SMART Sync™ 2011

Windows® operating systems

System administrator's guide

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Installation overview

Single classroom	School or district	Task	Reference
☐	☐	Ensure your computers and network meet the SMART Sync™ classroom management software minimum requirements.	page 2
☐	☐	Select a type of installation: • Single classroom • School or district wide	page 3
	☐	Install SMART Sync Class List Server.	page 15
	☐	Install SMART Administrator Tools - Classlist Manager.	page 16
	☐	Optionally, export information from third-party applications to CSV files.	page 16
	☐	Create a SMART School (.school) file.	page 20
☐	☐	Install SMART Sync Teacher software on teacher computers and SMART Sync Student software on student computers.	page 6 OR page 29
☐		Optionally, configure SMART Sync Student software.	page 8

LINKS

Please send any feedback on this guide to DocumentationFeedback@smarttech.com.

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Chapter 1
Getting started

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 Windows® software in a networked environment. To use this guide, you must:

- Know IT terminology such as "registry" and "domain controller"

- Know how to complete basic administrative tasks in Windows operating systems such as modifying the registry

- Have administrative privileges and access to servers

- Have Internet access

> ☞ **IMPORTANT**
>
> You must run the commands documented in this guide in an *Administrator Command Prompt* window. To open an *Administrator Command Prompt* window, right-click the **Command Prompt** icon, and then select **Run as Administrator**.

Computer and network requirements

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

> **ℹ N O T E**
>
> In addition, review the recommended settings for your computers and networks on *Recommended computer and network settings* on page 49.

Teacher and system administrator computers

- Pentium® 4 processor

- 256 MB of RAM

- 100 MB of free hard disk space

- Windows XP, Windows Vista® or Windows 7 operating systems

- 800 × 600 or higher resolution display with 16-bit color quality

- Internet Explorer® Internet browser 5.0 or later

- DirectX® technology 7.0a or later

Student computers

- Pentium 4 processor

- 128 MB of RAM

- 55 MB of free hard disk space

- Windows XP, Windows Vista or Windows 7 operating systems

- 600 × 480 or higher resolution display with 16-bit color quality

- Internet Explorer Internet browser 5.0 or later

- DirectX technology 7.0a or later

Network

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

Selecting a type of installation

SMART Sync software consists of four components:

Component	Purpose	Typical location
SMART Sync Teacher software	Enables teachers to connect with students and other teachers	Teacher computers
SMART Sync Student software	Enables students to connect with teachers	Student computers
SMART Sync Class List Server	Connects teacher and student computers	Server accessible to all teacher and student computers
SMART Administrator Tools - Classlist Manager	Enables teachers and system administrators to create and edit SMART School files, which are central repositories of student, teacher, class, computer lab and computer information, and application and Internet blocking rules	Teacher or system administrator computers

> **i** **N O T E**
>
> SMART Sync Class List Server and SMART Administrator Tools - Classlist Manager are optional. You don't need to install them to use the teacher and student components. However, there are benefits to installing them.

Which of these components you install depends on whether you're implementing SMART Sync software in a single classroom or across your school or district.

Single classroom installation

A single classroom installation includes two components: SMART Sync Teacher software and SMART Sync Student software.

- The teacher creates his or her own teacher ID, classes, application blocking rules and Internet blocking rules and manages the class with SMART Sync Teacher software.

- Students connect to the teacher through SMART Sync Student software by selecting the teacher's ID from a drop-down list or by entering the teacher computer host name or IP address.

See *Installing the software in a single classroom* on page 5 for instructions on completing this type of installation.

> ℹ️ **N O T E**
>
> Although this type of installation is preferable if you're installing SMART Sync software in a single classroom, complete the procedures for a school- or district-wide installation if you're considering installing SMART Sync software in other classrooms in the future.

School- or district-wide installation

A school- or district-wide installation includes all four components of SMART Sync software.

Teachers and students connect to each other through SMART Sync Class List Server.

Unlike in single classroom installations, in school- or district-wide installations, teacher IDs, classes, application blocking rules and Internet blocking rules are centrally managed in SMART School files created with SMART Administrator Tools - Classlist Manager. This makes this type of installation ideal for implementing SMART Sync software across your school or district.

See *Installing the software across a school or district* on page 13 for instructions on completing this type of installation.

Chapter 2
Installing the software in a single classroom

In a typical single classroom installation, you install SMART Sync Teacher software on one or more teacher computers and SMART Sync Student software on student computers.
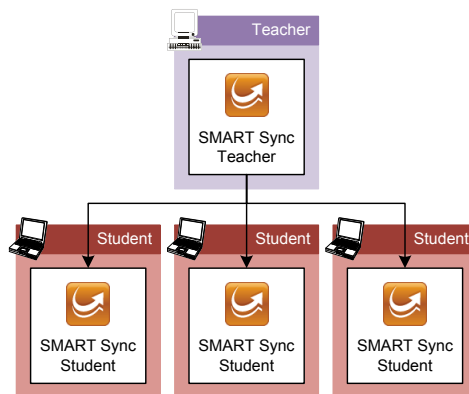
After installation, the teacher creates his or her own class and application and Internet blocking rules in SMART Sync Teacher software. The students connect to the teacher by selecting the teacher's ID from a drop-down list or by entering the teacher computer host name or IP address in SMART Sync Student software. However, you can change the connection option if necessary by configuring SMART Sync Student software.

Installing the software

If you're installing SMART Sync software on a small number of computers or if teachers and students are responsible for installing software on their own computers, use the installation wizards to install the software.

You can start the installation wizards by downloading executable (.exe) files from the SMART Support website.

Installing SMART Sync Teacher software

■ **To install SMART Sync Teacher software**

1. Go to smarttech.com/software.

2. Scroll to *SMART Sync classroom management software*, click **Choose a version**, and then select **SMART Sync 2011 Software for Windows**.

3. Click **Downloads**, click the **Download** button in the teacher software section, and then follow the on-screen instructions to download the SMART Sync Teacher software executable file.

4. Double-click the executable file.

   The SMART Sync Teacher software installation wizard appears.

5. Follow the on-screen instructions.

6. Click **Install**.

   Windows Installer installs SMART Sync Teacher software.

Installing SMART Sync Student software

■ **To install SMART Sync Student software**

1. Go to smarttech.com/software.

2. Scroll to *SMART Sync classroom management software*, click **Choose a version**, and then select **SMART Sync 2011 Software for Windows**.

3. Click **Downloads**, click the **Download** button in the student software section, and then follow the on-screen instructions to download the SMART Sync Student software executable file.

4. Double-click the executable file.

   The SMART Sync Student software installation wizard appears.

5. Follow the on-screen instructions.

6. Click **Install**.

   Windows Installer installs SMART Sync Student software.

Deploying the SMART Sync software installation packages

If you're installing SMART Sync software on a large number of computers, you can deploy the installation packages to the teacher and student computers as documented in *Installing the software across a school or district* on page 13.

Connecting students to teachers

After you install SMART Sync Teacher software on the teacher computer and SMART Sync Student software on student computers, students can connect to the teacher computer through the software.

By default, SMART Sync Student software starts in visible mode when a student first logs on to his or her computer. The student then enters his or her ID and connects to the teacher computer by doing one of the following:

- Selecting the teacher's ID from a drop-down list of teachers currently logged on to SMART Sync Teacher software if multicasting is enabled on your school's network

- Entering the host name or IP address of the teacher computer if multicasting isn't enabled on your school's network

> **TIP**
>
> Teachers can determine the IP address of their computers by selecting **Help > About SMART Sync** in SMART Sync Teacher software.

In some classrooms, students always connect to the same teacher or teacher computer. For these situations, you can configure SMART Sync Student software to connect to a specified teacher ID, host name or IP address rather than require the students to provide this information each time they log on.

For more information, see *Configuring SMART Sync Student software* on the next page.

Configuring SMART Sync Student software

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 local machine registry on the student's computer.

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.

To run the SMART Sync Student Configuration Tool

1. Select **Start > All Programs > SMART Technologies > SMART Tools > SMART Sync Student Configuration Tool 2011**.

   The SMART Sync Student Configuration Tool appears.

