smart-gallerysetup_i386_sha256sum.asc
- smart-notebook_i386_sha256sum.asc
- smart-product-drivers_i386_sha256sum.asc
- nwfermi_i386_sha256sum.asc
- the **swbuild.asc** file containing the public key to use for checking the signature
 - the key ID is 7DD63D3B
 - the fingerprint is 2907 DB4C CC5D 44D8 3694 5F8A BB8D 4237 7DD6 3D3B
- a **validate.sh** script
- a **customization** file
- a **customize.sh** script

To verify the integrity of the packages, keeping all the files in the current working directory

1. Import the key from **swbuild.asc** to GPG, and then find the fingerprint.
2. Confirm the fingerprint with SMART or your authorized SMART reseller.
3. Sign the key with your own ultimately trusted key.
4. Execute the command **./validate.sh files**.

You can check the on-screen output to verify the integrity of the package files.

Editing the customization file

After you verify the packages, you can edit the customization file. The file contains script variables, which are explained by the comments that precede them. To perform a remote silent mass deployment, you must insert the product key you received from SMART. You can also select the gallery components you want to make available.

After you modify the customization file, execute **./customize.sh files**. This modifies all the DEB package files by inserting the contents of the customization file into the maintainer scripts of each package. The ASC integrity files are remade and signed with the key you specified on the SMART_ARCHIVE_KEY line in the customization file. If you don't define the key in SMART_ARCHIVE_KEY, the current user's default key is used for signing.

After you customize all the packages, you can install them with `dpkg -i`, or you can insert them into your particular deployment system.

Installing a Debian archive

The archive named **SMART_software_deb_repo.tar.gz** contains the following:

- the linear directory tree **dists -> stable -> non-free -> binary-i386**, where the last directory (binary-i386) contains eight Debian package files
 - smart-common_<version>_i386.deb
 - smart-hwr_<version>_i386.deb
 - smart-languagesetup_<version>_i386.deb
 - smart-activation_<version>_i386.deb
 - smart-gallerysetup_<version>_i386.deb
 - smart-notebook_<version>_i386.deb
 - smart-product-drivers_<version>_i386.deb
 - nwfermi-<version>_i386.deb (for SMART Board 480 interactive whiteboards only)

NOTES

- The **stable** and **binary-i386** directories contain Debian archive metadata.
- The customization script provided reconstructs part of this metadata after modifying the packages themselves.
- the **swbuild.asc** file containing the public key to use for checking the signature. You should also be able to import this key directly from the key servers. Our key ID is 7DD63D3B and the fingerprint is 2907 DB4C CC5D 44D8 3694 5F8A BB8D 4237 7DD6 3D3B.
- a **validate.sh** script
- a **customization** file
- a **customize.sh** script

Verifying the integrity of the packages

Verify the integrity of the packages, keeping all these files in the current working directory.

To verify the integrity of the packages directory

1. Import the key from **swbuild.asc** to GPG, and then find the fingerprint.
2. Confirm the fingerprint with SMART or your authorized SMART reseller.
3. Sign the key with your own ultimately trusted key.
4. Execute the command **./validate.sh archive** to verify the integrity of the package files you have received, and then check the output.

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Installing SMART Notebook 10 software from Debian packages

Following the validation process

If you want to follow the validation process, you can use the command `bash -x validate.sh archive`. The following is an overview of that process.

To follow the validation process

1. `cd` to **dist**s/**stable**.

2. Check the **Release** file with this command:

```
gpg --verify Release.gpg Release
```

3. Check the **Packages** metadata files under **binary-i386** with these commands:

```
cat Release|tr -s ' ' |cut -d' ' --fields=2,4 |sed 's% % %' > t
sha256sum -c t
```

This checks the **non-free/binary-i386/Packages.*** files

4. `cd` to **non-free/binary-i386**.

5. Check the actual package files using the **Packages** file with these commands:

```
grep MD5sum Packages > a
dpkg-scanpackages . ../../smart.override |grep MD5sum > b
diff a b
```

If the files are the same, the last command doesn't produce an output. If a line is different, then that line identifies a corrupt package file. In the **Packages** file, find the line that begins with MD5sum, and two lines above it, the line that begins with *Filename* identifies the corrupt package file. The script displays the names of packages discovered in this way.

