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Genesys Skills Management Automated Install and Upgrade Guide

Install or Upgrade process

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Install or Upgrade process

If the previous version of the software was installed/upgraded via the automated installer then follow the procedure [Upgrading from a previous automated install/upgrade](#). Alternatively, if either Performance DNA or Training Manager was installed/upgraded manually, follow the procedure [Upgrading from a manual installation/upgrade](#) to prepare the application server for an automated install/upgrade.

Important

When upgrading (either manual or automated), ensure that all Login Ids within the system are unique. If there are duplicate Login Ids, the Performance DNA installer will not allow you to proceed with the upgrade until you resolve the duplicates. You can view the duplicate Login Ids in the installer's log file. The Login Ids within the system must be unique for both on-premise and Azure installations.

Upgrading from a manual installation/upgrade

Follow the steps below to prepare the server for installation/upgrade:

- Ensure that all [prerequisites](#) are present and at minimum supported version (unless specified).
- Backup up all databases (Performance DNA, Training Manager, DNA, ReportingDB/Skills ManagementReports), leave the existing databases on the database server, they will be automatically upgraded via the installer/upgrader.
- Back up all web server application files, including: sites, web services, storage folders: QMedia, crystal reports, custom company logos in Portal (if applicable), log files
- Remove all sites, services, virtual directories and related application pools from IIS and remove the original directories from the web server.

Once these steps have been performed, continue with the steps in the following section.

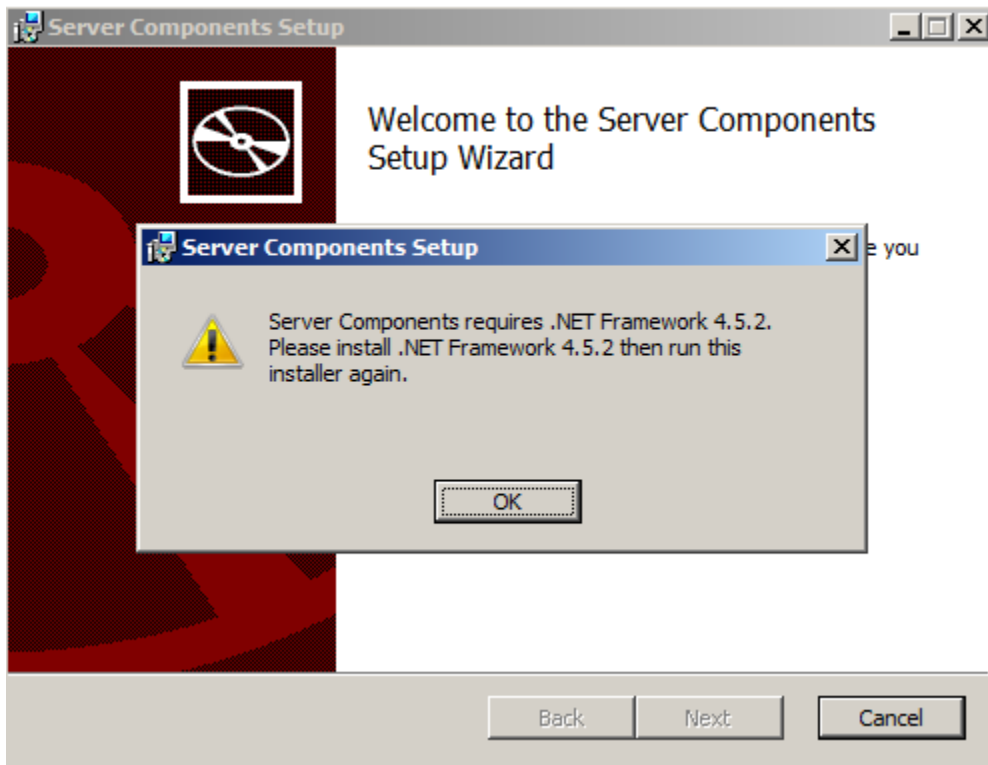
Upgrading from a previous automated install/upgrade

Tip

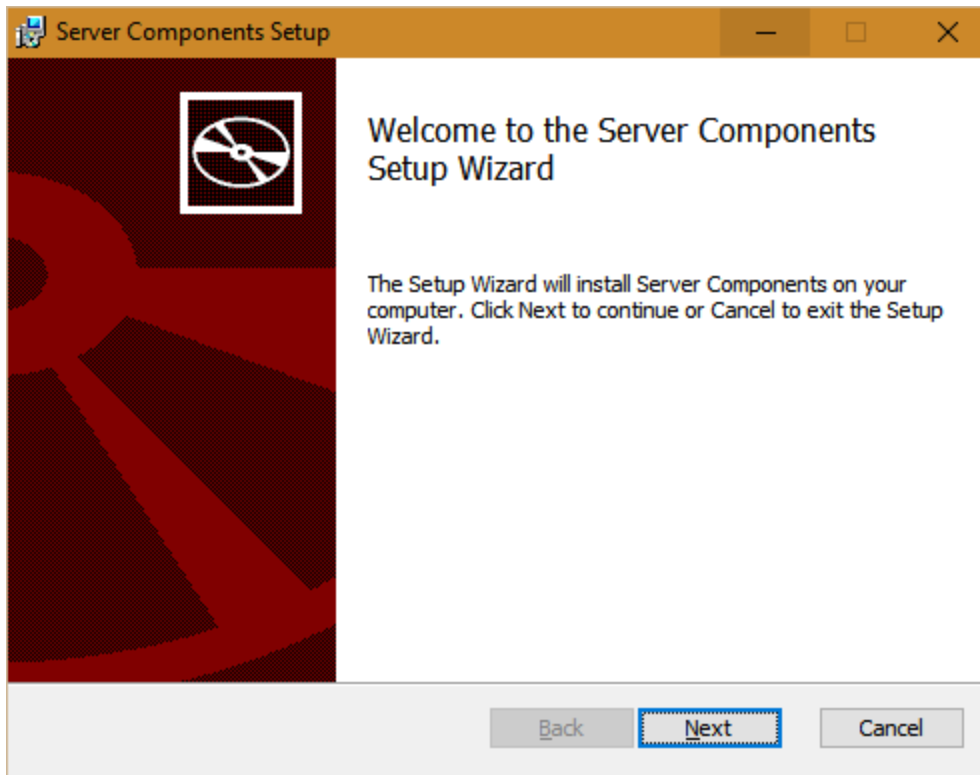
If you wish to upgrade Skills Management from version 4.2.0 or earlier you must first

uninstall the old Skills Management server components via Control Panel -> Programs and Features.

Copy the release package to the web server and run the **Skills ManagementSetup_v9.0.0.0.msi** executable. On execution, the installer will check that the required version of .NET Framework is installed.



Click OK then Finish to exit the installer before upgrading to the required version of .Net Framework and re-running **Skills ManagementSetup_v9.0.0.0.msi**.



Click **Next** on the first screen.