2. Click **Next**.

3. In the *Interface* page, select one of the following options, and then click **Next**.

Option	Select this option to:
Visible to students	Show the SMART Sync Student software user interface to the student.
Hidden from students	Hide the SMART Sync Student software user interface from the student.

> **i** **N O T E**
>
> If you select **Hidden from students**, the student won't be able to do the following:
>
> - Connect to a teacher by selecting the teacher's name from a list
>
> - Manually start SMART Sync Student software
>
> - Manually enter an ID after starting SMART Sync Student software
>
> The relevant controls in SMART Sync Student Configuration Tool will be disabled or hidden.

4. 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. **ℹ NOTE** This option is disabled if you clicked **Hidden from student** in step 3.
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.
Automatically connects	Connect SMART Sync Student software to a specific teacher specified in a SMART School file.

5. If you selected **Allows the student to select from a list of available teachers** and want to use SMART Sync Class List Server for teacher discovery, or if you selected **Automatically connects**, select the **Uses this Class List Server host name or IP address** check box.

    Type the host name or IP address of the SMART Sync Class List Server computer in the box below the check box.

    ℹ NOTE

    If your network uses DHCP, refer to the SMART Sync Class List Server computer by host name rather than by IP address.

6. If the computer has multiple network adapters, click **Network Adapter Selection** to specify the order of the network adapters.

7. Click **Next**.

8. 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.

    ℹ NOTE

    This check box is disabled if you selected **Hidden from student** in step 3.

9. Select the check boxes for the options you want to enable, and then click **Next**.

Check box	Select this check box to:
Ask questions	Allow the student to ask questions through SMART Sync software.
Chat	Allow the student to chat with other students through SMART Sync software.
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.

> **i** **N O T E**
>
> These check boxes aren't visible if you clicked **Hidden from student** in step 3.

10. 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.
	> **i** **N O T E**
	> This option is disabled if you selected **Hidden from student** in step 3.
The following	Enter a specific student ID.
	Type the ID in the box to the right of the option.
Found in this Active Directory field…	Find the student ID in an Active Directory® directory service field of the student's login account.
	Type the field name in the box to the right of the option.
Anonymous	Allow the student to use SMART Sync Student software without entering an ID.

11. In the *Shared Files Folder* page, select one of the following options, and then click **Next**.

Option	Select this option to:
My Documents folder	Store files the teacher shares with the student in the **My Documents** folder (Windows XP and Windows 7 operating systems) or the **Documents** folder (Windows Vista operating system).
Custom folder	Store files in another folder.
	Type the path to the folder in the box below the option.

12. In the *Security* page, select one of the following options, and then click **Next**.

Option	Select this option to:
No security	Allow any teacher with SMART Sync Teacher software to connect to the student.
Allow only teachers with this class password	Allow only teachers who enter a specified password in SMART Sync Teacher software to connect to the student.
	Type the password in the two boxes to the right of the option.
Allow only Teachers who are part of the following group(s)	Allow only teachers in certain groups to connect to the student.
	Select the groups in the box below the option.

13. Click **Finish**.

    The *Restart Required to Apply Settings* message appears.

14. Click **OK**.

Automatically configuring SMART Sync Student software

> **⚠ CAUTION**
>
> Use caution when you open the Windows registry editor. If you incorrectly modify the Windows registry, you can damage your computer's operating system. Back up your registry before performing the following procedures.

After you configure SMART Sync Student software on one student computer you can apply the same configuration to other student computers by exporting the **SMART Sync Student** registry key (located in **HKEY_LOCAL_MACHINE\SOFTWARE\SMART Technologies**) to a file, and then importing the file on the other student computers.

The SMART Sync Student Configuration Tool modifies the following registry values in the **SMART Sync Student** registry key:

- Visible
- AutoStart
- ConnectTeacherID
- ConnectIP
- StoreFilesToMyDocs
- CustomSharedFolder
- RedrawHooks
- MirrorDriver
- UnicastNoDelay
- MulticastTTL
- EnableChat
- EnableQuestions
- EnableFileTransfer
- EnableHelp

- DisplayExit
- BroadcastZoomWindow
- CtrlAltDelSettings
- NICListLength
- PasswordHash
- NamingServerLoc
- NamingServerPassedTest
- SecurityUsed
- ConnectionUsed
- StudentIDMode
- StudentID
- ActiveDirStudentIdField
- EnableNICDefaultOrder
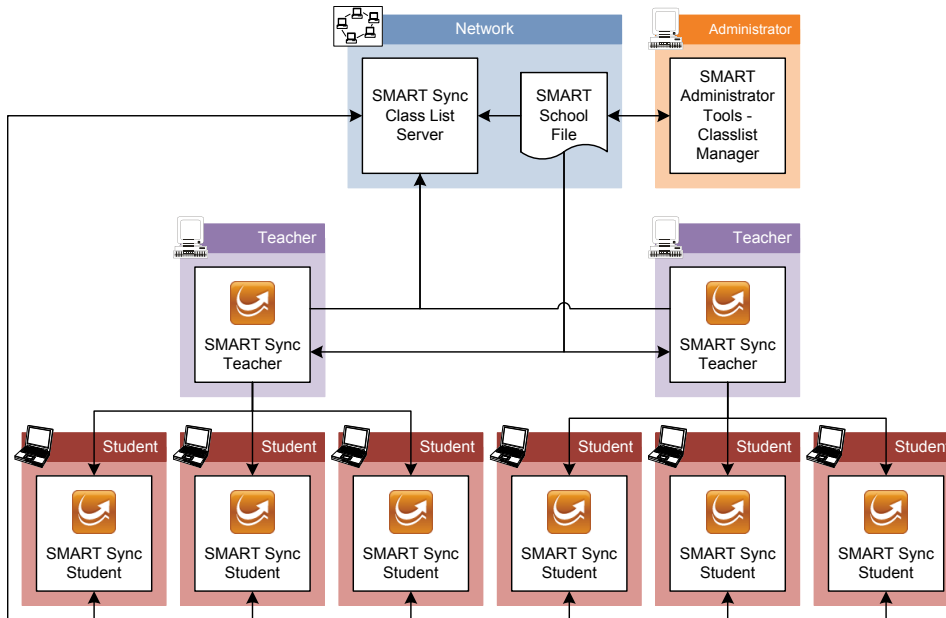- NTGroupListLength

Chapter 3
Installing the software across a school or district

In a typical school- or district-wide installation, you deploy SMART Sync Teacher software to all teacher computers and SMART Sync Student software to all student computers. As a system administrator, you install SMART Sync Class List Server to connect teacher and student computers and create a SMART School file with SMART Administrator Tools - Classlist Manager to centralize teacher, student and class information as well as application and Internet blocking rules.

☞ **I M P O R T A N T**

SMART Administrator Tools - Classlist Manager is beneficial for centrally managing teacher, student and class information across a school or district.

Install SMART Sync Class List Server and SMART Administrator Tools - Classlist Manager and create a SMART School file before you install SMART Sync Teacher software and SMART Sync Student software. This enables you to connect SMART Sync Teacher software to the SMART School file and SMART Sync Student software to SMART Sync Class List Server during installation rather than having to do so manually after installation.

Installing SMART Sync Class List Server

In a typical school- or district-wide installation, you install SMART Sync Class List Server on a server or other computer on your school's or district's network that all teacher and student computers can access.

■ **To install SMART Sync Class List Server**

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 Windows**.

3. Follow the on-screen instructions to download the SMART Sync Administrator Tools executable file.

4. Double-click the executable file, and then follow the on-screen instructions.

5. In the component installation step of the wizard, select the **SMART Sync Class List Server** check box and clear the other check box.

6. Click **Install**.

   Windows Installer installs SMART Sync Class List Server.

Installing and using SMART Administrator Tools - Classlist Manager

SMART Administrator Tools - Classlist Manager allows you to create SMART School files.

A SMART School file contains information about students, teachers, classes and computer labs in your school as well as rules that teachers can apply to block student access to applications and websites. If you specify the location of a SMART School file in SMART Sync Teacher software, teachers can use this information to populate their classes.

In most situations, you only need to create one SMART School file per school so that all teachers and students in the school can connect to each other. For security reasons, when you create the file, save it in a location accessible to teachers and system administrators, but not to students. After creating the file, you can update it.

