

SIEMENS



SiPass integrated MP2.65

Installation

MP2.65 SP3

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1 Introduction

Congratulations on choosing the SiPass® integrated access control and security solution. SiPass integrated is the leading access control software on the market. This Installation Manual explains how to install the SiPass integrated software.



Please be aware that while SiPass integrated is tested thoroughly in combination with different versions of Windows and other 3rd party applications, it is possible that a 3rd party application running on the same PC as the SiPass integrated Server or Client may cause unpredictable results. It is recommended that you test your environment fully, before going live with your SiPass integrated system.

1.1 Installation Summary

The following summary provides an overview of the complete SiPass integrated server installation process.

This includes the various system components that need to be installed and configured prior to and following the installation of the SiPass integrated software. It is recommended that this summary be used as a guide only, and users unfamiliar with the installation process consult the relevant sections of this manual for more information.

Use the checklist in Section "SiPass Server Install Checklist [→ 5]" of this document to manually tick off items as you proceed through the installation. This will ensure nothing is missed and will assist in troubleshooting.

1.2 SiPass Server Install Checklist

Please use the following checklist to ensure all necessary installation steps have been performed. It has been included on a single page so that it can be photocopied or torn out and used to mark down any completed installation steps.

- **Windows Operating System:** Install the Windows Operating System (and appropriate Service Pack) on to a PC that meets all the system requirements as outlined in the SiPass integrated Product Sheets. Both 32-bit and 64-bit versions are supported for Windows 2012 R2, Windows 8.1, Windows 7 SP1 and Windows 2008 R2 SP2.
- **PC Configuration:** Ensure that the PC has been correctly configured on your computer network. All appropriate permissions, shared resources, dates, and other network devices should be configured correctly.
- **Privileges:** Ensure that the person carrying out the installation has local Administrator privileges on the PC on which SiPass integrated is being installed.
- Set the date and time of the PC.
- **Peripheral Devices:** Install any additional peripheral devices that may be required. This includes printers (which may be networked), Video capture cards, CCTV equipment and cameras.
- **Internet Browser:** In order to install the SiPass integrated Web Client, ensure that you have a minimum of Internet Explorer (IE) 10 installed.
- **.NET Framework:** The SiPass installation will automatically install .NET Framework.
- **MS SQL:** Install Microsoft SQL Server 2005 / 2008 / 2012 (and appropriate Service Pack). If you prefer MS SQL Express, the SiPass installation can install it for you.
- **SQL Memory Properties:** Configure the SQL Server 2012 or 2008 Memory Properties.

- Install SiPass integrated onto the PC. If choosing the custom installation option, ensure that both the desired options are selected when performing the installation.
- Install any additional SiPass integrated Clients. If these additional clients are to be installed on a PC other than the server, ensure that the PC has been configured correctly and meets the requirements as outlined in the SiPass integrated Product Sheets.
- Assign appropriate read/write privileges to the SiPass integrated folder to each Windows account used to run SiPass integrated.
- Configure and set up SiPass integrated. Refer to the SiPass integrated *User's Manual* for more information.

1.3 Finding a Computer Name

Throughout this Installation Manual, you will be required to enter the name of a particular computer on the network in order to carry out a procedure. This name must be the same as that given to the computer when its operating system was installed.

Before you can locate the name of the computer / workstation, you must be logged on to that computer / workstation and must have Windows open.

To find a computer name:

1. Select **Control Panel** from the Windows **Start** menu. The *Control Panel* will appear.
2. Double click on the **System** icon. The *System Properties* dialog will appear, displaying the *General* tab by default.
3. Click the *Computer Name* tab. The Network Identification details will appear.
⇒ The *Computer Name* tab displays the Computer Name together with the Domain Name (if you are connected to a domain-type network).

When performing any procedure in this Installation Manual that needs this information, the Computer Name must be typed exactly as it appears in this dialog.

2 Microsoft SQL Server

Microsoft SQL Server is the system that meets the numerous and complex database needs of SiPass integrated. Microsoft SQL Server provides the level of software security necessary to safeguard the records created and modified in SiPass integrated.

The following table indicates the supported SQL Server software on which SiPass integrated will run:

	SQL 2014 (32/64-bit)	SQL 2012 SP2 (32/64-bit)	SQL 2012 SP2 Express (64-bit)	SQL 2008 R2 (SP3) (32/64-bit)	SQL2008 R2 Express (SP3) (32/64-bit)
SiPass integrated MP2.65 SP3	Yes	Yes	Yes	Yes	Yes



SiPass integrated will function normally with either SQL Server 2005 SP3 or SQL Server 2008. If there are no SQL server versions installed on the computer where SiPass integrated is installed, SiPass integrated will automatically install a runtime version of Microsoft SQL Server 2008 R2 Express.

2.1 Configuring the SQL Server Maximum Memory

To ensure smooth operation of SiPass integrated, it is important to configure SQL Server so that it does not utilize too much memory.

To configure the Maximum memory in SQL Server:

1. Click the Start button and select **Programs > Microsoft SQL Server > SQL Server Management Studio**.
2. Check the correct server name is entered in the **Server name** field, and click **Connect**.
3. If the current windows user does not have enough privileges you can change the authentication from **Windows Authentication** to **SQL Server Authentication**.
4. Right click the SQL Server you connected to, located at the top of the tree, and select **Properties**. The *Server Properties* window will appear.
5. Click the *Memory* tab.
6. Enter a value for the Maximum server memory. This can be set to whatever you wish, but be sure to leave memory for other processes on the machine. We recommend a setting of half the total RAM on the machine.
7. Click **OK** to save your changes.
8. You will need to restart the SQL Server for the changes to take effect.

2.2 Configuring the SQL Server Protocols

To ensure the operation of SiPass integrated and reporting it is important to configure SQL Server for the correct protocols.

To configure the SQL Server Protocols:

1. Click the **Start** button and select **Programs > Microsoft SQL Server > Configuration Tools > SQL Server Configuration Manager** to display the *SQL Server Configuration Manager* dialog.
2. Expand the *SQL Server Network Configuration*, located at the top of the tree by clicking on the cross, and then select *Protocols for MSSQLSERVER*. The Protocols will appear in the right hand pane.
3. Ensure the following protocols are enabled:
 - Shared Memory
 - TCP/IP
4. To enable each protocol, right click on its name and select the **Enable** option.
5. Close the SQL Server Configuration Manager.
6. You will need to restart the SQL Server for the changes to take effect.

2.3 Installing Microsoft SQL Server

Microsoft SQL Server 2012 is the newest Microsoft SQL Server version. It has numerous new features that improve server management and application downtime. You can also choose to install SQL Server 2008 R2. The instructions given below apply to both versions.

Note: The SQL Server and the SiPass integrated server must be installed on the same PC.

To Install SQL Server:

1. Run your Microsoft SQL Server CD.
 - ⇒ On the left panel, click **Installation**.
2. Next, select New SQL Server stand-alone installation or add features to an existing installation from the right panel of the dialog.
 - ⇒ The *SQL Server Setup* dialog is displayed next. This dialog displays the Setup Support Rules that identifies problems that might occur when SQL Server Setup support files are installed. When the operation is complete, click **OK**.
3. In the next dialog, select the **Enter the product key** option. Enter a product key in the field provided in this dialog.
4. Click **Next**.
 - ⇒ The next dialog displays the License Terms. Read this and tick the **I accept the license terms** checkbox.
5. Click **Next**. A dialog to Setup Support Files will be displayed.
6. Click **Install** to continue. The prerequisites for SQL will be installed.
7. Click **Next** to continue the setup after the prerequisites are installed. The *Feature Selection* dialog will appear next.