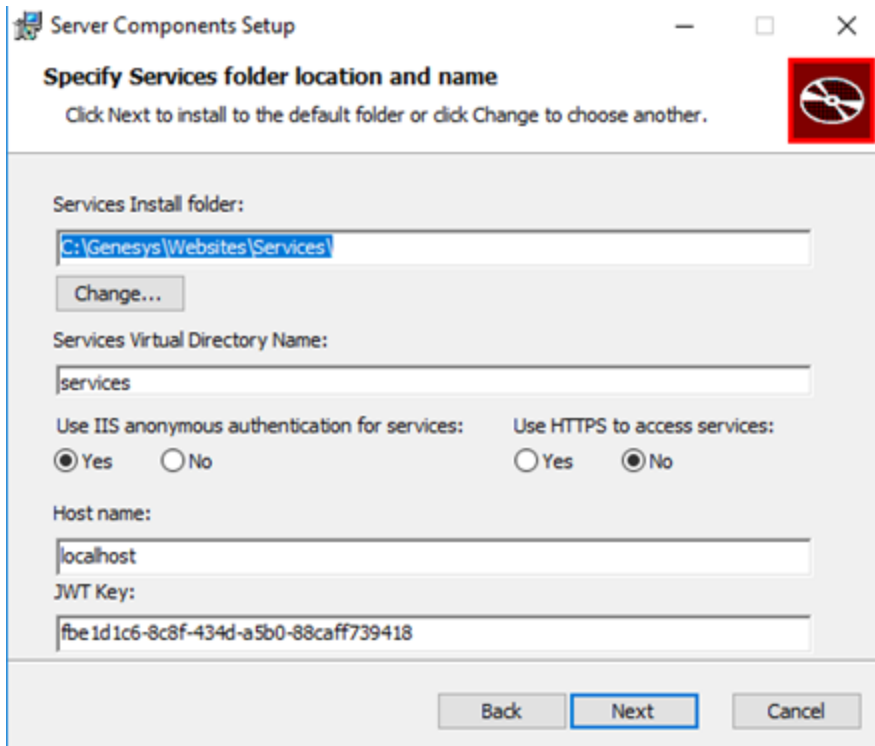
The next screen allows you to modify the location of the web services, the virtual directory name for the web services and the hostname of the web server. There is also an option to enable IIS anonymous authentication for services (default). Unchecking this option will result in windows authentication being used for the services.

If you select the **Use HTTPS to access services** option, then all the applications and services will be configured in IIS to use HTTPS rather than HTTP. Note that in this event, you should ensure that your webserver has a valid HTTPS binding, and that the host name you enter is valid for the certificate configured for the site in IIS.

The GUID for the field **JWT Key** is unique for each installation and is used to authenticate communication between front-end and back-end services and service-to-service communications. After installation is complete, a new GUID will be added to the web.config files and used to log in to PDNA, API, and the underlying service applications.

Important

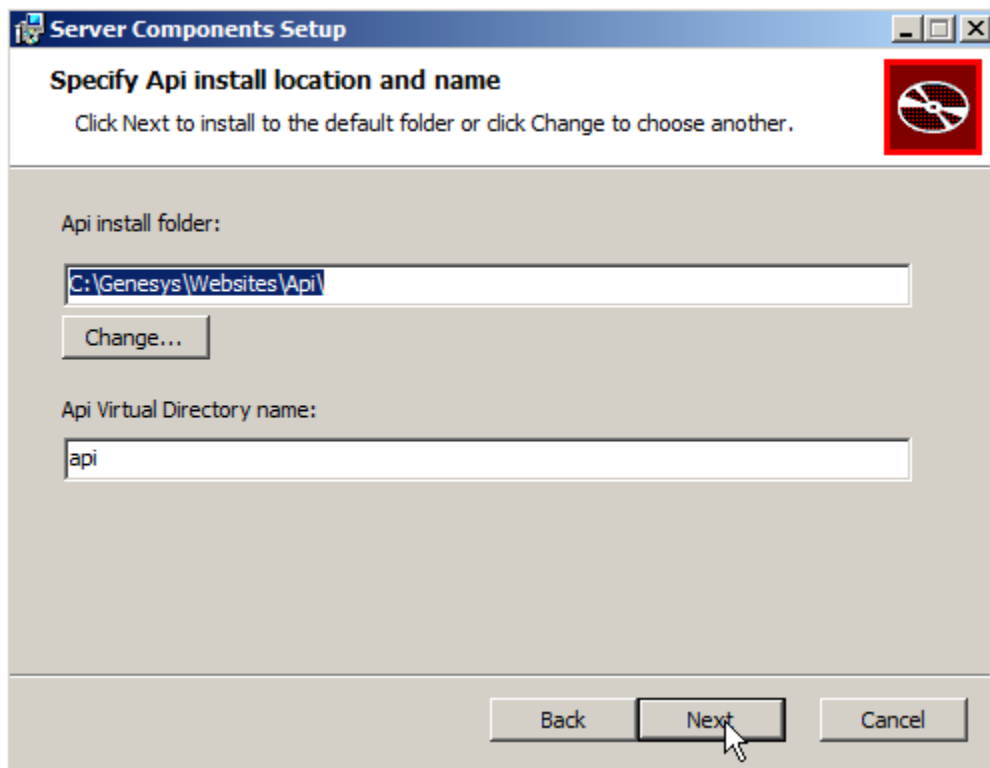
The GUID is generated automatically in the installer. But, it can be overridden with a custom GUID.



The screenshot shows the 'Server Components Setup' window with the title 'Specify Services folder location and name'. Below the title is a sub-header 'Click Next to install to the default folder or click Change to choose another.' and a red CD icon. The form contains the following fields and controls:

- Services Install folder:** A text box containing 'C:\Genesys\Websites\Services' with a 'Change...' button below it.
- Services Virtual Directory Name:** A text box containing 'services'.
- Use IIS anonymous authentication for services:** Radio buttons for 'Yes' (selected) and 'No'.
- Use HTTPS to access services:** Radio buttons for 'Yes' and 'No' (selected).
- Host name:** A text box containing 'localhost'.
- JWT Key:** A text box containing 'fbc1d1c6-8c8f-434d-a5b0-88caff739418'.
- Buttons:** 'Back', 'Next' (highlighted with a blue border), and 'Cancel'.

Update the settings as required, then click **Next**.

