

OneGradePlus Installation and Configuration Guide

This guide describes the installation, upgrade and configuration of the OneGradePlus Web Application and Import Service. Please refer to the separate **OneGrade DB_Client Upgrade Guide** for details about installing and updating the SQL Server database and Windows Application. Further details about the Import Service are in the **Combined Import and Scheduler User Guide**.

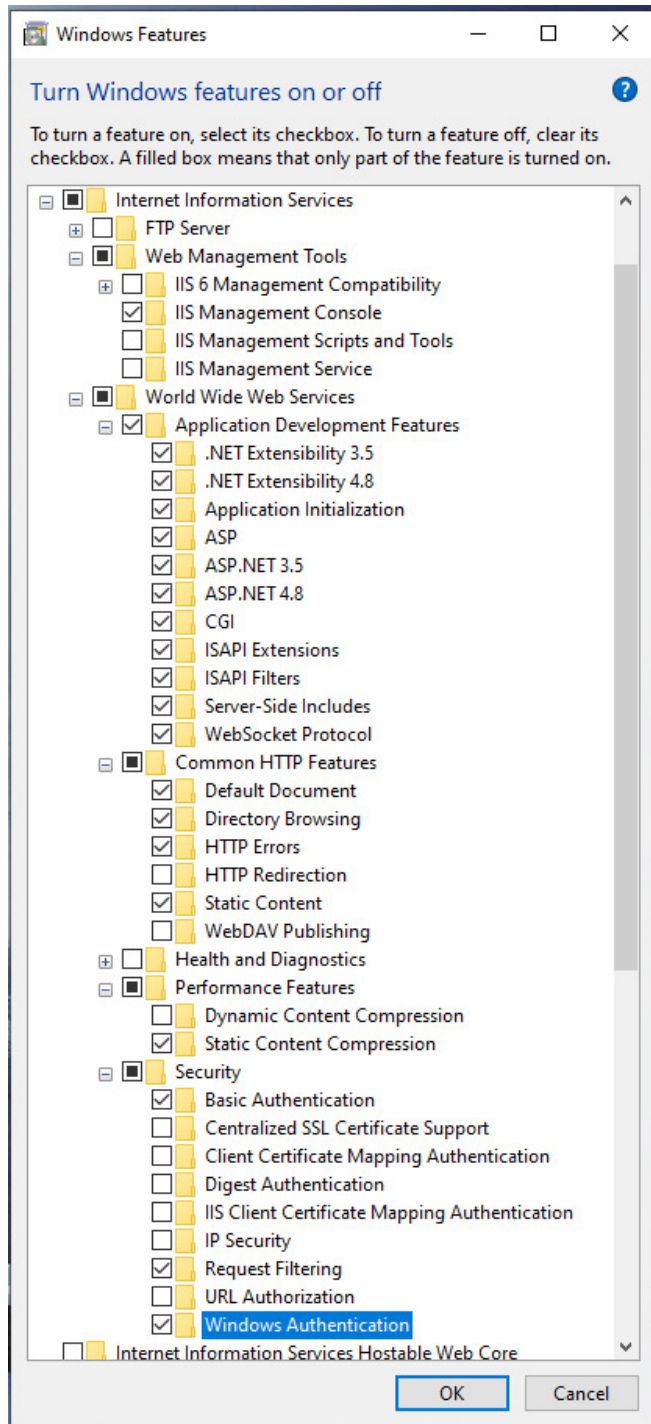
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IIS Requirements

OneGradePlus requires Microsoft Internet Information Services (IIS). Using Windows Features, turn on the following features:

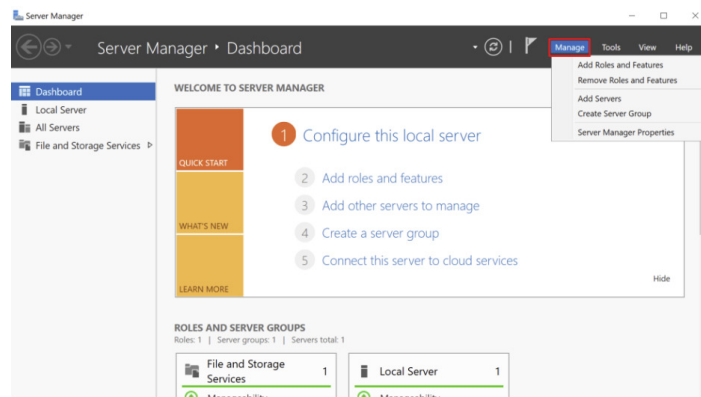


Note: the minimum .NET version required for OneGradePlus is 4.8.0.

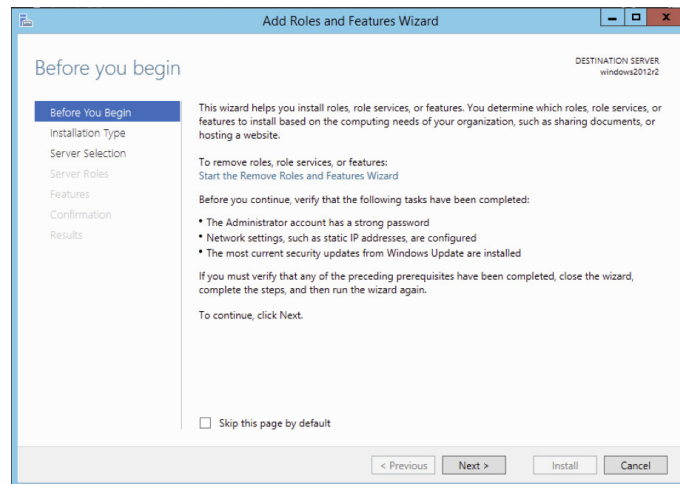
OneGradePlus Installation and Configuration

In Windows Server (2022), accessing Windows Features is done via Server Manager.

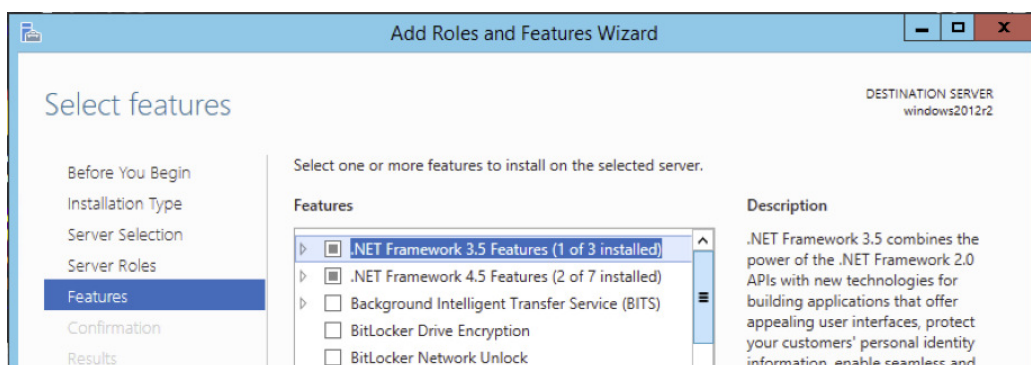
Open Server Manager, click Manage in the menu and select “Add Roles and Features”:



Follow the Wizard through by selecting the appropriate options and pressing “Next >”:








On the Features step of the Wizard, turn on the same options as displayed on Page 2 of this guide:

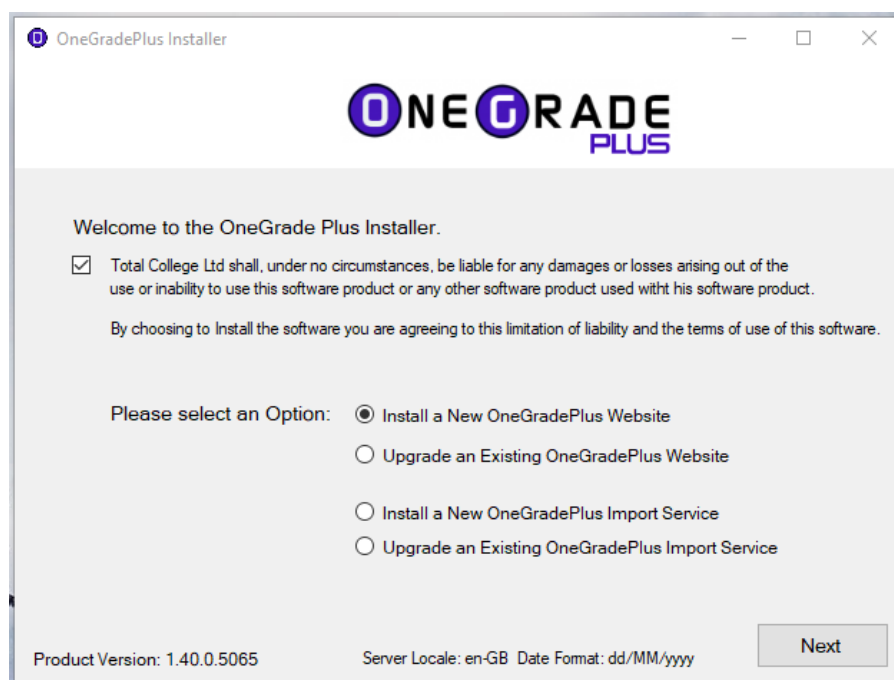


Installation

After extracting the installation files locally on the server on which IIS is installed, run the file OneGradePlusInstaller.exe:

	LogFiles	30/01/2024 14:26	File folder	
	OneGradePlus-Website	30/01/2024 14:26	File folder	
	Microsoft.Web.Administration.dll	08/03/2016 10:28	Application exten...	144 KB
	OneGradePlusInstaller.exe	30/01/2024 13:53	Application	316 KB
	OneGradePlusInstaller.exe.config	19/09/2023 15:23	XML Configuratio...	1 KB