8. Select the features you wish to install.
We recommend clicking Database Engine Services, Client Tools Connectivity and Management Tools - Basic. To select a different installation path click the ... button of the **Shared feature directory** field to select a path for each component that you are installing.
9. Click **Next** to navigate to the Instance Configuration dialog.
10. Select the **Default instance** option.
11. Click **Next** if you pass the System Configuration Check.
12. The IIS Feature Requirement is not needed for SiPass integrated.
13. The Disk Space Requirements dialog displayed next will review the disk space summary for the features selected.
14. Click **Next** to navigate to the Server Configuration dialog.
15. In the *Service Account* tab, make the following selections under the **Service** field:
 - SQL Server Agent
 - SQL Server Database Engine
16. In the **Account Name** field, select **Network Service** from the drop-down list for both services.
17. Click **Next**. The Database Engine Configuration dialog is displayed next.
18. Click the Account Provisioning tab, and select Mixed Mode (SQL Server authentication and Windows authentication).
19. Click **Next**. The Error and Usage Reporting dialog will be displayed.
20. Click **Next**. The Installation Rules dialog will be displayed.
21. Click **Next** when the operation is complete. The *Ready to Install* dialog will be displayed.
22. Review the components to be installed and click **Install** to begin the installation. This step can take up to one hour, depending on the features that have been chosen.
23. After the setup process is complete, click **Next**.
24. The *Complete* dialog will display the location where a Summary Log File has been saved.
25. Click **Close**.
26. Restart your PC.



The SQL Services must start with a domain User Account. This User Account should be the same account used to start SiPass integrated. After installation ensure you also install the latest service pack and apply the correct settings as outlined in the previous chapter.

2.4 Installing Microsoft SQL Server Express

SQL Server Express is a smaller free and re-distributable alternative to SQL Server. Unlike the SQL Server, service pack updates are built into a new installation program, and are not patches that apply to an existing installation.

It does have some limitations:

- 4GB Maximum database size
- 1GB Maximum memory
- A separate install for management of the database

If no database is found during the SiPass integrated installation, SQL Server 2008 R2 Express will be installed automatically.

To Install SQL Server Express:

1. Run the Microsoft SQL Server Express Setup file SQLEXPRESS_x86_ENU.exe from the CD, located under the "SQL Server Express" folder.
2. The *SQL Server Installation Centre* dialog will be displayed. On the left panel, click **Installation**.
3. Next, select New SQL Server stand-alone installation or add features to an existing installation from the right panel of the dialog.
4. The *SQL Server Setup* dialog is displayed next. This dialog displays the Setup Support Rules that identifies problems that might occur when SQL Server Setup support files are installed. When the operation is complete, click **Next** to continue to **Installation Type**.
5. Select the **Perform a new installation of SQL Server** option.
6. Click **Next** to continue to **Feature Selection**.
7. Select the features you wish to install.
We recommend clicking **Database Engine Services** and **Client Tools Connectivity**.
8. To select a different installation path click the ... button of the **Shared feature directory** field to select a path for each component that you are installing.
9. Click **Next** to continue to **Instance Configuration**.
10. Select the **Default Instance** option.
11. Click **Next** to continue to **Server Configuration**.
12. In the **Account Name** field, select **Network Service** from the drop-down list for both services.
13. From the **Startup Type** drop-down field, select **Automatic**.
14. Click **Next** to continue to **Database Engine Configuration**.
15. Select the **Mixed Mode** (SQL Server authentication and Windows authentication) option.
16. Enter an 'sa' password in the **Enter password** and **Confirm password** fields.
17. Click **Next**.
18. Review the components to be installed and click **Install** to begin the installation. This step can take up to one hour, depending on the features that have been chosen.

19. Once install is complete, ensure that the SQL Browser Server is started in **Services**.



Ensure that the Start-up type of the SQL Server browser service is set to 'Automatic'. Further, the log on can be set to the local system.

After installation, ensure that you also install the latest service pack and apply the correct settings as outlined in the previous chapter.

2.5 Installing Management Studio Express

SQL Server Express does not come with the management studio that is installed with the full version of SQL Server. Management Studio Express overcomes this limitation and lets you manage your SQL Express database.

To install Management Studio Express:

1. Run the setup file **SQLManagementStudio_x86_ENU.exe** from the CD, located under the "SQL Server Express" folder.
2. Click **New installation or add features to an existing installation**.
3. Read the EULA, tick the box **I accept** and click **Next**. Setup support files will be automatically installed at this point.
4. Ensure **Management Tools-Basic** and **SQL Client Connectivity SDK** are both checked, then Click **Next**.
5. Accept the default values on the **Error Reporting** screen, then click **Next** to begin the installation
6. Click **Close** to complete the installation. If prompted, restart your computer to apply the changes made during the installation before starting the application.

3 Installing SiPass integrated

SiPass integrated is shipped with an easy-to-use installation program.

The SiPass integrated software installation can be performed in a number of ways depending upon the requirements of your facility.



Before attempting to install SiPass integrated, you should always consult the *Release Notes* that accompany the application. These are located on the SiPass integrated CD.

SiPass integrated allows you to choose from 3 types of installations, as detailed below:

Typical Installation

A Typical installation will install the SiPass integrated Server, a Single SiPass integrated Client and the appropriate files for the Graphics module, Video imaging and Card Printing Module, Smart Card module, Guard Tour Module, and Elevator module if your license includes the installation of these modules.

Custom Installation

A Custom installation will allow you to install any combination of the following:

- SiPass integrated Server
- SiPass integrated Web Server
- SiPass integrated Client
- CCTV bus
- SiPass integrated CCTV Client
- SiPass integrated SQL database
- Smart Card Recognition
- Messaging

Complete Installation

A Complete Installation will automatically select each module and option available, including 1 of each CCTV Bus type.



The Human Resources Interface is installed as a minimum for each installation type.

3.1 Pre-Installation Checklist

The following should be adhered to before attempting to install the SiPass integrated software:

- If SiPass integrated is being re-installed or upgraded, ensure that you have backed up your existing database so that you can restore it later.
- If the Database option is selected during the installation, any existing database will be overwritten and all existing data will be lost.
- If SiPass integrated is being re-installed, ensure previous versions have been uninstalled.
- Ensure that the GC1680 drivers are installed (if required) for the following readers:
 - GC1680
 - GEMPLUS332

- Ensure that a supporting operating system and the appropriate Service Pack (if required) have been installed on the target workstation.
- Ensure that Microsoft SQL Server 2012, or 2008 R2 has been installed on the candidate SiPass integrated Server PC.
- Ensure that you have sufficient hard disk space available to install the software.
- Ensure that you have sufficient RAM (memory) to run SiPass integrated, SQL and other modules simultaneously.
- It is strongly recommended that you exit all Windows programs before running the SiPass integrated setup program.
- **If installing SiPass integrated Web Client:**
 - Internet Information Services (IIS):** If your SiPass integrated license contains Web Clients, ensure that the Internet Information Services (IIS) is installed on your SiPass integrated Server, or Client PC. Please contact your IT administrator for IIS Setup support.
 - User Account Control (UAC):** Ensure that you have turned off User Account Control (UAC) on the SiPass integrated PC.



Important: Ensure that you have logged on as an administrator or have been allocated local administrator privileges on the workstation where the SiPass integrated software is being installed.

3.2 Installing the .NET Framework

The Microsoft .NET framework needs to be installed for SiPass integrated.

If you do not have the .NET framework version 4.0 installed, SiPass integrated will automatically install it for you.

