

Installation and Upgrade Guide

PowerSchool
Student Information System

Released August 2011

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This edition applies to Release 7.x of the PowerSchool software and to all subsequent releases and modifications until otherwise indicated in new editions or updates.

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Introduction

PowerSchool Installer

The PowerSchool installer allows you to manage your PowerSchool deployment. It installs the database and application for a specific server and it configures per-server settings such as database and web server ports, passwords, and file paths.

- If this is the first time you are installing PowerSchool 7.x, proceed to the *Installation Process* section of this guide.
- If you are already running PowerSchool, you need to be on version 6.2.1.2 or higher in order to upgrade to PowerSchool 7.0. Obtain the applicable installers on [PowerSource \(PowerSource > PowerSchool > Downloads\)](#), then begin the installation process described in the *Power Down PowerSchool 6.2.1.2+* section of this guide.
- If you are already running PowerSchool 7.x, download the latest version of the Database Script Updater and the Application Installer on [PowerSource \(PowerSource > PowerSchool > Downloads\)](#) and begin the upgrade process in the *Upgrade PowerSchool 7.x* section of this guide.

PowerSchool leverages Oracle, the leading relational database management solution for enterprise applications. All Oracle database tasks, including backups, are performed automatically. A Database Administrator can manage these backups.

Oracle is an SQL-based database. SQL is a standard language that many applications use to communicate with database management systems. The PowerSchool application is written in Java and translates web requests to standard SQL statements that are sent to Oracle for processing. After processing a request, the results are returned and translated back to the web server to create output as a web page or report.

Oracle also supports read-only ODBC connections to the database allowing the use of other third party software to create custom reports and for data analysis.

Note: Only clean installations of the Windows 2008 R2 SP1 Operating Systems are supported. Upgrades from Windows 2008 SP2 to Windows 2008 R2 SP1 have been found to cause problems and checks have been put in place to prevent installation.

Important Notice on PowerSchool 6.x Migration

PowerSchool 7.0 supports a Microsoft Windows configuration using 64-bit hardware with a Windows Server 2008 R2 SP1 64-bit operating system. Windows Server 2003 and Windows Server 2008 R1 are no longer supported. PowerSchool 7.0 also requires Oracle 11g. Due to these updates, it is imperative that a full backup of the PowerSchool 6.x data is performed and stored on a separate device to ensure data integrity.

To perform a complete backup and shutdown of PowerSchool 6.x on the server, see the [Power Down PowerSchool 6.2.1.2+ section](#). It is required that you perform data integrity checks using a utility such as the Microsoft File Checksum Integrity Verifier available on the Microsoft Support site at <http://support.microsoft.com/kb/841290>.

If you plan to use the current database server for PowerSchool 7.0, be sure that you fully understand the Power Down PowerSchool 6.x process. There is a risk that an incorrect or corrupted backup can result in irrevocable loss of all past and present PowerSchool data.

If you have hardware that already meets the minimum system requirements for PowerSchool 7.0, the Pearson Technical Solutions Group (TSG) can remotely install your Microsoft Windows operating system, your instance of PowerSchool, your Oracle database, and migrate your PowerSchool configuration and Oracle data to PowerSchool 7.0. Contact the Pearson Technical Solutions Group at tsghelpdesk@pearson.com for information concerning scope, cost and availability of services.

Installation Process

About PowerSchool Installer

PowerSchool Installer is a Web application that guides you through the installation process and allows you to configure your PowerSchool deployment after installation is complete. The application installs as a Tomcat service in Program Files\PowerSchool.

PowerSchool can be installed as a single server where PowerSchool, PowerTeacher, Oracle and the image server are configured on the same computer if the active student count is fewer than 3000 students. If the student count is over 3000 students, an array setup may be required, and a separate image server is recommended. If the student count is over 7000 students, a separate image server is required. Check the minimum system requirements to determine the correct hardware setup. For more information see the PowerSchool Hardware and Software Requirements available on PowerSource.

Note: To log on to PowerSource, you will need a username and password.

Installation Checklist

This installation guide explains how to install the database, database jobs, and the PowerSchool application node. It also describes the considerations required for installing servers in an array environment, and covers basic server installation.

Here are the steps you will take to complete the installation of PowerSchool 7.0:

1. Power down PowerSchool 6.2.1.2 and backup database and configuration files (see [Power Down PowerSchool 6.2.1.2+](#)).
2. Database installer setup (see [Database Installer Setup](#)).
3. Database installation (see [Database Installation](#)).
4. 6.2.1.2 database import (see [Database Installation](#)).
5. Database Script Updater (see [Update the PowerSchool Database](#)).
6. Application installer setup (see [Application Installer Setup](#)).
7. Application installation (see [Application Installation](#)).
8. Start up and then shutdown PowerSchool on the task master application node.
9. Start PowerSchool on the task master application node
10. Start PowerSchool on all other nodes (multiple server configuration)
11. Update connection settings on the Global Server Settings page and the ReportWorks Administration page in PowerSchool.
12. Contact your sales representative to update license information.

Power Down PowerSchool 6.2.1.2+

If you have an existing installation of PowerSchool, you must first power down PowerSchool and backup your data before installing PowerSchool 7.0. **This is an important process that you must follow in order to ensure data integrity when installing PowerSchool 7.0.**

You must be on PowerSchool 6.2.1.2 or higher in order to upgrade to PowerSchool 7.0. Installers are available for download on PowerSource.

Note: If you plan to reuse the current server as the new database server, you must perform a clean installation of Windows 2008 R2 SP1. Follow the backup instructions ensure data is not lost once when the system is formatted.

Windows

1. On the PowerSchool 6.2.1.2 or higher environment, download the Oracle 1.6 Jobs Installer from PowerSource.
2. Shutdown PowerSchool and Tomcat.
3. Double click POracleJobsInstallerWin32.exe or POracleJobsInstallerWin64.exe, depending on your environment. Follow the on-screen instructions to install. For more information, see the *Installation Guide for PowerSchool 6.x* available on PowerSource.
4. On the server, open the Command Prompt and enter the following:
[Oracle binaries drive]\oracle\scripts\Oracle10gDBShutdown.bat [SID]
5. Press Enter. Read the on-screen messages to view what the process entails.
6. Enter **C** to continue or **Q** to quit.
7. When the shutdown script is complete, a confirmation message appears in the Command Prompt. Close the Command Prompt window. The shutdown script creates the following files in the directories indicated:
[drive]:\oradata\[SID]\data_pump_dir\PS6X_10G.DMP
[drive]:\oradata\[SID]\data_pump_dir\CHECK_DB_OBJECTS.SQL
[drive]:\oradata\[SID]\data_pump_dir\PS6X_10G_FULL.DMP
[drive]:\oradata\flash_recovery_area\[SID]\BACKUPSET\[CURRENT DATE]
8. Copy these files to an external device.
9. Copy the [drive]\PowerSchoolPremier\data folder (single instance) or you Network Share folders (server array) to an external device.
- 10.IMPORTANT: Validate the files copied over to the external device properly using a file validation tool.**
11. Proceed with the [PowerSchool Database Installation](#).

Intel-based Mac

Note: If you are currently running PowerSchool on a Power PC, this process will not run. Before proceeding, contact Pearson Technical Support to upgrade to a supported version of PowerSchool.

1. On the PowerSchool 6.2.1.2 or higher environment, download the Oracle 1.6 Jobs Installer from PowerSource.
2. Shutdown PowerSchool and Tomcat.
3. Double click POracleJobsinstallerMac. Follow the on-screen instructions to install. For more information, see the *Installation Guide for PowerSchool 6.x* available on PowerSource.
4. Open Terminal and type **sudo su – oracle**
5. On the Terminal window, enter the following:
cd scripts

Press **Enter**

Type **./Oracle10gDBShutdown.sh [SID]**

6. Press **Enter**. Read the on-screen messages to view what the process entails.
7. Enter **C** to continue or **Q** to quit.
8. When the shutdown script is complete, a confirmation message appears in the Terminal window. Close the Terminal window. The shutdown script creates the following files in the directories indicated:
 - [drive]/u02/oradata/[SID]/data_pump_dir/PS6X_10G.DMP
 - [drive]/u02/oradata/[SID]/data_pump_dir/CHECK_DB_OBJECTS.SQL
 - [drive]/u02/oradata/[SID]/data_pump_dir/PS6X_10G_FULL.DMP
 - [drive]/u03/oradata/flash_recovery_area/[SID]/BACKUPSET/[CURRENT DATE]
9. Copy these files to an external device.

Note: These files may require a password in order to copy.
10. Copy the [drive]\PowerSchoolPremier\data folder (single instance) or you Network Share folders (server array) to an external device.
- 11. IMPORTANT: Validate the files copied over to the external device properly using a file validation tool.**
12. Proceed with the [PowerSchool Database Installation](#).

Installation Prerequisites

The customer prerequisites that must be met prior to installing PowerSchool 7.0 are as follows:

- Required Information
- System Requirements (see Hardware and Software Requirements for PowerSchool 7.0 available on [PowerSource](#))

Email information (optional for Oracle Jobs installer) including:

- SMTP server
- Email from address
- Email to address

Oracle account passwords (these can be new passwords):

- PS
- Psnavigator
- Dataminer
- Password for the account must be at least 6 characters, must start with an alpha character, and may contain any of the following characters in the password: +, -, _, #, %

OS specific requirements:

- Windows 2008 R2 OS (64 bit)
- Log on as local administrator (not a Domain Administrator)
- PowerSchool 7.0 software download

- IP address(es) to be used for Database and Application Nodes

Security: (optional, unless setting up Records and Transcripts Exchange Functionality)

- SSL/TLS certificates
- SSL/TLS password (if set)

Server Array

- A Shared folder on your database for Network Share functionality

Note: Existing Server usernames, IP address(es), and hostname should not be changed after installation. These values are saved internally in Oracle and if changed may prevent Oracle from starting up correctly.

Required Information

You must gather the following information prior to installing PowerSchool 7.0:

- Database IP address

System Requirements

Prior to installing PowerSchool 7.0 be sure your network, workstations, and server meet the minimum requirements for PowerSchool 7.0 and PowerTeacher gradebook. Review the complete system requirements outlined in the PowerSchool Hardware and Software Requirements on PowerSource.

Go to <https://powersource.pearsonschoolsystems.com/> and navigate to Support > Documentation > PowerSchool Documentation > System Requirements. You will need a Username and Password to log in.

Mac Servers

Pearson no longer supports Mac servers. For more information, see the Knowledgebase article 60484 available on PowerSource.

Remote Desktop Support

When working with Pearson to troubleshoot an issue, or in the course of fulfilling a service related to the deployment, configuration, or implementation of PowerSchool, it may be necessary for Pearson to remotely access your PowerSchool server, or another computer.

Upon determining that remote control of your PowerSchool server or another computer is necessary, the Pearson representative will provide you with instructions on establishing a remote control connection via Bomgar.