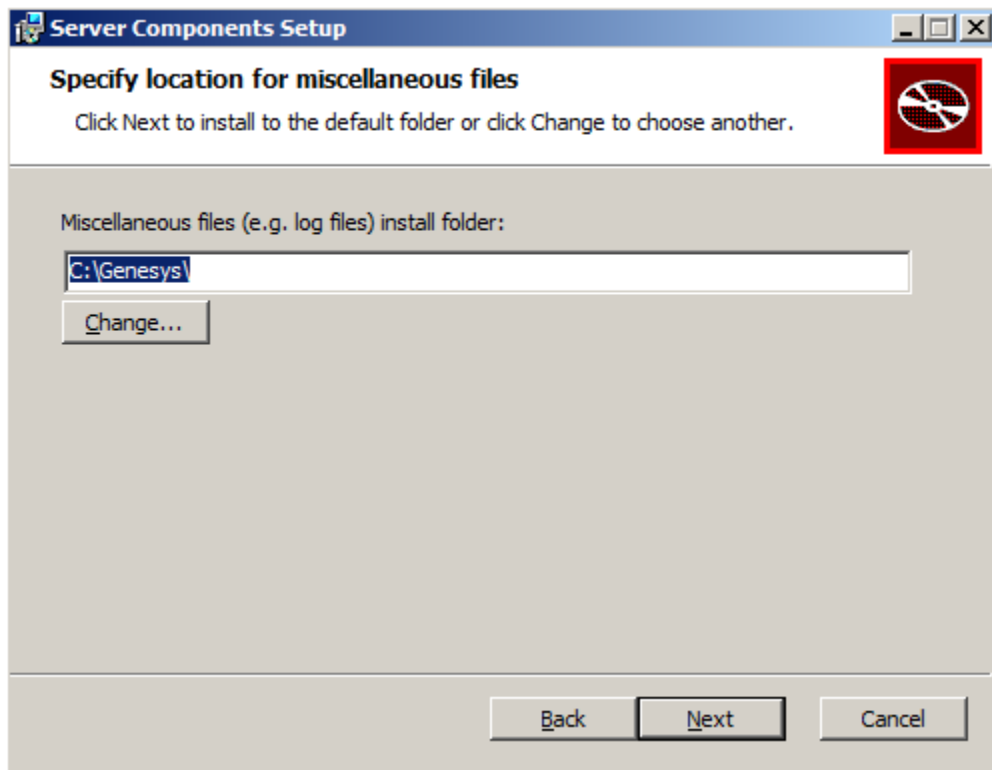


The screenshot shows the 'Server Components Setup' window with the title 'Specify Api install location and name'. Below the title is a sub-header 'Click Next to install to the default folder or click Change to choose another.' and a red CD icon. The form contains the following fields and controls:

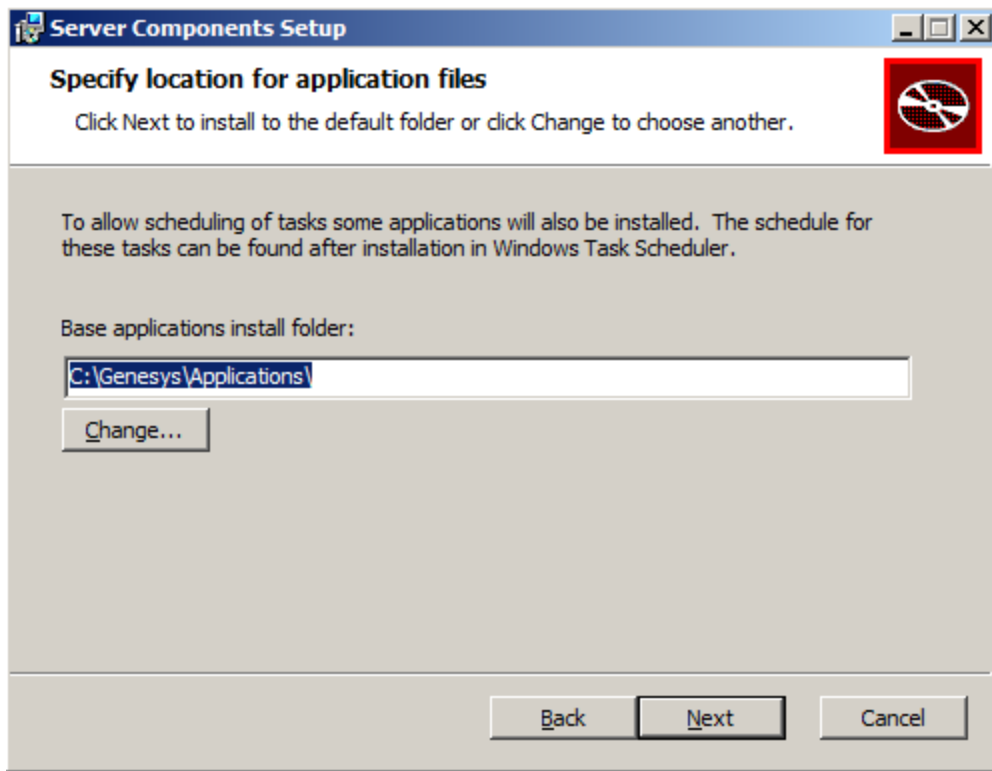
- Api install folder:** A text box containing 'C:\Genesys\Websites\Api\'. Below it is a 'Change...' button.
- Api Virtual Directory name:** A text box containing 'api'.
- Buttons:** 'Back', 'Next' (with a mouse cursor pointing to it), and 'Cancel'.

The next screen allows you to specify the physical location and virtual directory name of the Skills Management API. The values on this screen can be left at their default values. Click **Next** once you have specified these values.

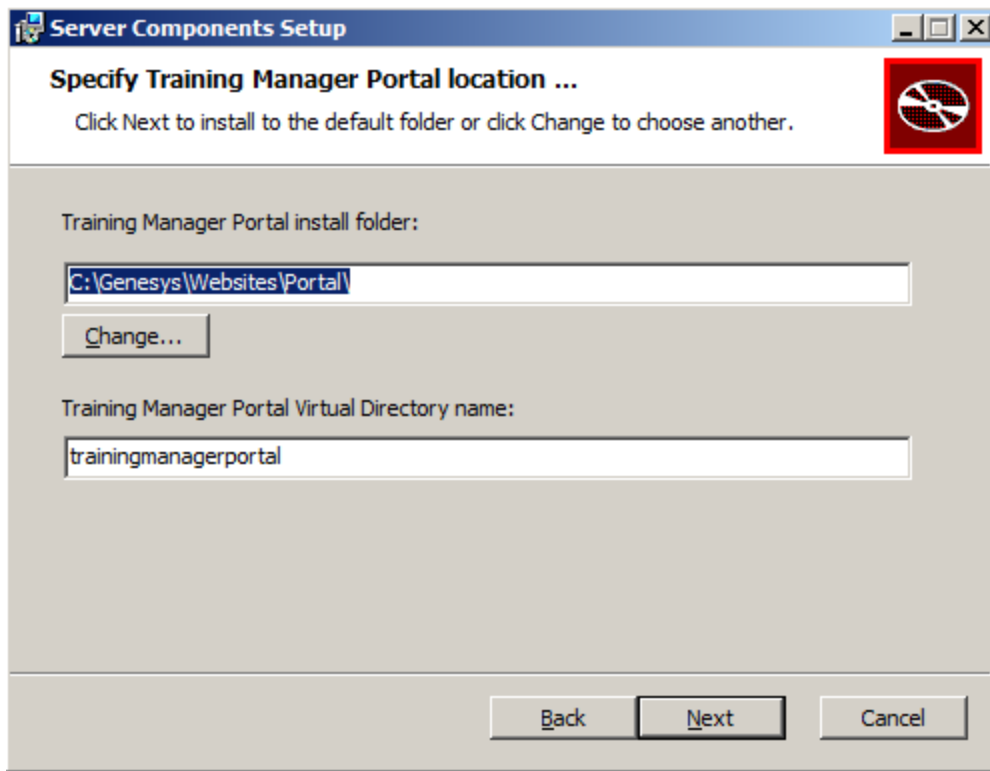
The next screen allows the updating of the path for the miscellaneous files folder. Update the path if required, then click **Next**.