Installing SMART Administrator Tools - Classlist Manager

In a typical school- or district-wide installation, you install SMART Administrator Tools - Classlist Manager on one or more system administrator computers.

To install SMART Administrator Tools - Classlist Manager

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 Windows**.

3. Follow the on-screen instructions to download the SMART Sync Administrator Tools executable file.

4. Double-click the executable file, and then follow the on-screen instructions.

5. In the component installation step of the wizard, select the **SMART Administrator Tool** check box and clear the other check box.

6. Click **Install**.

   Windows Installer installs SMART Administrator Tools - Classlist Manager.

Using information from third-party applications

If you manage school information using a third-party application, you might be able to export the school information to a comma separated values (CSV) file to use it in your SMART School file.

The information that the CSV file contains depends on how computers are used in your school.

Creating a CSV file for schools with individual computers

If each student has his or her own laptop or assigned computer in a class, create a CSV file that contains student, teacher and class information.

EXAMPLE

```
PersonID,LastName,FirstName,Title,ClassID,ClassTitle,Type
S001,Adams,John,,Eng,English,0
S002,Brook,Sally,,Eng,English,0
S003,Williams,Ronald,,Eng,English,0
T001,Johnson,Adam,Mr.,Eng,English,1
```

> ☞ **IMPORTANT**
>
> If a teacher or student is in multiple classes, the CSV file must contain multiple lines for that teacher or student (one for each class).

■ **To create a student, teacher and class CSV file**

1. Export student, teacher and class information from the third-party application to a CSV file.

    > ℹ **NOTE**
    >
    > See the third-party application's Help for instructions.

2. Open the CSV file using Microsoft® Excel® or another application that can open CSV files.

3. Ensure the CSV file contains the following columns:

Column name	Type	Description
PersonID	String	The student's or teacher's unique ID.
		☞ **IMPORTANT** ○ The ID you enter here must match the ID the student uses to log on to SMART Sync Student software. ○ The ID must be unique to the student or teacher. For example, a student and a teacher can't both have the ID 123456.
LastName	String	The student's or teacher's last name.
FirstName	String	The student's or teacher's first name.
Title	String	The teacher's title (for example, **Mr.**, **Ms.** or **Dr.**).
		i **NOTE** SMART Administrator Tools - Classlist Manager only stores this information for teachers.
ClassID	String	The unique ID of the student's or teacher's class.
ClassTitle	String	The name of the student's or teacher's class. If appropriate, include the class's period to distinguish it from other classes.
Type	Integer	**0** for a student. OR **1** for a teacher.

i **NOTES**

○ The first row of the spreadsheet must contain the column names as listed in the table above.

○ The string columns can contain any character except a comma (,).

4. Save the CSV file.

Creating a CSV file for schools with computer labs

If your school's computers are located in labs, create a CSV file that contains computer lab information.

```
EXAMPLE

Hostname,WorkstationName,LabID,LabTitle
127.0.0.1,Main Lab WS1,Main,Main Lab
127.0.0.2,Main Lab WS2,Main,Main Lab
127.0.0.3,Main Lab WS3,Main,Main Lab
127.0.0.4,Main Lab WS4,Main,Main Lab
127.0.0.5,Main Lab WS5,Main,Main Lab
```

🟩 **To create a computer lab CSV file**

1. Export computer lab information from the third-party application to a CSV file.

   ℹ️ **NOTE**

   See the third-party application's Help for instructions.

2. Open the CSV file using Excel or another application that can open CSV files.

3. Ensure the CSV file contains the following columns:

Column name	Type	Description
Hostname	String	The computer's host name or IP address (for example, **127.0.0.1**).
		ℹ️ **NOTE** If your network uses DHCP, refer to the computer by host name rather than by IP address.
WorkstationName	String	The computer's name.
LabID	String	The unique ID of the computer's lab.
LabTitle	String	The name of the computer's lab.

   ℹ️ **NOTES**

   - The first row of the spreadsheet must contain the column names as listed in the table above.

   - The string columns can contain any character except a comma (,).

4. Save the CSV file.

Creating a SMART School file

After you install SMART Administrator Tools - Classlist Manager and export information from third-party applications to CSV files, you can create a SMART School file.

> ☞ **IMPORTANT**
>
> If you are upgrading to SMART Sync 2011 software from SMART Sync 2009 or 2010 software, do the following:
>
> - Create a new SMART School file following the instructions in *Creating a SMART School file* above.
>
> - Delete the teacher files of administered teachers.
>
>   In Windows XP operating system, these files are in **C:\Documents and Settings\ All Users\Documents\SMART Technologies\SMART Sync**
>
>   In Windows Vista and Windows 7 operating systems, these files are in **C:\Users\Public\Documents\SMART Technologies\SMART Sync**

The specific steps you complete to create a SMART School file depend on how you want to include school information in the file.

If you want to:	Complete these steps:
Create CSV files and import their contents into a SMART School file using the command line tool.	1. Import the contents of the CSV file using the command line tool (see page 23). 2. Open the SMART School file in SMART Administrator Tools - Classlist Manager (see page 21). 3. Create administered application and Internet blocking rules (see page 27 and page 28). 4. Review the SMART School file (see page 29).
Create CSV files and import their contents into a SMART School file using SMART Administrator Tools - Classlist Manager.	1. Start SMART Administrator Tools - Classlist Manager and create a new SMART School file (see page 21). 2. Import the contents of the CSV file using SMART Administrator Tools - Classlist Manager (see page 22). 3. Create administered application and Internet blocking rules (see page 27 and page 28). 4. Review the SMART School file (see page 29).
Enter school information directly in SMART Administrator Tools - Classlist Manager.	1. Start SMART Administrator Tools - Classlist Manager and create a new SMART School file (see page 21). 2. Enter school information in SMART Administrator Tools - Classlist Manager (see page 24, page 25 and page 25). 3. Create administered application and Internet blocking rules (see page 27 and page 28). 4. Review the SMART School file (see page 29).

Starting SMART Administrator Tools - Classlist Manager

The first step in using SMART Administrator Tools - Classlist Manager is to create or open a SMART School file.

To create a SMART School file

1. Double-click the **SMART Administrator Tools - Classlist Manager 2011** icon on your desktop.

    The *SMART Administrator Tools - Classlist Manager* window appears.

2. Click **School File**, click **Create a new SMART School file and save it as**, and then click **Browse**.

    The *Select School File Location* dialog box appears.

3. Browse to the folder where you want to create the SMART School file.

> ☞ **IMPORTANT**
>
> For security reasons, create the SMART School file in a location that is accessible to teachers and system administrators but not to students. Teacher can have read-only access to the file, but system administrators require read/write access.

4. Type a name in the *File name* box.

5. Click **Save**.

    The *Select School File Location* dialog box closes, and the path to the SMART School file appears in the box below the *Create a new SMART School file and save it as* option.

To open a SMART School file

1. Double-click the **SMART Administrator Tools - Classlist Manager 2011** icon on your desktop.

    The *SMART Administrator Tools - Classlist Manager* window appears.

2. Click **School File**, click **Edit the existing SMART School file in this location**, and then click **Browse**.

    The *Open School File* dialog box appears.

3. Browse to and select the SMART School file.

4. Click **Open**.

    The *Open School File* dialog box closes, and the path to the SMART School file appears in the box below the *Edit the existing SMART School file in this location* option.

Importing school information using SMART Administrator Tools - Classlist Manager

You can manually enter student, teacher and class or computer lab information in SMART School files using SMART Administrator Tools - Classlist Manager. Alternatively, you can generate CSV files from a third-party application (see *Using information from third-party applications* on page 16) and then import the contents of these files into the SMART School file using SMART Administrator Tools - Classlist Manager as described in this section or using the command line tool as described in the next section (see page 23).

■ **To import student, teacher and class information**

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Import Information**.

3. Click **Browse** to the right of the *Student, Teacher, Class CSV file Location* box.

   The *Open Classes CSV File* dialog box appears.

4. Navigate to and select a student, teacher and class CSV file.

5. Click **Open**.

   The *Open Classes CSV File* dialog box closes, and the path to the CSV file appears in the *Student, Teacher, Class CSV file Location* box.

■ **To import computer lab information**

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Import Information**.