Bomgar Requirements

You must be able to access the following sites from the computer requiring remote control access:

- <https://support-remote.pearsonschools.com>
- <https://implementation-remote.pearsonschools.com>
- <https://tsg-remote.pearsonschools.com>

You must also have physical or remote access to your PowerSchool server to accept/allow the Bomgar connection.

It is not necessary to pre-install any software to establish a Bomgar connection.

Email Information

The Oracle nightly backup job sends an Email notification to the address you specify during the Oracle backup process. Obtain the following information in order to configure the Email settings:

- SMTP server
- Email from address
- Email to address

Drives

Ensure your free drive space meets or exceeds the values described in the PowerSchool Hardware and Software Requirements on PowerSource.

Log on as Local Administrator

Verify with the system administrator that the account you log on to the computer with is a local administrator account and not a domain administrator account. Access to this computer must always be with this account should database maintenance need to be performed.

Verify Windows 2008 R2 SP1 Standard Edition or Higher Installed

PowerSchool and Oracle11g R2 are only supported on Windows Server 2008 R2 SP1 Standard Edition or higher.

No In-Place Upgrade from Windows Server 2003 or Windows Server 2008 to Windows Server 2008 R2

An in-place operating system upgrade from Windows Server 2003 or Windows Server 2008 with PowerSchool or Oracle installed to Windows Server 2008 R2 is not supported and will not work after upgrade.

In order to upgrade a system to Windows Server 2008 R2:

1. **Perform a full backup of the Oracle database and store the backup on an external system.** For more information, see the Oracle Database Backup and Restore Guide for PowerSchool available on PowerSource.
2. Uninstall Windows Server 2003 or Windows Server 2008.
3. Perform a new install of Windows Server 2008 R2 Standard Edition or higher. For more information, see the PowerSchool Hardware and Software Requirements available on PowerSource.
4. Perform a new install of Oracle and PowerSchool.
5. Import the Oracle 10g database to the new Oracle 11g installation.

Note: PowerSchool 7.0 utilizes a version of Java packaged with the application and will not conflict with any version of Java you wish to install independently on your server.

Note: After installing Windows 2008 R2, if PowerSchoolPremier or oracle folders are still present on a secondary drive or partition on the server for PowerSchool 7.0, those folders must be renamed to something other than "oracle" and "PowerSchoolPremier", such as "oracle_bck" and "PowerSchoolPremier_bck".

Multiple NIC Configuration

If you are using multiple Network Interface Cards (NIC), you need to set up the primary NIC in the Windows 2008 operating system. Use the following procedure to set up the NIC correctly:

1. Navigate to **Start > Control Panel**.
2. Select **Network and Internet**.
3. Select **Network and Sharing Center**.
4. Select **Change Adapter Settings.**
5. Select **Organize > Layout > Menu Bar**.
6. Select **Advanced > Advanced Settings.**
7. Select the **Adapters and Bindings** tab.
8. In the Connections box, use the arrow icons to set the NIC order.
9. Click **OK**.

Download PowerSchool Installation Files

Download the PowerSchool 7.0 installation files from **PowerSource > PowerSchool > Downloads**.

There are three installers included with this release:

Installer	File Name
PowerSchool Database	database-installer-win-amd64-[version].zip
PowerSchool Application	application-installer-win-amd64-[version].zip
Database Scripts Updater	jobs-installer-win-amd64-[version].zip

Extract the zip files on the server.

PowerSchool Database Installation

The database installer installs the Oracle 11gR2 software and creates an Oracle database.

Database Layout

During the installation process, you can determine the Oracle database and software layout by selecting different drives or volumes. You can select up to four drives during installation. The following tables display the distribution of the database files based on which drive or volume you select.

Note: If using more than one drive, make drive 2 the fastest accessed drive (if possible) as this is the data drive.

Drive	Distribution
Oracle Software Drive	Oracle Binaries C:\oracle\scripts\PSPRODDB\backup
PowerSchool Database Drive	PowerSchool data files Multiplex online redo logs and control files
Archive Log Drive	Archive log files
Flash Recovery Drive	Data pump directory Backups Redundant backups of critical files Backup of archive logs

Installation Log

The installer copies the needed files to the computer, and then performs a number of Oracle tasks. The tasks are written to a log file, which you can view while the installer is running:

[drive path]:\Program Files\PowerSchool\logs\tomcat-agent\agent.[CURRENT DATE].log

Note: The text file displays the status of the install when you opened the file using Notepad. To view updated information, close the file and reopen it.

Install the PowerSchool Database

The first step of the installation process is the PowerSchool Installation Setup Application. The first task the installer package performs is to prepare the server for the installation process. Necessary installation files are unpacked and stored on the server. Oracle is installed on your server during this process.

The Installation Setup application then launches the PowerSchool Installer. You will use the PowerSchool Installer to configure the PowerSchool database. The PowerSchool Installer provides you the opportunity to review and confirm your choices throughout the installation process:

- Click **Previous** to review or change an earlier entry. The PowerSchool Installer will retain the data you entered.
- Click **Confirm** to continue.
- Click **Cancel** at any time to stop the installation process.

For more information on the fields on each page in the PowerSchool Database Installer, see the respective field description table in the *Appendix*, or click on the page link in the procedure.

If you have previously installed PowerSchool 7.x, proceed to *Upgrade PowerSchool 7.x*.

If this is the first time you are installing PowerSchool 7.x, proceed to *How to Install the PowerSchool Database*.

How to Install the PowerSchool Database

Database Installer Setup

1. Download the database installer to the server desktop.
2. Double-click **PowerSchoolDatabaseInstallerSetup.exe** file.
The User Account Control dialog appears.
3. Click **Yes** to authorize the installation to make changes to the computer. The Pearson License Agreement dialog appears.
4. Review the license agreement and click **Accept**. The Apache License Agreement dialog appears.
5. Review the license agreement and click **Accept**. The Common Development and Deployment License appears.
6. Review the license agreement and click **Accept**. The PowerSchool Database Installer Setup verification dialog appears.
7. Select the drive on which to install the PowerSchool Installer and the PowerSchool instance from the pop-up menu and click **Continue**. The PowerSchool Database Installer Setup dialog appears.
8. Click **Continue**.

The PowerSchool database files and the PowerSchool Installer files are distributed into the folder structure you selected.

The Database Installer Setup application will report that it has completed with no errors if this process is successful. If any errors are encountered during the process they will be reported near the bottom of the listing.

- Click the **Continue** button to launch the PowerSchool Installer web application in your default web browser.

The PowerSchool Installer web application launches in your default web browser after the installer setup is complete. If the PowerSchool Installer does not automatically launch, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**, and the PowerSchool Installer launches in your default web browser.

The screenshot shows the PowerSchool Installer web application interface. The title bar reads "PowerSchool Installer" with the subtitle "Manage Your PowerSchool Deployment". The breadcrumb trail is "Start Page > Installing PowerSchool Database". A left-hand navigation menu includes "Drives/Memory/IP" (selected), "Database Security/SID", "Confirmation", "Install", and "Summary". The main content area is titled "Drives, Memory and IP Address" and contains the following configuration options:

- Refer to the PowerSchool Hardware Requirements Guide available on PowerSource to estimate the amount of free hard drive space required for your PowerSchool Database.
- Oracle Software Drive (4 GB free space required): C:\ (88.55 GB Free)
- PowerSchool Database Drive (7 GB free space required): C:\ (88.55 GB Free)
- Archive Log Drive (4 GB free space required): C:\ (88.55 GB Free)
- Flash Recovery Drive (1 GB free space required): C:\ (88.55 GB Free)
- Amount of memory to dedicate to this database (in MB): 2560
- IP Address to assign to this database: 10.40.227.164

Buttons for "Cancel" and "Next" are located at the bottom right of the configuration area.

Database Installation

- On the **Drives, Memory and IP Address Page**, select the applicable database drive(s) for your environment. Verify the memory setting is correct for your setup and that the correct IP address for the database server is displayed, then click **Next**.
- On the **Database Security/SID Page**, enter the Oracle passwords for the PS, PSNavigator and Dataminer accounts, and modify the Oracle database SID if appropriate. Note that the Windows account used to administer Oracle is documented at the bottom. The default SID is generally satisfactory, and you do not need to change the SID value unless you are an experienced user. By default, Oracle provides DBA privileges to the currently logged in account. Click **Next** when you are finished entering data.
- On the Database Installer Confirmation page, click **Confirm** to install the database. The Database Installer Summary page appears.
- On the Database Summary page, review any additional messages and click **Done** to complete the database installation. The PowerSchool database is successfully installed. The installation process performs the following sub-tasks:

- Installs Oracle components to drives based on the Database Layout table listed previously
 - Creates Oracle Services:
 - OracleDBConsolePSPRODDB, OracleJobSchedulerPSPRODDB, OracleOraDb10g_home1TNSListener, OracleService PSPRODDB, Oracle PSPRODDB VSS Writer Service, OracleMTSRecoveryService, and OracleOraDb11gClrAgent
 - Installs data management scripts
14. On the Database Summary page, click **Done**. The **Configure Server page** appears.
15. Close the PowerSchool Installer and restart the server.
Note: You must now restart the server to complete the Oracle installation.

After the server restarts:

16. Copy the following files to the server intended for 7.0 in the file paths indicated:

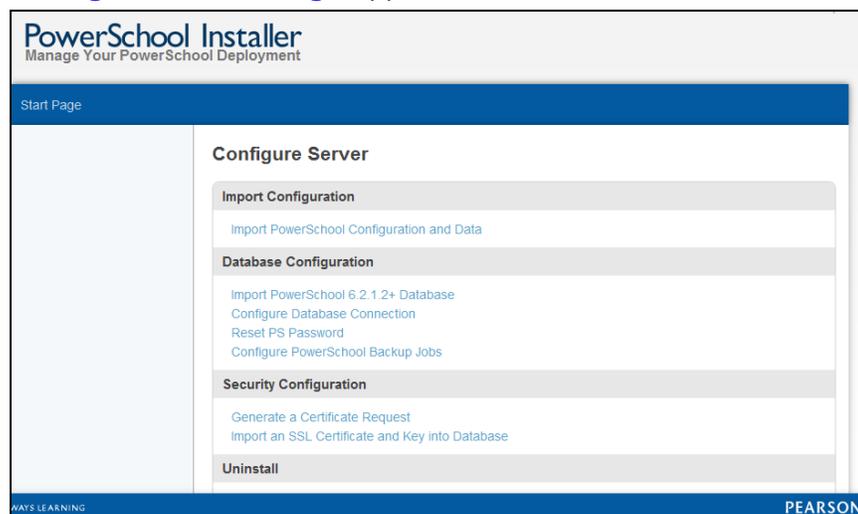
[drive]:\oradata\[SID]\data_pump_dir\PS6X_10G_DMP
 [drive]:\oracle\scripts\CHECK_DB_OBJECTS.SQL

Note: These files were created during the **Power Down PowerSchool 6.2.1.2** process.