After ticking the Agreement checkbox, you will be asked to Install or Upgrade the OneGradePlus Website. Select to Install the OneGradePlus Website and press Next:

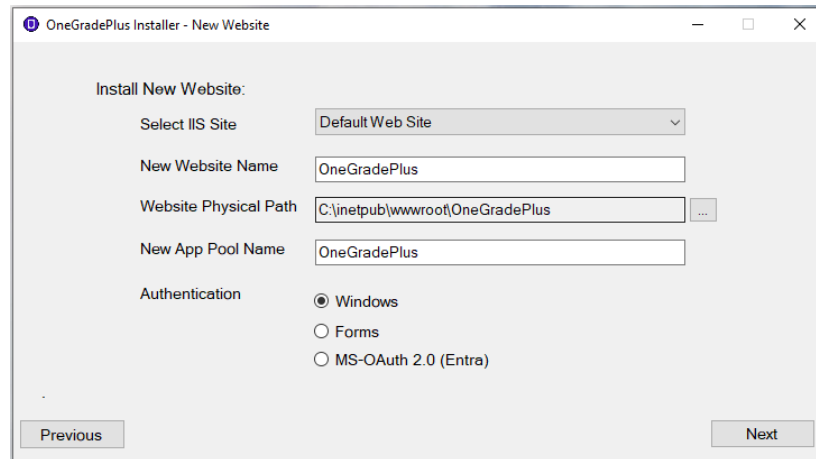


At the bottom of the screen, the server locale is displayed. If this is not en-GB with a date format of dd/MM/yyyy, this may indicate that the IIS_IUSRS user (that IIS runs under – by default) and the LOCAL_SERVICE user (that the services run under – by default) are not also and should be checked. See the section in this document “Changing the Locale of the Built-in Service Accounts”.

Note: Installing and Upgrading the OneGradePlus Import Service is described later in this document.

On the next step, you will be asked to select the IIS WebSite to install the OneGradePlus Web Application under. You may alter the name, file path and application pool name as necessary. You may also select to use Windows Authentication (recommended) or Forms Authentication. Note that setting the authentication requires some extra configuration within IIS after the installation. Full details are described later in this document.

Note: If possible, it is worth considering setting up a separate IIS Web Site within IIS for OneGradePlus as it will cause minimal disruption to other web applications if it needs to be restarted.

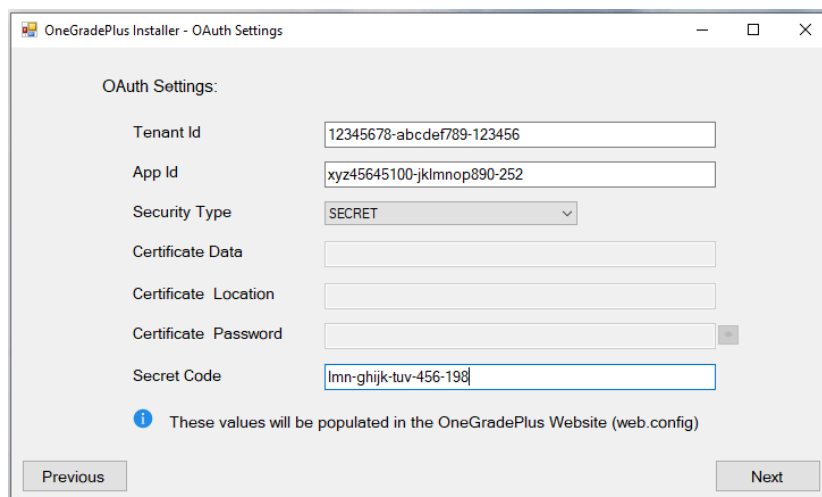


The 'OneGradePlus Installer - New Website' dialog box contains the following fields and options:

- Select IIS Site:** A dropdown menu with 'Default Web Site' selected.
- New Website Name:** A text box containing 'OneGradePlus'.
- Website Physical Path:** A text box containing 'C:\inetpub\wwwroot\OneGradePlus' with a browse button (...).
- New App Pool Name:** A text box containing 'OneGradePlus'.
- Authentication:** Three radio buttons: 'Windows' (selected), 'Forms', and 'MS-OAuth 2.0 (Entra)'.
- Navigation:** 'Previous' and 'Next' buttons at the bottom.

If you choose Windows or Forms Authentication, pressing Next opens the database connection step. If you select to use MS-OAuth 2.0 (Entra) authentication, you will be asked for your MS-OAuth 2.0 (Entra) connection details prior to entering the database connection details:

You will be asked for the Tenant ID and Application ID along with your preferred method of Security and the details. All of these details may be changed later from within IIS under the Application Settings for the Web Application.



The 'OneGradePlus Installer - OAuth Settings' dialog box contains the following fields and options:

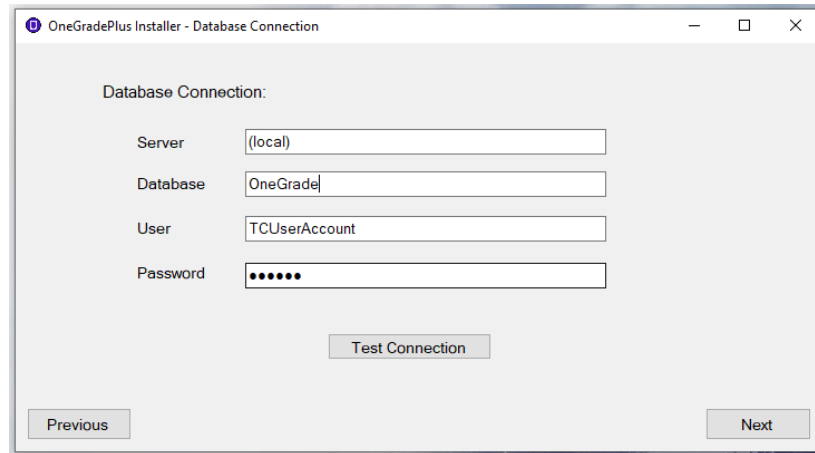
- Tenant Id:** A text box containing '12345678-abcdef789-123456'.
- App Id:** A text box containing 'xyz45645100-jklmnop890-252'.
- Security Type:** A dropdown menu with 'SECRET' selected.
- Certificate Data:** A text box.
- Certificate Location:** A text box.
- Certificate Password:** A text box with a toggle icon.
- Secret Code:** A text box containing 'lmn-ghijk-tuv-456-198'.
- Information:** An information icon (i) and text: 'These values will be populated in the OneGradePlus Website (web.config)'.
- Navigation:** 'Previous' and 'Next' buttons at the bottom.

More details about registering the OneGradePlus Web Application within a Tenant can be found within the **Registering and Configuring OneGradePlus within MS-OAuth (Entra)** User Guide.

When the MS-OAuth 2.0 (Entra) Authentication method is selected, OneGradePlus will look to the OAuth UserName within OneGrade. This is detailed in the **MS-OAuth 2.0 (Entra) - Using the OAuth UserName** section at the end of this User Guide.

A Series of Application Settings are available within IIS for the Web Application to support the use of MS-OAuth 2.0 (Entra). Further details can be found in the **MS-OAuth 2.0 (Entra) – IIS Application Settings** section at the end of this User Guide.

Database Connection Details



The screenshot shows the 'OneGradePlus Installer - Database Connection' window. It contains the following fields and buttons:

- Database Connection:**
 - Server:** (local)
 - Database:** OneGrade
 - User:** TCUserAccount
 - Password:** (masked with dots)
- Test Connection** button
- Previous** and **Next** navigation buttons at the bottom.

Enter the name of the SQL Server which holds the database(s) and the connection details.

The SQL server name will be:

For a named server (database not on an instance), enter SERVERNAME

For a named server (database on an instance), enter SERVERNAME\INSTANCENAME

For an IP address (database not on an instance, default port), enter 99.99.99.99

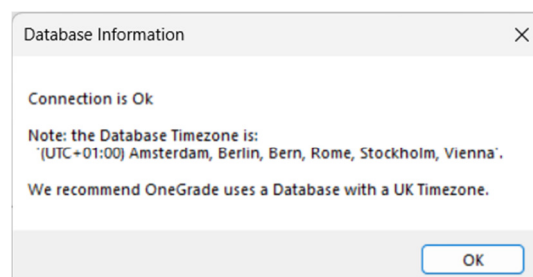
For an IP address (database not an instance, port 1400), enter 99.99.99.99,1400

For an IP address (database on an instance, port 1400) enter 99.99.99.99\INSTANCENAME,1400

By default, the TCUserAccount is used to connect to the database(s). The password will be held in an [encrypted form](#) against the IIS Website Application Setting “OGP_CONNECTION_PASSWORD”.

Note: Any number of OneGradePlus web applications may be installed. For instance you may wish to create a OneGradePlusTraining web application connected to a OneGradeTraining database.