3.3 The SiPass integrated Installation

1. Start the **Windows** operating system.
2. Insert the SiPass integrated CD into the local CD drive. The installation process should begin automatically. If it does not follow the steps below:
 - Click the **Start** menu and select **Run**. The *Run* dialog will appear.
 - Type **D:\Install.exe** to start the install procedure, where “D” indicates the drive letter for your CD ROM drive. Click the **OK** button to start the installer.
 - ⇒ The SiPass integrated Installation screen will appear. The pre-installation program allows you to perform tasks such as reading the Release Notes. Follow the instructions and proceed to the SiPass integrated install. The *Welcome to SiPass* dialog will appear. From this point onward in the SiPass integrated installation, you may exit by choosing the **Cancel** button.
3. Click **Next >**. The SiPass *License Agreement* dialog will appear.
4. Select the “I accept the license agreement” option to enable the **Next** button, once you read and understand the terms of the end user license agreement.
5. Click **Next**. The *Hardware Type* dialog will appear.
6. Select the SiPass integrated platform that you wish to install by checking the option that corresponds to your license.
7. Click the **Next >** button. The *License Options* dialog will appear.

8. Complete the fields in the *License Options* dialog, according to the details that appear on your Validity Check form issued with your License Key.
 - **Site Name:** Name of the Facility
 - **Serial Number:** License serial number
 - **License Key:** The License Key recorded on your Validity Check form
 - **Card Technology:** The access card format that you have purchased with your SiPass integrated license
 - **Site:** Site Code used.
 - **Facility:** Facility Code used



Refer to the Validity Check form that was provided with your software for more details about completing the *License Options* dialog.

9. Click **Next**. A new *License Options* dialog will appear.
10. Enter the details into each field including:
Workstations, Number of Buses, HR Interface Clients, Number of CCTV stations, OPC AE clients, Web Clients, Card Expansion, and the number of Door Expansions purchased.
11. Click **Next**. The *Setup Type* dialog will appear.
12. Select the type of installation you want (Custom / Typical / Complete).
13. The *Select Features* dialog will appear if you have chosen the Custom installation. If you have chosen a Typical or Complete installation, the *Select Features* dialog will appear.
14. Select which features are to be installed by clicking on the hard drive icon for a particular feature and selecting “Will be installed on the local hard drive” from the drop down menu.
15. Specify the destination for the SiPass integrated software by choosing **Browse**.
 - This button will only be enabled if the SiPass Core Files option is selected from the list. A default directory, usually C:\Program Files\SiPass\, will be nominated by the Install Wizard. You may designate any hard drive as the host.
 - To change the default destination directory, choose the **Browse** button and select a new location from the Browse dialog.
Note: You cannot specify a network drive or remote PC for the SiPass integrated installation directory.
16. Click **Next**. You will be asked to supply a name for each CCTV Bus that you are installing.
 - ⇒ The *Bus Name* dialog will appear for each type of CCTV Bus you are installing. If you purchased multiple buss licenses of the same type, enter the names on a separate line by pressing CTRL + Enter for a carriage return.

17. Click **Next**. The *SQL Options* dialog will appear.
 - If you want to use an existing SQL Server instance, select the **Use existing SQL Server instance:** option, and from the drop-down list, select the instance (**Typical/Local**) that will host the SiPass SQL database. Click **Next**.
 - If no SQL instance currently exists on the selected machine, you can install SQLExpress by selecting the **Install SQLExpress instance of SQL 2008 Express R2 and use it**.
 - If you wish to install a SQL Server version other than SQL Server 2008 R2 Express, and have not yet done so, you must exit the installation by clicking **Cancel**, and then install your preferred SQL Server product.
18. Click **Next**. The *Server port number* dialog is displayed.
19. A default port number will appear in the **Port Number** field. You can edit this field if required.
20. Click **Next**. The *Ready to Install the Program* dialog is displayed. You will be prompted to confirm that you want to continue the installation.
21. Click **Install**. The Installation will proceed and the installation progress indicator will appear. When completed, the *Setup Complete* dialog will appear.
22. Click **Finish**.
 - ⇒ Congratulations! You have now successfully installed SiPass integrated.

3.4 Windows User Accounts

After you have installed SiPass integrated, you must configure the user account(s) on the SiPass integrated Server and clients that will be used by the SiPass integrated operators. Read and Write privileges to the SiPass integrated folder on the Server and Client hard drives must be assigned to the appropriate Windows users, in order for SiPass integrated operators to be able to create and save files like card templates and images.

4 Installing an Additional Client

SiPass integrated allows you to install clients on more than one PC in a network. A client provides the GUI (Graphical User Interface) that is used by the SiPass integrated operator to administer and monitor your access control and security system. Only one client of each type can be installed on any single PC in your system.

Before You Begin

- Ensure that your License Agreement permits you to configure an additional Client. If your License only allows the installation of a single Client, please contact your distributor to obtain an additional License.
- Ensure that you have installed the SiPass integrated Server software.
- If you are installing a Client on a workstation other than the Server, ensure that the target workstation has been configured on the same network.
- Identify the name of the computer where the SiPass integrated Server has been installed.
- It is recommended that you exit all Windows programs before running the SiPass integrated setup program.

Installing a SiPass integrated Client

1. Follow the procedure To Perform a SiPass integrated Installation, to step 8.
2. Fill in the *License Options* dialog with the same details as the original installation.
3. Click **Next** to continue.
4. Complete the second *License Options* dialog with the same details as the original installation.
5. Click **Next** to continue.
6. Select **Custom** and click **Next** to continue to the *Select Features* dialog.
7. Select only the Client option(s) you are installing.
 - The table below lists the types of Clients that may be installed as part of SiPass integrated.
 - The HR Client must be installed on the PC where the HR application or the HR application gateway is installed.
 - Ensure that the SiPass integrated Server option is marked as described above, so that the server will NOT be installed.
 - Ensure other items in the dialog are marked with a red cross, described as “Entire feature will be unavailable.”
8. Click **Next**. The *SiPass Server* dialog will appear, if you are installing the Client on a PC other than the SiPass integrated Server PC.
9. Enter the name of the PC where the SiPass integrated Server has been installed into the **Type Server Computer Name** field.
10. Click **Next**. The *Ready to Install* dialog will appear.
11. Click **Next**. The SiPass integrated Client installation will proceed and the progress indicator will appear. After completion, the *Setup Complete* dialog will appear.
12. Click **Finish**.
 - ⇒ The new SiPass integrated client has now been installed.

Client options	Description
Client	This type of Client is installed on a PC to provide a GUI (Graphical User Interface) for the system's operator(s). A SiPass integrated Client is normally installed on the server PC and may also be installed on other PCs that form part of the access control system. To install this option, select Client from the feature list.
Data Synchronizer	This utility allows you to import, export and synchronize the SiPass integrated database with data from another application. To install this option, select Data Synchronizer from the feature list.
CCTV Client	This client allows you to view CCTV images on-screen and to configure and control the CCTV equipment. Refer to the CCTV User's Guide for more information regarding the installation of CCTV components. To install this option, select CCTV from the feature list.
Smart Card	This feature allows you to encode and use Smart Card technology at a facility. To install this option, select Smart Card from the feature list.
HR Interface Client	This type of Client is installed on a PC to provide an interface to 3 rd Party Human Resource databases that can be used to help populate SiPass integrated. To install this option, select only SiPass Core Files from the feature list.

4.1 Installing Additional Components

If you purchased additional components, or did not install all of the components that you purchased originally, you can install those components (for example, the Messaging module or an additional Bus) onto your existing SiPass integrated system.

During the installation of a new component, SiPass integrated will automatically complete the fields in the *License* dialogs with the components and features currently installed. The only details you need to change are the new license key, and those new components which have been purchased. If you are installing additional components, you may be asked for your SiPass integrated installation CD during installation.