17. Copy the PowerSchool data folder from the external drive to the server intended for 7.0 in the following path:

[drive]\Program Files\PowerSchool\import

18. Ensure any SSL certificates are in a location that can be accessed through the file system of the server intended for 7.0. Copy or move them as necessary.
19. On the 7.0 server, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**. The PowerSchool Installer launches and the **Configure Server Page** appears.



20. Click on **Import PowerSchool 6.2.1.2+ Database**. The Review PowerSchool 6.2.1.2+ Export and Check Files page appears.

21. Verify the import files listed on the page, and then click **Next**. The [Server-Specific Settings page](#) appears.
22. Select the checkbox to clear the server-specific settings in the data file upon import. Click **Next**. The Confirmation page appears.
Note: This item will clean 6.x environment settings from your database during the import process. It is recommended to check unless you are running a server array environment that will have the same hostnames and IP addresses as your PowerSchool 6.x environment.
23. Click **Confirm**. The import process proceeds.
24. When completed, click the **Start Page** link in the upper left corner. The [Configure Server page](#) appears.
25. Click **Configure PowerSchool Backup Jobs**. The [Configure PowerSchool Backup Jobs page](#) appears.
26. Enter information in the fields and click **Next**.
27. A Confirmation page appears. Click **Confirm**. The PowerSchool Backup Jobs begin. This process may take some time to complete.
28. The Configure Server page appears after the backup jobs are installed. The PowerSchool Database is successfully configured.
29. Close the PowerSchool Installer and proceed to the *Update the PowerSchool Database* section of this guide.

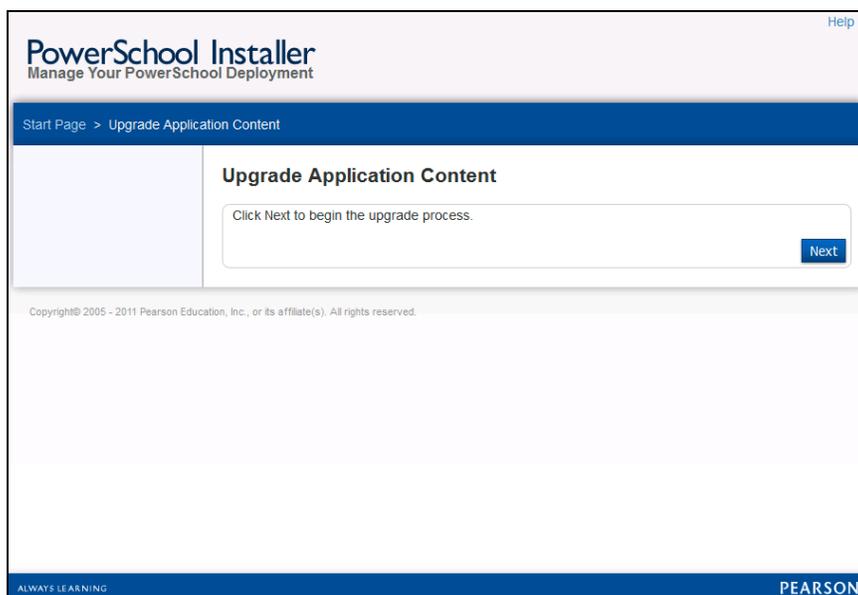
Update the PowerSchool Database

All fixes and updates to the Database Installer are included in the Database Scripts Updater. For all new PowerSchool 7.x installations, you must run the Database Scripts Updater before proceeding to the PowerSchool Application Installer.

If you are upgrading from a previous version of PowerSchool 7.x, proceed to *Upgrade PowerSchool 7.x*.

Note: The PowerSchool database will stop and start automatically during this process. The update script can take up to 30 minutes to complete.

1. Download the **Database Scripts Updater** from PowerSource to the PowerSchool Database server desktop and extract the file.
2. Double-click **PowerSchoolDatabaseJobsSetup.exe** file. The User Account Control dialog appears.
3. Click **Yes** to authorize the installation to make changes to the computer. The Pearson License Agreement dialog appears.
4. Review the license agreement and click **Accept**. The Apache License Agreement dialog appears.
5. Review the license agreement and click **Accept**. The Common Development and Deployment License appears.
6. Review the license agreement and click **Accept**. The PowerSchool Database Jobs Setup verification dialog appears.
7. Click **Continue**. The PowerSchool Database Installer Setup dialog appears.
8. Click the **Continue** button to launch the PowerSchool Installer web application in your default web browser. The Upgrade Application Content page appears.



9. Click **Next**. The Confirmation page appears. The applications currently installed are listed on the page.

10. Click **Confirm**. The upgrade installation proceeds.
11. On the Database Summary page, click **Done**. The **Configure Server page** appears. The database scripts update is now complete. Proceed to *Install the PowerSchool Application*.

Install the PowerSchool Application

The next step in the installation process is to install the PowerSchool application. If this is a single server installation, the PowerSchool application will be installed on the database server. If this is an array setup, the application will be installed on separate dedicated servers.

The PowerSchool Installation Setup Application runs again to prepare the server for the application installation and load the required files on the server.

The Installation Setup application then launches the Installer. You will use the Installer to configure the PowerSchool application. You can click the **Previous** button at any time to review or alter earlier choices. You may also rerun the Installer later to change options.

For more information on the fields on each page in the PowerSchool Database Installer, see the respective field description table in the *Appendix*, or click on the page link in the procedure.

For more information on the fields on each page in the PowerSchool Application Installer, see the respective field description table in the *Appendix*, or click on the page link in the procedure.

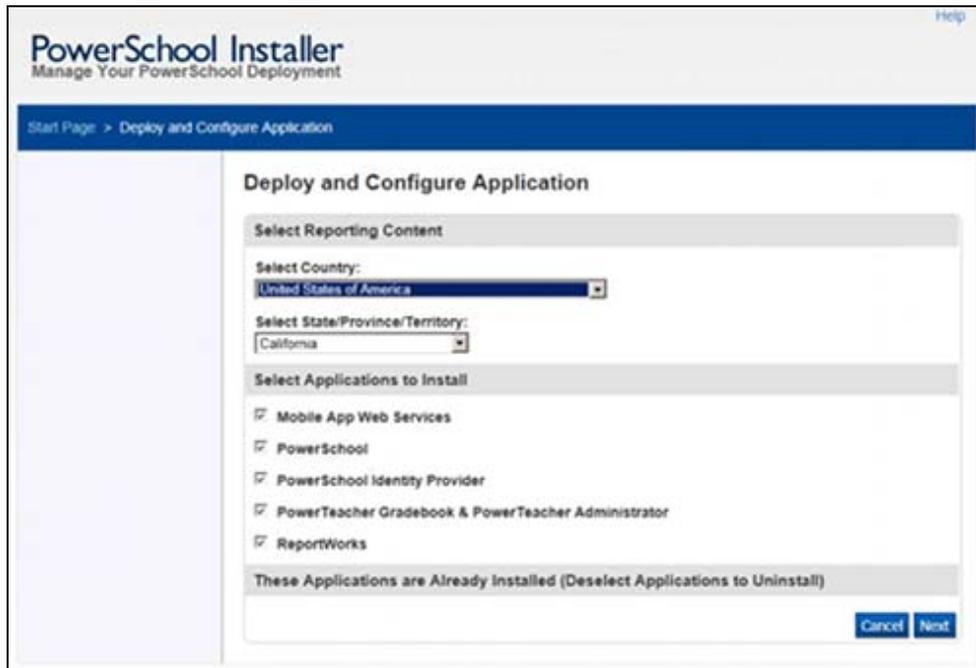
How to Install the PowerSchool Application

Note: In a server array environment, begin the PowerSchool Application Installer workflow starting on the Task Master node and then move on to each node.

Application Installer Setup

1. Download the application installer to the PowerSchool Application server desktop.
2. Double-click **PowerSchoolApplicationInstallerSetup.exe** file. The User Account Control dialog appears.
3. Click **Yes** to authorize the installation to make changes to the computer. The Pearson License Agreement dialog appears.
4. Review the license agreement and click **Accept**. The Apache License Agreement dialog appears.
5. Review the license agreement and click **Accept**. The Common Development and Deployment License appears.
6. Review the license agreement and click **Accept**. The PowerSchool Application Installer Setup verification dialog appears.
7. If necessary, select the drive on which to install the application from the pop-up menu and click **Continue**. The PowerSchool Application Installer Setup dialog appears.
8. Click **Continue**. The PowerSchool application files and the PowerSchool Installer files are distributed and the PowerSchool Installer Web application launches in your default browser.

Note: If the PowerSchool Installer does not automatically launch, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**. The PowerSchool Installer launches in your default web browser.



Application Installation

9. On the [Deploy and Configure Application page](#), select the applicable country, state, and applications to install, then click **Next**. The Create PowerSchool Monitor Shortcut page appears.

Note: The PowerSchool Installer workflow is dependent on the applications you choose to install. Some of the pages and fields described in this procedure may not display.
10. Select the checkbox to add the PowerSchool Monitor shortcut to the Windows Start folder, then click **Next**. The [Database Connection Page](#) appears.
11. Enter applicable database connection information, then click **Next**. The [Configure Application Instance Page](#) appears. Select the applicable options for this installation. For more information, see the *Server Array Configuration* section.
12. Click **Next**. The [Map Network Drives page](#) appears.
13. Enter the applicable drive mapping information, then click **Next**. The Import an SSL Certificate and Key into Database page appears.

Note: If you are setting up a server array, your Network Share must be configured here and the **Use this drive for data folder** must be set to continue.
14. Enter and select the applicable SSL options, then click **Next**. The [Configure ReportWorks Service Network Settings Page](#) appears.
15. Select and enter the applicable ReportWorks settings, then click **Next**. The [Configure ReportWorks Services Memory Settings Page](#) appears.
16. Enter values in the fields provided, then click **Next**. The [Configure PowerSchool/PowerTeacher Service Network Settings Page](#) appears.

17. Select and enter the applicable PowerSchool/PowerTeacher settings, then click **Next**. The [Configure PowerSchool/PowerTeacher Service Memory Settings Page](#) appears.
18. Enter values in the fields provided, then click **Next**. The Confirmation page appears.
19. Review the list of applications to be installed. The items that appear on this page are dependent on the selections you made during the installation and configuration process. Click **Previous** to review the information entered. Click **Confirm** to install the applications. Click **Cancel** to stop the installation. The progress bar and status messages appear.
20. On the installation Summary page, review any additional messages and click **Done** to complete the application installation.

The PowerSchool and ReportWorks services will be started by default. You may need to restart the PowerSchool service multiple times for it to complete all of the schema updates. The PowerSchool application installation is now complete.

Note: If the IP addresses displayed do not appear to be correct, be sure you have set up the NIC correctly. For more information, see [Multiple NIC Configuration](#) in the Preinstall Checklist section.

How to Migrate a PowerSchool Data Folder Exported from 6.2.1.2

These instructions apply to non server-array environments. In a server array your data folder should be placed on a network share on your database server. Follow the Server Array Configuration section for instructions on setting up the network share and configuring the application servers.

