



SMART Sync™ 2011

Mac OS X operating system software

System administrator's guide

Extraordinary made simple™

| **SMART™**

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Installation overview

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<input type="checkbox"/>	Obtain the installation packages.	page 2
<input type="checkbox"/>	Customize the installation packages using SMART Install Manager.	page 3
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Chapter 1

Getting started

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This guide explains how to customize and deploy SMART Sync™ classroom management software.

This guide is intended for IT administrators and others experienced with customizing, deploying and administering software on Mac computers in a networked environment. To use this guide, you must:

- Know how to complete basic administrative tasks in Mac OS X operating system software such as working in Terminal
- Have administrative privileges and access to servers
- Have Internet access

i NOTE

For information on installing SMART Sync software using the installation wizard, see the *SMART Sync 2011 quick start guide*.

Computer and network requirements

Before you install SMART Sync software, ensure your computers meet the minimum requirements defined in this section.

i NOTE

In addition, review the recommended settings for your computers and networks on *Recommended computer and network settings* on page 11.

Teacher and student computers

- Intel® processor
- 512 MB of RAM (1 GB recommended)
- 270 MB of free hard disk space
- Mac OS X 10.5.4 or later operating system software
- 1024 × 768 or higher resolution display with 32-bit (millions) color quality

Network

- 802.11 a/g wireless network (100 Mbps wired network or 802.11 n wireless network recommended)

Installation packages

There are two installation packages (also known as MPKG files) for SMART Sync software:

Installation package	File name
SMART Sync Teacher software	SMART Sync Teacher.mpkg
SMART Sync Student software	SMART Sync Student.mpkg

Download these installation packages from smarttech.com/administratordownloads.

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Customizing installation packages

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SMART Install Manager enables you to customize SMART software installation packages (DMG or MPKG files). Publish your customizations as MPKG files and then deploy the MPKG files to computers in Silent mode.

NOTE

You can deploy modifications in MPKG files only in Silent mode.

Installing SMART Install Manager

Download and install SMART Install Manager from the SMART Support website.

To install SMART Install Manager from the website

1. Go to smarttech.com/administratordownloads.
2. Scroll to *SMART Sync classroom management software*, click **Choose a version**, and then select **SMART Sync 2011 Software for Mac**.
3. Click **Administrator Downloads**, and then click **SMART Install Manager**.
4. Save the **SMART Install Manager.dmg** file to your computer.
5. Double-click the **SMART Install Manager.dmg** file to mount the disk image.

CHAPTER 2

Customizing installation packages

6. Double-click the **SMART Install Manager.mpkg** file.
The SMART Install Manager installation wizard appears.
7. Follow the on-screen instructions.

Using SMART Install Manager

After you install SMART Install Manager, you can start it by opening the Finder, browsing to **/Applications/SMART Technologies**, and then double-clicking **Install Manager**.

With SMART Install Manager, you can do the following:

- Open and customize an installation package.
- Save your changes to the installation package as an XML file.
- Publish your changes to the installation package as a new MPKG file.

Opening an installation package

To customize an installation package, drag its DMG or MPKG file into the SMART Install Manager window.

Alternatively, you can browse for installation packages on your computer by clicking  .