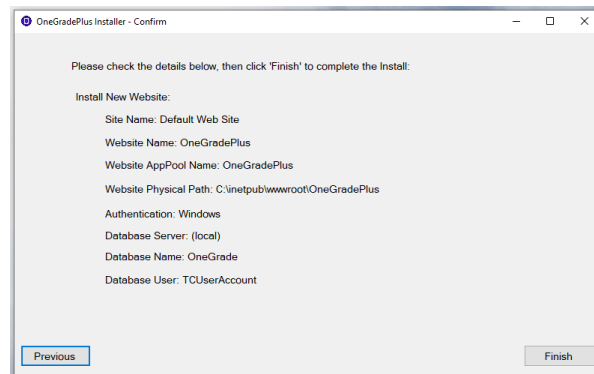
The *Test Connection* button will confirm if the database connection details are OK (or not). Also, it will check the SQL Server timezone. If it is not a UK timezone, a message similar to the one shown below will be displayed:



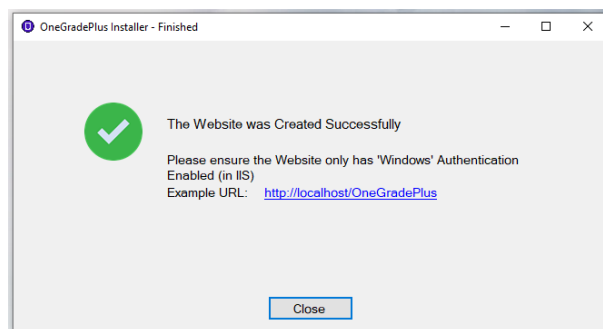
OneGradePlus Installation and Configuration

(The SQL Server uses the regional settings on the Server it is installed. A simple check is to SELECT GetDate() from a query window in SQL Server Management Studio on the OneGrade database)

The final step is to confirm the installation choices that have been made prior to creating the OneGradePlus web site:



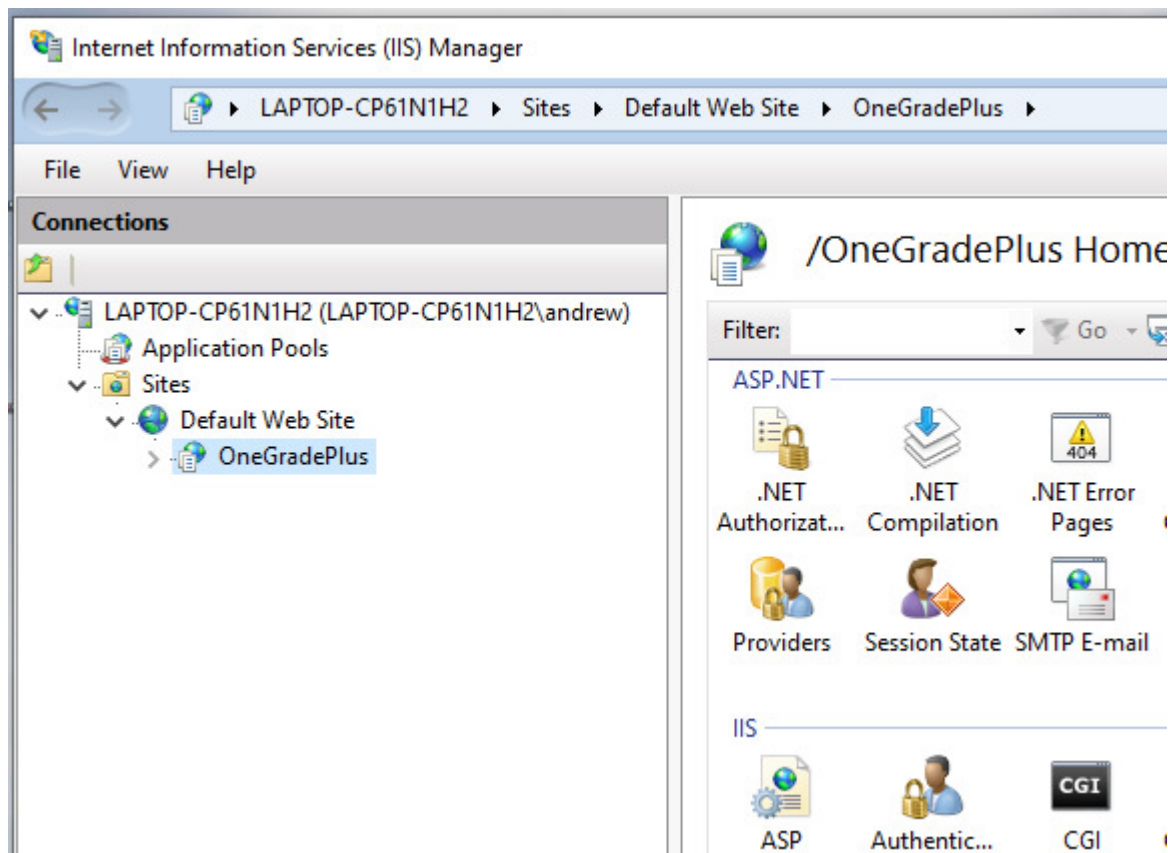
Pressing Finish will begin the installation. After successful installation, the following message will be displayed:



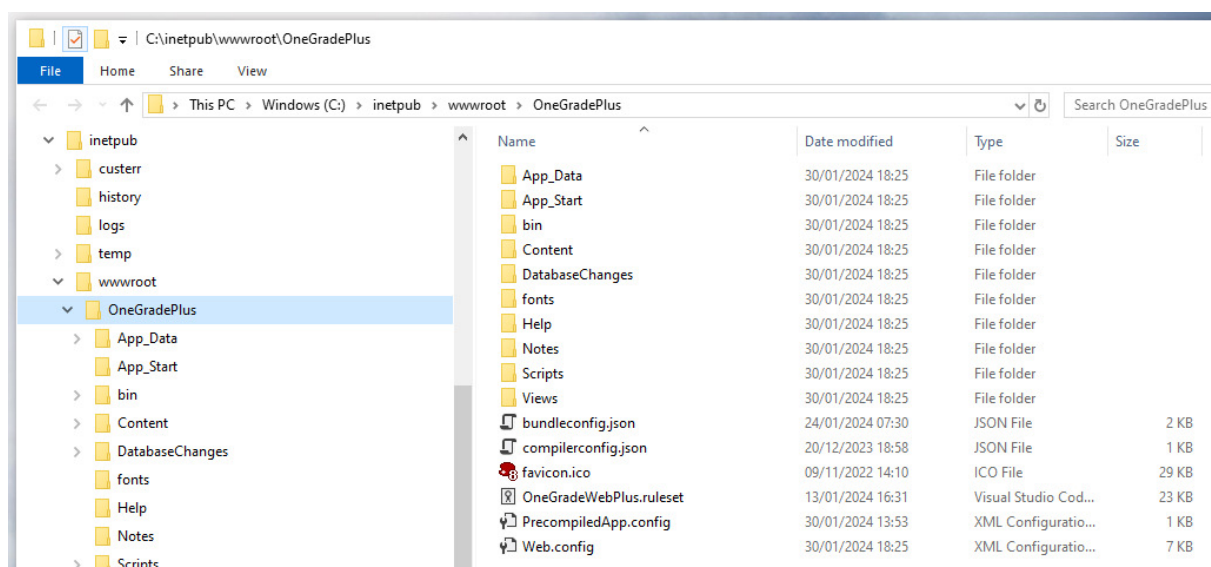
Note: After installation, within IIS, recycle the Application Pool.

Viewing the Web Application(s) in IIS after Installation

In the installation example, OneGradePlus has been installed under the Default Web Site. When the IIS Manager is opened, this is how it is presented:

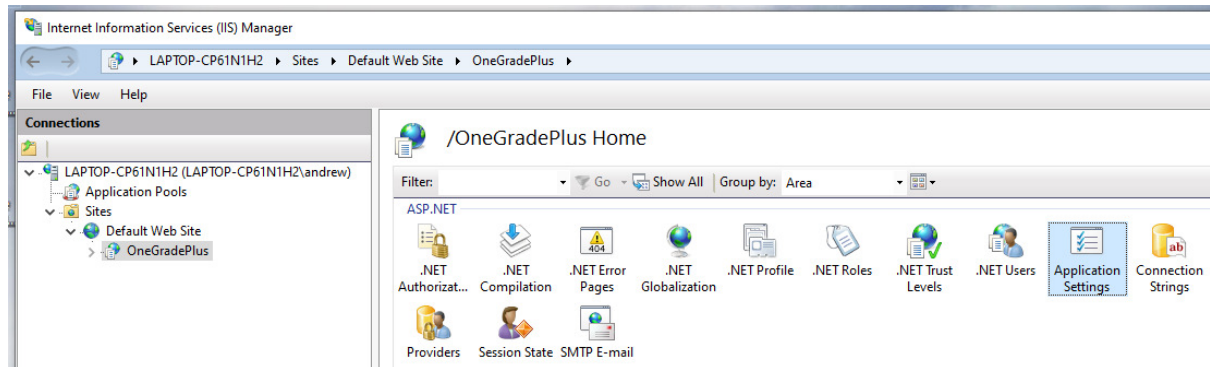


Within Windows file explorer, under the installation file path C:\inetpub\wwwroot, the Web Application Files have been installed under the “OneGradePlus” folder:



Database Connection

The OneGrade Web Application connects to a SQL Server database using settings stored in its web.config file. The web.config file can be opened in notepad and edited directly, or more safely and practically through the Application Settings using the IIS Manager.



Clicking the Application Settings, the following database connection properties can be edited:

- OGP_CONNECTION_DATABASE (the database name)
- OGP_CONNECTION_SERVER (the name (or IP address) of the SQL Server)
- OGP_CONNECTION_USER (the user account being used to connect to the database)
- OGP_CONNECTION_PASSWORD (the password for the user account above)

Alternatively, you can fill in a complete connection string by using the following property

- OGP_CONNECTION_STRING

(Completing OGP_CONNECTION_STRING will over-ride the individual settings above. For example if you wish to use trusted_connection to connect to the SQL Server database.)

Note: After making any changes to a web application within IIS, recycle the Application Pool.