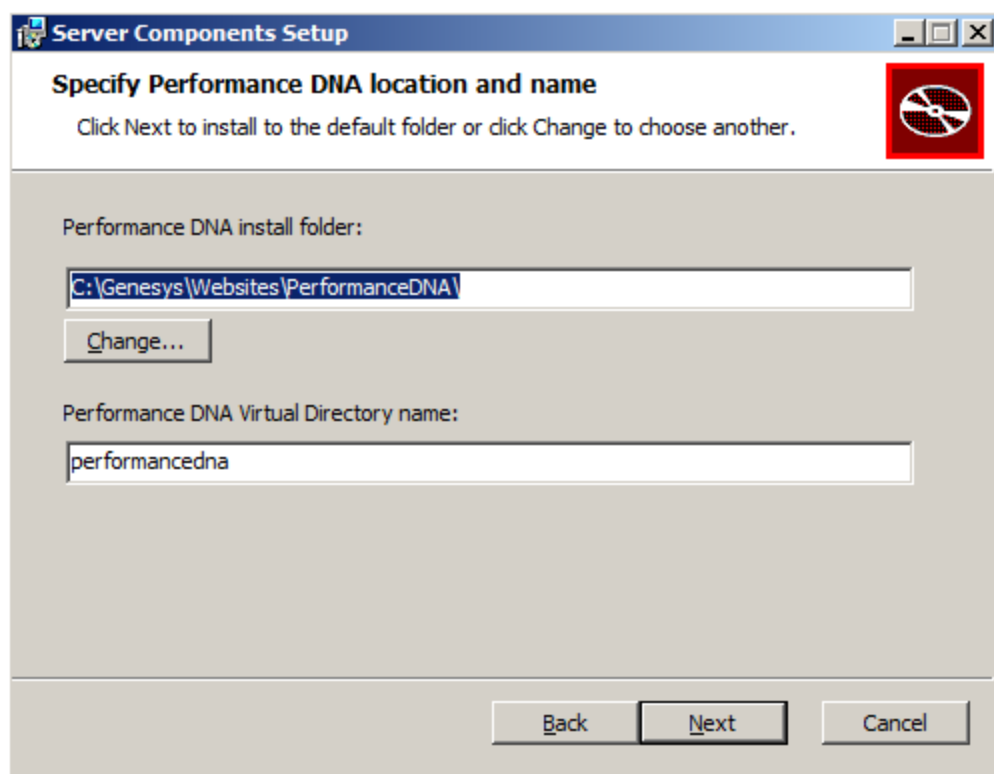
The next screen allows the updating of the path for the Applications folder. Edit the details if required, then click **Next**.



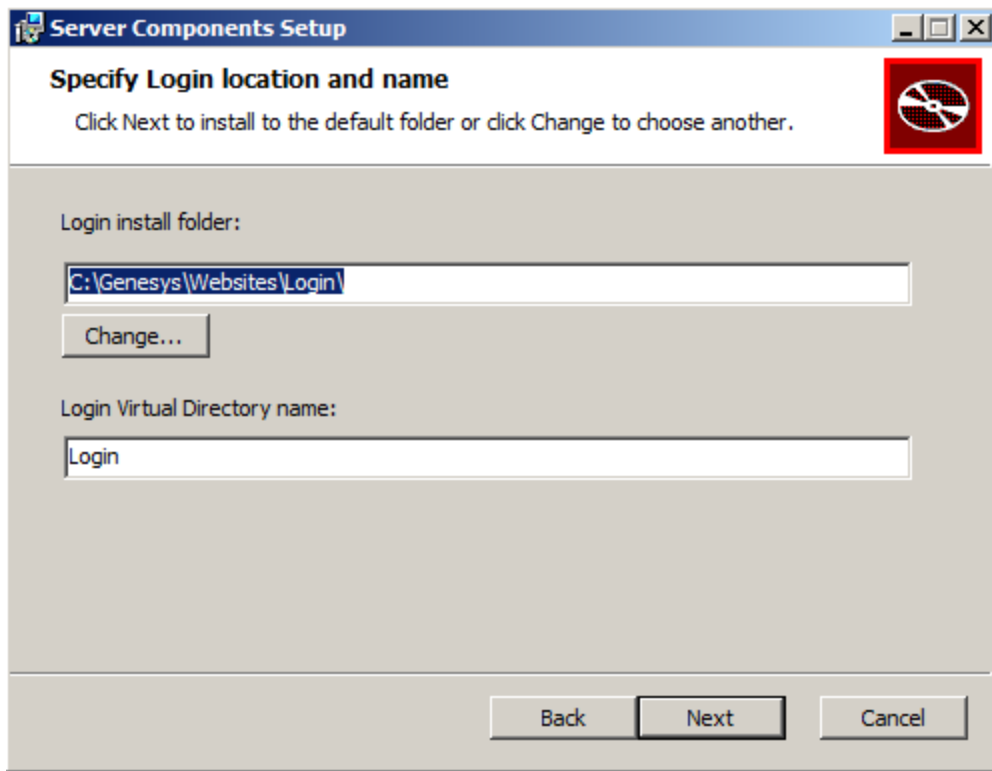
The next screen allows the updating of the path to the Training Manager Portal folder on the web server and the name of the Training Manager Portal IIS virtual directory. Edit the details if required, then click **Next**.



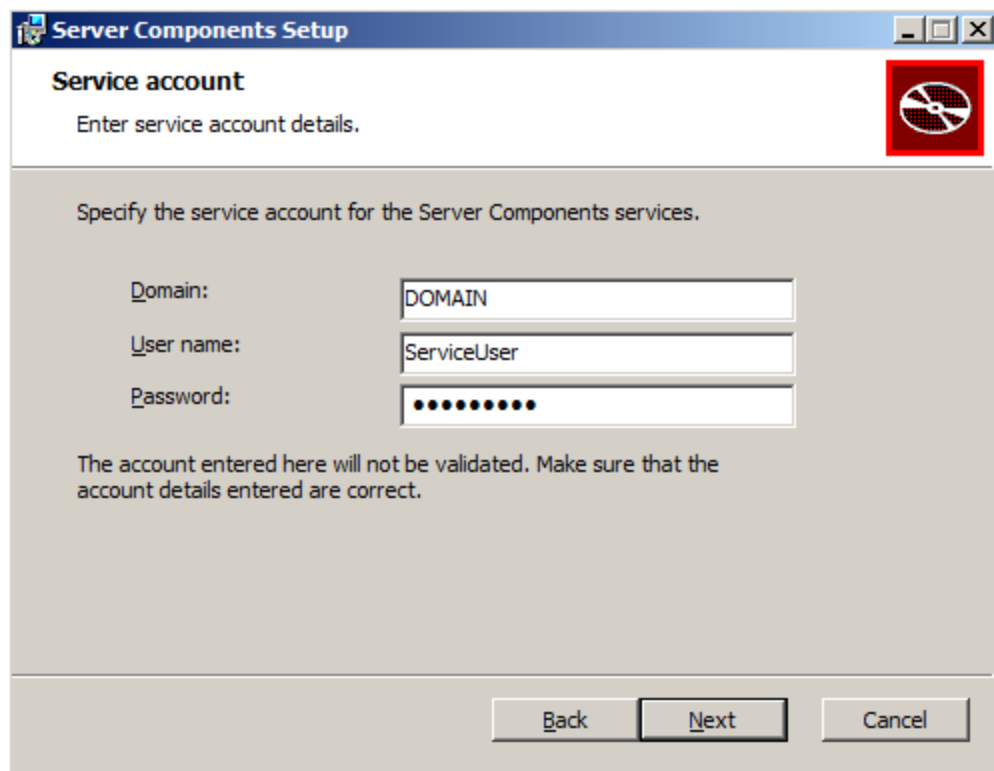
The next screen allows the updating of the path and IIS virtual directory for the Performance DNA site. Update the details if required, then click **Next**.