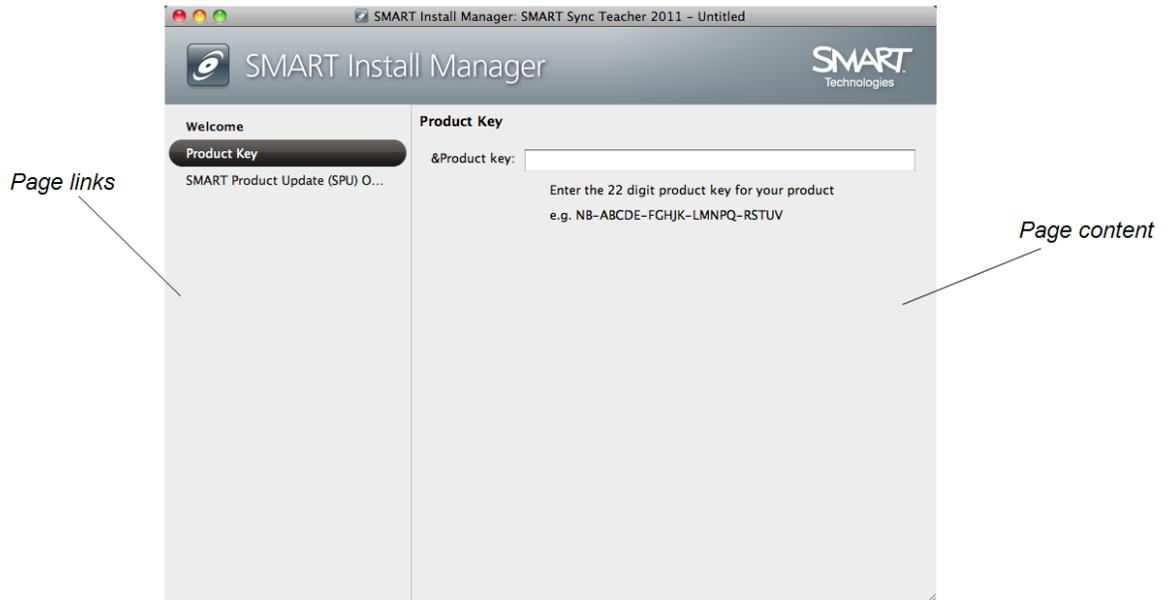
NOTE

All installation packages you've previously opened in SMART Install Manager appear in the *Unmodified Packages* tab.

CHAPTER 2

Customizing installation packages

After you open an installation package, a set of pages for that installation package appears in SMART Install Manager. Customize the installation package using the controls on these pages.



Saving your changes

After you customize an installation package, save your changes as an XML file by selecting **File > Save As**. When you next start SMART Install Manager, load the XML file by selecting **File > Open**, or by opening the MPKG file and then selecting **File > Import**.

i NOTE

All XML files you create or open in SMART Install Manager appear in the *Modified Packages* tab of the *Welcome* page.

Publishing your changes as an MPKG file

The final step in using SMART Install Manager to customize an installation package is to publish your changes as an MPKG file. To do this, select **File > Publish**, and then use the dialog box to define a location for and create the MPKG file.

Customizing the SMART Sync Teacher software installation package

To customize the SMART Sync Teacher software installation package, open the **SMART Sync Teacher.mpkg** file in SMART Install Manager (see *Opening an installation package* on page 4), and then set the controls on each page.

Control	Procedure	Notes
Product Key		
Product key	Type your 22-character product key for SMART Sync software.	You can type the product key with or without hyphens. When you type a volume product key, the software activates when you deploy it to your network computers.
SMART Product Update (SPU) Options		
Install SMART Product Update in Full Mode	Select to install SPU in Full mode.	In Full mode, users can view currently installed versions and product keys, and download and install updates.
Install SMART Product Update in Dashboard Mode	Select to install SPU in Dashboard mode.	In Dashboard mode, users can only view currently installed versions and product keys.
Do not install SMART Product Update	Select to not install SPU.	
Check for updates	Type the number of days (1 to 60) between SPU checks.	This option is available only if you install SPU in Full mode. By default, SPU checks for product updates every 30 days.
Notify users about SMART product updates	Select to notify users of available SMART product updates.	This option is available only if you install SPU in Full mode.

Customizing the SMART Sync Student software installation package

To customize the SMART Sync Student software installation package, open the **SMART Sync Student.mpkg** file in SMART Install Manager (see *Opening an installation package* on page 4), and then set the controls on each page.