3. Click **Browse** to the right of the *Computer, Lab CSV File Location* box.

   The *Open Labs CSV File* dialog box appears.

4. Navigate to and select a computer lab CSV file.

5. Click **Open**.

   The *Open Labs CSV File* dialog box closes, and the path to the CSV file appears in the *Computer, Lab CSV File Location* box.

Importing school information using the command line tool
You can import the contents of CSV files using the command line tool rather than SMART Administrator Tools - Classlist Manager.

■ **To import school information**

1. Open a command prompt window.

2. Open the following folder in the command prompt window:

   [Program files]**SMART Technologies\SMART Administrator Tools 2011\ CSVtoSchool.exe**

3. Type the following command, and then press ENTER:

```
CSVtoSchool /classcsv:[Class CSV file path]
 /labcsv:[Computer lab CSV file path]
 /schoolfile:[SMART School file path]
```

Where

- *[Class lab CSV file path]* is the path and file name of the student, teacher and class CSV file

- *[Computer lab CSV file path]* is the path and file name of the computer lab CSV file

- *[SMART School file path]* is the path and file name of the SMART School file.

> **i** **NOTES**
>
> - If the SMART School file doesn't exist, the tool creates the SMART School file and includes the student, teacher and class or computer lab information from the CSV file in it.
>
> - If the SMART School file exists, the tool replaces the student, teacher and class or computer lab information with the contents of the CSV file, but the Internet blocking rules and application blocking rules remain the same. The database ID of the SMART School file remains the same.
>
> - If there are errors, a message appears, displaying an error number that indicates the problem.
>
> - If there are no errors, a 0 error message appears.

Entering student information

You can import student information from a CSV file (see *Importing school information using SMART Administrator Tools - Classlist Manager* on page 22). Alternatively, you can manually enter student information in a SMART School file using SMART Administrator Tools - Classlist Manager.

> **i** **NOTE**
>
> Student information is required only if you're entering classes in the SMART School file (see *Entering class or computer lab information* on the next page).

To add a student

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Students**, and then click **Add Student**.

   A new row appears in the table.

3. Type the student's last name in the *Last Name* column.

4. Type the student's first name in the *First Name* column.

5. Type the student's ID in the *Student ID* column.

> ☞ **IMPORTANT**
>
> The ID you enter here must match the ID the student uses to log on to SMART Sync Student software.

> ℹ **NOTE**
>
> SMART Administrator Tools - Classlist Manager generates a random ID for the student if you don't specify one.

Entering teacher information

You can import teacher information from a CSV file (see *Importing school information using SMART Administrator Tools - Classlist Manager* on page 22). Alternatively, you can manually enter teacher information in a SMART School file using SMART Administrator Tools - Classlist Manager.

> ℹ **NOTE**
>
> Teacher information is required only if you're entering classes in the SMART School file (see *Entering class or computer lab information* below).

▊ To add a teacher

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Teachers**, and then click **Add Teacher**.

   A new row appears in the table.

3. Type the teacher's last name in the *Last Name* column.

4. Type the teacher's first name in the *First Name* column.

5. Type the teacher's title in the *Title* column (for example, **Mr.**, **Ms.** or **Dr.**).

Entering class or computer lab information

If each student has his or her own laptop or assigned computer in a class, you must enter classes in the SMART School file.

OR

If computers are located in labs in your school, you must enter the labs in the SMART School file.

You can import class or computer lab information from a CSV file (see *Importing school information using SMART Administrator Tools - Classlist Manager* on page 22). Alternatively, you can manually enter class or computer lab information in a SMART School file using the *Classes* section or *Computer Labs* section of SMART Administrator Tools - Classlist Manager.

To add a class

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Classes**, and then click **Add**.

   A new row appears in the table.

3. Type a name in the *Class Name* column (for example, **5th Grade Math**).

   If appropriate, include the class's period to distinguish it from other classes.

4. Select the name of a teacher or student you want to include in the class in the

   All Students and Teachers list, and then click [→] to move it to the *Class Members* list.

   > **i NOTES**
   >
   > ○ In the *All Students and Teachers* and *Class Members* lists, teachers' names appear in red text and students' names appear in black text.
   >
   > ○ To remove teachers or students from a class, select their names in the *Class Members* list, and then click [←] to move them to the *All Students and Teachers* list.

5. Repeat step 4 for each teacher or student that you want to add to the class.

To add a computer lab

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Computer Labs**, and then click **Add**.

   A new row appears in the computer lab table.

3. Type a name in the *Lab Name* column (for example, **Main Lab**).

4. Click **Add Computer**.

   A new row appears in the computer table.

5. Type the host name or IP address of the computer in the *Hostname* column (for example, **127.0.0.1**).

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

6. Type the name of the computer in the *Workstation Name* column (for example, **Main Lab WS1**).

7. Repeat steps 4 to 6 for each computer you want to add to the computer lab.

    > **ℹ NOTE**
    >
    > To remove a computer from the computer lab, select the computer, and then click **Remove Computer**.

Creating administered application blocking rules

An application blocking rule enables teachers either to allow specific applications and block all others or to block specific applications and allow all others. For example, an English teacher could allow access to Microsoft Word but block access to all other applications while students are writing an English paper.

Teachers can individually create and share application blocking rules in SMART Sync Teacher software. Alternatively, you can create centrally administered application blocking rules and include them in a SMART School file.

To create a rule

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Application Blocking**, and then click **Add**.

    A new row appears in the application blocking rule table.

3. Type a name in the *Rule Name* column (for example, **English Paper**).

4. Select **Block all applications except those listed below** to block access to all applications except those you include in the rule.

    OR

    Select **Allow all applications except those listed below** to allow access to all applications except those you include in the rule.

5. Click **Add Application**.

    A new row appears in the application table.

6. Type a name for the application in the *Display Name* column if you don't want to use the default name.

7. Type the path to the application in the *Application Path* column.

8. Select **Windows** or **Mac** in the *Operating System* column.

9. Repeat steps 5 to 8 for each application you want to add to the application blocking rule.

> **ℹ N O T E**
>
> To remove an application from the application blocking rule, select the application, and then click **Remove Application**.

Creating administered Internet blocking rules

An Internet blocking rule enables teachers either to allow specific websites and block all others or to block specific websites and allow all others. For example, a history teacher could block access to online encyclopedias and other history resources while students are writing a history paper.

Teachers can individually create and share Internet blocking rules in SMART Sync Teacher software. Alternatively, you can create centrally administered Internet blocking rules and include them in a SMART School file.

▌ To create a rule

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator Tools - Classlist Manager* on page 21).

2. Click **Internet Blocking**, and then click **Add**.

    A new row appears in the Internet blocking rule table.

3. Type a name in the *Rule Name* column (for example, **History Paper**).

4. Select **Block all websites except those listed below** to block access to all websites except those you include in the rule.

    OR

    Select **Allow all websites except those listed below** to allow access to all websites except those you include in the rule.

5. Click **Add Website**.

    A new row appears in the website table.

6. Type the address of the website in the *Website Address* column.

7. Repeat steps 5 and 6 for each website you want to add to the Internet blocking rule.

> **i NOTE**
>
> To remove a website from the Internet blocking rule, select the website, and then click
> **Remove Website**.

Reviewing the SMART School file

After creating a SMART School file, you can review it in the *Summary* section and then close
SMART Administrator Tools - Classlist Manager to save the file. You should complete the following
tasks before you review and save the file:

- Import school information (see *Importing school information using SMART Administrator Tools
  - Classlist Manager* on page 22 or *Importing school information using the command line tool* on
  page 23).

  OR

  Enter student, teacher or class information (see *Entering student information* on page 24,
  Entering teacher information on page 25, and *Entering class or computer lab information* on
  page 25).

  OR

  Enter computer lab information (see *Entering class or computer lab information* on page 25).

- Create administered application blocking rules (see *Creating administered application blocking
  rules* on page 27).

- Create administered Internet blocking rules (see *Creating administered Internet blocking rules*
  on the previous page).

To review the SMART School file

1. Start SMART Administrator Tools - Classlist Manager (see *Starting SMART Administrator
   Tools - Classlist Manager* on page 21).

2. Click **Summary**.

   If any warnings appear, read them and take the appropriate actions.