To Install Additional SiPass integrated Components:

1. Select **Control Panel** from the Windows Start Menu.
2. Double click **Add or Remove Programs**. The *Add or Remove Programs* window will appear.
3. If you are using Windows Vista, select 'Classic View' then double click **Programs and Features**
4. Select **SiPass integrated** from the list displayed.
5. Click **Change**. The *Application Maintenance* dialog will appear.
6. Select the **Modify** option.
7. The *Hardware Type* dialog will appear.
8. Select the same hardware type as the installation to which you are adding a component.
9. Click **Next**. The *License Options* dialog will appear.
10. Enter the new License Key you obtained when ordering the additional component(s), as well as any changes made to the details in this dialog.
11. Click **Next**. The second *License Options* dialog will appear.
12. Change only the fields where you have purchased additional components.

13. Click **Next**. The *Select Features* dialog will appear. Like the *License* dialogs, when installing additional components the SiPass integrated Install Wizard will complete the dialog with the details of the current installation.
14. Select any additional features that you are installing for the first time.
15. Click **Next**. The *Ready to Modify* dialog will appear.
16. Click **Next**. The SiPass integrated installation will proceed, and the progress indicator will appear. After completion, the *Setup Complete* dialog will appear.
17. Click **Finish** to complete the installation.

5 Automated Client Installation

To perform a conventional client installation of SiPass integrated, an operator must progress through specific installation dialogs. Detailed licensing information has to be entered into these dialogs.

The new Automated Client Installation feature provides operators with a convenient option of setting up Remote Client installations, which bypasses the traditional installation dialogs.

By applying this feature, remote clients are automatically updated if necessary when a user logs on to the affected PC.

5.1 Installation Prerequisites

All client PCs must have the following programs (with specified versions) installed:

- **.Net Framework 4.0**
- **Visual C++ 2010 Redistributable**

These programs are available under the **Prerequisites** folder on the SiPass integrated CD.

5.2 Automated Client Installation Functions

The Automated Client Installation is performed through the following stages:

- Stage 1: Copy contents of 'Automated Client Install' folder to a commonly accessible network location.
- Stage 2: Generate batch files required for the Automated Client Installation ("__ClientInstall.bat").
- Stage 3: For each remote client; create shortcuts for the batch file generated in the above step in each remote client's start-up folder.

The sections that follow will explain these three stages of installation.

5.2.1 Stage 1: Copy contents of 'Automated Client Install' folder to a commonly accessible network location

The steps required to create batch files for the Automated Client Installation are as follows:

1. Locate the **Automated Client Install** folder under the **Tools** directory on the SiPass integrated Standard CD. This folder will contain the files listed in the table below.
2. Copy these files to a commonly accessible network location, henceforth referred to as 'Common Location A'.

File Name	Location on SiPass integrated Standard CD
__ClientUninstall.bat	Open the Tools folder.
__ClientUpdate.bat	These files can then be found in the Automated Client Installation folder.
InstallGenerator.exe	
NClientVersionCheck.exe	
Setup.ini	These files can be found in the DISK1 folder.
Setup.msi	

5.2.2 Stage 2: Generate batch file required for the Automated Client Installation (“__ClientInstall.bat”)

1. Navigate to ‘Common Location A’ (see section above).
2. Run the **InstallGenerator.exe** file. The *SiPass Client Install Generator* dialog will be displayed.
3. In the Step 1 section, select the features you wish to install for the client (CCTV / Data Synch).
Note: This step is optional depending on whether you wish to install, and have a license for these features.
4. In the Step 2 section, enter the name of the server in the **Server Name** field.
5. Enter the **License Key, Site Name, Serial Number** and **Facility** as provided in your license.
Note: This step is optional depending on whether you selected to install the CCTV / Data Synch. feature/s for the client, as described in Step 3.

To change the default location of the Automated Client Installation:

By default, the Automated Client Installation feature installs the SiPass integrated client to the local **C:\Program Files** drive of the client PC. If you wish to change this default location, follow the next four instructions. Otherwise skip to **Creating the Batch file** below.

1. Select the *Advanced Install Options* tab.
2. Tick the **Specify Client Installation Path** checkbox.
3. In the field below, specify the location where you want the SiPass integrated client installed.
4. Return to the *Install Options* tab.

Creating the Batch file

1. Click the **Generate Client Install** button on the *Install Options* tab.
2. This action generates the Client Install batch file. However, no immediate result will be visibly displayed when the file is created.
3. To confirm generation of the batch file, navigate back to ‘Common Location A’. This folder should now contain the following file: **__ClientInstall.bat**.

5.2.3 Stage 3: Create shortcuts for the batch files generated

This section explains how shortcuts can be created in each remote client’s Startup folder, for the batch files generated in the previous section.

1. On the remote client, navigate to ‘Common Location A’.
2. Right-click **__ClientUpdate.bat** and click **Create Shortcut**.
3. Navigate to **%ALLUSERSPROFILE%\Start Menu\Programs\Startup** using Windows Explorer.
4. Copy the shortcut, created in step 2 of this section, to the location now visible in Windows Explorer.
5. Repeat steps 1 through to 4 for each remote client that requires automatic updates.

6 Installing SiPass integrated Web Server

The sections of this chapter detail how to install the SiPass integrated Web Server.

6.1 Pre-Installation Checklist

This section provides details of a Pre-Installation Environment that should ideally be prepared for the SiPass integrated Web Server.

- **Internet Information Services (IIS):** Ensure that IIS is *installed and enabled* if SiPass Website feature is to be installed. Please contact your IT administrator for IIS Setup support. The IIS installation must be done by a user with local administrator permissions.

6.1.1 IIS Installation Instructions

This section provides instructions about *how* to install Internet Information Services (IIS) for the SiPass integrated Web Server.

Supported Operating Systems
Windows Server 2012
Windows Server 2008
Windows 8
Windows 7
Windows 2003

IIS Installation for Windows Server 2012

1. Start the operating system on the workstation where the SiPass Server software is to be installed.
2. Open **Server Manager**.
3. Under **Manage** menu, select **Add Roles and Features**. The *Add Roles and Features Wizard* window displays.
4. On the next screen, select **Role-based or Feature-based Installation**.
5. On the next screen, select the appropriate server (local is selected by default).
6. On the next screen, select **Web Server (IIS)**.
7. On the next screen, no additional features are needed for IIS. So, click **Next**.
8. On the next screen, click **Next**.
9. On the next screen, customize your installation of IIS - tick the following items: Application Development and ASP.NET 4.5, then, click **Next**.
10. On the next screen, click **Install**.
11. When the IIS installation completes, the wizard reflects the installation status.
12. Click **Close** to exit the wizard.

IIS Installation for Windows Server 2008

1. Start the operating system on the workstation where the SiPass Server software is to be installed.
2. Open **Server Manager**.
3. Click **Roles**.
4. Click **Add Roles**.
5. Tick **Web Server**.
6. Tick **ASP .Net**.
7. Confirm the selections to proceed with installation.

IIS Installation for Windows 8

1. Start the operating system on the workstation where the SiPass Server software is to be installed.
 2. From the Windows **Start** menu, select **Control Panel > Programs > Programs and Features**.
 - ⇒ The *Programs and Features* dialog appears.
 3. On the left panel, click *Turn Windows features on or off*.
 - ⇒ The *Windows Features* dialog is displayed.
 4. Select and expand **Internet Information Services**.
 5. Under **Application Development Features**, select the following features:
 - .NET Extensibility 4.5
 - ASP.NET 4.5
 - ISAPI Extensions
 - ISAPI Filters
 6. Click **OK**.
 - ⇒ The IIS Setup configuration is complete.
- ⇒ To install SiPass integrated, right-click the SiPass **Setup.exe** file and select **Run as administrator** to begin installation.