1. Copy the PowerSchool data folder from the external drive to the server intended for 7.0 in the following path:
[drive]\Program Files\PowerSchool\import
2. On the 7.0 server, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**. The PowerSchool Installer launches and the Configure Server page appears.
3. Click **Import PowerSchool Configuration and Data**. The Database Connection page appears.
4. Confirm your Database settings and click **Next**. The [Import PowerSchool 6.2.1.2+ Data Folders](#) page appears.
5. The data folder list will populate with any data folders or zip files found in your [drive]\Program Files\PowerSchool\import folder. Select the correct folder/zipfile and click **Next**. The Confirmation page appears
6. On the Confirmation page, review any additional messages and click **Confirm** to complete the application installation. The PowerSchool services are restarted during this operation. The configuration of your PowerSchool 6.2.1.2 data is complete.

Schools Interoperability Framework (SIF) Special Instructions

Customers using SIF must do one additional step after installing or upgrading PowerSchool 7.x. The powerschool-events-adapter-sif-outgoing.jar file must be added to the following directory in order for PowerSchool to start:

ProgramFiles\PowerSchool\application\components\powerschool-core-[version number]\WEB-INF\lib\bundles\ext

Once the .jar file is in place after the PowerSchool installation, restart PowerSchool, and then proceed with the normal PowerSchool startup.

The latest version of the SIF adapter jar file is available for download from the Pearson Data Solutions (formerly Edustructures) website at <http://www.pearsondatasolutions.com>.

PowerSchool Monitor

PowerSchool Monitor is a stand-alone application that resides on the host server. Using PowerSchool Monitor, you can monitor the state of the PowerSchool and ReportWorks services with the information provided by the various logs and also address items that require attention.

A shortcut is created in the Program Files\PowerSchool\ folder during the PowerSchool Applications installation process.

The Status tab displays the health of any monitored Tomcat service. The service is considered up if it can serve pages, down if it can't make network contact, and transitional if it is somewhere in-between.

The Tomcat services are started at the end of the installation process. You can use the PowerSchool Monitor to see how the startup process is progressing.

During the initial startup of the services a number of schema and reports updates may need to be made. This can take some time to complete and you may need to restart the PowerSchool service more than once in order for all of the updates to complete.

A 503 error is normal during the startup process when using the PowerSchool URL. Watch the PowerSchool Monitor to view the process of the update. Initial startup time is dependent on the size of the database.

If the PowerSchool service status indicator turns red at any point you should check the PS-runtime log to see if the logging has been stopped. This can occur if the schema updates need for the service to be restarted. Restart the service using the services application. The PowerSchool service may show that it is still running so you will have to stop and then restart the service. After the service starts you will see more information displayed in the log tab of the PowerSchool Monitor. After a short while the status indicator for the service should turn green to show that it is ready to serve web pages.

How to Monitor Installation Status

1. Double-click the **PowerSchool Monitor** shortcut.
2. Click the **Status** tab. The Status page displays the following information for each Tomcat service:

Field	Description
[Tomcat Service]	<p>If this checkbox is selected, the Tomcat service is being monitored.</p> <p>If this checkbox is not selected, the Tomcat service is not being monitored.</p> <p>The dot indicates the status of the connection and indicates the last date and time the health of the system was checked:</p> <ul style="list-style-type: none">• Green: Indicates the system is up and serving pages.• Yellow: Indicates that the system is either coming up or going down.• Red: Indicates that the system is down and cannot make network contact.• Gray: Indicates that the system is not being monitored.

Upgrade PowerSchool 7.x

Upgrade an existing PowerSchool 7.x installation using the PowerSchool Installer.

In a server array configuration, run both the PowerSchool Application Installer and the Database Scripts Updater on the applicable nodes.

Note: Stopping of services should be done through the PowerSchool Installer, not through Windows Services, to ensure a successful upgrade of PowerSchool.

Note: The PowerSchool database will stop and start automatically during this process. The update script can take up to 30 minutes to complete.

1. On the application server, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html** to open the PowerSchool Installer.
2. On the Configure Server Page, click **Stop PowerSchool/PowerTeacher Services**. On the Confirmation page, click **Confirm**. PowerSchool/PowerTeacher Services are stopped.
3. On the Configure Server Page, click Stop ReportWorks Services. On the Confirmation page, click **Confirm**. ReportWorks services are stopped.
4. Download the **Database Scripts Updater** from PowerSource to the PowerSchool Database server desktop and extract the file.
5. Double-click **PowerSchoolDatabaseJobsSetup.exe** file. The User Account Control dialog appears.
6. Click **Yes** to authorize the installation to make changes to the computer. The Pearson License Agreement dialog appears.
7. Review the license agreement and click **Accept**. The Apache License Agreement dialog appears.
8. Review the license agreement and click **Accept**. The Common Development and Deployment License appears.
9. Review the license agreement and click **Accept**. The PowerSchool Database Jobs Setup verification dialog appears.
10. Click **Continue**. The PowerSchool Database Installer Setup dialog appears.
11. Click the **Continue** button to launch the PowerSchool Installer web application in your default web browser. The Upgrade Application Content page appears.
12. Click **Next**. The Confirmation page appears. The applications currently installed are listed on the page.
13. Click **Confirm**. The upgrade installation proceeds.
14. On the Database Summary page, click **Done**. The **Configure Server page** appears. The database scripts update is now complete.
15. Close the PowerSchool Installer.
16. Download the **PowerSchool Application Installer** from PowerSource to the PowerSchool Application server desktop and extract the file. Double-click **PowerSchoolApplicationInstallerSetup.exe** file. The User Account Control dialog appears.

Note: In a server array environment, begin the PowerSchool Application Installer workflow starting on the Task Master node and then move on to each node.

17. Click **Yes** to authorize the installation to make changes to the computer. The Pearson License Agreement dialog appears.
18. Review the license agreement and click **Accept**. The Apache License Agreement dialog appears.
19. Review the license agreement and click **Accept**. The Common Development and Deployment License appears.
20. Review the license agreement and click **Accept**. The PowerSchool Application Installer Setup verification dialog appears.
21. Click **Continue**. The PowerSchool Application Installer Setup dialog appears.
22. Click **Continue**. The PowerSchool application files and the PowerSchool Installer files are distributed and the PowerSchool Installer Web application launches in your default browser.

Note: If the PowerSchool Installer does not automatically launch, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**. The PowerSchool Installer launches in your default web browser.

23. The application installer proceeds through the upgrade installation workflow. For more information on each step of the workflow, see *Application Installation*. You can make changes to existing application settings, or leave the existing settings intact.
24. On the Confirmation page, review the list of applications to be installed/updated. The items that appear on this page are dependent on the selections you made during the installation and configuration process. Click **Previous** to review the information entered. Click **Confirm** to install the applications. Click **Cancel** to stop the installation. The progress bar and status messages appear.
25. On the installation Summary page, review any additional messages and click **Done** to complete the application installation.

The PowerSchool and ReportWorks services will be started by default. You may need to restart the PowerSchool service multiple times for it to complete all of the schema updates. The PowerSchool application installation is now complete.

Note: Customers using SIF must add the SIF adapter .jar file to a specified directory to complete the upgrade. For more information, see the *Schools Interoperability Framework (SIF) Special Instructions* section of this guide.

Uninstall PowerSchool

Uninstall PowerSchool from the PowerSchool Installer application.

How to Uninstall PowerSchool Database

1. On the PowerSchool server, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**. The PowerSchool Installer launches and the Configure Server page appears.
2. Click **Uninstall PowerSchool Database**. The Removing PowerSchool Database Confirmation page appears.
3. Review the list of applications in the Removing Applications section. Click **Confirm** to uninstall the applications. Click **Cancel** to stop the uninstall process.
4. When the process is completed, restart the server.
5. When the server has restarted, delete the **\oracle** directory.

How to Uninstall PowerSchool Applications

1. On the PowerSchool server, navigate to **Program Files > PowerSchool** and double-click **PowerSchool Installer.html**. The PowerSchool Installer launches and the Configure Server page appears.
2. Click **Deploy and Configure Application**. The **Deploy and Configure Applications page** appears.
3. Under the These Applications are Already Installed (Deselect to Uninstall) heading, a list of installed applications appears. Deselect the checkbox next to any or all applications you want to remove.
4. Click **Next**. A confirmation page appears.
5. Click **Confirm**.
6. To remove the PowerSchool Installer files:
 - Stop the PowerSchool Installer Tomcat service and exit from the Windows Services window.
 - Delete the service by right-clicking on the command prompt and selecting **Run as Administrator**.
 - Enter **sc delete PowerSchoolInstaller**.
 - Close the command prompt.
 - Delete the **\PowerSchool** folder on the server.

Server Array Configuration

About Server Array

PowerSchool Server Array is designed around a distributed network of PowerSchool servers. This architecture allows PowerSchool to dynamically scale for larger school districts while maintaining flexibility and performance.

There is currently no technical limit to the number of application nodes PowerSchool Server Array can support. PowerSchool Server Array has been deployed successfully in configurations of two to fourteen application nodes.

Enable Server Array

Enable the server array with specific settings on the server and through the PowerSchool Installer and specific pages in PowerSchool.

Database Server Settings

Ensure that file sharing is enabled on the database server. Consult your operating system documentation for further information.

Windows Server 2008 R2 SP1

On Windows Server 2008 R2 SP1, the Windows firewall is enabled by default. If you leave it enabled, ensure that the following ports are open on the network interface which connects to the application nodes:

- UDP 6112
- Port for PowerSchool and PowerTeacher Gradebook (80 or 443 by default)
- Port for ReportWorks (7980 or 8443 by default)
- Port for Record and Transcript Exchange (5443 by default)
- Port 2000 for PowerScheduler.
- TCP 1521

AutoComm and AutoSend Setup

On a standard installation of PowerSchool, there is one application node and one database that reside on the same machine. AutoComm and AutoSend jobs on this configuration are able to import and export a file from any location on the machine. On a PowerSchool Server Array configuration on the other hand, many application nodes share a common database. In order for the AutoComm and AutoSend file to be located from any application node, the file must reside in a directory accessible to all nodes.

If the AutoComm and AutoSend jobs are not written to the PowerSchool folder structure, be sure to grant permissions to the PowerSchool operating system user for the applicable folder.

Server Array Preferences

General PowerSchool Server Array preferences are configured on the PowerSchool Server Array Preferences page:

Start Page > System Administrator > System Settings > Server Array Settings > Server Array Preferences.

There is one required preference:

Field	Description
UDP Messaging Port	UDP is a connectionless protocol that allows a host computer to send messages without establishing a connection with the recipient. The default UDP port is 6112 and the range for port values is 1024-65535. Enter a port number for PowerSchool to listen for UDP messages. It is recommended that the default value 6112 be used.

Server List

The following settings must be configured for each application node. PowerSchool application nodes are configured on the PowerSchool Server List page:

Start Page > System Administrator > System Settings > PowerSchool Server Array Settings > Server List. Select a server from the list.