Additional Properties

There are a series of timeout variables that may be adjusted:

- OGP_DATALOAD_TIMEOUT_SECONDS (timeout used to load grids of data)
- OGP_DATASAVE_TIMEOUT_SECONDS (timeout used to save data)
- OGP_SEARCH_TIMEOUT_SECONDS (timeout used by the Search facilities)
- OGP_TIMEOUT_LOGOUT_SECONDS (inactivity timeout)

Increasing these timeouts may solve issues where the database server or network connection is suffering performance issues. Values should be whole numbers and are in seconds (e.g. 60)

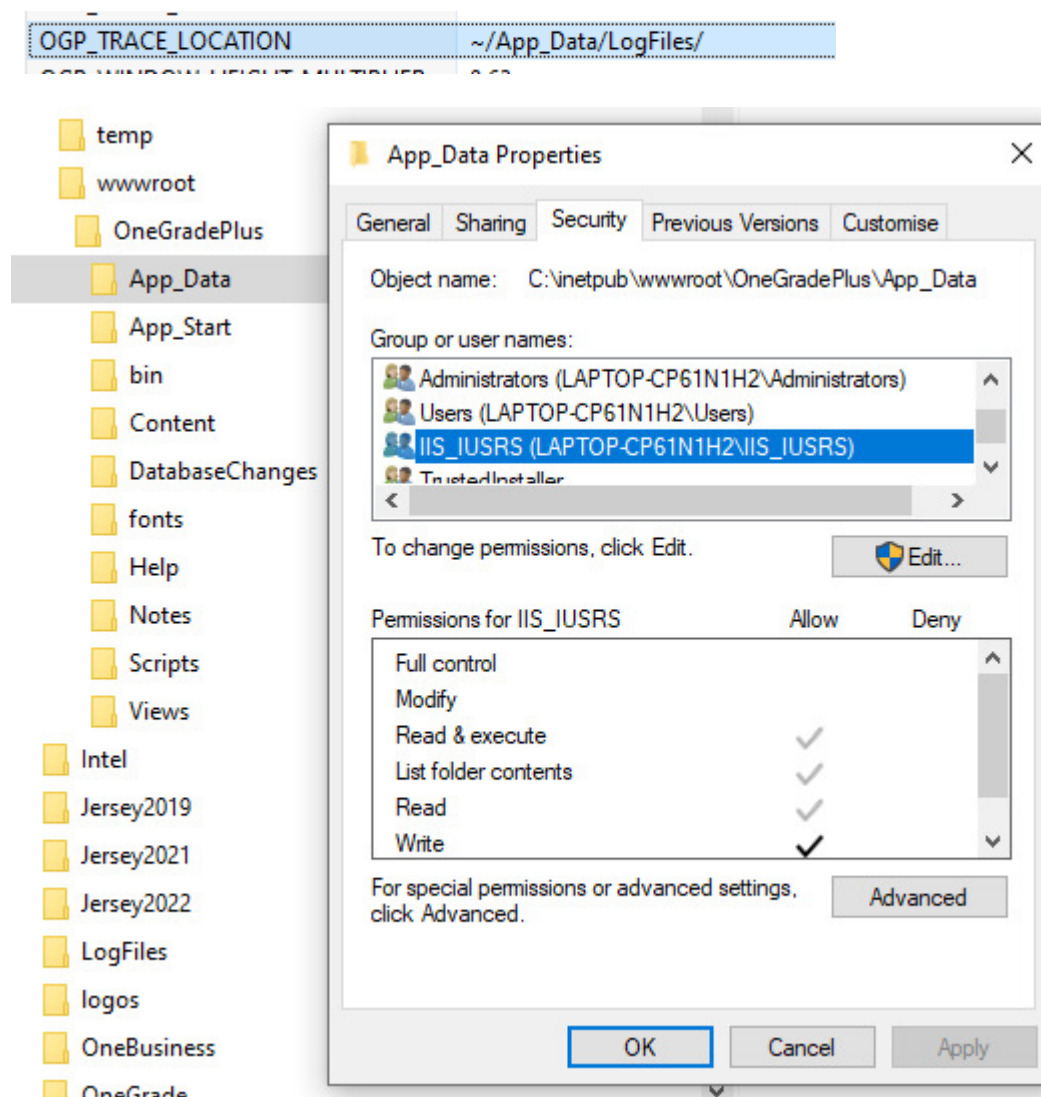
The authentication mode is used by OneGradePlus to attempt to start using windows authentication or User and Password authentication.

- OGP_AUTH_MODE (**WINDOWS** or **FORMS** or **OAuth**)

OneGradePlus has a useful error tracing feature to help diagnose any issues that may arise.

- OGP_TRACE_LOCATION (the location (on the IIS server) where the trace files are kept)
- OGP_TRACE_KEEPPOR (the number of days to keep trace files for (the default is 7)
- OGP_TRACE_ALL (use 0 to just record errors or 1 to record errors and trace)

In order to use the tracing feature, it is important that the account under which IIS is running (usually the IIS_IUSRS account) has Write access to the folder within which the log files will be written to and stored. E.g.

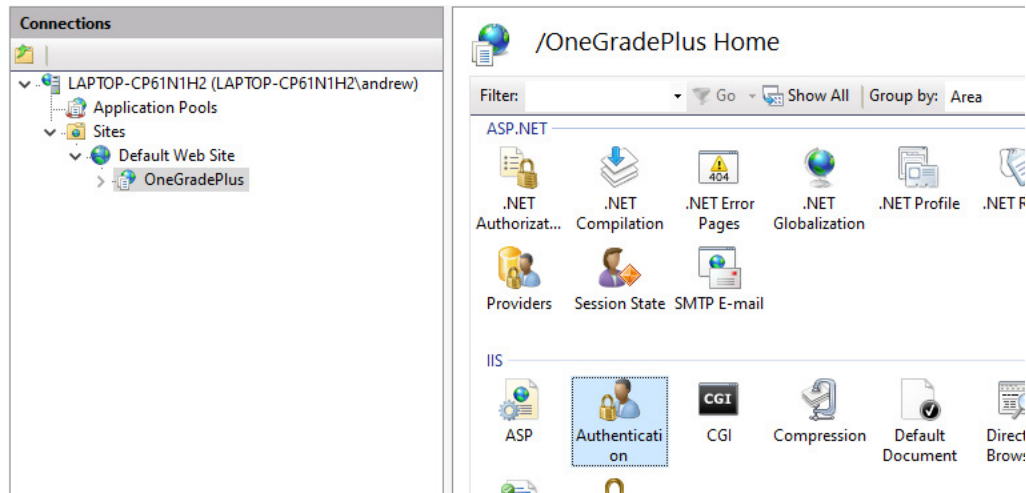


The variable OGP_WINDOW_HEIGHT_MULTIPLIER is used to adjust the size of the grid within the browser page. The default and recommended value is 0.63

A series of settings prefixed OGP_OAuth_ are available to support MS OAuth 2.0 authentication. These are described in the **MS-OAuth 2.0 (Entra) – IIS Application Settings** section of this User Guide.

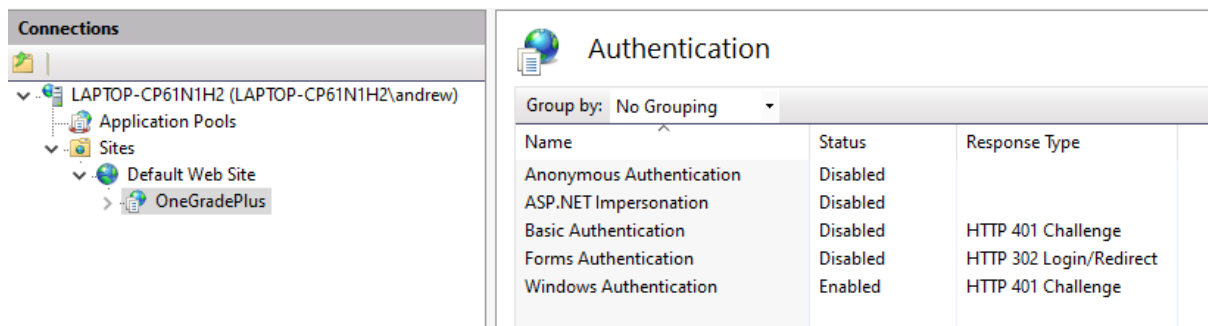
Windows, Forms and MS OAuth 2.0 Authentication

OneGrade Plus supports Windows authentication, Forms-based login and MS OAuth 2.0 authentication. These settings are accessed via the IIS Manager. Select the Web Application and click the Authentication settings:



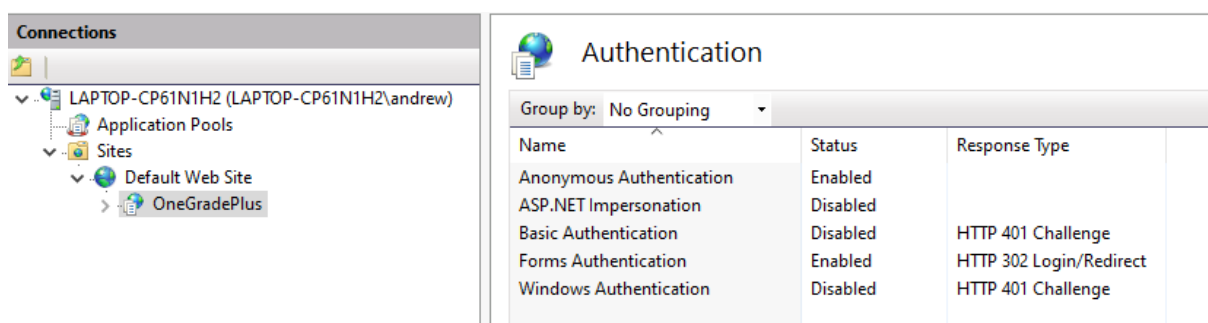
Windows Authentication Settings

Ensure that the OGP_AUTH_MODE value is WINDOWS. Enable Windows Authentication. Ensure all other authentication settings are disabled:



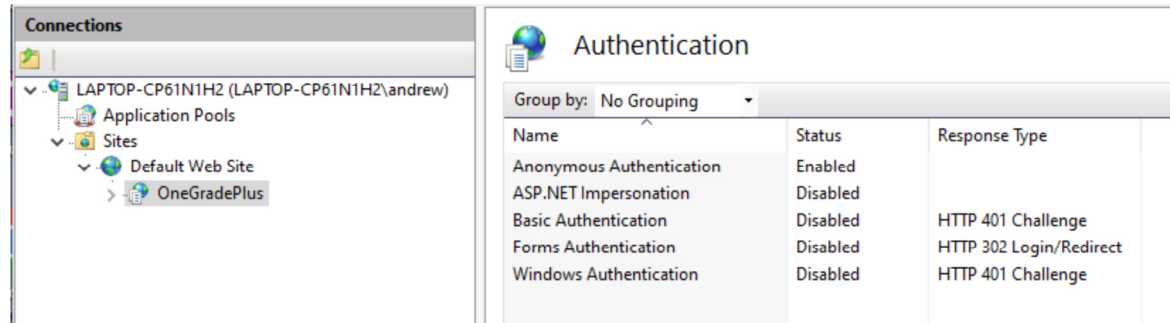
Forms Authentication Settings

Ensure that the OGP_AUTH_MODE value is FORMS. Enable Anonymous Authentication and Forms Authentication. Ensure all other authentication settings are disabled:



MS OAuth 2.0 Authentication Settings

Ensure that the OGP_AUTH_MODE value is OAUTH. Enable Anonymous Authentication. Ensure all other authentication settings are disabled:



This is further described in the **MS-OAuth 2.0 (Entra) – IIS Application Settings** section of this User Guide.

Note: We recommend that Windows / OAuth Authentication is enabled for users to log into OneGrade Web. It is advisable to set a password for the administrator account as a fall-back. Using Forms authentication for all users is not recommended and will be difficult to manage.

Note: After making any changes to a web application within IIS, recycle the Application Pool.

If Windows or OAuth Authentication is switched on, and a user attempting to open OneGradePlus has not been recognised or their User Account has been disabled within the OneGrade Windows administration application, they will be presented with a login screen. If the account has been disabled, a message will be displayed.



OneGrade Plus Login

Username

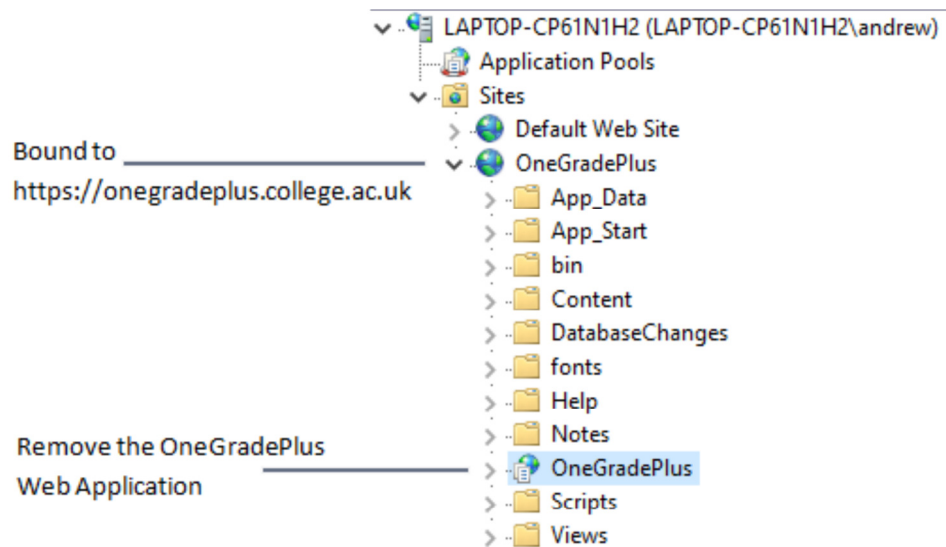
Password

Login

UserName 'andrew' is Disabled

Binding to https






If you bind the WebSite to https, and you link the files to the WebSite, it is advisable to remove the WebApplication to prevent errors occurring within OneGradePlus:



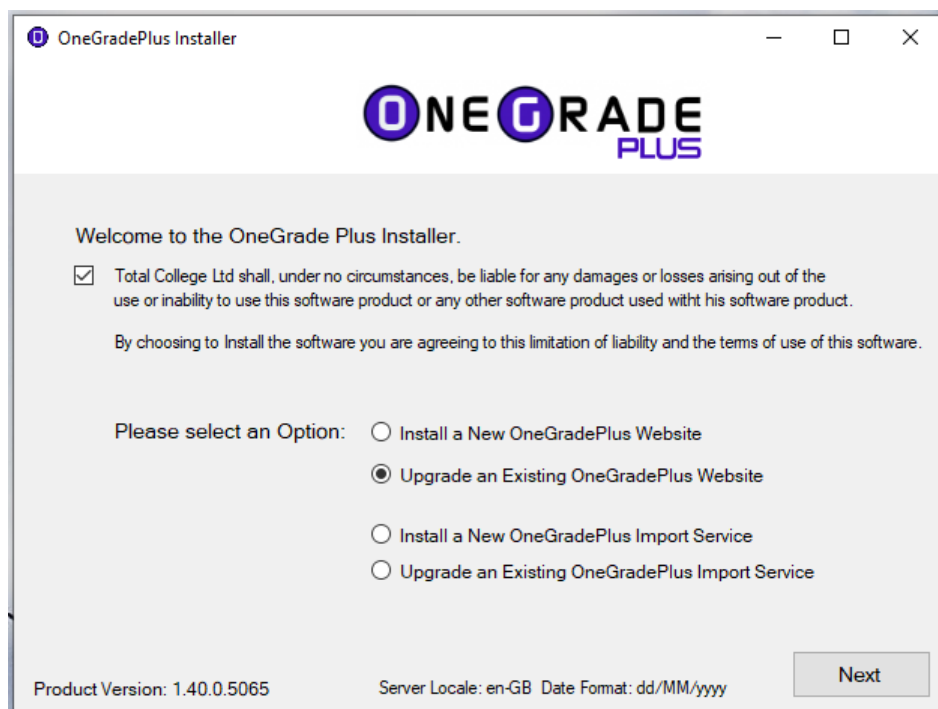
Note that if you create a Web Site called OneGradePlus within IIS, temporarily assign it to another Application Pool when you create it. This is because if you then install the Web Application as OneGradePlus within the WebSite OneGradePlus, it will want to create an Application Pool called OneGradePlus. After Installation, reassign the OneGradePlus Web Site to the OneGradePlus Application Pool.

Upgrade

After extracting the installation files locally on the server on which IIS is installed, run the file OneGradePlusInstaller.exe:

	LogFiles	30/01/2024 14:26	File folder	
	OneGradePlus-Website	30/01/2024 14:26	File folder	
	Microsoft.Web.Administration.dll	08/03/2016 10:28	Application exten...	144 KB
	OneGradePlusInstaller.exe	30/01/2024 13:53	Application	316 KB
	OneGradePlusInstaller.exe.config	19/09/2023 15:23	XML Configuratio...	1 KB

After ticking the Agreement checkbox and pressing next, you will be asked to Install or Upgrade the OneGradePlus Website. Select to Upgrade the OneGradePlus Website and press Next:

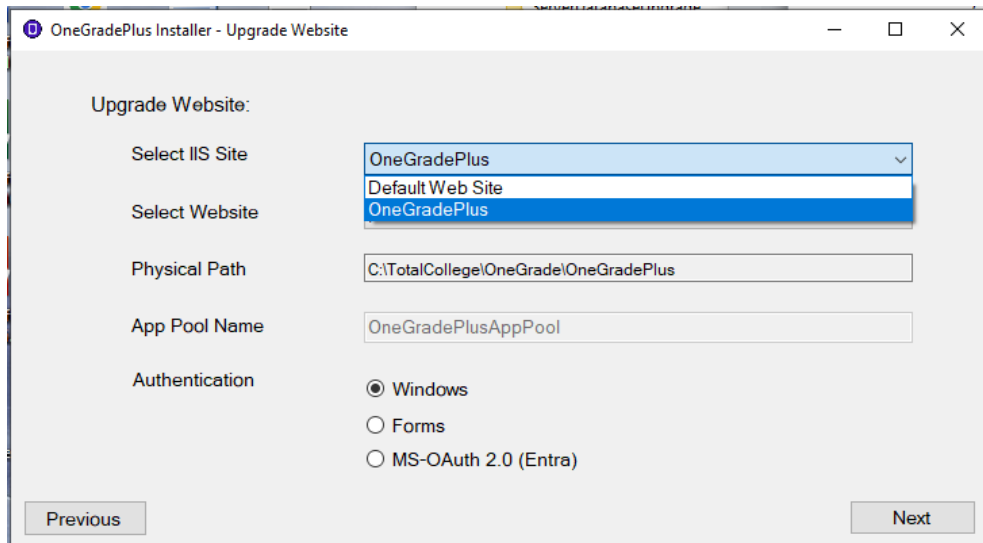


Note: Installing and Upgrading the OneGradePlus Import Service is described later in this document.

Note that only one web application may be upgraded at a time, so if you have multiple OneGradePlus web applications (e.g. one Live and one for Training), you must follow this procedure multiple times.

OneGradePlus Installation and Configuration

The next step will allow you to choose the web application to upgrade. The installation settings are stored, so the upgrader will display the same settings as used by the installer. Select the IIS site followed by the web application itself.