IIS Installation for Windows 7

1. Start the operating system on the workstation where the SiPass Server software is to be installed.
 2. From the Windows **Start** menu, select **Control Panel > Programs and Features**.
 3. **On the left panel of the displayed dialog, select Turn Windows features on or off.**
 - ⇒ The *Windows Features* dialog is displayed.
 4. Select **Internet Information Services**.
 5. Click **OK**.
 - ⇒ The IIS Setup configuration is complete.
- ⇒ To install SiPass integrated, right-click the SiPass **Setup.exe** file and select **Run as administrator** to begin installation.

IIS Installation for Windows Server 2003

IIS will be installed by default for the Windows Server 2003 operating system.

6.2 Web Server Setup

The SiPass Web Server Setup is the main pre-requisites to using the SiPass Web Client.

There are two setup options available for installing the SiPass Web Server. These options allow you to access the SiPass server from the internal local network, or externally (e.g., from the Internet).

The client count is a combination of both servers.

- **Setup A: Installing a Local SiPass Web Server**

With this option, the SiPass Web Server can be installed on a Local SiPass Server.

- **Setup B: Installing an Independent SiPass Web Server**

With this option, the SiPass Web Server is installed on another server within the same subnet with IIS installed, but independent of the SiPass Server which is installed on a LAN network. This independent SiPass WEB Server can be published to the Internet using a firewall DMZ, thus protecting the SiPass Server from Internet attack. Configuration of the firewall would generally be carried out by the customer's IT department. For further details, please refer the section Independent SiPass Web Server Installation [→ 24].

6.2.1 Local SiPass Web Server Installation

Follow the instructions of how to perform a SiPass integrated Installation to Step 8. For more information, refer the section The SiPass integrated Installation [→ 13].

1. Fill in the *License Options* dialog with the same details as the original installation.
2. Click **Next** to continue. The *Setup Type* dialog will appear.
3. Select **Custom**, and click **Next** to continue to the *Select Features* dialog.
4. Ensure that **Server**, is selected. Click the drop down arrow of this icon to select further options.
5. Ensure that **Client** is selected. Click the drop down arrow of this icon to select further options.
6. Ensure that **Web site** is selected. Click the drop down arrow of this icon to select further options.
7. If you have selected the **SiPass Core Files** option, specify the destination for the SiPass integrated software by choosing **Browse**.
8. Click **Next**. Configure the setup for any other busses being installed e.g. CCTV, as in a standard installation setup.
9. Click **Next**. Configure the setup of the *SQL Options* dialog that will appear, as in a standard installation setup.
10. The *Server port number* dialog is displayed, and a default port number will appear in the **Port Number**: field. You can edit this field if required.
11. Click **Next**.
The *Ready to Install the Program* dialog is displayed. You will be prompted to confirm that you want to continue the installation.
12. Click **Install**.
The installation will proceed and the installation progress indicator will appear. When completed, the *Setup Complete* dialog will appear.
13. Click **Finish**.
⇒ Congratulations! You have now successfully installed SiPass integrated with the Web Server.

6.2.2 Independent SiPass Web Server Installation

Follow the instructions to install SiPass integrated to Step 8. For more information, refer the section The SiPass integrated Installation [→ 13].

1. Fill in the *License Options* dialog with the same details as the original installation.
2. Click **Next** to continue. The *Setup Type* dialog will appear.
3. Select **Custom**, and click **Next** to continue to the *Select Features* dialog.
4. Deselect the **Server** feature.
To do this, click the **Server** icon drop down arrow, and select the **This feature will not be available** option.
5. Ensure that **Client** is selected. Click the drop down arrow of this icon to select further options.
6. Ensure that **Web site** is selected. Click the drop down arrow of this icon to select further options.
7. If you have selected the **SiPass Core Files** option, specify the destination for the SiPass integrated software by choosing **Browse**.
8. Click **Next**. Configure the setup for any other busses being installed e.g. CCTV, as in a standard installation setup.
9. Click **Next**. Configure the setup of the SQL Options dialog that will appear, as in a standard installation setup.
10. Click **Next**. The *SiPass integrated Server* dialog is displayed.
11. In the **Server** field, enter the SiPass Server computer name or IP address.
 - **Note:** If installing the Web Server behind a DMZ firewall, set the SiPass Server's default gateway IP address to match the Firewall's LAN IP Address.
 - A default port number will appear in the **Port Number:** field, during the SiPass installation. You can edit this field if required.
 - This field is essential when installing the web server behind a firewall.
 - The port chosen during this installation should be open from the DMZ firewall to the SiPass Server. For more details, refer the section Firewall Configuration for Web Server Setup [→ 24].
12. Click **Next**.
The *Ready to Install the Program* dialog is displayed. You will be prompted to confirm that you want to continue the installation.
13. Click **Install**.
The installation will proceed and the installation progress indicator will appear. When completed, the *Setup Complete* dialog will appear.
14. Click **Finish**.
⇒ Congratulations! You have now successfully installed SiPass integrated with the Web Server.

6.2.3 Firewall Configuration for Web Server Setup

1. Connect the SiPass WEB Server to the DMZ port of the firewall.
2. Publish the WEB Server to the Internet.
3. Open the TCP port set during installation (default port is 8732) from DMZ to the internal port.

7 Uninstalling or Reinstalling SiPass integrated

The uninstall program will remove the SiPass integrated application, application drivers, registry settings and directories from your computer. The repair option in the uninstall program can be used to replace corrupted or deleted SiPass integrated files. It is highly recommended that you back up your SiPass integrated database before performing any of the maintenance procedures described in this chapter.



If the PC on which you are operating has the SiPass integrated Server installed, and you perform a 'modify' or 'repair' operation, the SiPass Server will be restarted.

To uninstall SiPass integrated:

1. Select **Control Panel** from the Windows Start Menu.
2. Double click **Add or Remove Programs**. The *Add or Remove Programs* window will appear.
3. Select **SiPass integrated** from the list displayed.
4. Click **Remove**. The *Application Maintenance* dialog will appear.
5. If you are using Windows Vista, select **Uninstall**.
6. Click **Yes** to confirm, and the uninstall process will begin.

To repair corrupted or deleted files:

1. Select **Control Panel** from the Windows Start Menu.
2. Double click **Add or Remove Programs**. The *Add or Remove Programs* window will appear.
3. Select **SiPass integrated** from the list displayed.
4. Click **Change**. The *Application Maintenance* dialog will appear.
5. Select the **Repair** option. The *Ready to Repair* dialog will appear.
6. Click **Next**. The installation progress indicator will appear. When the SiPass integrated installation repair has finished, the SiPass integrated Setup dialog will appear.
7. Click **Finish**.



If problems persist after performing a repair, it is recommended that you back up your current database and perform a full Uninstall and Reinstall of the software.

8 Upgrading SiPass integrated

If you are upgrading from a previous version of SiPass integrated, and wish to maintain your existing database, several steps need to be followed to ensure a smooth transition between versions. Not all previous versions can be upgraded successfully.

Before you begin:

- Ensure that you have read the new version of SiPass integrated Release Notes.
- Ensure that your system meets any new requirements for the version you are planning to install.
- Ensure you are familiar with backing up and restoring the SiPass integrated database.