3. Click **Exit**.

Installing teacher and student software

After you install SMART Sync Class List Server and SMART Administrator Tools - Classlist
Manager and creating a SMART School file, you can install SMART Sync Teacher software on
teacher computers and SMART Sync Student software on student computers.

Installing teacher and student software across a school or district involves three steps:

1. Locating the installation files

2. Customizing the installation packages

3. Deploying the installation packages

Installation packages and supporting files

Before you can customize or deploy SMART software, you must locate the installation packages and supporting files.

Installation packages

There are three installation packages (also known as MSI files) for SMART Sync software:

Installation package	File name
SMART Sync Teacher software	**SMART Sync Teacher 2011.msi**
SMART Sync Student software	**SMART Sync Student.msi**
SMART Administrator Tools	**SMART Administrator Tools 2011.msi**

Download these installation packages from smarttech.com/administratordownloads.

Save the packages in a location on your network that's accessible to all computers on which you plan to install the software.

Language files

If you plan to deploy the installation packages in a language other than English (U.S.), ensure the corresponding MST file for the language is in the same folder as the MSI file (see *Installation language files and codes* on page 61).

Customizing the installation packages

Before you deploy installation packages, you can customize them for your environment by creating MST files.

> ☞ **I M P O R T A N T**
>
> If you installed SMART Sync Class List Server and SMART Administrator Tools - Classlist Manager and created a SMART School file, customize the SMART Sync Teacher software installation package to reference the SMART School file location and the SMART Sync Student software installation package to reference the SMART Sync Class List Server location.

You can create MST files using SMART Install Manager (see page 41).

OR

You can create MST files using a third-party tool such as Orca database editor and the Windows Installer properties (see page 51).

Deploying the software

You can deploy installation packages using the command line interface.

OR

You can deploy installation packages using third-party imaging or remote management software.

> **i N O T E**
>
> You might need to manually activate the software after you deploy it.

Using the command line interface

Using the command line interface, you can deploy installation packages in many ways, including running commands from the Command Prompt window and including commands in batch script files.

> **☞ I M P O R T A N T**
>
> Before you deploy the SMART Sync Teacher software installation package, you must install Windows Installer 4.5 (see support.microsoft.com/kb/942288).

To install SMART Sync Teacher software

Run the following command if you created an MST file to customize the installation package:

```
msiexec /i "[Path]\SMART Sync Teacher 2011.msi" TRANSFORMS="[MST
  file]" [Parameter]
```

OR

Run the following command if you didn't create an MST file to customize the installation package:

```
msiexec /i "[Path]\SMART Sync Teacher 2011.msi" [Properties]
  [Parameter]
```

Where

- *[Path]* is the path to the **SMART Sync Teacher 2011.msi** file and MST file.
- *[MST file]* is the name of the MST file.

- *[Properties]* is a set of properties you can include to customize the installation (see *SMART Sync Teacher software installation package* on page 51).

  > ☞ **IMPORTANT**
  >
  > If you installed SMART Administrator Tools - Classlist Manager and created a SMART School file, include the **SCHOOLFILE** and the **ENABLE_ADMINISTERED_ CLASSLIST** properties.

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

To install SMART Sync Student software

Run the following command if you created an MST file to customize the installation package:

```
msiexec /i "[Path]\SMART Sync Student.msi" TRANSFORMS="[MST file]"
  [Parameter]
```

OR

Run the following command if you didn't create an MST file to customize the installation package:

```
msiexec /i "[Path]\SMART Sync Student.msi" [Properties] [Parameter]
```

Where

- *[Path]* is the path to the **SMART Sync Student.msi** file and MST file.

- *[MST file]* is the name of the MST file.

- *[Properties]* is a set of properties you can include to customize the installation (see *SMART Sync Student software installation package* on page 53).

  > ☞ **IMPORTANT**
  >
  > If you installed SMART Sync Class List Server include the **SYNC_NAMINGSERVERLOC** property.

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

Using third-party imaging or remote management software

The following procedure shows how to deploy SMART software using Group Policy-based deployment software. For information on deploying SMART software using your organization's third-party imaging or remote management software, see the software's documentation.

> **i   N O T E**
>
> This procedure may vary depending on your version of Windows operating system and your system preferences.

■ **To deploy an installation package**

1. Copy the MSI file and the MST file to *[Domain Controller]***NETLOGON**, where *[Domain Controller]* is your domain controller.

2. Open Control Panel, double-click **Administrative Tools**, and then double-click **Active Directory Users and Computers**.

   The *Active Directory Users and Computers* window appears.

3. Right-click your domain, and then select **Properties**.

   The *Properties* dialog box appears.

4. Click the **Group Policy** tab, and then click **Edit**.

   The *Group Policy Object Editor* dialog box appears.

5. Browse to and open **Computer Configuration\Software Settings**.

6. Right-click **Software Installation**, select **New > Package**, and then browse to and select the MSI file from step 1.

7. In the *Deploy Software* section, click **Advanced**, and then click **OK**.

8. Click the **Modifications** tab, click **Add**, and then browse to and select the MST file from step 1.

9. Click **OK** to apply the MST file to the MSI file.

10. Close all open windows and dialog boxes.

    The next time each computer on the domain starts, the computer automatically installs the software in Silent mode with the customizations defined in the MST file.

Chapter 4
Modifying or removing the software

This chapter explains how to modify or remove SMART software.

Modifying the software

After installing SMART Sync Administrator Tools on a computer, you may decide to add or remove components. For example, you may have installed SMART Sync Class List Server on the same computer you now want to install SMART Administrator Tools - Classlist Manager on.

- **To add a component**

Run the following command:

```
msiexec /i "[Path]\SMART Administrator Tools 2011.msi" [Installation
property] [Add properties] /q
```

Where:

- *[Path]* is the path to the **SMART Administrator Tools 2011.msi** file.

- *[Installation property]* is the **INSTALL** property of the component already installed.

- *[Add properties]* is the set of properties for the component you want to add:

Components	Add Properties
SMART Sync Class List Server	`INSTALLCLASSLISTSERVER="1" REINSTALLMODE=voums ADDLOCAL=ClassListServer`
SMART Administrator Tools - Classlist Manager	`INSTALLADMINTOOL="1" REINSTALLMODE=voums ADDLOCAL=AdminTool`

See *Component addition examples* below for more information.

To remove a component

Run the following command:

```
msiexec /i "[Path]\SMART Administrator Tools 2011.msi" [Remove
 properties] /q
```

Where:

- *[Path]* is the path to the **SMART Administrator Tools 2011.msi** file.

- *[Remove properties]* is the set of properties for the component you want to remove:

Components	Remove Properties
SMART Sync Class List Server	`INSTALLCLASSLISTSERVER="" REINSTALLMODE=voums REMOVE=ClassListServer`
SMART Administrator Tools - Classlist Manager	`INSTALLADMINTOOL="" REINSTALLMODE=voums REMOVE=AdminTool`

See *Component removal examples* on the next page for more information.

Component addition examples

The following example installs SMART Administrator Tools - Classlist Manager on a computer that already has SMART Sync Class List Server:

```
msiexec /i "C:\SyncSetup\SMART Administrator Tools 2011.msi"
 INSTALLCLASSLISTSERVER=1 INSTALLADMINTOOL=1 REINSTALLMODE=voums
 ADDLOCAL=AdminTools /qb
```

The following example installs SMART Sync Class List Server on a computer that already has SMART Administrator Tools - Classlist Manager:

```
msiexec /i "C:\SyncSetup\SMART Administrator Tools 2011.msi"
  INSTALLADMINTOOL=1 INSTALLCLASSLISTSERVER=1 REINSTALLMODE=voums
  ADDLOCAL=ClassListServer /qb
```

Component removal examples

The following example removes SMART Sync Class List Server:

```
msiexec /i "C:\SyncSetup\SMART Administrator Tools 2011.msi"
  INSTALLCLASSLISTSERVER="" REINSTALLMODE=voums REMOVE=ClassListServer
  /qb
```

The following example removes SMART Administrator Tools - Classlist Manager:

```
msiexec /i "C:\SyncSetup\SMART Administrator Tools 2011.msi"
  INSTALLADMINTOOL="" REINSTALLMODE=voums REMOVE=AdminTool /qb
```

ℹ️ NOTE

You can also remove SMART Sync Class List Server and SMART Administrator Tools - Classlist Manager following the instructions in *To remove SMART Sync Class List Server and SMART Administrator Tools - Classlist Manager* on page 39.