The next screen allows the updating of the path and IIS virtual directory of the Login site. Update the details if required, then click **Next**.



The next screen requires the provision of a service account which is used to install the services. This account should exist on the machine and have local administrator privileges. As mentioned in the prerequisites, the account must have “log on as a service” permissions.



Server Components Setup

Service account

Enter service account details.

Specify the service account for the Server Components services.

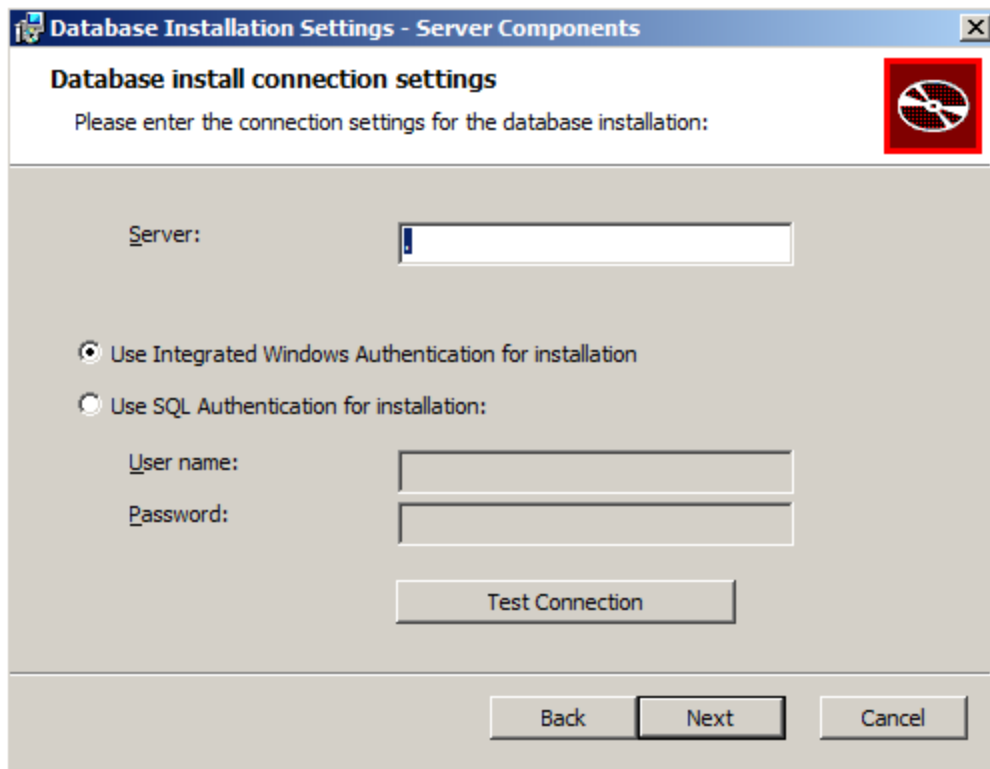
Domain:

User name:

Password:

The account entered here will not be validated. Make sure that the account details entered are correct.

The next screen allows for changes to be made to the database settings. Edit the changes if required, then click **Test Connection** to validate the connection settings and SQL Server release.

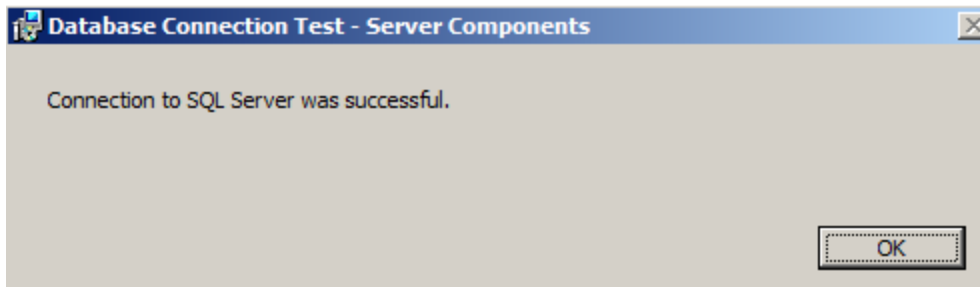


If the SQL Server release is not supported a Database version warning will be given.

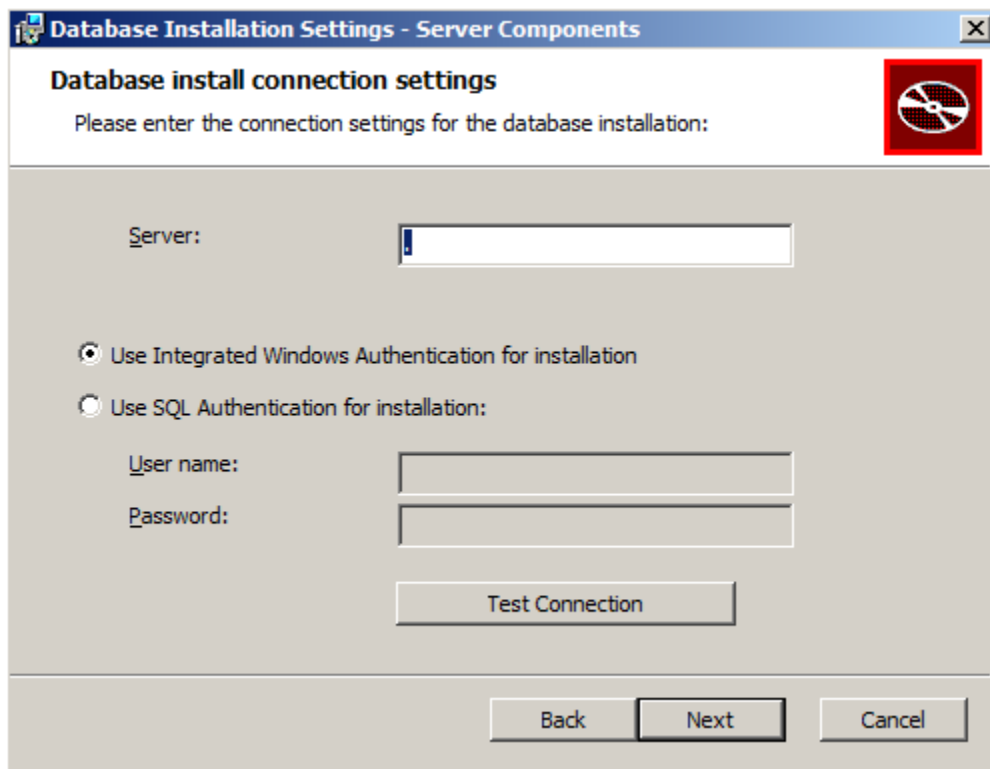


If a warning is given, click OK and cancel the install process before completing the required SQL server upgrade. Following the SQL Server upgrade re-run the **Skills ManagementSetup_v9.0.0.0.msi**

If the SQL Server release is supported and the details provided are valid you will receive the following confirmation:

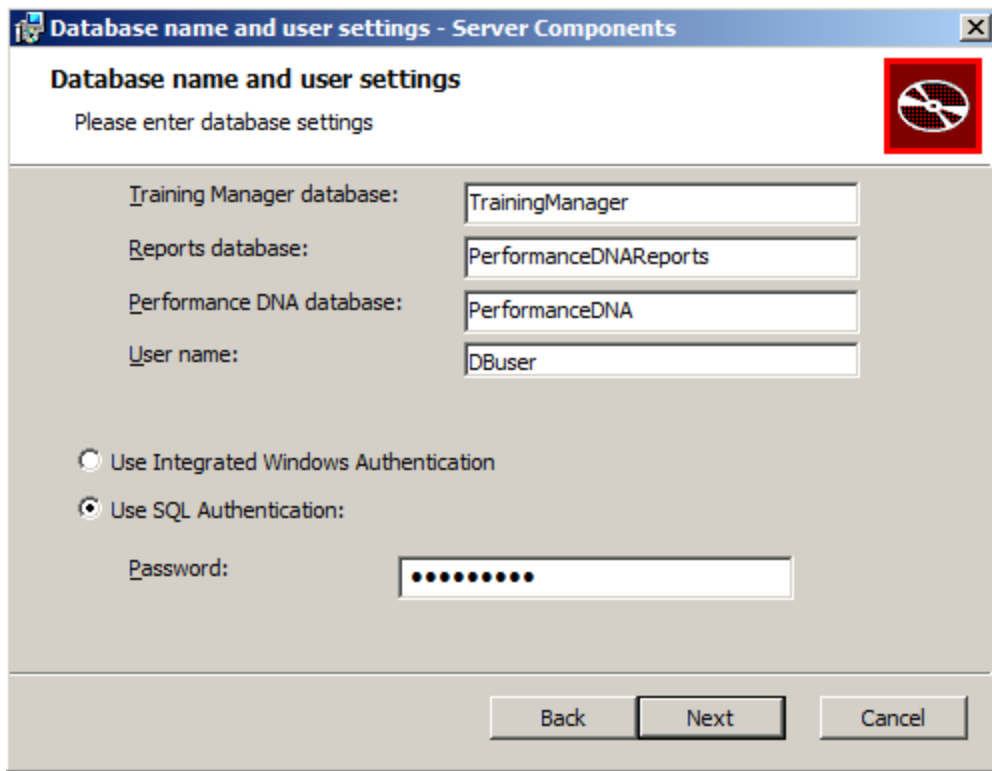


Click **OK** to continue with the installation.



Following a successful connection test click **Next**.

The following screen allows for changes to be made to the database names and the database account used to login to the databases. If you are installing the software for the first time, the values in these fields should be left at their defaults. If you are upgrading the product, ensure that the databases specified match the names of your existing databases and that you enter the existing database user's details in the user name and password fields correctly.



Database name and user settings - Server Components

Database name and user settings

Please enter database settings

Training Manager database: TrainingManager

Reports database: PerformanceDNAReports

Performance DNA database: PerformanceDNA

User name: DBuser

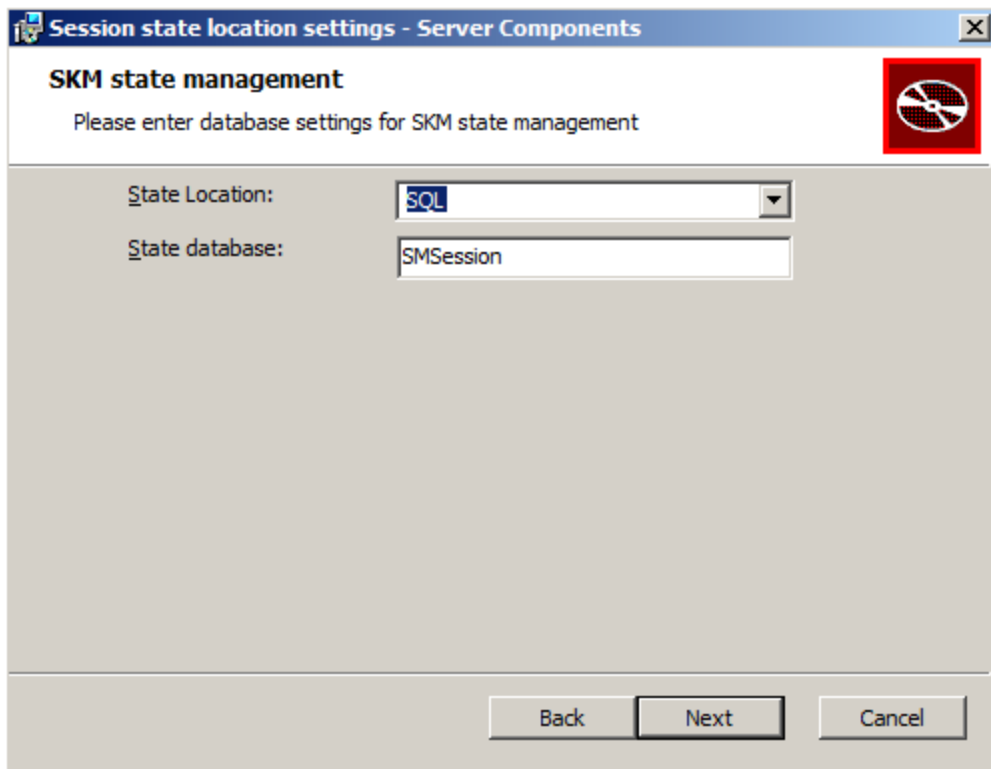
☐ Use Integrated Windows Authentication

☒ Use SQL Authentication:

Password:

Back Next Cancel

Update these fields as required, then click Next to move to the SKM state management screen.



Session state location settings - Server Components

SKM state management

Please enter database settings for SKM state management

State Location:

State database:

Back Next Cancel

On this screen, you can select the type of State location that must be used:

- **SQL** - Select this option for multi-server environments or any environment that uses a load balancer.
- **Memory** - Select this option for smaller single server environments.

When selecting SQL as the state location update the State database with the name of the database that will be used/created for the session states.

Update these fields as required, then click Next to move to the Configure Tenant Administration user screen.

This screen is used to specify the username and password for the tenant administration area. If you have already specified a password other than 'password' for the tenant administration area, you can leave this form with default values, or modify the username and/or password.

Tenant Selection - Server Components

Configure Tenant Administration user

Please provide details for the Tenant Administration user.

Specify the account details for the Tenant Administration pages.

User name:

☐ Leave current Tenant Administration password unchanged.