Notes:

- Completely configure the task master node first before bringing other nodes up one at a time. Configure each node completely before bringing up other nodes.
- You may need to restart PowerSchool in order for all settings to take effect.

Field	Description	Value
General Server Settings		
Most of the General Server Settings are items detected and set by PowerSchool upon startup of the application node to provide statistical or other information. Only the User Supplied Name and Description fields can be modified.		
ID	Node ID assigned for the application node.	This is a unique value assigned by PowerSchool the first time the application server joins the Server Array. The ID cannot be modified.
User Supplied Name	A unique name supplied by the administrator for identification of the application node.	Enter a unique name to identify this server. This value is not required but can make tracking servers in a PowerSchool Server Array easier.
Host Name	The local Host Name of the	PowerSchool detects and sets this value automatically during startup. If

Field	Description	Value
	application node.	the DNS name cannot be resolved, this value will be the same as the Host IP.
Host IP	The local IP address of the application node.	PowerSchool sets this value during startup.
Server State	The current state of the application node.	The server state will be one of the following values: Running, Starting Up, or Not Running. PowerSchool detects the state of the application server automatically.
Last Ping	The date and time the application node last checked the state of the database.	PowerSchool sets the last ping date and time automatically.
Version Number	Current version of PowerSchool running on the application node.	All running application nodes must be using the same version of PowerSchool. PowerSchool detects and sets this value automatically during startup.
Platform/OS	Operating System in which the application node is running.	PowerSchool detects and sets this value automatically during startup.
Description	A user-supplied description of the application node.	This is similar to the User Supplied Name, but can contain a longer description to further identify the application node. Enter a unique description to identify this server. This value is not required but can make tracking servers in a PowerSchool Server Array easier.
Server Role Settings		
Run the Task Master on this server	This field indicates which application node is the Task Master. The Task Master schedules tasks and performs database version updates when a new version of PowerSchool is installed.	Select the checkbox on only one application node. Only one application node can be defined as the Task Master.
Run a Report Queue on this server	Selecting this box indicates that this application node will run a Report Queue.	Select this checkbox on any or all of the application nodes. Any or all application nodes can be set to run a Report Queue. For application nodes not specified as a report node,

Field	Description	Value
		deselect the checkbox.
My Report Queue (processes this server's report jobs)	Indicates which application node handles this server's report jobs. Selecting "(this server)" indicates that reports are queued on this application node otherwise the report jobs will be queued on the server selected.	Choose the application node address from the popup menu to indicate that the report queue for which to delegate report jobs or select "(this server)" for jobs to execute on the same application node.
Run Web Server (not required for Report Queue or Comm Server)	Selecting this box indicates that this application node will run a Web Server. A Web Server handles web browser connections.	Select the checkbox on all application nodes. All application nodes must be set to run a Web Server. Deselect this checkbox on a report node.
Web Server Image URL Handling <p>For performance increases, at minimum a non-secure listen should be configured to serve images. Serving images over a secure listen causes performance slowdowns. To further increase performance, a separate image server can be setup. For districts with an active student count over 3,000, a separate image server is recommended. For districts with an active student count over 7000, a separate image server is required. The image server settings page has been removed, and the fields are now located on the system settings page. No other changes have been made to the image server behavior or setup.</p>		
Use Image Server	Enable/disable use of an image server	Check the box to enable/disable use of an image server.
Image Server Address	Enter the IP Address or DNS Name of the server to render images. This value should include http:// and should not contain a trailing slash. For example, http://[external host name].	For example, http://[external host name].
Use mixed content for SSL	Indicates that a non-secure port is to be used to render images. Note: A non-secure port must be configured in order to apply this functionality.	Leave this checkbox deselected.

Global Server Settings

Consult the *System Administrator User Guide for PowerSchool 7.x* available on PowerSource, or the PowerSchool Online Help, for information on configuring the Global Server Settings.

Network Share

The PowerSchool Server Array configuration requires that several network share folders must be created. The network shares are links to specific mounted folders on attached volumes such as a network volume. The network share folders store custom web pages, student and faculty photos, scheduling engine files, batch result files, AutoComm and AutoSend files, SAIS reporting, and ReportWorks report output.

The required network share folders are to be hosted on the database server. The data folders should have already been created in the PowerSchool Installer on the Map Network Drives page.

The following folders need to exist on the Network Share:

- custom
- external\autocomm
- external\autosend
- external\SAIS (if Arizona)
- external\EIS (if Tennessee)
- external\powerschedule\staging
- external\scheduler\staging
- picture
- report\queue

Note: If you copied your Network Share from your previous installation of PowerSchool 6.x, you can utilize these folders for PowerSchool 7.0.

Task Master Role

The Task Master has two primary functions: start up PowerSchool and nightly database tasks. During startup, the Task Master ensures that all nodes are running the same version of PowerSchool. It detects and prevents a node from attempting to launch a different version than its own.

Note: Any node can be assigned the Task Master role, as long as the node meets the minimum requirements for the computer. The Task Master node must always be running prior to launching any other application nodes.

Assign the Task Master to a node on the [Configure Application Instance page](#) in PowerSchool Installer, or on the Server List page in PowerSchool.

Working with PowerSchool on the Application Nodes

It is critical to launch the task master first whenever an upgrade is being performed. Wait for the upgrade to complete before starting the remaining nodes.

How to Launch PowerSchool on the Application Nodes

1. Go to the Task Master node.
2. Launch PowerSchool and wait until startup is complete. This can be viewed from the PowerSchool Monitor.
3. Repeat for the other application nodes.

Note: It is NOT required to launch PowerSchool on a node running the PowerTeacher gradebook application. It IS required that the PowerSchool Application Installer be run on all application nodes, including PowerTeacher gradebook nodes during each upgrade cycle.

How to Upgrade PowerSchool on the Application Nodes

1. Shutdown PowerSchool on all nodes.
2. Upgrade PowerSchool on the task master node via the PowerSchool Installer.
3. Launch PowerSchool on the task master node and wait until startup is complete. This can be viewed from the PowerSchool Monitor.
4. Upgrade PowerSchool on all other nodes one at a time waiting for startup to complete between each upgrade..

Image Server Setup

About Image Server

An image server is just what its name implies: a computer with the sole or primary task of sending image files to remote hosts. Image servers are used to spread the operational burden of Web servers, optimizing available network bandwidth, storage space, and processing power. The PowerSchool image server also serves JavaScript and CSS (Cascading Style Sheet) files in the PowerSchool scripts directory.

Why Set Up a PowerSchool Image Server?

Your PowerSchool server routinely serves up thousands of static image, JavaScript, and CSS files each day to users during the course of business, in addition to storing and retrieving data, organizing and formatting information for reports, and performing complex calculations on user demand. In large school environments, particularly when students and parent access is enabled, the operational load on the Web server can negatively impact user experience.

Setting up an image server eases the burden on your production database server by handling all the requests for the many static files that are used by PowerSchool, improving overall speed and performance. Essentially, an image server is a load-balancing mechanism. Because the PowerSchool application itself does not process the static file requests, performance can be improved even if the image server is set up on the same physical machine.

Image Server Configuration

PowerSchool does not directly support the installation and/or configuration of the Web server. If any issues with the installation or configuration of the Web server arise, contact the respective software provider of the Web server. Refer to the operating system instructions for how to set up a web server.

Enable Image Server

Enable the image server on the Configure Application Instance page of the PowerSchool Installer.

Copy PowerSchool Images and Scripts

Once you have installed and configured your Web server, the next step in the Image Server Setup process is to copy the PowerSchool images and scripts directories to the Web server root. You must copy these files after each upgrade of PowerSchool.

- All files in images directories must be copied to the images folder on the image server

- All files in the scripts directories need to be copied into the scripts folder on the image server.

How to Copy PowerSchool Images to the Web Server Root

1. Navigate to the root folder of the Web service created on the server, such as **Program Files > Apache > [Apache folder/htdocs]**.
2. Create a new folder in the Web server root folder named **psimages**.
3. Navigate to the PowerSchool folder (**Program Files\PowerSchool**).
4. Within the PowerSchool folder, navigate to **applications\components\powerschool_core_[version]\system\server\resources\web_root**.
Note: If PowerSchool is not installed on this server, copy the folder from a server with PowerSchool installed.
5. Copy the entire **images** and **scripts** directories from the Web server root folder to the psimages folder.

Test Image Server Images

After you have installed and configured your Web server and copied the PowerSchool images to the Web server root, the next step in the Image Server Setup process is to test the image server.

How to Test Image Server Images

1. Open a Web browser on the machine on which you installed and configured the image server.
2. Enter the local IP address of the machine, the image server port number, and the path, such as:
`http://192.168.1.100:5071/psimages/images/btn_go.gif`
3. Locate the Lookup Icon in the Web browser. If you do not see the image, you will need to troubleshoot the Web server configuration.
4. Change the local IP address in the URL to your fully qualified domain name and the port number and path to the image, such as:
`http://powerschool.yourserver.k12.us:5071/psimages/images/btn_go.gif`
5. Click **Go** or press **Enter**.
6. Verify that the same image appears. If not, you will need to troubleshoot why your domain name is not resolving internally.
7. Find a machine that is outside the district's network and enter the fully qualified domain name, port number, and path to an image, such as:
`http://powerschool.yourserver.k12.us:5071/psimages/images/btn_go.gif`
8. Verify that the same image appears. If not, you will need to troubleshoot why your domain name is not resolving externally.

Note: If the image is not visible outside of the network, remember to check the firewall settings and verify that the image server port is open.

If the image is visible outside of the network, the image server is configured and you can now configure PowerSchool to use the image server.

SSL Configuration

About SSL Configuration

The Secure Socket Layer (SSL) securely transmits student data between web browsers, PowerTeacher, and your PowerSchool server. The data is secured using industry-standard SSL, which is transparent to the user, automatically switching to a secure connection when SSL is enabled.

Before implementing SSL, you must purchase a SSL certificate from a certificate authority. This certificate authenticates the server with the user, as well as manages the security of the transmitted data.

SSL Concepts

The Secure Socket Layer, or SSL, is an encryption and security scheme that protects transmitted information from being read by unauthorized parties. Hypertext Transfer Protocol (HTTP) communications (information sent to and from web servers) is normally sent as plain text, which any third party can read if the communication is intercepted. The SSL scheme encrypts communication from the Internet so that intercepted messages are unreadable. Authorized users, however, can decrypt these “scrambled” messages. The SSL process does not require action on the part of the non-administrative user.

Certificate Authority

A Certificate Authority (CA) is a vendor that creates, sells, and authenticates SSL certificates. When purchasing a certificate, select a Certificate Authority with an established record of security and reliability. There are several vendors to choose from, including:

Note: This is not a comprehensive list of Certificate Authorities.

- Thawte (<http://www.thawte.com>)
- GeoTrust (<http://www.geotrust.com>)
- VeriSign (<http://www.verisign.com>)
- GoDaddy (<http://www.godaddy.com>)
- ipsCA (<http://certs.ipsCA.com>)

Note: ipsCA offers discounts to education institutions.