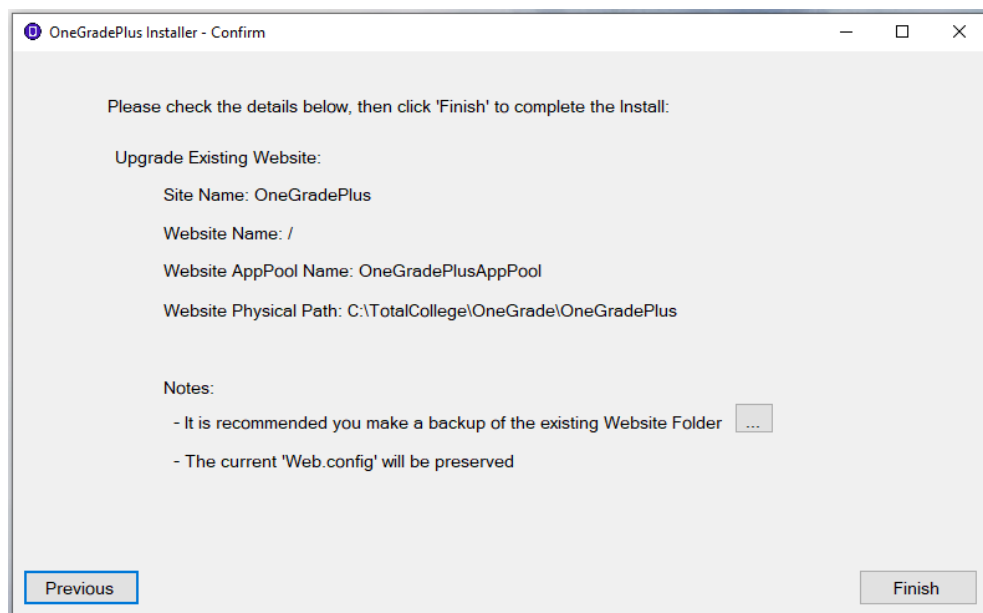


At this point, you also have the opportunity to change the authentication method if necessary. If changing this, make sure the Application and Authentication Settings within IIS are changed and checked (see the Installation section).

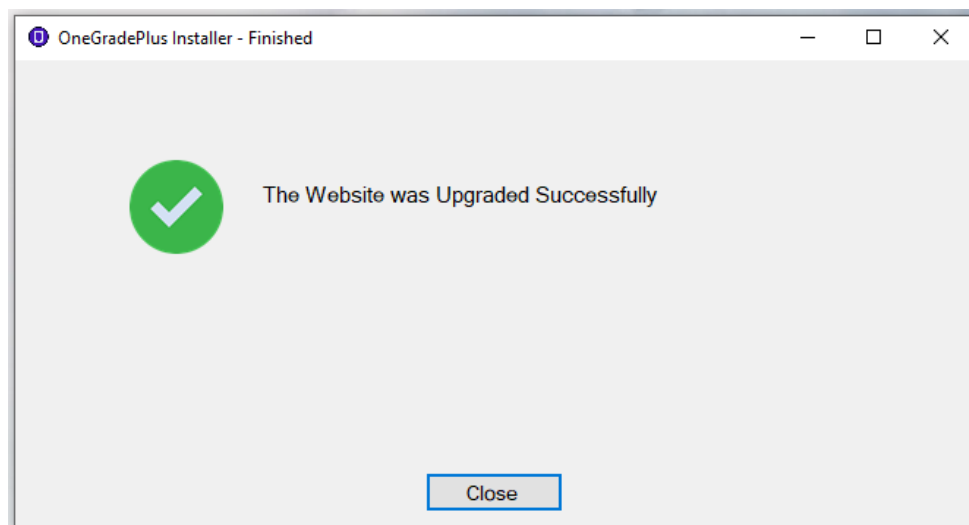
After selecting the IIS Site and Web site to upgrade, press Next.

We recommend for safety that you make a backup of the existing website files - you can use the ... button to open the Web Application folder.

The final step is confirmation of the upgrade. Press Finish to begin the upgrade.



After successful installation, the following message will be displayed:



Note: After upgrading, within IIS, recycle the Application Pool.

Changing Authentication Modes

If an authentication method is changed (e.g. from Forms to Windows, or from Windows to OAuth (Entra)), as well as changing the Application Settings and Authentication Settings within IIS, the web.config file should also be checked. Open the web.config file for the OneGradePlus Web Application within notepad and locate the `<authentication mode="..." />` setting:

```
<!--IIS Authentication Type: Windows, Forms or None (for Entra) -->  
<authentication mode="Windows" />  
<!--<authentication mode="None">  
  <forms loginUrl="~/Login" />  
</authentication>-->  
<!--Entra maybe required if IIS does not set-->
```

Ensure that this is set to the correct authentication mode you are using (Windows, Forms, None). If it needs changing, you must make that change within notepad. (Note that you may be prevented from being able to save changes directly, so one technique is to copy web.config to the desktop, make the changes, save the file and copy it back)

Important - Configuring OneGradePlus for Use after Installation

Once OneGradePlus has been installed, use the OneGrade Windows Application to complete the following steps:

1. Enter the OneGradePlus Licence Key into the OneGrade Windows Application. You will need to contact Total College Ltd. for a Licence Key if you have not been sent one already.
2. Open the System Setting Values screen (Main Menu | System Maintenance | System Settings - Values). Ensure that the System Value **OneGradePlusAuthenticationType** is set to the correct OneGradePlus authentication method as specified in IIS (FORMS, WINDOWS, OAUTH).
3. Open the System Setting Values screen (Main Menu | System Maintenance | System Settings - Values). Enter the **OneGradePlus Root URL** (so the website can be opened from the Home screen). Enter the **College Structure UDF** (so that a college structure level can be used in OneGradePlus e.g. Enrolment|UserDefinedString1).
4. Open the In Year Grade Web Settings screen (Main Menu | System Maintenance | In Year Grade Web Settings). Rename and show/hide the In Year Grade settings as necessary.
5. Open the User Defined Fields screen (Main Menu | System Maintenance | User Defined Fields). Rename the fields with a tablename of "n/a" as applicable.
6. Import Staff Users / Student Users / StaffTeachingGroups as necessary. You may manually create Staff Users – if you just need to create a few! You may need to alter the Enrolment or Course import dataset to cater for the College Structure UDF as described in Step 2. After any imports, you will need to re-summarise the data (Estimated vs Actual Analysis / English & Maths Analysis screens) and re-index the database (Home screen)
7. Refresh the Windows Application Home screen to display the new licence keys.
8. It is recommended to recycle the OneGradePlus Application Pool(s) within IIS after an install / upgrade.
9. After making changes within the Windows Application, you may need to refresh the local cache within OneGradePlus (if you have kept your browser open). To do this, within OneGradePlus, select "Clear Session Cache" from the dropdown alongside your name in the top right corner of the screen.

Configuration

A summary of features required to be configured for OneGradePlus using the OneGrade Windows Application are summarised below:

Importing

Because all enrolments can be included in the 5, analysis is no longer restricted to just Level 2 and Level 3 qualifications. Therefore, your import datasets should import all students and enrolments at all levels across college for whom you wish to record InYear progress. The StaffTeachingGroup, StaffUser and StudentUser imports support OneGradePlus.

Pass/Fail Qualifications – Grades and Points

From this facility – available from the Reference Data menu, there is a flag – “View on Website”. Those Grades set to True will be available for selection in OneGradePlus when recording InYear progression.

User Defined Fields

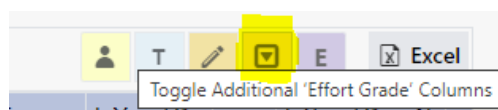
A set of “...Target Grade” and “Student Info...” User Defined Fields is available to define how column headings / text is displayed in OneGradePlus.

System Setting Flags

The “Allow English / Maths Starting Grades to be entered into OneGrade Web” and “Show InYear Effort Grades in Web” system settings are available to support OneGradePlus.

Effort Grades

Effort Grades can be maintained within the OneGrade Windows Application. From the main menu, select Reference Data | InYear Grade – Effort. The system setting flag “Show InYear Effort Grades in Web” must be set to True. These are then available from within OneGradePlus:



System Setting Values

The location of the OneGradePlus website and the college structure used by OneGradePlus can be configured using the System Setting Values. The System Setting Values “WebPlusShowInYearNotes” and “WebPlusShowEffortGrades” can be set to “YES” to show Notes and Effort Grades respectively by default. The system setting value “WebPlusImpersonateStudentRef” can be set with the Student Ref of a test student, so any member of staff can see what a student would see when a student logs into OneGradePlus.

InYear Grade Settings

InYear progress grades can be recorded up to 12 times per year. Use this facility to define how many times you wish to record InYear progress grades and the column heading names.

User Accounts

For tutors to use OneGradePlus fully, a User Account must be linked to a member of staff. This will allow searches (College Structure and Groups) to be saved.

Links to External Website from OneGradePlus

From within the OneGradePlus, pressing the student icon will open an external website in a new tab if the System Settings Values WebPlusExternalStudentURL and WebPlusExternalStudentText are configured.

WebPlusExternalStudentURL

This is the URL that can be used to open an external system from within OneGradePlus; for example an ILP system. A URL might look like:

http://college.ac.uk/ILPSystem/ilp/information/details.aspx?academicyearid={AcademicYear}&pmsstudentid={StudentUserDefinedString3}

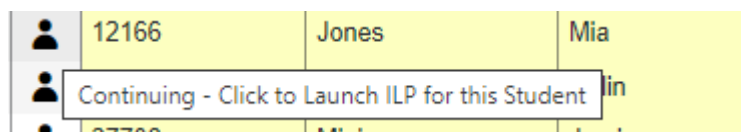
The following parameters can be used:

{AcademicYear}	format: yyyy (e.g. 2324)
{AcademicYearID}	format: yy/yy (e.g. 23/24)
{StudentRef}	
{StudentUserDefinedStringX}	where X is a number from 1 to 8 – e.g. StudentUserDefinedString5

{StudentUserDefinedStringX} is supported because some ILP Systems only accept an encoded Student Reference, so this way the encoded Student Reference can be imported as a Student User Defined field into OneGrade and then used within the URL string. You will not want to display this Student User defined field within OneGradePlus for security reasons, so in the OneGrade Windows Application, User Defined Fields maintenance screen, leave the User Defined Name blank.