Editing the customization file

After you verify the packages, you can edit the customization file placed outside **dist**s. The file contains script variables, which are explained by the comments that precede them. To perform a remote silent mass deployment, you must insert the product key you received from SMART. You can also select the Gallery components you want to make available. You need your own archive key ID to re-sign the main **Release** file, and you should assign it to SMART_ARCHIVE_KEY.

After you modify the customization file, execute **./customize.sh**. This modifies all the DEB package files by inserting the contents of the customization file into the maintainer scripts of each package. Then it rebuilds the archive metadata, recomputes the integrity checksums and signs the main **Release** file.

Sign the new **Release** file with your own archive key by editing the SMART_ARCHIVE_KEY line in the customization file with your key ID. If you don't define the key in SMART_ARCHIVE_KEY, the current user's default key is used for signing.

Installing the archive

After you customize the packages and rebuild the Debian archive, you can copy all of the files into the document tree of your web server. Before you can install the packages with `apt-get install`, you must copy the customized packages to each target computer.

To copy the customized packages to each computer

1. Add this one-line source file under `/etc/apt/sources.list.d/` to identify the archive.

```
deb http://webservername/myfolder/ stable non-free
```

where `myfolder` stands for the directory into which you have copied `dists` in the document tree of the web server.

OR

If you aren't using a web server, use the `file:` protocol:

```
deb file:/home/swbuild/myfolder/ stable non-free
```

2. Execute **apt-get update**.



NOTE

In Synaptic, go to **Settings/Repositories**, select the **Third Party Software** tab, click **Add**, type **apt-get update**, and then click the **Reload** button on the toolbar. This adds a new source line at the end of `/etc/apt/sources.list`.

Customizing the installation

For the procedures in this section, assume the following:

- Your website is **http://myweb.company.com**.
- The document root of your server is **/var/www**.
- The Gallery data will be in **/var/www/efe**, accessed as **http://myweb.company.com/efe**.

When you customize the installation, you can do the following:

- Provide the SMART Notebook software product key for automatic activation.
- Install SMART Notebook software, SMART Product Drivers or both.
- Disable the automatic start of SMART Board Service and SMART Board Tools.
- Customize the installation of Gallery Essentials, including the following:
 - selecting individual categories
 - installing the Gallery from previously downloaded source
 - installing the Gallery in a customized location
 - registering a previously installed Gallery, such as a Gallery on a shared network
 - registering Team Content
 - selecting a source URL for downloading Gallery content, so that you can set up Gallery content on your own web server as a download source.

Setting up your web server for Gallery downloads

After setup, you can download Gallery content.

To set up your web server

1. Make a **/var/www/efe** directory to receive the content.
2. Install the packages in the default location with their default Gallery source URL (currently **http://downloads01.smarttech.com/software/efe/**).

3. Download the data to its intended location with these commands:

```
/opt/SMART Technologies/Gallery Setup/bin/GallerySetup \
--downloadall \
--destination /var/www/efe \
--configuration /opt/SMART Technologies/Gallery Setup/share/
SMARTEssentials.gallerycollection
```

4. When this is done, use a browser to check your web server and check that you see a long list of files ending in **.gallery** or in **.zip**.

Customizing the packages

To use your new download source you must customize the packages.

To customize the packages

1. In the customization file, edit the following line, making sure it isn't commented.

```
export CONTENT_LOCAL_URL=http://myweb.company.com/efe
```
2. Add your other customizations.
3. Execute **customize.sh**.
4. Install the customized packages.

Messages like the following one indicate that your web server connection is checked:

```
Checking connection to: http://myweb.company.com/efe  
Check succeeded
```

The selected Gallery components are downloaded and installed.

NOTE

To revert to the original download source that came built into the software, comment out the `CONTENT_LOCAL_URL` line, and then execute **customize.sh** again.

Dependencies

The two main packages are **smart-notebook** and **smart-product-drivers**; the other five are their dependencies.

Main package	Dependencies
smart-notebook_<version>.i686.deb	• smart-common • smart-hwr • smart-languagesetup • smart-activation • smart-gallerysetup
smart-product-drivers_<version>.i686.deb	• smart-common • smart-hwr • smart-languagesetup

Installation

To install package sets, use a **dpkg --install** command.

For example:

```
dpkg --install smart-common_10.2.286.0-1_i386.deb
```

To install archives accessed over a network, use an **apt-get install** command.