Certificate Signed Request (CSR)

A Certificate Signed Request file is used by a Certificate Authority (CA) to generate a unique digital security certificate. Based on information that identifies your server, such as your geographical location, school name, and server's hostname or IP address, a unique text string is created and sent to the Certificate Authority.

Sample CSR

```

-----BEGIN CERTIFICATE REQUEST-----
BIIIB8jCCAIVsCAQAwgbExCzAIBgNVBAYTAIVTMRMwEQYDVQQIEwpDYWxpZmH
bmlhMQ8wDQYDVQQHEwZGbzxb20xZDASBgNVBAoTC1hAiLb0B48ob29sMua
wHgYDVQQLEXd23WNobmljYWwgRG9jdW11jyTRgDwqCVt1UEAxMTd3d3Lnsi
d2Vyc2Nob29sL3laIa/CthUIHuFtaGnMCQGCSqGSIb1337h4x0rd00dFuhl
Fsc0Bwb3dlcnNjaG9vbC5jb20wgZ8IDQYJKoZIhvcNAQEBBQADgY0AMIGSE
GBAMDHwfCtst01iVTth0QMPDjgebXv2tHCjmVAXlxN4aboEp86jOsazcMur
iFv7Dv/w7SspXUKC7v0Q6i00nZhPSEy6x9iS42Vm37dxqAz1FB+Jn72vGci
RcxMW0m9vURHIOP9KDq5fUQf8ytYyvZtZV03cZqeeKnymqxxvzY/crH3fXks
MBA23gADANBgkqhkiG9w0BAQQFAAOBgQBENmpmEPKzKBn/rLI5I1G2BM8s/
YbVPn7JfrDcPAQLfGleQFS/j+7bjjFkSNr7gJFQhv7Cz3/Fnord/+jxh/7h
yfhS80F9ICuBEloDYtE7Eo1qypVlsXXVsrB6JYjSsB9MrbCBKEwXp5YVcZt
e/YA8OURw4ra/dDUssGzSLTnZ3Bg==
-----END CERTIFICATE REQUEST-----

```

Private Key

A private SSL key allows the PowerSchool server to decrypt messages when users accessing PowerSchool use the public key from the SSL certificate. A private key is generated at the same time as the CSR.

If you choose to encrypt your private key, the encryption password must be used when you enable SSL.

SSL Certificate

The SSL certificate is a file that identifies your organization and PowerSchool server, and contains a unique public encryption key to allow remote users to encrypt traffic to your server. SSL certificates are authenticated against another certificate maintained by the issuing Certificate Authority. SSL certificates must be purchased from a Certificate Authority.

Note: PowerSchool supports SSL v2, v3, and Transport Layer Security (TLS) v1. Only fully authenticated, SSL certificates are supported.

PowerSchool does not support 40-bit, wildcard, or other special certificate types. Purchased certificates are only valid for a specified period of time, usually measured in years, and defined at the time of purchase. If a certificate expires, and is not renewed, SSL will cease to function.

Intermediate Certificates

An intermediate certificate is a subordinate certificate issued by the Certificate Authority or by the trusted root certificate. Intermediate certificates are used for security purposes.

An intermediate certificate inherits the trustworthiness of the root certificate because it is signed by the trusted root. These trusted intermediate certificates can, in turn, sign other certificates. Intermediate certificates must be installed on the web server with the primary certificate so that browsers can link the certificate to a trusted authority. Intermediate certificates can also be combined into one single certificate file, known as a chained certificate.

PowerSchool Server Configuration for SSL

The following steps outline the process by which to configure a PowerSchool Server with an SSL certificate:

1. Create the private key and certificate-signing request.
2. Obtain the SSL certificate from the certificate authority.
3. Import the private key and certificate file into the PowerSchool installation.
4. Create the SSL listen in PowerSchool.

Create the Private Key and Certificate Signing Request

In the PowerSchool Installer, input information on the [Generate SSL Certificate Request page](#).

Obtain SSL Certificate

Obtain a signed SSL certificate for the PowerSchool server from a Certificate Authority (CA) using the certificate signing request (Certreq.pem). For information about certificate authorities, see Certificate Authority.

When the Certificate Authority requests your CSR, open the certreq.pem file with a plain text editor, such as TextEdit, or Notepad. Copy and paste the contents of the certreq.pem file into the appropriate entry field on the Certificate Authority website.

When purchasing a certificate from a vendor's web site, you may be asked to select from a pop-up menu which web server product you use. The format expected for use with PowerSchool is a x509 certificate.

After you send the CSR to the Certificate Authority, you will receive your SSL certificate.

Import SSL Certificate and Key into PowerSchool

It is critical that you save the SSL certificate to PowerSchool in plain text format. Other document types may contain formatting characters that cannot be properly interpreted by the PowerSchool web server. Plain text documents preserve the certificate information string exactly as the Certificate Authority originally generated it. Use the [Import an SSL Certificate and Key into PowerSchool page](#) in the PowerSchool Installer to complete the SSL configuration.

SSL Troubleshooting

Refer to the following topics below to assist with troubleshooting issues with using SSL.

Domain Name

Verify that the following items match:

- Domain name used to create the SSL certificate
- PowerSchool server location value, as defined under the PowerSchool Utilities menu
- DNS entry for each DNS used in conjunction with the PowerSchool server

DNS Setup

The most common reason why SSL is not working correctly is the DNS setup. When the DNS is not set up correctly and SSL is enabled, the web browser displays an alert to indicate that the attempt to authenticate the server failed.

The DNS is an application that maintains a list of IP addresses and corresponding domain names. The DNS enables server access using a name, rather than the IP address by identifying the name and forwarding the request to the corresponding IP address.

The DNS must be set up correctly for SSL to function properly. Two common configurations for a network in which PowerSchool is installed are:

- The server is installed directly on the Internet using an external IP address.
- The server is installed on an internal network and is using an internal IP address.

Servers installed on the internal network usually have a router configured to redirect any traffic from an external IP address to the internal IP address. In either case, the DNS used by the server must contain a proper DNS entry.

When a server is installed using an external IP address, the configuration is straightforward. The DNS must have an entry that matches both the domain used to create the SSL certificate and the PowerSchool server location value, as defined under the PowerSchool Utilities menu.

When a server is installed on the internal network using an internal IP address, such as 10.10.1.2, two DNS's must be configured. One handles the external IP address, and the other handles the internal IP address. Both must contain an entry that matches the domain used to create the SSL certificate and the PowerSchool server location value, as defined under the PowerSchool Utilities menu.

Properly configuring the DNS on the network ensures the functionality of the SSL authentication.

System Extensions

Some system extensions can conflict with the PowerSchool server when SSL is enabled. If all steps have been taken to properly configure the network and PowerSchool, review the system extensions. If you have any third-party extensions enabled, disable them, restart, and attempt to enable SSL again.

SSL Certificate Expiration

SSL certificates are generally valid for one or two years. When an SSL certificate expires, you must renew it in order to continue using SSL. Some vendors offer tracking systems that notify the original purchaser when the certificate is about to expire.

Terminology

Application Node

This is the server the PowerSchool application is installed on. The web application accepts all requests from the web browser interface, and translates the requests to commands sent to the Oracle database server.

Archive Logging

Archive logging is a method to keep track of changes to the database for the purpose of recovering data up to a specific date and time. Archive logs track transactions continually for the purpose of restoring and recovering the database.

Flashback Data Recovery

Flashback data recovery provides a way to move the database back to a specific date and time. This is used in conjunction with archive logging to allow users to achieve a more precise restore point should it be required.

Image Server

An image server is software that is used to process background images for all the web pages accessed by PowerSchool. These images are not related to student or faculty photos but are background graphics used on all pages. These graphics include button images, lines, boxes and logos. The image server software is either Apache (preferred) or Windows. Installing an image server drastically improves page display performance and is required for any PowerSchool installation.

Load Balancer

A load balancer is used in a multiple server array environment to balance the incoming requests to each web server. This allows each web server to run evenly at approximately the same load.

Network Share

The network shares are links to specific mounted folders on attached volumes such as a network volume. The network share folders store custom web pages, student and faculty photos, scheduling engine files, batch result files, AutoComm and AutoSend files, SAIS reporting, and ReportWorks report output.

Oracle Database Server

The Oracle database server has several functions:

- Organize and store all the raw data that is to be maintained by PowerSchool.
- Communicate with the application node and keep track of all data that is entered, updated and/or deleted.
- Provide a method to back up and recover data in the event of accidental data loss or for disaster recovery.

Oracle Jobs

The Oracle jobs are a set of scripts that run to maintain the archive logs and backups. The scripts also run a process to reorganize and optimize the database for improved data access. These have been replaced by the PowerSchool Installer in PowerSchool 7.0.

PowerSchool Monitor

PowerSchool Monitor is a stand-alone application that resides on the host server. Using PowerSchool Monitor, you can monitor the state of PowerSchool services with the information provided by the various logs and address items that require attention.

Report Node

A report node is an application node that is tasked only with processing PowerSchool reports.

SID

Oracle System ID (SID) is used to uniquely identify a particular database on a system. On PowerSchool installations, this is typically PSPRODDB.

Server Array

This is a PowerSchool setup to improve data access and processing by spreading the load across multiple servers. Typically the Oracle database is installed on a dedicated server and PowerSchool is installed on two or more dedicated servers for handling web requests, PowerTeacher access and a server for processing reports.

Task Master

The task master is always the first application node to start up after installation. The task master initiates any processing related to data manipulation. The processes can run hourly, nightly or weekly. In addition, this is the server that must always be upgraded first when new PowerSchool versions are available. When implementing an upgrade, the task master is verified and then performs any necessary table or data modifications. Database updates are not performed by any other node.

PowerSchool Installer Help

About PowerSchool Installer Help

PowerSchool Installer Help provides comprehensive information on navigating and using PowerSchool Installer. Use PowerSchool Installer Help to follow procedures and find answers to many common questions. PowerSchool Installer Help also provides a search function that searches all help content.

Set Browser Preferences

Before you begin using PowerSchool Installer Help, check your browser preferences to make sure your browser is set to open in a new window. If you do not set your browser to open in a new window, the Help window launches in the existing open window or in a new tab, replacing PowerSchool Installer. Also, if you are using Internet Explorer, you must add PowerSchool Installer to the list of trusted Web sites.

How to Set Browser Preferences for Firefox

1. Open **Firefox**.
2. From the menu bar, choose **Tools > Options**.
3. Click **Tabs**.
4. In the "New pages should be opened in" section, select the **a new window** option.
5. Close the window.

How to Set Browser Preferences for Internet Explorer

1. Open **Internet Explorer**.
2. From the menu bar, choose **Tools > Internet Options**.
3. Click the **General** tab.
4. In the "Open links from other programs in" section, select the **A new window** option.
5. Click the **Security** tab.
6. Select **Trusted Sites**.
7. Click **Sites....**
8. In the "Add this Web site to the zone" field, enter the URL for PowerSchool.
9. Click **Close**.
10. Click **OK**.