Removing the software

You can remove SMART software using the command line interface.

OR

You can remove SMART software using third-party imaging or remote management software.

Using the command line interface

Using the command line interface, you can remove SMART software in many ways, including running commands from the Command Prompt window and including commands in batch script files.

☞ IMPORTANT

Only remove the common platform after removing all other SMART software.

◾ **To remove SMART Sync Teacher software**

Run the following command to remove the software using the installation package:

```
msiexec /x "[Path]\SMART Sync Teacher 2011.msi" [Parameter]
```

Where

- *[Path]* is the path to the **SMART Sync Teacher 2011.msi** file.

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

OR

Run the following command to remove the software using the product code:

```
msiexec /x [Product code] [Parameter]
```

Where

- *[Product code]* is the product code for the version of SMART Sync Teacher software you're removing, including the braces ("{" and "}").

Version	Product code
7.0.27.1	{0BA04E3D-ACE5-4706-B252-2D126EC0FAAE}
7.0.44.2	{0BA04E3D-ACE5-4706-B252-2D126EC0FAAE}
8.1.92.6	{96E3501E-D006-4D78-8FD6-C6C00CD8919A}
8.1.107.7	{E721B9EF-DBCA-4356-892E-93B98A019F1B}
9.0.37.2.0	{72B08261-5E61-47A5-8C75-A8B8C4A44E7A}
10.0	{9D81615E-B150-488B-90CA-1159E2113BE3}
10.0 (chained)	{F5F5DBE0-1238-477C-963C-BE6C305A1C5F}

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

◾ **To remove SMART Sync Student software**

Run the following command to remove the software using the installation package:

```
msiexec /x "[Path]\SMART Sync Student.msi" [Parameter]
```

Where

- *[Path]* is the path to the **SMART Sync Student.msi** file.

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

OR

Run the following command to remove the software using the product code:

```
msiexec /x {896E88BE-1052-4944-930E-43C1C8AE354C} [Parameter]
```

Where *[Parameter]* is the installation parameter (see *Parameters* on page 59).

To remove SMART Sync Class List Server and SMART Administrator Tools - Classlist Manager

Run the following command to remove the software using the installation package:

```
msiexec /x "[Path]\SMART Administrator Tools 2011.msi" [Parameter]
```

Where

- *[Path]* is the path to the **SMART Administrator Tools 2011.msi** file.

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

OR

Run the following command to remove the software using the product code:

```
msiexec /x {7062B1A8-9483-49B0-A4E6-639459C1BB67} [Parameter]
```

Where *[Parameter]* is the installation parameter (see *Parameters* on page 59).

To remove the common platform

If you installed the common platform using the **SMART Common Platform.msi** file, run the following command to remove the software using the installation package:

```
msiexec /x "[Path]\SMART Common Platform.msi" [Parameter]
```

Where

- *[Path]* is the path to the **SMART Common Platform.msi** file.

- *[Parameter]* is the installation parameter (see *Parameters* on page 59).

OR

Run the following command to remove the common platform using the product code:

```
msiexec /x {0E5DD7A3-BE29-430C-970B-C553F4A58C39} [Parameter]
```

Where *[Parameter]* is the installation parameter (see *Parameters* on page 59).

Using third-party imaging or remote management software

The following procedure shows how to remove SMART software using Windows operating systems' Group Policy-based deployment software. For information on removing software using your organization's third-party imaging or remote management software, see the software's documentation.

> **i NOTE**
>
> This procedure may vary depending on your version of Windows operating system and your system preferences.

To remove a deployed installation package

1. Open Control Panel, double-click **Administrative Tools**, and then double-click **Active Directory Users and Computers**.

   The *Active Directory Users and Computers* window appears.

2. Right-click your domain, and then select **Properties**.

   The *Properties* dialog box appears.

3. Click the **Group Policy** tab, and then click **Edit**.

   The *Group Policy Object Editor* dialog box appears.

4. Browse to and open **Computer Configuration\Software Settings\ Software Installation**.

5. Right-click the software you want to remove, and then select **All Tasks > Remove**.

6. Select **Immediately uninstall the software from users and computers**, and then click **OK**.

   The next time each computer on the domain starts, the computer automatically removes the software.

Chapter 5
Using SMART Install Manager

SMART Install Manager enables you to customize SMART software installation packages (also known as MSI files) by publishing MST files. You can then deploy the MSI and MST files to computers using third-party imaging or remote management software.

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 Windows**.

3. Click **Administrator Downloads**, and then click **SMART Install Manager**.

4. Save the **Install Manager.exe** file to your computer.

5. Double-click the **Install Manager.exe** file.

   The SMART Install Manager installation wizard appears.

6. Follow the on-screen instructions.

Using SMART Install Manager

After you install SMART Install Manager, shortcuts to the software appear on the desktop and in the Start menu under **All Programs > SMART Technologies > SMART 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 packages as an MST file.

Opening an installation package

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

> **i** **N O T E**
>
> You can customize only the **SMART Sync Teacher 2011.msi** and **SMART Sync Student.msi** files with SMART Install Manager.

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

> **i** **N O T E**
>
> All installation packages you've previously opened in SMART Install Manager appear in the *Unmodified Packages* tab.

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.

Page links — *Page content*
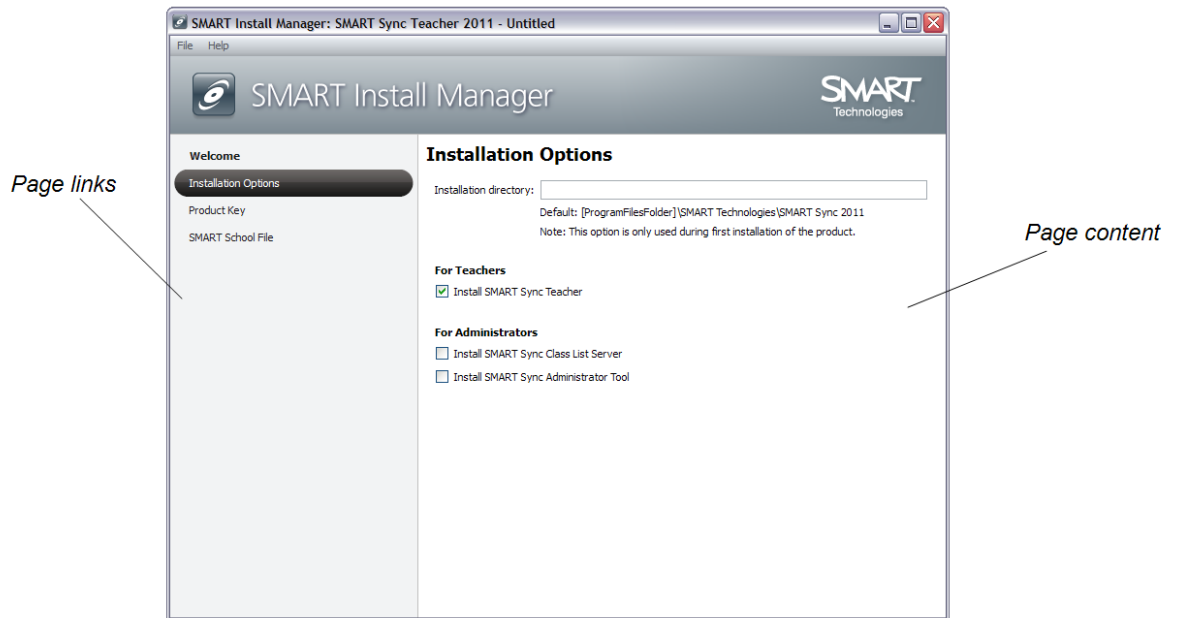
Saving your changes

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 MSI file and then selecting **File > Import**.

Publishing your changes as an MST file

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

> 💡 **TIP**
>
> Publish the MST file in the same location as the MSI file.

Customizing the SMART Sync Teacher software installation package

To customize the SMART Sync Teacher software installation package, open the **SMART Sync Teacher 2011.msi** file in SMART Install Manager (see *Using SMART Install Manager* on page 42), and then set the controls on each page.