For example:

```
apt-get install smart-common
```

NOTES

- After you make changes to the online archive, run `apt-get update` on the target computers.
- Using an `apt-get` command installs dependencies. For example, if you run

```
apt-get install smart-product-drivers smart-notebook
```

you install all eight packages.

Environment variables

You can set the following environment variables to follow the installation progress (they're intended for use with `dpkg`).

Variable	Use
Logging	Set <code>DEB_MAINTAINER_LOG</code> to a value, and <code>DEB_MAINTAINER_LOGPATH</code> to the desired path. The maintainer scripts in the packages then log the installation and removal events to a file named smart_debian_install.log under the specified path.
Tracing	Set <code>DEB_DEBUG_SCRIPTS</code> to a value before installing or removing the software. The package scripts execute with <code>set -x</code> with the usual screen output.
Bypassing package scripts	If the scripts fail so severely that they prevent you from completely installing or removing the software, you can bypass them while purging. For example, you can remove the package in this way: <pre>env DEB_MAINTAINER_NOSCRIPTS=1 dpkg --purge smart-common</pre>

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Installing SMART Notebook 10 software from Debian packages

Removing the software

When you installed the software, it was copied into the **/opt/SMART Technologies** folder. Other files are placed in **/etc/xdg**, **/etc/udev/rules.d**, **/usr/share** (such as **doc**, **man/man1**, **icons/hicolor**, **pixmap/hicolor**, **appIcon**, **mimeType/application**), **/usr/local/share/applications** and **\$HOME/.config**.

Most files are removed during the package removal process, but the following files remain:

- global configuration files
 - **/etc/xdg/SMART Technologies/*.conf**
 - **/etc/xdg/SMART Technologies.conf**
- activation data
 - **/opt/SMART Technologies/common/data/.mp.1.1.dat**
 - **/opt/SMART Technologies/common/data/.vp.1.1.dat**
- MIME XML files wherever they're installed
- files created in the current user's home under **\$HOME/.config**

Chapter 4

Installing SMART Notebook 10 software from RPM packages

Introduction

This is the SMART Notebook software and SMART Product Drivers software shipped as RPM package files.



IMPORTANT

Before you install SMART Notebook 10 software, you must obtain a product key. See *Obtaining a product key* on page 3.

Downloading SMART Notebook software RPM packages

To download SMART Notebook 10 software

1. Go to smarttech.com/, select **Support**, and then select **Downloads**.
2. In the *SMART Notebook collaborative learning software* area, select **SMART Notebook for Linux** from the drop-down list.
3. In the *Downloads* section, locate the RPM software section, and then click **Download**.
4. Fill out the *Download Software* form, and then click **Start Download**.

The *Download Confirmation* page appears, and then the *File Download* dialog box appears.

5. Click **Save**.
6. Browse to where you want to save the file, and then click **Save**.

The *Download Complete* dialog box appears.

7. Click **Close**.
8. Browse to where you saved the file, and then double-click **SMART_software_rpm_files.tar.gz**.

Your file compression program opens.

9. Decompress **SMART_software_rpm_files.tar.gz**, and then browse to the decompressed folder.

Before you start

On some platforms you must install perl-Mail-Sendmail, providing perl(Mail::Sendmail).

You also need

- rpmbuild (in package rpm or in rpm-build)
- rpm2cpio (probably in rpm)
- cpio
- expect

If you want to put the packages in a web repository, you also need the Python script **createrepo**.

You need to have GPG configured, with a secret key generated and set as the default-key in **~/.gnupg/gpg.conf**.

You must import the public key to RPM to check the released packages.

- To import the key, execute as root:

```
rpm --import swbuild.asc
```

- To check a package file, execute:

```
rpm --checksig smart-whatever.i686.rpm
```

NOTE

The output line must end in `gpg OK`.

You must import the public key to GPG and sign it to use a zypper repository.

- To import it, use:

```
gpg --import swbuild.asc
```

- To sign it, use:

```
gpg --sign-key 7DD63D3B
```

NOTE

The SMART key will be signed with your default key.

You must place the public key in **/etc/pki/rpm-gpg** to use a yum repository.