Launch PowerSchool Installer Help

Launch PowerSchool Installer Help to search for a variety of topics.

How to Launch PowerSchool Installer Help

On the Navigation Bar, click **Help**. The PowerSchool Installer Help window appears.

Note: You can resize the Help window and move the Help window to a convenient location on your desktop so you can continue to work with PowerSchool Installer. The PowerSchool Installer Help window remains open until you choose to close it.

View PowerSchool Installer Help Window

The PowerSchool Installer Help window is divided into two panes: the navigation pane on the left and the topic pane on the right.

Navigation Pane

The navigation pane on the left contains the **Contents**, **Index**, and **Search** tabs, as well as navigation buttons you use to access and navigate the help topics.

Contents Tab

The **Contents** tab shows the organization of the Help into folders. Each folder contains related topics with conceptual and procedural information.

- Click **Contents** to view a complete list of the different folders.
- Click a folder to show the topics related to that section.
- Click the folder again to hide the topics related to that section.
- Click a topic to view the information in the topic pane.
- Click **X** to hide the navigation pane.

Index Tab

The **Index** tab provides a way to search for information interactively.

- Click **Index** and enter a keyword or phrase in the text box. The topics containing the index term display below the text box. Click the appropriate topic and the information appears in the topic pane.

Search Tab

The **Search** tab provides a way to locate occurrences of a specific word or phrase in the Help. Click **Search**, enter a keyword or phrase in the text box, and then click **Go**. The topics containing the search phrase display below the text box. Select the appropriate topic and the information appears in the topic pane.

Topic Pane

The topic pane on the right displays individual Help topics, such as information about PowerSchool Installer concepts or step-by-step procedures for using specific PowerSchool Installer features.

Links

Within Help topics are links to additional information or procedures. These links display as underlined text. Click the underlined text to display the additional information.

Appendix: Field Description Tables

Configure Application Instance Page

The following table describes the options that are visible on this page.

Field	Description
This is a single application server	Select the checkbox if this is a single application server running PowerSchool.
This is a server in a server array	Select the checkbox if this is a server on a server array running PowerSchool. For more information on configuring a server array, see the Server Array Configuration section.
Enable Image Server	Select the checkbox to enable the use of the image server on this node. When selected, the Image Server Address field appears. Enter the URL to the image server, for example http://powerschool.[server].k12.us:5071/psimages
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Configure PowerSchool Backup Jobs

The following table describes the options that are visible on this page.

Field	Description
Backup Email SMTP Server	Enter your PowerSchool mail server address. Although you can enter a URL, an IP address is preferred.
Backup Email From	Enter the email address to appear in the From line of backup email.
Backup Email To	Enter the email addresses of the individuals to whom you want the system to automatically send an email message after it completes a backup. Usually, you enter the PowerSchool administrator's address. If you enter more than one address, separate them with commas.
Cancel	Click to discard any changes you made.

Field	Description
Next	Click to submit data.

Configure PowerSchool/PowerTeacher Service Network Settings Page

The following table describes the options that are visible on this page.

Note: The proxy external port settings correspond to the publicly accessible ports for PowerSchool/PowerTeacher, ReportWorks, and Client-auth services. By default these are 443, 8443, and 5443 respectively. If you cannot enable SSL, choose alternate ports such as 80 for PowerSchool and possibly 8080 for ReportWorks. Client-auth services cannot be enabled without setting up SSL, so the Proxy External Port for Client Authentication Connections field is ignored.

Field	Description
IP Address(es) that PowerSchool/PowerTeacher will listen on	Select an option from the pop-up menu. If your server has multiple IPv4 addresses (multiple Ethernet cards, or a combination of Ethernet and Wi-Fi), this setting causes the PowerSchool/PowerTeacher service to listen for connections on the selected address.
Enable Non-SSL traffic for PowerSchool/PowerTeacher	Select the checkbox to allow non-SSL connections on this server. If enabled, the PowerSchool/PowerTeacher service will accept HTTP (rather than HTTPS) connections on the specified port. Pearson strongly encourages enabling SSL. However, this setting is intended primarily for setting up SSL terminated at a load balancer or other proxy appliance.
Non-SSL port for PowerSchool/PowerTeacher	Enter the port on which PowerSchool/PowerTeacher service will listen for HTTP connections (if enabled). Populated with default value of 80.
Enable SSL/TLS for PowerSchool/PowerTeacher	Select the checkbox to enable SSL/TLS connections on this server. If enabled, the PowerSchool/PowerTeacher service will accept HTTPS (rather than HTTP) connections on the port specified.
SSL/TLS port for PowerSchool/PowerTeacher	Enter the port on which PowerSchool/PowerTeacher service will listen for HTTPS connections (if enabled). Populated with default value of 443. Note: This field appears if the Enable SSL/TLS for

Field	Description
	PowerSchool/PowerTeacher checkbox is selected.
Choose SSL Certificate for PowerSchool/PowerTeacher	<p>Select the secure certificate alias from the pop-up menu.</p> <p>This pop-up menu populates with the aliases of all certificates imported into the database (for which there is a matching private key). The selected certificate will be used to encrypt HTTPS connections.</p> <p>Note: This field appears if the Enable SSL/TLS for PowerSchool/PowerTeacher checkbox is selected.</p>
Enable SSL/TLS for Client Authentication Services	<p>Select to enable SSL/TLS client authentication for this server.</p> <p>If enabled, the PowerSchool/PowerTeacher service will accept client-authentication HTTPS connections on the port specified. This must be enabled to use Record and Transcript Exchange.</p>
SSL/TLS Port for Client Authentication Services	<p>Enter the port on which PowerSchool/PowerTeacher service will accept client-authentication HTTPS connections. Populated with default value of 5443.</p> <p>Note: This field appears if the Enable SSL/TLS for Client Authentication Services checkbox is selected.</p>
Choose SSL Certificate for Client Authentication Services	<p>Select the secure certificate alias to make this an SSL port.</p> <p>This pop-up menu populates with the aliases of all certificates imported into the database (for which there is a matching private key). The selected certificate will be used to encrypt client-authentication HTTPS connections.</p> <p>Note: This field appears if the Enable SSL/TLS for Client Authentication Services checkbox is selected.</p>
Redirect non-SSL PowerSchool traffic to use SSL via the proxy settings	<p>Select the checkbox to redirect non-SSL traffic to the configured external proxy host and port. This setting should not be used if SSL is terminated in your proxy server.</p>
Configure Proxy (required for Load Balancer)	<p>Select the checkbox to indicate their network setup includes proxy devices (such as a load balancer) between the end user and the PowerSchool server.</p>
Enable SSL/TLS on proxy	<p>Select the checkbox to indicate their proxy device(s) will perform the SSL encryption for the PowerSchool server (turning HTTP traffic into HTTPS at the proxy).</p>

Field	Description
	<p>If this is enabled, the district should enable non-SSL traffic and disable SSL traffic for PowerSchool/PowerTeacher. Client-authenticated HTTPS traffic must pass through a different route and is unaffected.</p> <p>Note: This field appears if the Configure Proxy checkbox is selected.</p>
Proxy External Address for PowerSchool/PowerTeacher	<p>For a single server installation without SSL enabled, leave blank.</p> <p>For a single server installation with SSL enabled, enter the IP or fully qualified domain name of the server on which you are installing PowerSchool.</p> <p>For a server array installation with SSL enabled, enter the virtual server address.</p> <p>Note: The address should match the Common Name submitted to the certificate authority when purchasing your SSL certificate.</p>
Proxy External Port for PowerSchool/PowerTeacher	<p>443 is populated as the default value, but you may enter any port that does not conflict with any other application on the server.</p>
Proxy External Port for Client Authentication Connections	<p>Enter the externally-accessible port for the outermost proxy device to accept client-authentication HTTPS connections for PowerSchool/PowerTeacher. This port should not conflict with any other application on the server. Connections on this port should pass through to the PowerSchool/PowerTeacher Client-Auth HTTPS port.</p>
Previous	<p>Click to return to the previous page and review the database configuration settings.</p>
Cancel	<p>Click to discard any changes you made.</p>
Next	<p>Click to submit data.</p>

Configure PowerSchool/PowerTeacher Service Memory Settings Page

The following table describes the options that are visible on this page.

Field	Description
Service Name	Displays the service name.
Service Maximum Memory	<p>Default value displays for a standard installation of PowerSchool on a server that meets the minimum PowerSchool system requirements.</p> <p>On a 16GB server with both PowerSchool application and database installed, double the default memory value.</p> <p>On an 8GB server with only PowerSchool application installed, enter 4GB</p> <p>On a 16GB server with only PowerSchool application installed, enter 8GB</p>
Service Initial Memory	Enter the same value set in the Service Maximum Memory field.
Service Maximum Perm-Gen Memory	Default value displays for a standard installation of PowerSchool on a server that meets the minimum PowerSchool system requirements.
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Configure ReportWorks Services Memory Settings Page

The following table describes the options that are visible on this page.

Field	Description
Service Name	Displays the service name.
Service Maximum Memory	<p>Default value displays for a standard installation of PowerSchool on a server that meets the minimum PowerSchool system requirements.</p> <p>On a 16GB server with both PowerSchool application and database installed, double the default memory value.</p> <p>On an 8GB server with only PowerSchool application installed,</p>

Field	Description
	enter 2GB On a 16GB server with only PowerSchool application installed, enter 4GB
Service Initial Memory	Enter the same value set in the Service Maximum Memory field.
Service Maximum Perm-Gen Memory	Default value displays for a standard installation of PowerSchool on a server that meets the minimum PowerSchool system requirements.
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Configure ReportWorks Service Network Settings Page

The following table describes the options that are visible on this page.

Field	Description
IP Address(es) that ReportWorks will listen on	Select an option from the pop-up menu. If your server has multiple IPv4 addresses (multiple Ethernet cards, or a combination of Ethernet and Wi-Fi), this setting causes the ReportWorks service to listen for connections on the selected address.
Enable Non-SSL traffic for ReportWorks	Select the checkbox to allow non-SSL connections on this server. If enabled, the ReportWorks service will accept HTTP (rather than HTTPS) connections on the specified port. Pearson strongly encourages enabling SSL. However, this setting is intended primarily for setting up SSL terminated at a load balancer or other proxy appliance.
Non-SSL port for ReportWorks	Enter the port on which ReportWorks service will listen for HTTP connections Note: This field appears if the Enable Non-SSL traffic for ReportWorks checkbox is selected.
Enable SSL/TLS for ReportWorks	Select the checkbox to enable SSL/TLS connections on this server. If enabled, the ReportWorks service will accept HTTPS (rather

Field	Description
	than HTTP) connections on the port specified.
SSL/TLS port for ReportWorks	Enter the port on which ReportWorks service will listen for HTTPS connections (if enabled). Note: This field appears if the Enable SSL/TLS for ReportWorks checkbox is selected.
Choose SSL Certificate for ReportWorks	Select the secure certificate alias from the pop-up menu. This pop-up menu populates with the aliases of all certificates imported into the database (for which there is a matching private key). The selected certificate will be used to encrypt HTTPS connections. Note: This field appears if the Enable SSL/TLS for ReportWorks checkbox is selected.
Configure Proxy (required for Load Balancer)	Select the checkbox to indicate their network setup includes proxy devices (such as a load balancer) between the end user and the PowerSchool server.
Enable SSL/TLS on Proxy	Select the checkbox to enable SSL/TLS on the proxy server. Note: This field appears if the Enable SSL/TLS for ReportWorks checkbox is selected.
Proxy External Address for ReportWorks	For a single server installation without SSL enabled, leave blank. For a single server installation with SSL enabled, enter the IP or fully qualified domain name of the server on which you are installing PowerSchool. For a server array installation with SSL enabled, enter the virtual server address. Note: The address should match the Common Name submitted to the certificate authority when purchasing your SSL certificate.
Proxy External Port for ReportWorks	8443 is populated as the default value, but you may enter any port that does not conflict with any other application on the server.
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Configure Server Page

The following table describes the options that are visible on this page. The options available on this page change based on where you are in the installation and configuration process.