8.1 Pre-Upgrade Recommendation

- It is recommended that operators upgrade their SiPass Audit Trail SQL files (.sqlarc files) from the Microsoft SQL CE 3.1 to CE 3.5 format.
- Existing .sqlarc files generated by all versions of SiPass integrated before MP2.5 SP1 are in the SQL CE 3.1 format.
- However, SiPass integrated MP2.5 SP1 and above uses the SQL CE 3.5 format.
- The SiPass Audit Archive Upgrading Tool (available on the SiPass integrated DVD) has been developed to upgrade the .sqlarc files. Please run this tool, and refer to its Online Help for information on how to upgrade .sqlarc files.

8.2 Upgrading from SiPass integrated MP2.65 to higher versions

!	NOTICE
	<p>IMPORTANT</p> <p>Before you begin:</p> <p>Back up all components of your current SiPass integrated database. This includes backing up the database, Audit Trail and Logbook backup.</p> <p>Please note that when backing up your SiPass integrated database, the Audit Trail is not backed up automatically, so you will need to perform a manual back up of it in order to save it.</p>

SiPass integrated MP2.65 can upgrade to higher versions without uninstalling the current SiPass version on the system, while completely retaining the current database.

Note: Upgrade without un-installation is possible only for MP2.65 and higher versions. To upgrade versions older than MP2.65, you must uninstall the current version first. Please refer the next section for more details.

1. Exit the SiPass integrated application.
2. Ensure that all remaining SiPass integrated Services have been stopped.
3. Run the installer file of the SiPass version you want to upgrade to, and complete the installation process.
4. When installation is complete, log into the new version of SiPass integrated.

For SiPass version Upgrade, and License Change:

Performing a SiPass version upgrade, and License Update/Change cannot be done at the same time.

1. You must first upgrade to the new SiPass version required.
2. Next, run the installer file of the new SiPass version to update/change the license.

Note: In case of Windows 8, the SiPass license details cannot be modified from the Windows Control Panel. For this, the SiPass setup executable file must be run directly.

8.3 Upgrading from a previous version of SiPass integrated

	<p>NOTICE</p>
	<p>IMPORTANT</p> <p>Before you begin:</p> <p>Back up all components of your current SiPass integrated database. This includes backing up the database, Audit Trail and Logbook backup.</p> <p>Please note that when backing up your SiPass integrated database, the Audit Trail is not backed up automatically, so you will need to perform a manual back up of it in order to save it.</p>

1. Exit the SiPass integrated application.
2. Ensure that all remaining SiPass integrated Services have been stopped.
3. Uninstall the current version of SiPass integrated. This **MUST** be done before installing the new version.
4. Install the new version of SiPass integrated.
5. Log into the new version of SiPass integrated.
6. Restore the backed-up database from step 1.
Important: When restoring the database, do NOT select the **System Settings** and **Local Settings** options in the *Restore Database* dialog.
7. Check the SiPass integrated Audit Trail to ensure the database was successfully restored.
8. Exit out of SiPass integrated, restart your SiPass integrated Server and log back in for the changes to take effect.



All operators who belong to the “Administrator” operator group will be given privileges to the new database components. All other operator groups will not automatically be assigned privileges; you will have to manually assign new database privileges to the appropriate operator groups after upgrading.

8.4 SiPass integrated Backup/Restore Paths

The following table displays the versions of SiPass integrated among which you can perform a database backup/restore.

CURRENT VERSION (The version currently installed)	DATABASE BACKUP/RESTORE VERSION (The version you want to restore to)						
	SiPass integrated version	MP2.50	MP2.60	MP2.65	MP2.65 SP1	MP2.65 SP2	MP2.65 SP3
	MP2.40	Yes					
	MP2.50		Yes	Yes	Yes	Yes	Yes
	MP2.60			Yes	Yes	Yes	Yes
	MP2.65				Yes	Yes	Yes
	MP2.65 SP1					Yes	Yes
	MP2.65 SP2						Yes



SiPass integrated MP2.40 database backup must first be restored to version MP2.50, and then to MP2.65 SP3.

9 SiPass integrated Services

The SiPass integrated Server runs using Windows background services. These services allow access control events and communications with system controllers to be maintained, even when the SiPass integrated client is not running. Although these services are configured to run automatically when SiPass integrated has started, it may be necessary to temporarily stop one or all of them.

9.1 Configuring SiPass integrated Services

When you install the SiPass integrated software, a background service for the server and for each bus driver is installed. These services allow SiPass integrated to function correctly even if the client is not active.

In order for SiPass integrated to control access (for example, perform an event task), and to communicate with any components in your access control system, these services must be functioning. By default, the services start automatically when the workstation on which they are installed is switched on. If necessary, you may change the default settings and configure these services to start manually. You may also stop these services at any time.



You must have local administrator privileges to change service settings.

The services needed for the proper operation of SiPass integrated are as follows:

- SiPassServer service
- MSSQLServer service

The SiPassServer is installed during the SiPass integrated installation, while the MSSQLServer service is installed during the SQL Server installation. The following two procedures explain how to manually start, stop or pause the SiPass integrated services and how to change their start-up operation.

To control the SiPass integrated Service:

1. Select **Control Panel** from the Windows **Start** menu. The *Control Panel* window will appear.
2. Double click the **Administrative Tools** icon. The *Administrative Tools* window will appear.
3. Double click on the **Services** icon. The *Services* window will appear.
4. Right click the service you wish to change and select one of the following options:
5. **Start:** Starts the service if it is not running.
6. **Stop:** Stops the service if it is running.
7. **Restart:** Stops and then starts the service.

To change the start-up operation for the SiPass Service:

1. Start the operating system, on the workstation where the SiPass Server software has been installed.
2. Select **Control Panel** from the Windows **Start** menu. The *Control Panel* window will appear.
3. Double click the **Administrative Tools** icon. The *Administrative Tools* window will appear.
4. Double click the **Services** icon. The *Services* window will appear.
5. Double click on the name of the service you wish to modify/change. The *Service Properties* dialog will appear.
6. Change the **Startup Type** by selecting an option from the drop-down list.
 - **Automatic:** The service will be started automatically when the machine is booted.
 - **Manual:** The service must be started manually.
 - **Disabled:** The service is disabled and will not start automatically when the PC is booted. The service cannot be started manually either.
7. Click **OK** to save your changes.



The SiPass Server service must be functioning for the correct operation of SiPass integrated. It is recommended that you do not change the default settings of these two services.

9.2 Configuring the SiPass Server Service Log On Account

In a multi-server environment, SiPass integrated servers and external applications need to communicate with one another. To allow a remote server to access SiPass resources on the local machine, the SiPass Server service needs to be assigned a username and password from a Windows user account. The Windows account used cannot be a local account; it must be valid for the entire network on which the servers in question are located.



If you have installed any of the following SiPass integrated options, it is highly recommended that you perform this procedure. Not doing so may cause problems attempting to access SiPass integrated resources from other SiPass servers or external applications.

- Multi-site Access Management
 - Human Resources Interface
 - OPC Alarm and Events Client
 - OPC Alarm and Events Server Interface
 - Time and Attendance Interface
 - DVR Interface
-

To configure the SiPass Server service log on account:

1. Start the operating system, on the PC where the SiPass Server software was installed.
2. From the Windows **Start** menu, select **Control Panel**. The *Control Panel* window will appear.
3. Choose the **Administrative Tools** icon, by double clicking on it. The *Administrative Tools* window will appear.
4. Double click on the **Services** icon. The *Services* window will appear.
5. Right click on the **SiPassServer** service and from the pop-up menu that appears, choose **Properties**. The *SiPassServer Properties* dialog will appear. Choose the *Log On* tab.
6. Choose the “This account” option. The user name and password entry fields will become enabled.
7. Enter a valid Windows logon user name into the “This account” field.
8. Enter the password for the account in the **Password** field.
9. Confirm the password, by re-entering it into the **Confirm Password** field.
10. Choose **OK**. The logon account you selected will be applied to the SiPass Server Service.