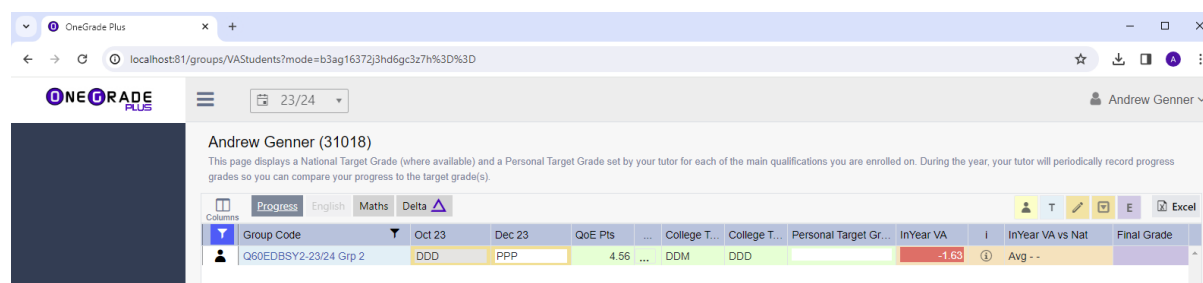
WebPlusExternalStudentText

This is the text that appears when you hover over the Student icon at the left side of the grid to indicate the ILP System you can open by clicking on the icon.



Student Access to OneGradePlus

Student Accounts are imported into the OneGrade Windows Application. Students log into the same OneGradePlus Application as Staff in the same way. Student accounts are restricted to a single page to view selected read-only progress information:



Linking to OneGradePlus from other Applications

To open a Teaching Group within OneGradePlus, if your application supports the generation of a URL, you should form a URL as follows:

`<WebsiteURL>/DisplayGroupCode?AcademicYear=<AcademicYearID>&GroupCode=<GroupCode>`

The `<AcademicYearID>` parameter will accept AcademicYears in the format `yy/yy` or `yyyy` (e.g. `23/24` or `2324`)

The `<GroupCode>` parameter will accept the Group Code in text form (e.g. `EngGCSEGroupA`, `801430`, `B56_100_A` etc.) Note that there are no quotation marks or other delimiters around this text.

e.g.

`https://onegrade.college.ac.uk/DisplayGroupCode?AcademicYear=23/24&GroupCode=P294610_A`
`http://onegrade.college.ac.uk/DisplayGroupCode?AcademicYear=2324&GroupCode=EngGCSEGroupA`

If you don't pass the `<GroupCode>` into the URL, it will open OneGradePlus on the homepage for the Academic Year specified:

`<WebsiteURL>/DisplayGroupCode?AcademicYear=<AcademicYearID>`

e.g.






`https://onegrade.college.ac.uk/DisplayGroupCode?AcademicYear=22/23`
`http://onegrade.college.ac.uk/DisplayGroupCode?AcademicYear=2223`

Installing and Upgrading the OneGrade Import Service

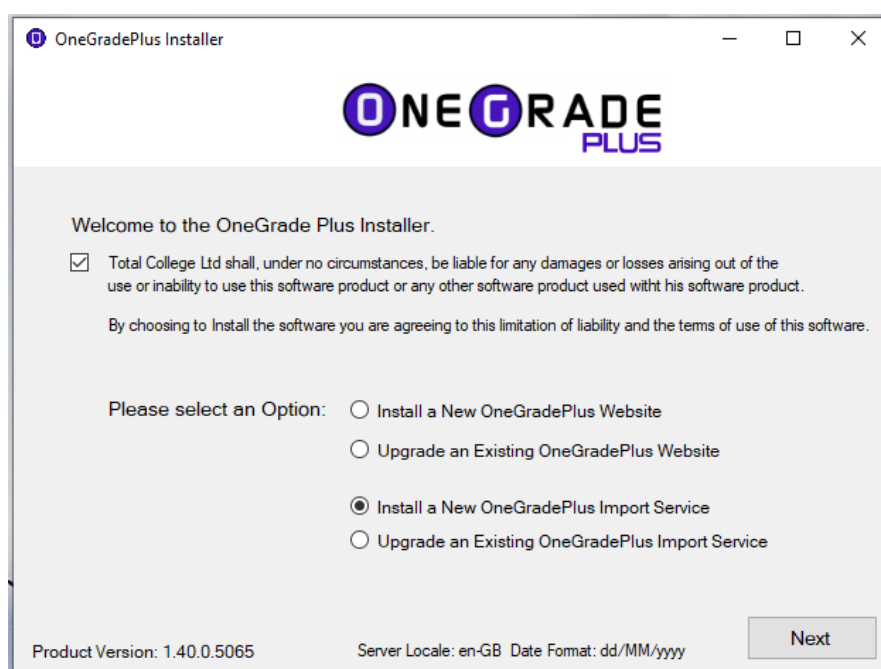
The OneGrade Import Service is a windows service that can be scheduled to automatically import and summarise data on a regular basis. Further details can be found in the **Combined Import and Scheduler User Guide**.

OneGrade Import Service Installation

After extracting the installation files locally on the server on which IIS is installed, run the file OneGradePlusInstaller.exe:

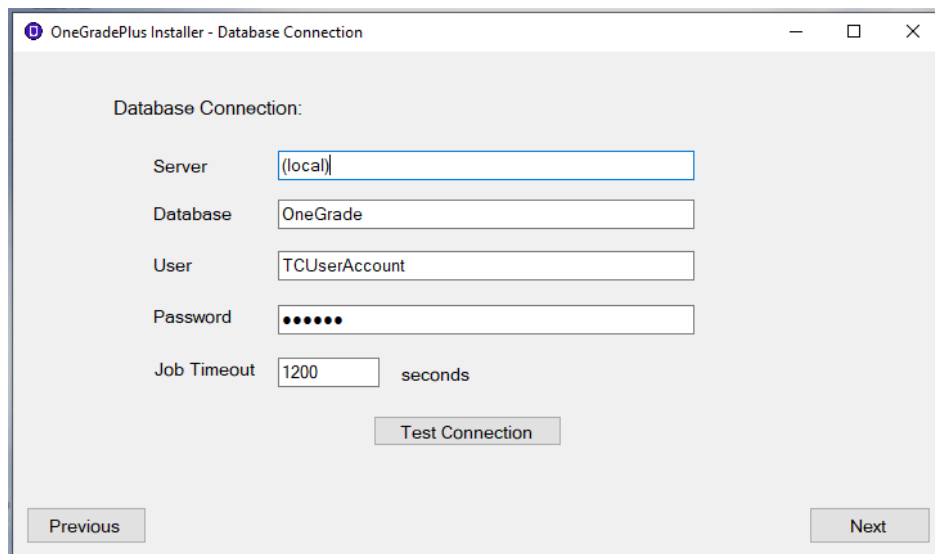
	LogFiles	30/01/2024 14:26	File folder	
	OneGradePlus-Website	30/01/2024 14:26	File folder	
	Microsoft.Web.Administration.dll	08/03/2016 10:28	Application exten...	144 KB
	OneGradePlusInstaller.exe	30/01/2024 13:53	Application	316 KB
	OneGradePlusInstaller.exe.config	19/09/2023 15:23	XML Configuratio...	1 KB

After ticking the Agreement checkbox, you will be asked to Install or Upgrade the OneGradePlus Import Service. Select to Install the OneGradePlus Import Service and press Next:



At the bottom of the screen, the server locale is displayed. If this is not en-GB with a date format of dd/MM/yyyy, this may indicate that the IIS_IUSRS user (that IIS runs under – by default) and the LOCAL_SERVICE user (that the services run under – by default) are not also and should be checked.

The next step is to enter the connection details to the SQL Server OneGrade database. Note that the OneGrade Import service does not have to be on the same server as the IIS OneGradePlus Website or the SQL Server database.



The image shows a screenshot of the 'OneGradePlus Installer - Database Connection' window. It contains the following fields and controls:

- Server:** A text box containing '(local)'.
- Database:** A text box containing 'OneGrade'.
- User:** A text box containing 'TCUserAccount'.
- Password:** A text box with masked characters (dots).
- Job Timeout:** A text box containing '1200' followed by the label 'seconds'.
- Buttons:** 'Previous' (bottom left), 'Next' (bottom right), and 'Test Connection' (centered below the password field).

Enter the name of the SQL Server which holds the database(s) and the connection details.