Field	Description
Deploy and Configure Application Content	Click to begin the workflow for installing and configuring a set of web applications on this server.
Import PowerSchool Configuration and Data	Click to begin the workflow for importing data from PowerSchool 6 into the new folder layout for PowerSchool 7.
Configure PowerSchool Backup Jobs	This link begins the workflow to enable database backup jobs and configure email notifications for those jobs.
Configure Database Connection	This link begins the workflow to configure the database connection.
Reset PS Password	This link begins the workflow for changing the database password of the PS user.
Import PowerSchool 6.2.1.2+ Database	This link begins the workflow for importing the database from the PowerSchool 6.2.1.2+ backup files.
Generate a Certificate Request	This link begins the workflow to generate a certificate request which the district will use to request a SSL certificate from a certificate authority.
Import an SSL Certificate and Key into Database	This link begins the workflow to import an SSL certificate / private key pair into the database. This certificate will become available to enable SSL (https) for PowerSchool / PowerTeacher and ReportWorks services.
Configure PowerSchool/PowerTeacher Service Network Settings	Click to view the Configure PowerSchool/PowerTeacher Service Network Settings page.
Configure PowerSchool/PowerTeacher Service Memory	Click to view the Configure PowerSchool/PowerTeacher Service Memory Settings page.

Field	Description
Settings	
Configure ReportWorks Service Memory Settings	Click to view the Configure ReportWorks Service Memory Settings page.
Create PowerSchool Monitor Shortcut	Click to view the Create PowerSchool Monitor Shortcut page.
Configure ReportWorks Service Network Settings	Click to view the Configure ReportWorks Service Network Settings page.
Configure Application Instance	This link begins the workflow for configuring the server, including server array and image server.
Map Network Drives	Click to view the Map Network Drives page and configure network shares.
Restart PowerSchool/PowerTeacher Services	Click to view the Restart PowerSchool/PowerTeacher Services page.
Stop PowerSchool/PowerTeacher Services	Click to view the Stop PowerSchool/PowerTeacher Services page.
Restart ReportWorks Services	Click to view the Restart ReportWorks Services page.
Stop ReportWorks Services	Click to view the Stop ReportWorks Services page.
Uninstall PowerSchool Database	Click to begin the workflow for removing the PowerSchool database. This link is only visible if the database has previously been installed on this server.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Installation Confirmation Page

The following table describes the options that are visible on this page.

Field	Description
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Confirm	Click to submit data.

Create PowerSchool Monitor Shortcut Page

The following table describes the options that are visible on this page.

Field	Description
Create PowerSchool Monitor shortcut in Windows Startup Items	Select the checkbox to add a shortcut to the PowerSchool Monitor in the Windows Start menu.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Database Connection Page

The following table describes the options that are visible on this page.

Field	Description
Database Host	Enter the host name of the database server.
Database Port	Enter the port for the database.
Database SID	The System Identifier (SID) you selected when installing the database, PSPRODDB by default.
Oracle PS Password	When the database is created, a database user named PS is created and set to this password.
Previous	Click to return to the previous page and review the database configuration settings.

Field	Description
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Database Security/SID Page

The following table describes the options that are visible on this page.

Field	Description
Oracle PS Password	<p>Enter the database user password. This is the account that PowerSchool uses to connect to the database.</p> <p>When the database is created, a database user named PS is created and set to this password. Make sure to record this password. The password must be at least six characters in length, start with a letter, and contain only letters, digits and the following special characters: #\${}_+ -*.</p>
Oracle PSNavigator	<p>When the database is created, a database user named PSNavigator is created and set to this password.</p> <p>Make sure to record this password. The password must be at least six characters in length, start with a letter, and contain only letters, digits and the following special characters: #\${}_+ -*.</p>
Oracle DataMiner	<p>When the database is created, a database user named DataMiner is created and set to this password.</p> <p>Make sure to record this password. The password must be at least six characters in length, start with a letter, and contain only letters, digits and the following special characters: #\${}_+ -*.</p>
Oracle DBA Privileges User Name	The user name that the installer will configure Oracle to grant SYSDBA (highest level) privileges to. Typically this is the OS (Windows) username of the person installing PowerSchool
Previous	Click to return to the previous page.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Deploy and Configure Application

The following table describes the options that are visible on this page.

Field	Description
Select Country	Select the country from the pop-up menu.
Select State/Province/Territory	Select the state/province/territory from the pop-up menu.
Select Applications to Install	Select the checkbox next to the application(s) to install on the server. Deselect application(s) to uninstall.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Drives, Memory and IP Address Page

The following table describes the options that are visible on this page.

Field	Description
Oracle Software Drive	Enter the drive that the installer will deploy Oracles program files to. The files will be installed under [drive]:\oracle.
PowerSchool Database Drive	Enter the drive the installer will configure Oracle to store the live database data files. The files will be installed under [drive]:\oradata\[SID] where [SID] defaults to PSPRODDB.
Archive Log Drive	Enter the drive that the installer will configure Oracle to store the live database archive log files. The files will be installed under [drive]:\oradata\[SID] where [SID] defaults to PSPRODDB.
Flash Recovery Drive	Enter the drive that the installer will configure Oracle to store flash recovery information. The files will be installed under [drive]:\oradata\[SID] where [SID] defaults to PSPRODDB.
Amount of RAM to dedicate to this database?	Enter the amount of memory for Oracle to use.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Generate SSL Certificate Request

The following table describes the options that are visible on this page.

Field	Description
Common Name/Domain Name	Enter the fully qualified public domain name of the server.
Organization	Enter the name of the organization that owns or administers the server.
Organizational Unit	Enter the organizational unit, if any.
Country Code	Enter the two-letter country code.
State/Province	Enter the full name of your state or province.
City/Locality	Enter the city or locality, if needed.
Private Key Size	Select a size from the pop-up menu.
Private Key Password	Enter the password used to encrypt the private key.
Confirm Key Password	Re-enter the password to confirm.
Generate	Click to generate the certificate request.

Import an SSL Certificate and Key into Database

To enable HTTPS on this application server, import a certificate and private key into the database. If you have already imported a certificate on this or any other application node, skip this procedure. If you do not yet have a certificate you will have the option to import and enable HTTPS at a later time

If you choose to import, all certificates should be standard X509 certificates in standard Privacy Enhanced Mail (PEM) format. Viewed in a text editor, PEM format certificates start with "-----BEGIN CERTIFICATE-----" and end with "-----END CERTIFICATE-----". The private key file should also be in PEM format. The private key password is the password you set when you generated the private key/certificate request pair. If your certificate authority provides an intermediate certificate or certificates, include them here.

The following table describes the options that are visible on this page.

Field	Description
Import a Certification/Private Key into Database	Select the checkbox to view the import certificate/private key configuration fields.
Certificate Alias	Enter the name that is created in the database for this imported information.
Private Key	Enter the path of the private key file, or click Browse to navigate to the file on the server.
Private Key Password	Enter the private key password. If none, leave blank.
Site Certificate	Enter the path of the certificate file, or click Browse to navigate to the file on the server.
Intermediate Certificate	Enter the path of the intermediate certificate file, or click Browse to navigate to the file on the server.
Additional Intermediate Certificate	Enter the path of the additional intermediate certificate file, or click Browse to navigate to the file on the server.
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Import PowerSchool 6.2.1.2+ Data Folders

The following table describes the options that are visible on this page.

Field	Description
Choose your data folder	Select the data folder where the backup data files you exported from PowerSchool 6.x reside from the pop-up menu.
Import photos for students and teachers	Select the checkbox to import student and teacher photos from the PowerSchool 6.x data file.
Import custom pages from web_root	Select the checkbox to import custom pages from the PowerSchool 6.x data file.
Import completed reports	Select the checkbox to import completed reports from the PowerSchool 6.x data file.
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Map Network Drives Page

The following table describes the options that are visible on this page.

Note: This connection will be made available exclusively to PowerSchool.

Field	Description
Drive Letter	Select the drive for the network share from the pop-up menu.
Hostname/IP	Enter the hostname/IP address for the network share.
Network Share Folder Name	Enter the name of the network share folder on the drive specified.
Network Share Username	Enter the username to access the network share.
Network Share Password	Enter the password to access the network share.
Use this drive for data folder	Select the checkbox if this drive is used for the Network Share folder in a server array environment.

Field	Description
	Note: In PowerSchool 6.x this was known as the network share.
Remove	Click to remove the network share information.
Add another row	Click to add another row to configure additional network drives.
Previous	Click to return to the previous page and review the database configuration settings.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Review PowerSchool 6.2.1.2+ Export and Check Files

The following table describes the options that are visible on this page.

Field	Description
The following PowerSchool 6.x Database Export and Check Files were found	The Database Export and Check Files found on the server display on this page.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Reset PS User Password

The following table describes the options that are visible on this page.

Field	Description
Old PS User Password	Enter the former PS user password.
New PS User Password	Enter the new PS user password.
Confirm New Password	Re-enter the new password to confirm.

Field	Description
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Server-Specific Settings

The following table describes the options that are visible on this page.

Field	Description
Clear server-specific settings in the data file from PowerSchool 6.2.1.2+ upon import	Select the checkbox to clear server-specific settings in the data file. This deletes previous Server Connection configuration information and previous ReportWorks Connection Configuration Information. If PowerSchool 7.0 is being installed on a server array, and the Hostnames and IP addresses will be the same, do not select the checkbox.
Previous	Click to navigate to the previous page.
Cancel	Click to discard any changes you made.
Next	Click to submit data.

Summary Page

The following table describes the options that are visible on this page.

Field	Description
Additional Message	Click the hyperlink to open the installed application. Note: Hyperlinks appear after the application installation is complete.
Done	Click to complete the database installation and display the Configure Server page.

Uninstall PowerSchool Database

The following table describes the options that are visible on this page.

Field	Description
Applications Currently Installed	Lists all applications installed on the server.
Removing Applications	Displays items to be removed.
Cancel	Click to discard any changes you made.
Confirm	Click to submit data.