You need a file named **~/.rpmmacros**, which must include the following:

```
%_topdir <some topdir>

%_signature gpg

%_gpg_path /home/<accountname>/.gnupg

%_gpg_name <key id>
```

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Installing SMART Notebook 10 software from RPM packages

Where:

- <accountname> is the user name you use to run the customization. You don't need to be root to customize.
- <some topdir> is a directory to where your account can write, or to one that you'll make. Use an absolute path. The customize script will parse the .rpmmacros file and extract that path. That is where the new package files will be built before being moved back to the cwd.
- <key id> is the description string of the key you will use to sign the customized packages, as displayed by `gpg --list-secret-keys`.

Examples:

```
%_topdir /home/swbuild/rpmbuild
%_signature gpg
%_gpg_path /home/swbuild/.gnupg
%_gpg_name SMART Technologies (Build and Install Group)
```

About installing the package

The archive contains RPM installation packages for SMART Notebook software and SMART Product Drivers, as well as a customization template file.

To prepare the packages for use, you must perform the following steps, which are explained in detail below:

- Provide the prerequisites detailed above.
- Verify the integrity of the files you received.
- Obtain a product key, either online from SMART or from your authorized SMART reseller. See *Obtaining a product key* on page 3.
- Select a master signing key to use for signing the relevant data with GPG (the above steps can happen in any order).
- Edit the customization template file to insert your product key, to select the content galleries you want, etc.
- Execute the automated procedure that merges the customization information into the packages.
- Optionally, place the customized packages in a web repository and configure client machines.

About customization



IMPORTANT

In order to activate your software for a silent unattended network deployment and to customize the installation, you must edit the customization file named **customization** before you install the software.

The installation data is shipped as a package set, which includes instructions for making a web repository accessible with yum or zypper and for configuring client computers.

Before you start

Ensure that the packages RPM, cpio, expect and createrepo are installed. You also need GPG and utilities like sed, cut and tr.

Installing a package set

SMART provides an archive named **SMART_software_rpm_files.tar.gz** containing the following:

- eight RPM package files
 - smart-common_<version>.i686.rpm
 - smart-hwr_<version>.i686.rpm
 - smart-languagesetup_<version>.i686.rpm
 - smart-activation_<version>.i686.rpm
 - smart-gallerysetup_<version>.i686.rpm
 - smart-notebook_<version>.i686.rpm
 - smart-product-drivers_<version>.i686.rpm
 - nwfermi-<version>-i386.rpm (for SMART Board 480 interactive whiteboards, only)
- the **swbuild.asc** file containing the public key as the archive signing key
 - the key ID is 7DD63D3B
 - the fingerprint is 2907 DB4C CC5D 44D8 3694 5F8A BB8D 4237 7DD6 3D3B
- a customization file named **customization**
- a script named **customize.sh**

Verifying the integrity of the packages

Verify the integrity of the packages, keeping all of the files in the current working directory.

To verify the integrity of the packages

1. Import the key from **swbuild.asc** to GPG, and then find the fingerprint.
2. Confirm the fingerprint with SMART or your authorized SMART reseller.
3. Sign the key with your own ultimately trusted key.
4. Import the key to rpm with **rpm --import swbuild.asc**.
5. Execute the command **rpm --checksig <package>** for every package file, where <package> denotes the package file.

The output for each command should end in `gpg OK`.

After you verify the packages, you can edit the customization file. The file contains script variables, which are explained by the comments that precede them. To perform a remote silent mass deployment, you must insert the product key you received from SMART. You can also select which gallery components you want to make available

After you modify the customization file, execute `./customize.sh`, which modifies all the RPM package files by inserting the contents of the customization file into the maintainer scripts of each package. At this point, the RPM package files are remade and signed with the key specified in **.rpmmacros**.

After you customize all the packages, you can install them with `rpm -i`, or you can insert them into your particular deployment framework.

Customizing the installation

For the procedures in this section, assume the following:

- Your website is **http://myweb.company.com**
- The document root of your server is **/var/www**
- The Gallery data will be in **/var/www/efe**, accessed as **http://myweb.company.com/efe**.

When you customize the installation, you can do the following:

- Provide the SMART Notebook software product key for automatic activation.
- Install SMART Notebook software, SMART Product Drivers or both.
- Disable the automatic start of SMART Board Service and SMART Board Tools.
- Customize the installation of Gallery Essentials, including the following:
 - selecting individual categories
 - installing the Gallery from previously downloaded source
 - installing the Gallery in a customized location
 - registering a previously installed Gallery, such as a Gallery on a shared network
 - registering Team Content
 - selecting a source URL for downloading Gallery content, so that you can set up Gallery content on your own web server as a download source

Setting up your server for Gallery downloads

After setup, you can download Gallery content.