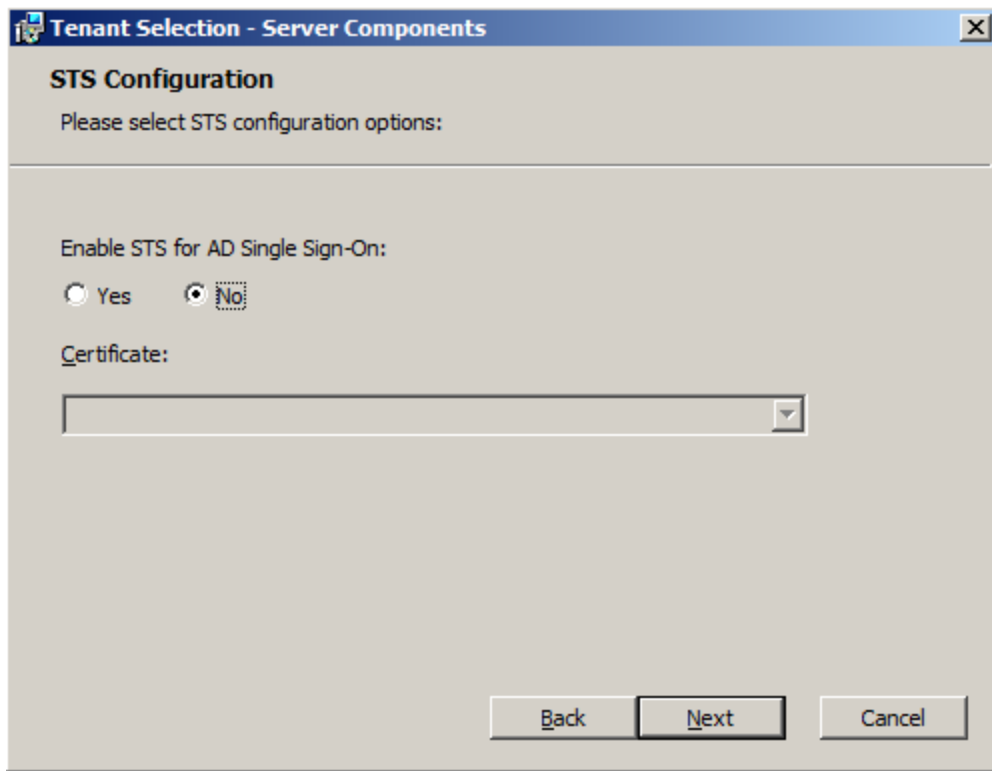
☒ Specify new password:

Password:

Confirm Password:

The password must be between 8 and 50 characters and cannot be 'password'.

Update these fields as required, then click Next to move to the STS Configuration screen.

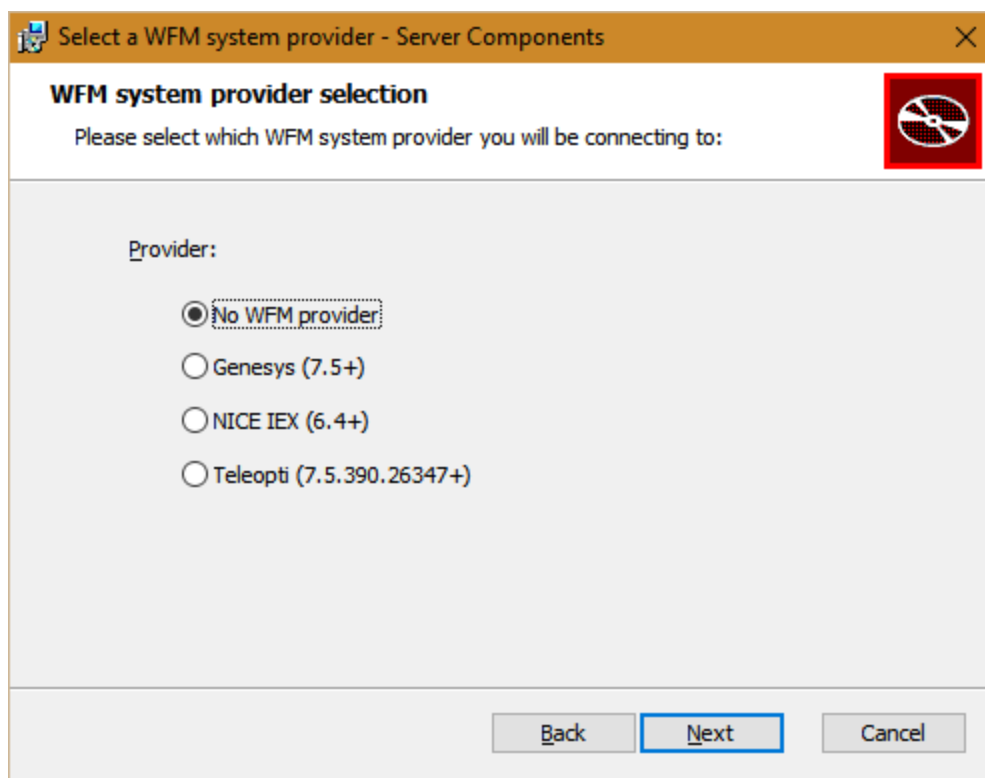


If you wish to use Active Directory authentication via the STS service for authenticating users, click the Yes option in this screen and specify the certificate that you wish to use and the Site administration domain group that will have administrator access to the suite.

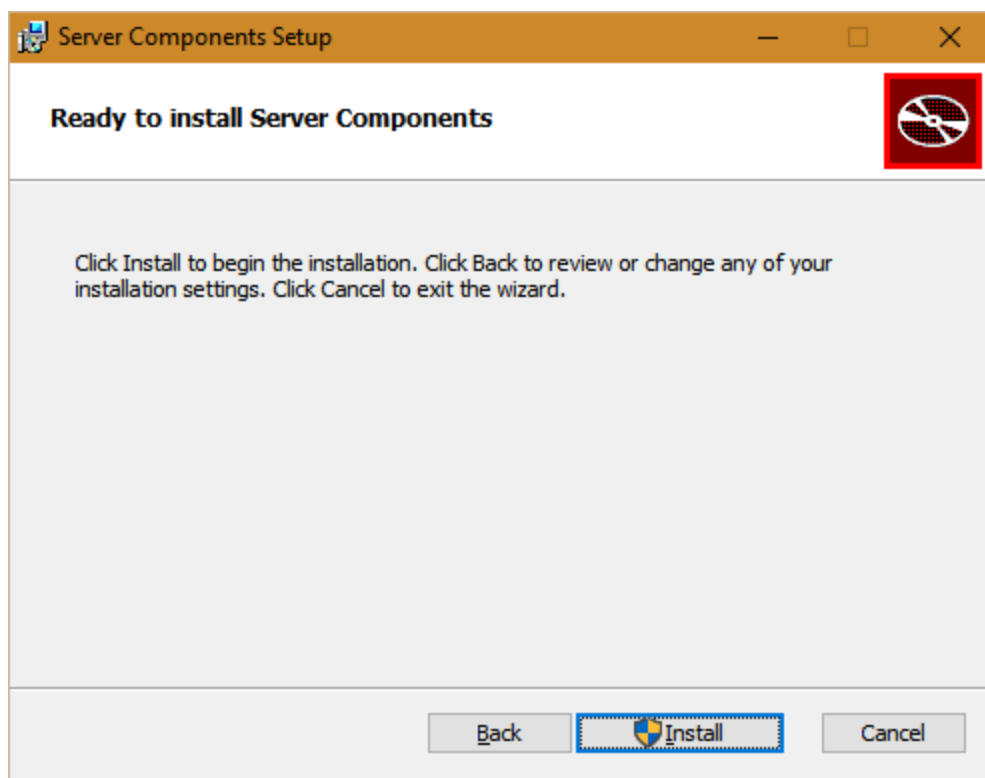
If you are upgrading a Skills Management instance that was previously using the STS service, tick Yes in this screen and specify the certificate and Site Administration Domain Group that you wish to use.