10 Appendix

10.1 Windows Settings



-
- During installation, SiPass integrated automatically configures the DCOM settings using 'Anonymous' and 'Everyone' groups.
 - We recommend creating a Windows Users Group who will be using your SiPass integrated system, and using this group for DCOM authentication. If you are running over a workgroup environment, this group and its members must exist on both the server and client computers.
 - The DCOM Configuration folder can be found in the **Tools** folder, which is available on the Installation CD
 - By default local Administrators have full privileges on the Server PC to run the local client.
-

1. If you are running Windows Server 2008, Windows 8.1, or Windows 2003 Server, click the Windows Start menu and select **Control Panel**. The *Control Panel* window will appear.
2. Double-click **Administrative Tools**.
3. Double-click **Components Services**.
4. Double-click the **Component Services** icon.
5. Double-click **Computers**.
6. Double-click the **My Computer** icon.
7. Double-click **DCOM Config**.
8. Right-click on the **advANTage Server** icon and select **Properties**.
9. Ensure the *Authentication Level* dropdown list is set to **Default**.

To configure SiPass Server settings

- ▷ Ensure that you have already created your SiPass integrated Group in Windows, which contains the Windows user accounts that will be running SiPass integrated.
1. Click the Windows **Start** menu and select **Control Panel**. The *Control Panel* window will appear.
 2. Double-click **Administrative Tools**.
 3. Double-click **Components Services**.
 4. Double-click the **Component Services** icon.
 5. Double-click **Computers**.
 6. Right-click on the **My Computer** icon and choose **Properties**.
 7. Select the COM Security tab.
 8. Click the **Edit Limits** button for Access Permissions.
 9. Click **Add** then enter **your SiPass Group** and click **OK**.
 10. Tick **Remote Access** for **your SiPass Group**
 11. Click **OK**.

12. Click the **Edit Limits** button for the Launch and Activation Permissions.
13. Click **Add** then enter **your SiPass Group** and click **OK**.
14. Tick **Remote Activation** for your SiPass Group.
15. Click **OK**.
16. Double-click the **My Computer** icon.
17. Double-click **DCOM Config**.
18. Right-click on the **advaNtAge Server** icon and select **Properties**.
19. Select the **Security** tab.
20. Select **Customize** from the **Launch and Activation Permissions** section and click **Edit**.
21. Click **Add** then enter your SiPass Group and click **OK**.
22. Tick **Remote Activation** for your SiPass Group.
23. Click **OK**.
24. Select **Customize** from the **Access Permissions** section and click **Edit**.
25. Click **Add**.
26. Enter **your SiPass Group** and click **OK**.
27. Tick **Remote Access** for your SiPass Group.
28. Click **OK**.
29. Click **OK** again.
30. Close the open dialogs.
31. You will need to restart your SiPass Server service before these changes take effect.



The Local Security Policy setting for 'Network Access: Sharing and security model for local accounts' must be set to Classic. The DCOM Configuration folder can be found in the Tools folder, which is available on the Installation CD.

To configure SiPass integrated Client settings (remote clients only):

- ▷ Ensure that you have already created your SiPass Group in Windows, which contains the Windows user accounts that will be running SiPass integrated.
1. Click the Windows **Start** menu and select **Control Panel**. The *Control Panel* window will appear.
 2. Double-click **Administrative Tools**.
 3. Double-click **Components Services**.
 4. Double-click the **Component Services** icon.
 5. Double-click **Computers**.
 6. Right-click on the **My Computer** icon and select **Properties**.
 7. Select the *COM Security* tab.
 8. Click the **Edit Limits** button for Access Permissions.
 9. Click **Add** then enter **your SiPass Group** and click **OK**.

10. Tick **Remote Access** for your SiPass Group.
11. Click **OK**.
12. Click the **Edit Limits** button for Launch Permissions.
13. Click **Add**.
14. Enter your SiPass Group and click **OK**.
15. Tick all permissions for your SiPass Group.
16. Click **OK**.
17. Click **OK** again.
18. Close the open dialogs.

10.2 Legacy Settings

If you are migrating from an earlier version of SiPass integrated and wish to keep your current security settings, you will need to reset the SiPass Server security settings on the new version.

To reset the SiPass Server authentication:

1. If you are running Windows Server 2008, Windows 8, Windows 7 or Windows 2003 Server, click the Windows Start menu and select **Control Panel**. The *Control Panel* window will appear.
2. Double-click **Administrative Tools**.
3. Double-click **Components Services**.
4. Double-click the **Component Services** icon.
5. Double-click **Computers**.
6. Double-click the **My Computer** icon.
7. Double-click **DCOM Config**.
8. Right-click on the **advANTage Server** icon and select **Properties**.
9. Ensure the Authentication Level dropdown list is set to **None** and then click **OK**.
⇒ You will need to restart your **SiPass Server** service before these changes take effect.

The following settings are also required if you wish to use anonymous authentication. You do not need to apply these settings if they have already been done on your existing SiPass integrated system.

To configure SiPass Server settings:

1. If you are running Windows Server 2008, Windows 8.1, Windows 7 or Windows 2003 Server, click the Windows Start menu and select **Control Panel**. The *Control Panel* window will appear.
2. Double-click **Administrative Tools**.
3. Double-click **Components Services**.
4. Double-click the **Component Services** icon.
5. Double-click **Computers**.
6. Right-click on the **My Computer** icon and choose **Properties**.
7. Select the *Default COM Security* tab.

8. Click the **Edit Limits** button for Access Permissions.
 9. Ensure that the **Remote Access** option is enabled for the **Anonymous Logon**.
 10. Click **OK**.
 11. Click the **Edit Limits** button for the Launch and Activation Permissions.
 12. Ensure that the **Remote Activation** option is enabled for **Everyone**.
 13. Click **OK**.
 14. Double Click the **My Computer** icon.
 15. Double click **DCOM Config**.
 16. Right click on the **advanTage Server** icon and choose **Properties**.
 17. Select the **Security** tab.
 18. Select **Customize** from the Launch and Activation Permissions select.
 19. Click **Edit**.
 20. Ensure that **Everyone** is added to the group displayed.
 21. Ensure that the **Remote Activation** option is selected for the **Everyone** group.
 22. Click **OK**.
 23. Click **OK** again.
 24. Close the open dialogs.
- ⇒ You will need to restart your **SiPass Server** service before these changes take effect.

To configure SiPass integrated Client settings (remote clients only):

1. If you are running Windows Server 2008, Windows 8.1, Windows 7 or Windows 2003 Server, click the Windows Start menu and select **Control Panel**. The *Control Panel* window will appear.
2. Double-click **Administrative Tools**.
3. Double-click **Components Services**.
4. Double-click the **Component Services** icon.
5. Double-click **Computers**.
6. Right-click on the **My Computer** icon and choose **Properties**.
7. Select the *Default COM Security* tab.
8. Click the **Edit Limits** button for Access Permissions.
9. Ensure that the **Remote Access** option is enabled for the **Anonymous Logon**.
10. Click **OK**.
11. Click the **Edit Limits** button for Launch Permissions.
12. Ensure all permissions are enabled for **Everyone**.
13. Click **OK**.
14. Click **OK** again.
15. Close the open dialogs.

10.3 Connection of Enrolment readers

Enrolment readers are easily connected to SiPass integrated via your client PC. These readers fall into two categories, RS485 readers and RS232 readers. The following section is divided into two parts, and explains how to connect both types of readers. For more details on the reader connections or troubleshooting, please refer to the individual manual provided with that reader.