To set up your web server

1. Install the packages in the default location with their default gallery source URL (which is currently **http://downloads01.smarttech.com/software/efe/**).
2. Download the data to its intended location with these commands:

```
"/opt/SMART Technologies/Gallery Setup/bin/GallerySetup" \
--downloadall \
--destination      /var/www/efe \
--configuration    "/opt/SMART Technologies/Gallery Setup/share/
SMARTEssentials.gallerycollection"
```
3. When this is done, use a browser to check your web server and verify that you see a long list of files ending in **.gallery** or in **.zip**.

Customizing the packages

To use your new download source you must customize the packages.

To use your new download source

1. In the customization file, edit the following line, making sure it isn't commented.

```
export CONTENT_LOCAL_URL=http://myweb.company.com/efe
```

2. Add your other customizations.
3. Execute **customize.sh**.
4. Install the customized packages.

Messages like the following one indicate that your web server connection is checked:

```
Checking connection to: http://myweb.company.com/efe
Check succeeded
```

The selected Gallery components are downloaded and installed.

NOTE

To revert to the original download source that came built into the software, comment out the CONTENT_LOCAL_URL line, and then execute **customize.sh** again.

Dependencies

The two main packages are smart-product-drivers and smart-notebook; the other five are their dependencies.

Main package	Dependencies
smart-notebook_<version>.i686.rpm	– smart-common – smart-hwr – smart-languagesetup – smart-activation – smart-gallerysetup
smart-product-drivers_<version>.i686.rpm	– smart-common – smart-hwr – smart-languagesetup

Installation

To install package sets, use `rpm -i`.

Example:

```
rpm -i smart-common_10.2.286.0-1.i686.rpm
```

To install repositories accessed over a network, use `yum install`, or `zypper install`.

Examples:

```
yum localinstall smart-common_10.2.286.0-1.i686.rpm
```

```
zypper install smart-common_10.2.286.0-1.i686.rpm
```

NOTES

- After you make changes to the online archive, run `yum update`, or `zypper refresh` on the target computers.
- Running `yum` and `zypper` installs dependencies. For example, if you run

```
yum install smart-product-drivers smart-notebook
```

you install all eight packages.

Environment variables

You can set the following environment variables to follow the installation progress (they are intended for use with RPM).

Variable	Use
Logging	Set <code>RPM_MAINTAINER_LOG</code> to a value, and <code>RPM_MAINTAINER_LOGPATH</code> to the desired path. The maintainer scripts in the packages then log the installation and removal events to a file named smart_rpm_install.log in the specified path.
Tracing	Set <code>RPM_DEBUG_SCRIPTS</code> to a value before installing or removing the software. The package scripts execute with <code>set -x</code> with the usual screen output.

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Installing SMART Notebook 10 software from RPM packages

Variable	Use
Bypassing package scripts	If the scripts fail so severely that they prevent you from completely installing or removing the software, you can bypass them while purging. For example, you can remove the package in this way: <pre>env RPM_MAINTAINER_NOSCRIPTS=1 rpm --nodeps -e smart-common</pre>
	 NOTE You shouldn't need to do this, because you can use the RPM --noscripts flag.

Web repositories

Rather than installing packages locally with RPM commands, you can keep the same packages on a web server and install them using a client tool such as yum or up2date (Red Hat), or zypper or YaST (openSUSE).

Making a repository

To make a repository

1. Create a directory to contain your repository and place all the package files in it.
2. `cd` to the directory, and then execute **createrepo**.
A subdirectory named **repodata** appears.
3. `cd` to **repodata** and check that the files **filelists.xml.gz**, **other.xml.gz**, **primary.xml.gz** and **repomd.xml** were created.
4. Sign **repomd.xml** with `gpg --clearsign repomd.xml`.
This creates the file **repomd.xml.asc**.
5. Export the public key paired with the secret you have used for signing (that would be your default key ID specified in **.gnupg/gpg.conf**) using `gpg --armor --export <key-ID>`
> **repomd.xml.key**.

You can copy your repository directory into the document tree of any web server.