Control	Procedure	Notes
Installation Options		
Installation directory	Type the path to your preferred folder for SMART Sync Teacher software.	If you don't specify a folder, Windows Installer installs SMART Sync Teacher software in ***[Program files]*\SMART Technologies\Education Software** where *[Program files]* is **C:\Program Files** for 32-bit versions of Windows operating systems or **C:\Program File (x86)** for 64-bit versions of Windows operating systems.
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.
Administrator Setup		
Administer class lists using a SMART School file	Select to administer class lists using a SMART School file, and then type the path to the SMART School file in the *File location* box or click **Browse**, and then browse to and select the SMART School file.	Before you can specify the path to a SMART School file, you must install SMART Administrator Tools - Classlist Manager, and then use it to create the SMART School file.
Connect students using SMART Sync Classlist Server	Select to connect students using SMART Sync Class List Server, and then type the host name or IP address for SMART Sync Class List Server in the *Hostname or IP address* box.	

Customizing the SMART Sync Student software installation package

To customize the SMART Sync Student software installation package, open the **SMART Sync Student.msi** file in SMART Install Manager (see *Using SMART Install Manager* on page 42), and then set the controls on each page.

Control	Procedure	Notes
Installation Options		
Installation directory	Type the path to your preferred folder for SMART Sync Student software.	If you don't specify a folder, Windows Installer installs SMART Sync Student software in *[Program files]***\SMART Technologies\Sync Student** where *[Program files]* is **C:\Program Files** for 32-bit versions of Windows operating systems or **C:\Program File (x86)** for 64-bit versions of Windows operating systems.
Install Start menu and desktop shortcuts	Select to create shortcuts in the Start menu and on the desktop.	
Student Configuration Settings: Interface		
Visible to students	Select to show the SMART Sync Student software user interface to the student.	
Hidden from students	Select to hide the SMART Sync Student software user interface from the student.	If you select this option, the student won't be able to do the following: • Connect to a teacher by selecting his or her name from a list • Manually start SMART Sync Student software • Manually enter an ID after starting SMART Sync Student software

Control	Procedure	Notes
Student Configuration Settings: Connection with Teacher		
Allows the student to select from a list of available teachers	Select to allow the student to select a teacher from a list.	This option is disabled if you select **Hidden from student** in the *Interface* page. In addition, if you select **Hidden from student** but don't select one of the three options below and provide a teacher ID, host name or IP address, the student will not be able to connect to a teacher.
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.	
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.	If your network uses DHCP, refer to the computer by host name rather than by IP address.
Automatically connects with classes the student belongs to	Select to connect SMART Sync Student software to the classes the student belongs to.	
Uses this Class List Server host name or IP address	Select to connect SMART Sync Student software to a specific teacher using SMART Sync Class List Server. Type the host name or IP address of the SMART Sync Class List Server computer in the box below the check box.	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.	This check box is disabled if you select **Hidden from student** in the *Interface* page.
Ask questions	Select to allow the student to ask questions.	This check box isn't visible if you select **Hidden from student** in the *Interface* page.
Chat	Select to allow the student to chat with other students.	This check box isn't visible if you select **Hidden from student** in the *Interface* page.

Control	Procedure	Notes
Submit files	Select to allow the student to submit files.	This check box isn't visible if you select **Hidden from student** in the *Interface* page.
Exit the Student program	Select to allow the student to close SMART Sync Student software.	This check box isn't visible if you select **Hidden from student** in the *Interface* page.
Student Configuration Settings: Student ID		
Student Controlled	Select to allow the student to enter an ID when SMART Sync Student software starts.	This option is disabled if you select **Hidden from student** in the *Interface* page. 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.
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.
Found in this Active Directory field…	Select to find the student ID in an Active Directory field of the student's login account. Type the Active Directory field name in the box to the right of the option.	
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.
Student Configuration Settings: Shared Files Folder		
My Documents folder	Select to store files the teacher shares with the student in the **My Documents** folder (Windows XP or Windows 7 operating systems) or **Documents** folder (Windows Vista operating system).	
Custom folder	Select to store files in another folder. Type the path to the folder in the box below the option.	

Appendix A

Recommended computer and network settings

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 and color depth. However, the software makes adjustments for different color settings and 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.

Similarly, if a broadcasting computer has a higher color setting than a viewing computer, the broadcasting computer's colors are reduced so the viewer can see it on his or her computer. For example, if a student's computer has a higher color setting than the teacher's computer, the teacher sees a *Color Reduced* message below the thumbnail. When the teacher views a live, full-screen image of the student's desktop, the colors appear slightly degraded.

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	High color (16-bit)	True color (32-bit)
1024 × 768 or lower	Optimal	Optimal
1152 × 864	Acceptable	Acceptable
1280 × 1024	Acceptable	Acceptable
1600 × 1200	Acceptable	Not recommended

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
5485	TCP	Main teacher to teacher communications port
5496	UDP	Teacher discovery port
5493	UDP	Broadcast port
46200	TCP	SMART Sync Class List Server
46201	TCP	SMART classroom coordinator port (local host only)

Appendix B

Windows Installer properties and parameters

Properties

SMART Sync Teacher software installation package

The following are properties for the SMART Sync Teacher software installation package:

Property	Allowed values	Notes
General properties		
INSTALLDIR	[String]: The path to your preferred folder for SMART Sync Teacher software.	If you don't specify a folder, Windows Installer installs SMART Sync Teacher software in *[Program files]\SMART Technologies\Education Software* where *[Program files]* is **C:\Program Files** for 32-bit versions of Windows operating systems or **C:\Program File (x86)** for 64-bit versions of Windows operating systems.
SYNC_PROD_ KEY	[String]: The 22-character product key you received from SMART.	This property automatically populates the *Product Key* box in the activation wizard if you choose not to include the ACTIVATE_LICENSE property.

Property	Allowed values	Notes
TRANSFORMS	[String]: A language MST file for the installation (see *Installation language files and codes* on page 61).	Ensure the specified MST file is in the same folder as the MSI file. This property defines the language of the installer's user interface and the installed software's icons and shortcuts. It doesn't define the installed software's user interface language. The installed software uses the computer's operating system language if it's supported, or English (U.S.) if not. You can also use the TRANSFORMS property to apply an MST file created by SMART Install Manager (see page 41) or a third-party tool.
SMART Sync Teacher software properties		
ENABLE_ ADMINISTERED_ CLASSLIST	1: Administer class lists using a SMART School file. [Null or empty string] (default): Don't administer class lists using a SMART School file.	If you want to administer class lists using a SMART School file, you must install SMART Administrator Tools - Classlist Manager, use it to create the file, and then specify the path to the file using the SCHOOLFILE property.
SCHOOLFILE	[String]: The path to the SMART School file.	
ENABLE_ CONNECT_ STUDENTS_ USING_CLS	1: Connect students using SMART Sync Class List Server. [Null or empty string] (default): Don't connect students using SMART Sync Class List Server.	If you want to connect students using SMART Sync Class List Server, you must install SMART Sync Class List Server, and then specify the host name or IP address in the SYNC_ NAMINGSERVERLOC property.
SYNC_NAMING SERVERLOC	[String]: The host name or IP address of SMART Sync Class List Server.	

SMART Sync Student software installation package

The following are properties for the SMART Sync Student software installation package:

Property	Allowed values	Notes
General properties		
INSTALLDIR	[String]: The path to your preferred folder for SMART Sync Student software.	If you don't specify a folder, Windows Installer installs SMART Sync Student software in *[Program files]***SMART Technologies\Sync Student** where *[Program files]* is **C:\Program Files** for 32-bit versions of Windows operating systems or **C:\Program File (x86)** for 64-bit versions of Windows operating systems.
TRANSFORMS	[String]: A language MST file for the installation (see *Installation language files and codes* on page 61).	Ensure the specified MST file is in the same folder as the MSI file. This property defines the language of the installer's user interface and the installed software's icons and shortcuts. It doesn't define the installed software's user interface language. The installed software uses the computer's operating system language if it's supported, or English (U.S.) if not. You can also use the TRANSFORMS property to apply an MST file created by SMART Install Manager (see page 41) or a third-party tool.
LOCALE	[Integer]: A language code for SMART Sync Student software (see *Installation language files and codes* on page 61).	If you don't specify a language code using LOCALE, SMART Sync Student software uses the computer's operating system language if it's supported, or English (U.S.) if not.