Control	Procedure	Notes
Student Configuration Settings: Startup		
Allows the student to select from a list of available teachers	Select to allow the student to select a teacher from a list.	This requires multicasting communication between teacher and student computers.
Automatically connects with this Teacher ID	Select to connect SMART Sync Student software to a specific teacher through the teacher's ID. Type the ID in the box below the option.	This requires multicasting communication between teacher and student computers.
Automatically connects with this host name or IP address	Select to connect SMART Sync Student software to a specific teacher through the host name or IP address. Type the host name or IP address in the box below the option.	This doesn't require multicasting communication between teacher and student computers. If your network uses DHCP, refer to the computer by host name rather than by IP address.
Student Configuration Settings: Options		
Start SMART Sync Student automatically...	Select to start SMART Sync Student software when the student first logs on.	
Submit files	Select to allow the student to submit files.	
Exit the Student program	Select to allow the student to close SMART Sync Student software.	
Student Configuration Settings: Student ID		
Student Controlled	Select to allow the student to enter an ID when SMART Sync Student software starts.	If you select this option, SMART Sync software doesn't apply Internet and application blocking rules until after the student enters an ID and joins the class.

CHAPTER 2

Customizing installation packages

Control	Procedure	Notes
The following	Select to enter a specific student ID. Type the ID in the box below the option.	This option is best if students use the same computer everyday or if you want to give computers names.
Anonymous	Select to allow the student to use SMART Sync Student software without entering an ID.	Select this option if students change computers or if user privacy is required.

Removing SMART Install Manager

You can remove SMART Install Manager from your computer if you no longer need it. You can do this using SMART Uninstaller or Terminal.

■ To remove SMART Install Manager using SMART Uninstaller

1. In the Finder, browse to **/Applications/SMART Technologies**, and then double-click **SMART Uninstaller**.

The *SMART Uninstaller* window appears.

2. Select **Install Manager**, and then click **Remove**.

A dialog box appears, prompting you to confirm the removal.

3. Click **OK**.
4. Type your administrator password, and then click **OK**.

■ To remove SMART Install Manager using Terminal

1. In the Finder, browse to **/Applications/Utilities**, and then double-click **Terminal**.

The *Terminal* window appears.

2. Type the following command:

```
sudo "/Applications/SMART Technologies/  
SMART Uninstaller.app/Contents/Resources/uninstall"  
-i com.smarttech.instllmgr10
```

3. Press RETURN.
4. Type your administrator password, and then press RETURN.

Chapter 3

Deploying the software

There are many methods for deploying software installation packages. The following are two common methods:

- Use Apple Remote Desktop software to manage your software installations.
- Use Terminal to install customized software on each computer.

NOTE

For more information on using Apple Remote Desktop software, refer to the documentation you received with the software.

To deploy SMART software using Apple Remote Desktop software

1. Copy the MPKG file that you created with SMART Install Manager to a server that is accessible to all the computers you want to install the software on.
2. Using Apple Remote Desktop software on the server, select the computers that you want to update.
3. Select **Install Packages**.
A dialog box appears.
4. Drag the MPKG file to the *Packages* box in the dialog box.
5. Click **Install**.
The software installs on the selected computers.

To deploy SMART software using Terminal

1. In the Finder, browse to **/Applications/Utilities**, and then double-click **Terminal**.
The *Terminal* window appears.

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Deploying the software

2. Type the following command:

```
sudo installer -target / -pkg "[Path]/[File name].mpkg"
```

Where

- *[Path]* is the path to the MPKG file.
 - *[File name]* is the name of the MPKG file.
3. Press RETURN.
 4. Type your administrator password, and then press RETURN.

Appendix A

Recommended computer and network settings

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Before you install SMART Sync software, configure your computers and network for optimal performance as documented in this appendix.

Display settings

SMART Sync software works best when the teacher and student computers are set to the same screen resolution. However, the software makes adjustments for different resolutions. For example, if a broadcasting computer (either teacher or student) runs at a higher resolution than a viewing computer, scroll bars appear on the viewing computer so you can view the entire higher-resolution screen.

For information on how to change the display settings of your school's monitors, see the documentation for the operating system.

Refer to the following table for the optimal screen resolution and color depth for your school's monitors.