RS485 Readers:

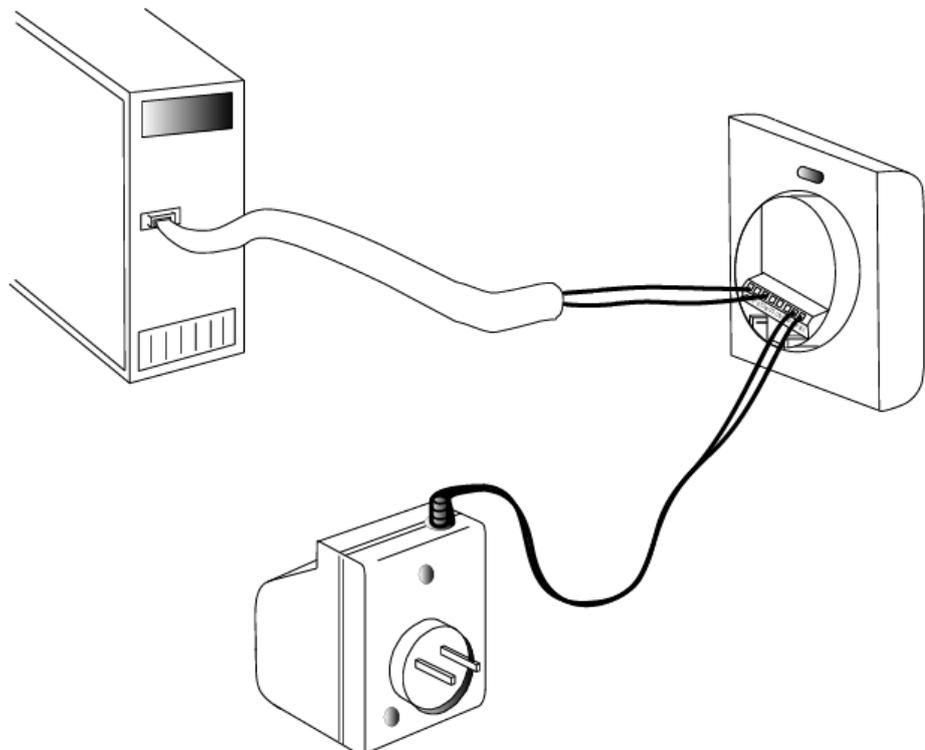
- CerPass Registration Reader
- Siemens Proximity Reader

RS232 Readers:

- SIEMENS AR6201-MX
- HID6055B (MIFARE)
- GemPlus CG1680
- GemPlus GEX332

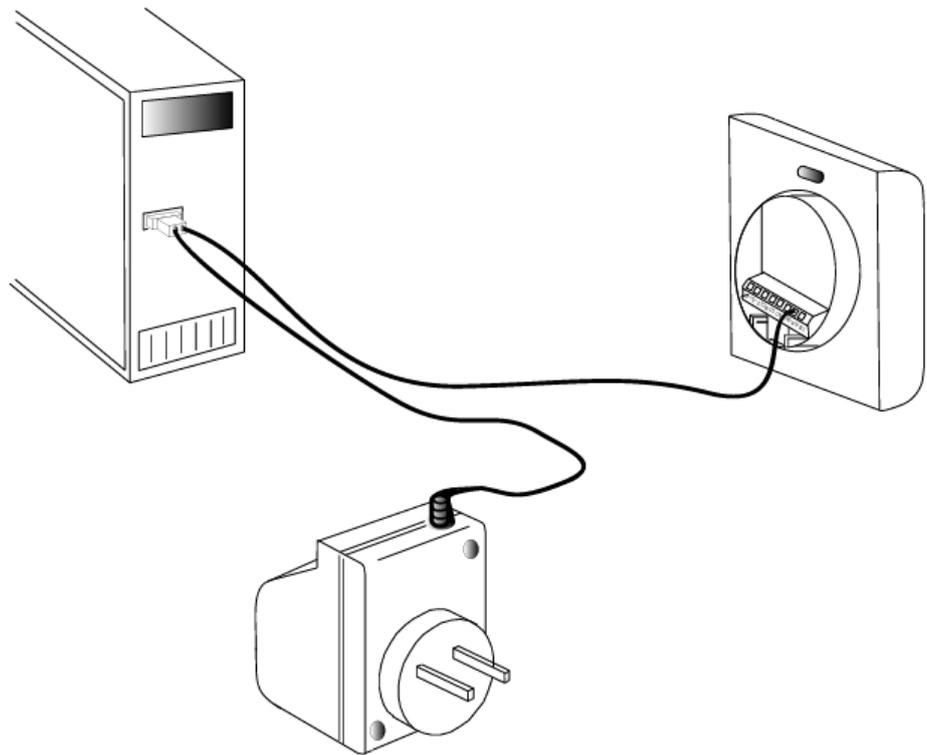
Connecting a Siemens Proximity Reader / CerPass Registration Reader to your PC:

1. Remove the reader from its packaging.
2. Connect the reader via an RS485-to-RS232 converter to the RS232 port of your SiPass integrated client PC, following the instructions supplied with the reader.
3. Connect a 12V power supply to the power connector on the readers, following the instructions supplied with the reader.
4. Configure the reader for operation with SiPass integrated, following the instructions in the User's Manual.



Connecting a SIEMENS AR6201-MX Reader to your PC:

1. Remove the reader from its packaging.
 2. Connect the DB9pin to the RS232 COM port on your PC, following the instructions supplied with the reader.
 3. Connect a 12V power to the rear of the DBP pin socket, following the instructions supplied with the reader.
- ⇒ The reader will now need to be configured. Please refer to the SiPass integrated User's Manual for more information about configuring the reader's profile.



Connecting GEMPlus Readers (CG1680, GEX332, Gem-ProX-P2):

1. Ensure that you have the correct SiPass integrated licence to use GEMPLUS readers.
 2. Remove the reader from its packaging.
 3. For GemEasyAccess332, solder into a DB9 pin connector as per reader instructions.
 4. For Gem-ProX-P2, plug the power adapter into the DB9 pin socket.
 5. Connect the DB9 pin into the RS232 COM port in your PC. As instructed per the diagram below.
 6. Connect the power supply adapter into a power outlet.
 7. Install the GEMPLUS drivers required. These are included with your SiPass integrated CD. You will need to unzip the file and install all drivers before proceeding.
- ⇒ The reader will now need to be configured. Please refer to the SiPass integrated User's Manual for more information about configuring the reader's profile.

Connecting a HID6055B Reader to your PC:

1. Remove the reader from its packaging.
 2. Connect the DB9 pin socket into the RS232 COM port in your PC, following the instructions supplied with the reader.
 3. Connect the power cable into a 12V power supply adapter, following the instructions supplied with the reader.
- ⇒ The reader will now need to be configured. Please refer to the SiPass integrated User's Manual for more information about configuring the reader's profile.

10.4 Troubleshooting

The following troubleshooting table may help you to overcome errors during the installation of SiPass integrated or its associated peripheral devices.

Error	Solution
Unable to Open printer dialogue.	Ensure that a printer has been configured in the Print Setup option under the SiPass integrated File Menu system. If this does not rectify the problem and does not allow the local client to be used, simply set the printer as a local printer and then return it to the network printer option.
Reader Name not verified.	When configuring readers in SiPass integrated and assigning the reader with an "Image Verification" mode of operation, the following symbols cannot be used in the name of that reader: / \ : ? * < >
Smart Card reader not recognized during installation. (Error Message displayed)	When installing a smart card reader that is not recognized, an error message will be displayed, stating that the reader cannot be selected, or is not available or not installed. To rectify the situation, uninstall the drivers and re-install them again.



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