If you are installing a new Skills Management instance and wish to use the STS service, tick Yes in this screen, specify the certificate you want to use, specify the site administration domain group and click next. Proceed with the installation. Once it has completed, run the STSConfiguration application from the Release/STSConfig folder and follow the steps specified in the [Genesys Skills Management Installation and Configuration Guide for Active Directory SSO](#) document to complete the STS Service configuration.

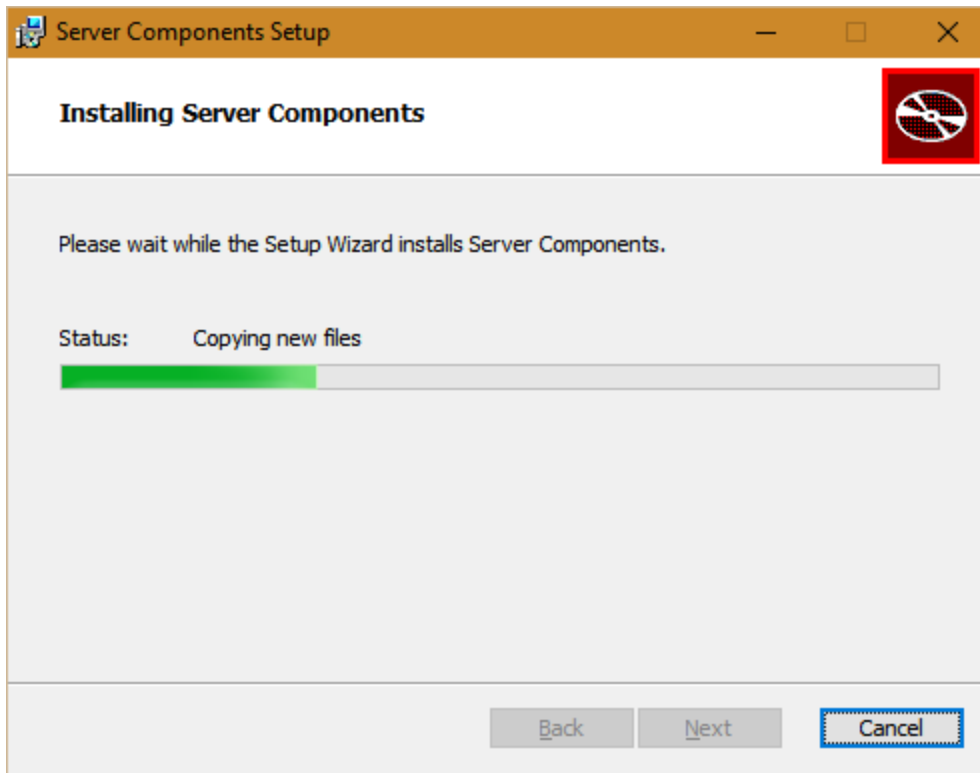
Update these fields as required, then click **Next** to move to the WFM system provider selection screen.



Select a WFM system provider if required, then click **Next**.



Click **Install** on the next screen to begin the install/upgrade process.



The final screen will confirm that the install/upgrade of the sites and services was completed. In version 9.0 this message will also contain the path to the PortalUsers.csv file which is required to complete the upgrade. Click **Finish** to close the application. The SkillsManagerWS Diagnostics page will launch allowing you to set up a license for Training Manager.

If you have run the setup program to upgrade your application from a previous version that was either installed/upgraded manually, ensure you copy the content of the following folders to the new folders created by the automated setup program:

- QMedia
- CrystalReports/Reporting
- Logs
- Skills Portal custom company logo

If you require STS and/or the Notifications client, follow the steps in the [Genesys Skills Management Installation and Configuration Guide for Active Directory SSO](#) and [Genesys Skills Management 9.0 Notifications Client Installation Guide](#) documents.

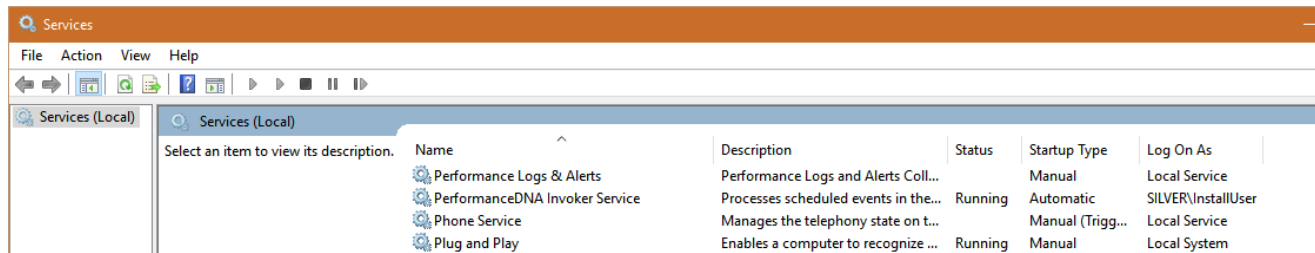
For **OrgData** please read [OrgData](#) section.

Check service credentials

Verify the credentials you entered were correct by checking the **Services** Administrative Tool.

Locate the **Skills Management Invoker Service** in the list of services, and ensure it is running. If it

is not, this may be because the service account was not given log on as a service rights.



If the service is not running and you are using a local computer account (rather than a domain account) you can double-click the service and correct the credentials in the **Log On** tab.

If you are using a domain account, ensure that it has the rights to log on as a service and refresh the local group policy by running **gpupdate /force** from an elevated command prompt.

Enabling Automatic Application Startup

If the server has IIS 7.5, then you must install the out-of-band module. If the server has IIS 8+, then you must initialize the application by following the instructions at <https://www.iis.net/downloads/microsoft/application-initialization>. Once either the application initialization (IIS 8+) or the out-of-band module (IIS 7.5) is installed, you must modify the **applicationHost.config** and application's **web.config** files by following the procedures described below.

Configuring IIS

To configure IIS

1. Open IIS and expand the root node.
2. Select **Application Pools** and right click any application pool that the application uses by selecting **Advanced Settings**.
3. Set **start mode** to always running.
4. You must configure at least one site in each application pool to preload. You can do this by,
 1. Search the required application under the **Sites** node.
 2. Right click the application and select **Manage Application > Advanced Settings**.
 3. Change **Preload Enabled** to True.

Configuring web.config file

For the application that is set to preload, you must specify the application initialization details in the corresponding **web.config** file.

1. In IIS, right-click the Application that is set to preload and select **Explore**.
2. Locate the **web.config** file and open it in a text editor.

3. Locate the `system.webServer` section of the XML and add the following `<applicationInitialization>` section:

```
<system.webServer> <br>  
<applicationInitialization > <br>  
<add initializationPage="xxxxxx"/> <br>  
</applicationInitialization> <br>  
</system.webServer>
```

Where, you should replace **xxxxxx** with one of the following values, depending on the type of service:

- **WCF:** `/ {servicename}.svc` (or, if `/default.aspx` is available then an svc file is not required)
- **REST:** `/HealthCheck {creating in another task}`
- **Web application:** `"/`

Important

Repeat this process for all the Applications that are set to preload.