Color depth/screen resolution	True color (32-bit)
1024 × 768	Optimal
1152 × 864	Acceptable
1280 × 1024	Acceptable
1600 × 1200	Not recommended

APPENDIX A

Recommended computer and network settings

Network size and speed

The preferred TCP/IP network configuration for SMART Sync software is a switch or a switching hub that restricts network traffic to a particular segment of your local area network. In this configuration, other network traffic doesn't affect your system and SMART Sync software doesn't slow down other segments of the network. Network activity is faster when the number of connected students is smaller.

Network type	Maximum number of students
100 Mbps	80
Wireless (single 802.11 a/g access point)	30
Wireless (single 802.11 n access point)	35

TIP

Graphics-rich backgrounds on student screens can slow SMART Sync software performance. Performance is best if student screens have simple, single-color backgrounds.

Internet connection firewalls

If you install SMART Sync software on a computer that has an active Internet connection firewall, the firewall can cause network problems. If possible, set the firewall to allow network traffic from SMART Sync software. If this doesn't resolve the problem, ensure the following network communication ports are open:

Port	Type	Purpose
5463	TCP	Main teacher to student communications port
5496	UDP	Teacher discovery port
5493	UDP	Broadcast port

Appendix B

Configuring SMART Sync Student software

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Run the SMART Sync Student Configuration Tool to configure SMART Sync Student software on a student's computer. The SMART Sync Student Configuration Tool updates the **/Library/Preferences/com.smarttech.smartsync.SyncClient.plist** file on the student's computer, which you can then use to configure SMART Sync Student software on other students' computers without running the tool each time.

Running the SMART Sync Student Configuration Tool

If you want to configure a SMART Sync Student software installation, run the SMART Sync Student Configuration Tool.

IMPORTANT

To run the SMART Sync Student Configuration Tool, you must run the application with elevated permissions. You must provide an administrator ID and password before running the tool.

To run the SMART Sync Student Configuration Tool

1. Open the Finder, browse to **SMART Technologies/SMART Tools**, and then double-click **Sync Student Configuration Tool**.

A dialog box appears.

2. Type your administrator account password in the *Password* box, and then click **OK**.

The SMART Sync Student Configuration Tool appears.

3. Click **Next**.

APPENDIX B

Configuring SMART Sync Student software

- In the *Startup* page, select one of the following options:

Option	Select this option to:
Allows the student to select from a list of available teachers	Allow the student to select a teacher from a drop-down list using teacher discovery.
Automatically connects with this Teacher ID	Connect SMART Sync Student software to a specific teacher through the teacher's ID. Type the ID in the box below the option.
Automatically connects with this hostname or IP address	Connect SMART Sync Student software to a specific teacher computer through the host name or IP address. Type the host name or IP address in the box below the option.

i NOTE

If your network uses DHCP, refer to the computer by host name rather than by IP address.

- Click **Next**.
- In the *Options* page, clear the **Start SMART Sync Student automatically** check box if you don't want SMART Sync Student software to start when the student first logs on.
- Select the check boxes for the options you want to enable, and then click **Next**.

Check box	Select this check box to:
Submit files	Allow the student to submit files through SMART Sync software.
Exit the Student program	Allow the student to close SMART Sync Student software.

- In the *Student ID* page, select one of the following options, and then click **Next**.

Option	Select this option to:
Student Controlled	Allow the student to enter an ID when SMART Sync Student software starts.
The following	Enter a specific student ID. Type the ID in the box to the right of the option.
Anonymous	Allow the student to use SMART Sync Student software without entering an ID.

- Click **Finish**.

Automatically configuring SMART Sync Student software

After you configure SMART Sync Student software on one student computer, copy the **com.smarttech.smartsync.SyncClient.plist** file from the student's computer to a central location on your network. (That file is located in **/Library/Preferences**.) You can then copy the file to other student computers to configure SMART Sync Student Configuration Tool automatically without running the tool each time.



IMPORTANT

Only copy the file to other student computers if you did not specify a student ID in step 8 of the previous procedure. If you specified a teacher in step 4 and a student ID in step 8 and then copied the file to other student computers, all students will connect to the same teacher with the same student ID.

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