Property	Allowed values	Notes
SMART Sync Student software properties		
CREATE_ SHORTCUTS	1 (default): Include shortcuts to SMART Sync Student software in the Start menu and on the desktop. [Empty string]: Don't include shortcuts to SMART Sync Student software in the Start menu and on the desktop.	
SYNC_VISIBLE	1 (default): Show the SMART Sync Student software user interface. 0: Hide the SMART Sync Student software user interface.	
SYNC_ CONNECTUSED	0: Allow the student to select a teacher from a list. 1: Connect SMART Sync Student software to a specific teacher using SMART Sync Class List Server. 2: Connect SMART Sync Student software to a specific teacher through the teacher's ID defined in SYNC_CONTEACHID. 3: Connect SMART Sync Student software to a specific teacher through the host name or IP address defined in SYNC_CONNECTIP.	If you set SYNC_VISIBLE to 0, you must set this property to 1, 2 or 3.
SYNC_ CONTEACHID	[String]: A teacher ID to which SMART Sync Student software will connect automatically.	
SYNC_ CONNECTIP	[String]: A teacher host name or IP address to which SMART Sync Student software will connect automatically.	
SYNC_ USENAMINGSERVER	1: Specify a SMART Sync Class List Server to connect to in the SYNC_NAMINGSERVERLOC property. 0: Don't specify a SMART Sync Class List Server.	
SYNC_NAMING SERVERLOC	[String]: A SMART Sync Class List Server host name or IP address to which SMART Sync Student software will connect automatically.	

Property	Allowed values	Notes
SYNC_ AUTOSTART	1 (default): Start SMART Sync Student software when the student first logs on. 0: Don't start SMART Sync Student software when the student first logs on.	This property is only applicable if you set SYNC_VISIBLE to 1.
SYNC_ENABLE QUESTIONS	1 (default): Allow the student to ask questions. 0: Don't allow the student to ask questions.	This property is only applicable if you set SYNC_VISIBLE to 1.
SYNC_ ENABLECHAT	1 (default): Allow the student to chat with other students. 0: Don't allow the student to chat with other students.	This property is only applicable if you set SYNC_VISIBLE to 1.
SYNC_ ENABLEFILE TRANSFER	1 (default): Allow the student to submit files. 0: Don't allow the student to submit files.	This property is only applicable if you set SYNC_VISIBLE to 1.
SYNC_ DISPLAYEXIT	1: Allow the student to close SMART Sync Student software. 0: Don't allow the student to close SMART Sync Student software.	This property is only applicable if you set SYNC_VISIBLE to 1.
SYNC_ STUDIDMODE	0: Use a student ID found in an Active Directory field specified in SYNC_ACTDIRSTUDID. 1: Use a student ID specified in SYNC_STUDENTID. 2: Allow the student to enter an ID when SMART Sync Student software starts. 3: Allow the student to use SMART Sync Student software without entering an ID.	If you set SYNC_VISIBLE to 1, this property's default value is 2. (If this property's value is 2, SMART Sync software doesn't apply Internet and application blocking rules until after the student enters an ID and joins the class.) If you set SYNC_VISIBLE to 0, this property's default value is 1. In this situation, you must include SYNC_STUDENTID. Set this property to 3 if students change computers or if user privacy is required.
SYNC_ ACTDIRSTUDID	[String]: The name or ID of an Active Directory field that contains the student's ID.	If you include this property, SYNC_ STUDIDMODE is set to 0 automatically.
SYNC_ STUDENTID	[String]: A student ID.	If you include this property, SYNC_ STUDIDMODE is set to 1 automatically.

Property	Allowed values	Notes
SYNC_ CUSTSHRD FOLDER	[Null or empty string] (default): Store files the teacher shares with the student in the **My Documents** folder (Windows XP and Windows 7 operating systems) or **Documents** folder (Windows Vista operating system). [String]: Store files the teacher shares with the student in another folder specified in this property.	

SMART Sync Administrator Tools installation package

The following are properties for the SMART Sync Administrator Tools installation package:

Property	Allowed values	Notes
General properties		
TRANSFORMS	[String]: A language MST file for the installation (see *Installation language files and codes* on page 61).	Ensure the specified MST file is in the same folder as the MSI file. This property defines the language of the installer's user interface and the installed software's icons and shortcuts. It doesn't define the installed software's user interface language. The installed software uses the computer's operating system language if it's supported, or English (U.S.) if not. You can also use the TRANSFORMS property to apply an MST file created by SMART Install Manager (see page 41) or a third-party tool.
SPU properties		
INSTALL_SPU	1 (default): Install SPU in Full mode. 2: Install SPU in Dashboard mode. 0: Don't install SPU.	In Full mode, users can view currently installed versions of SMART software and their product keys, and download and install updates. In Dashboard mode, users can view only currently installed versions of SMART software and their product keys. SPU doesn't check for updates to SMART Sync software. However, it does check for updates to other installed SMART products.
SPU_TIME_ FRAME	[Integer]: The time in days (1 to 60) between SPU checks.	By default, SPU checks for product updates every 30 days. This property is applicable only if you install SPU.
PRODUCT_ NOTIFICATION	1 (default): Notify the user when updates are available from SPU. 0: Don't notify the user when updates are available from SPU.	This property is applicable only if you install SPU.

Property	Allowed values	Notes
SMART Sync Administrator Tools properties		
INSTALL CLASSLIST SERVER	1: Install SMART Sync Class List Server. [Null] (default): Don't install SMART Sync Class List Server.	
INSTALL ADMINTOOL	1: Install SMART Administrator Tools - Classlist Manager. [Null] (default): Don't install SMART Administrator Tools - Classlist Manager.	
ENABLE_ ASSISTED_ TEACHER_ DISCOVERY	1: Use assisted teacher discovery. 0: Don't use assisted teacher discovery.	
SYNC_NAMING SERVERLOC	[String]: A SMART Sync Class List Server host name or IP address for assisted teacher discovery.	
ENABLE_ ADMINISTERED_ CLASSLIST	1: Use administered class lists. 0: Don't use administered class lists.	

Parameters

The following are the standard Windows Installer parameters for the msiexec command.

Parameter	Use
/q	Hide the installation wizard. **ℹ NOTE** This is Silent mode.
/qb	Show a basic installation wizard.
/qb!	Show a basic installation wizard without a **Cancel** button.
/qb+	Show a basic installation wizard with a dialog box signaling the end of the installation.
/qb+!	Show a basic installation wizard without a **Cancel** button but with a dialog box signaling the end of the installation.
/qr	Show a reduced installation wizard.
/qf	Show the full installation wizard, including a dialog box signaling the end of the installation or the *Fatal Error*, *User Exit* or *Exit* dialog box.
/qn	Hide the installation wizard and the dialog box signaling the end of the installation.
/qn+	Hide the installation wizard but show the dialog box signaling the end of the installation.

Appendix C

Installation language files and codes

Language	Code	File
English (U.S.)	1033	**1033.mst**
English (UK)	2057	**2057.mst**
Arabic	1025	**1025.mst**
Chinese (Traditional)	1028	**1028.mst**
Chinese (Simplified)	2052	**2052.mst**
Czech	1029	**1029.mst**
Danish	1030	**1030.mst**
Dutch	1043	**1043.mst**
Finnish	1035	**1035.mst**
French (France)	1036	**1036.mst**
German	1031	**1031.mst**
Greek	1032	**1032.mst**
Hungarian	1038	**1038.mst**
Italian	1040	**1040.mst**
Korean	1042	**1042.mst**
Norwegian	1044	**1044.mst**
Polish	1045	**1045.mst**
Portuguese (Portugal)	2070	**2070.mst**
Portuguese (Brazil)	1046	**1046.mst**
Russian	1049	**1049.mst**
Spanish (Spain)	1034	**1034.mst**
Spanish (Mexico)	2058	**2058.mst**
Swedish	1053	**1053.mst**
Turkish	1055	**1055.mst**

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