Installing packages into the repositories

For the following procedures, assume that the directory is **myrepo**, and that you placed it under **rpm** in a web server named **mywww**. The URL of the repository is now **http://mywww/rpm/myrepo**.

To use yum to install packages from the new repository

1. Create a file named "mysource.repo" looking like this:

```
[SMART Technologies ULC]
name=SMART Technologies Software
baseurl=http://mywww/rpm/myrepo
gpgcheck=1
enabled=1
gpgkey=file:///etc/pki/rpm-gpg/archivekey.asc
```

2. Put the file in the **/etc/yum.repos.d** folder.
3. Export the public key used for signing into the file **/etc/pki/rpm-gpg/archivekey.asc**.
4. Execute yum update.

You should see your new repository being accessed, along with previous ones, while yum updates the cached lists it keeps on the client computer.

5. Execute this command:

```
yum install smart-notebook smart-product-drivers
```

A message appears stating that all eight packages will be installed.

To use zypper to install packages from the new repository

1. Create a file named **mysource.repo** like this:

```
[SMART Technologies U.L.C.]
name=SMART Technologies Software
enabled=1
autorefresh=1
baseurl=http://mywww/rpm/myrepo
path=/
type=rpm-md
keeppackages=0
```

2. Put it in the **/etc/zypp/repos.d** folder.
3. Retrieve the public key used for signing using `wget http://mywww/rpm/myrepo/repodata/repomd.xml.key`.
4. Import it using `gpg --import`, find out its ID using `gpg --list-keys` and then sign it with your default key using `gpg --sign-key <key-ID>`.

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5. Execute `zypper refresh`.

You should see your new repository being accessed, along with previous ones, while zypper updates the cached lists it keeps on the client computer.

6. Execute this command:

```
zypper install smart-notebook smart-product-drivers
```

A message appears stating that all eight packages will be installed.

Removing the software

When you installed the software, it was copied into the **/opt/SMART Technologies** folder. Other files are placed in **/etc/xdg**, **/etc/udev/rules.d**, **/usr/share** (such as **doc**, **man/man1**, **icons/hicolor**, **pixmaps/hicolor**, **appIcon**, **mimeIcon/application**), **/usr/local/share/applications** and **\$HOME/.config**.

Most files are removed during the package removal process, but the following files remain:

- global configuration files
 - `/etc/xdg/SMART Technologies/*.conf`
 - `/etc/xdg/SMART Technologies.conf`
- activation data
 - `/opt/SMART Technologies/common/data/.mp.1.1.dat`
 - `/opt/SMART Technologies/common/data/.vp.1.1.dat`
- MIME XML files wherever they're installed
- files created in the current user's home under **\$HOME/.config**

CHAPTER 4

Installing SMART Notebook 10 software from RPM packages

Appendix A

Customer support

Online information and support

Visit www.smarttech.com/support to view and download user's guides, how-to and troubleshooting articles, software and more.

Training

Visit www.smarttech.com/trainingcenter for training materials and information about our training services.

Technical support

If you experience difficulty with your SMART product, please contact your local reseller before contacting SMART Technical Support. Your local reseller can resolve most issues without delay.

NOTE

To locate your local reseller, visit www.smarttech.com/where.

All SMART products include online, telephone, fax and e-mail support:

Online	www.smarttech.com/contactsupport
Telephone	+1.403.228.5940 or Toll Free 1.866.518.6791 (U.S./Canada) (Monday to Friday, 5 a.m. – 6 p.m. Mountain Time)
Fax	+1.403.806.1256
E-mail	support@smarttech.com

Shipping and repair status

Contact SMART's Return of Merchandise Authorization (RMA) group, Option 4, +1.866.518.6791, for shipping damage, missing part and repair status issues.

General inquiries

Address	SMART Technologies 3636 Research Road NW Calgary, AB T2L 1Y1 CANADA
Switchboard	+1.403.228.5940 or Toll Free 1.866.518.6791 (U.S./Canada)
Fax	+1.403.228.2500
E-mail	info@smarttech.com

Warranty

Product warranty is governed by the terms and conditions of SMART's "Limited Equipment Warranty" that shipped with the SMART product at the time of purchase.

Registration

To help us serve you, register online at www.smarttech.com/registration.



Toll Free 1.866.518.6791 (U.S./Canada)
or +1.403.228.5940
www.smarttech.com