The SQL server name will be:

For a named server (database not on an instance), enter SERVERNAME

For a named server (database on an instance), enter SERVERNAME\INSTANCENAME

For an IP address (database not on an instance, default port), enter 99.99.99.99

For an IP address (database not an instance, port 1400), enter 99.99.99.99,1400

For an IP address (database on an instance, port 1400) enter 99.99.99.99\INSTANCENAME,1400

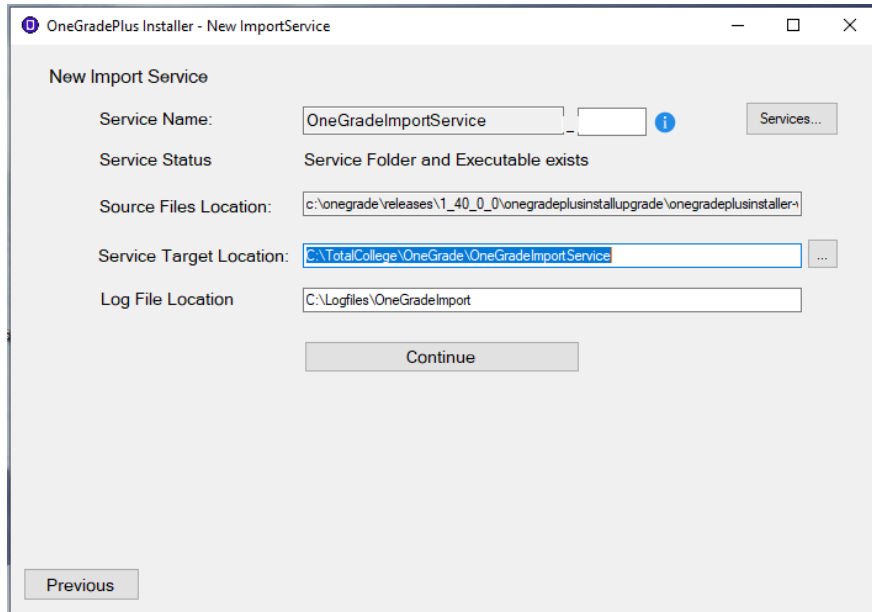
By default, the TCUserAccount is used to connect to the database(s). The password will be held in an encrypted form within the OneGradeImportService.exe.config in the same location as the OneGradeImportService.exe. More details: <https://totalcollege.co.uk/wp-content/uploads/2026/01/Storing-Passwords-in-OneGrade.pdf>

The default Job timeout is 1200 seconds (20 minutes). This may be altered as necessary. Some jobs may take considerable time, so this is recommended. The timeout can be changed later within the OneGradeImportService.exe.config file (see the “Configuring the OneGrade Import Service after Installation” section later in this document).

Once the database connection details have been entered and the connection tested, press Next.

OneGradePlus Installation and Configuration

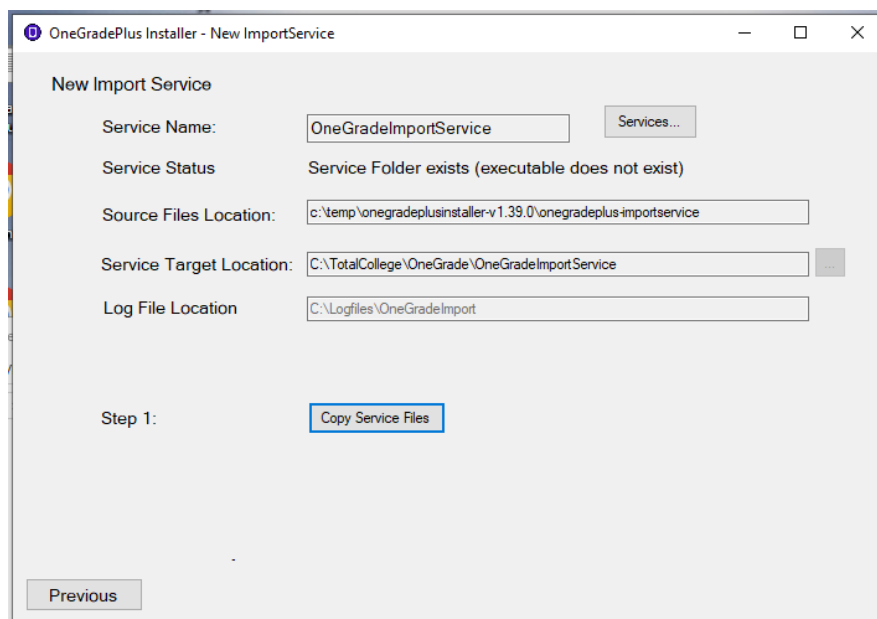
This step will install the Service to the selected location on the current server. Note also that the location of the Log files may also be changed here from the defaults if necessary. (The log files may be useful to help diagnose any issues with the OneGradePlus Import Service. Log files are automatically removed after 30 days.)



After the Service Name, you can add a suffix. This allows multiple services to be installed on one server. E.g. a live service (with no suffix) connected to the live database, and a test service (suffixed Test) connected to a OneGradeTest database.

The OneGradePlus Import Service is a 3-step process.

Step 1: Press “Copy Service Files”:



On Success, Step 2: "Install Service":

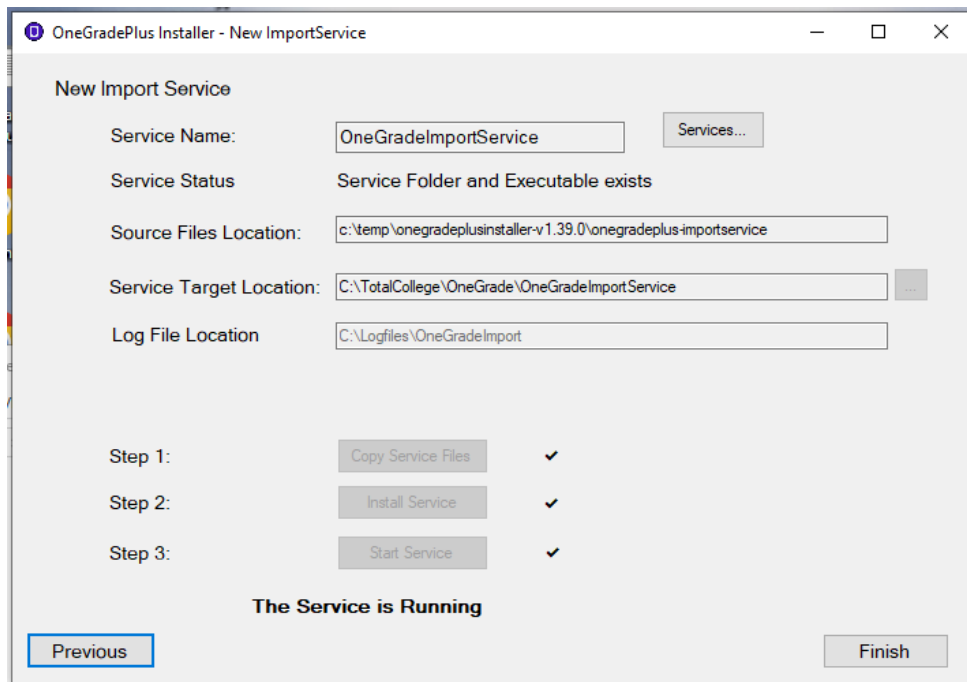
The screenshot shows the 'OneGradePlus Installer - New ImportService' window. The 'Service Name' is 'OneGradeImportService'. The 'Service Status' is 'Service Folder and Executable exists'. The 'Source Files Location' is 'c:\temp\onegradeplusinstaller-v1.39.0\onegradeplus-importservice'. The 'Service Target Location' is 'C:\TotalCollege\OneGrade\OneGradeImportService'. The 'Log File Location' is 'C:\Logfiles\OneGradeImport'. The progress bar shows Step 1: 'Copy Service Files' completed with a checkmark, and Step 2: 'Install Service' is the current step, highlighted with a blue border. A 'Previous' button is at the bottom left.

On Success, Step 3: "Start Service":

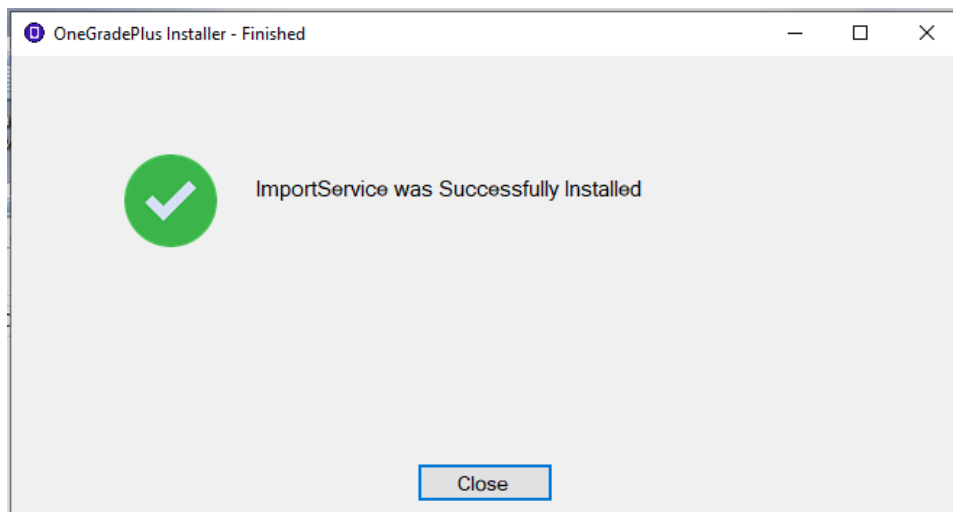
The screenshot shows the 'OneGradePlus Installer - New ImportService' window. The 'Service Name' is 'OneGradeImportService'. The 'Service Status' is 'Service Folder and Executable exists'. The 'Source Files Location' is 'c:\temp\onegradeplusinstaller-v1.39.0\onegradeplus-importservice'. The 'Service Target Location' is 'C:\TotalCollege\OneGrade\OneGradeImportService'. The 'Log File Location' is 'C:\Logfiles\OneGradeImport'. The progress bar shows Step 1: 'Copy Service Files' completed with a checkmark, Step 2: 'Install Service' completed with a checkmark, and Step 3: 'Start Service' is the current step, highlighted with a blue border. A 'Previous' button is at the bottom left.

OneGradePlus Installation and Configuration

Once the Service has started, a message will be displayed and the Finish button will show:

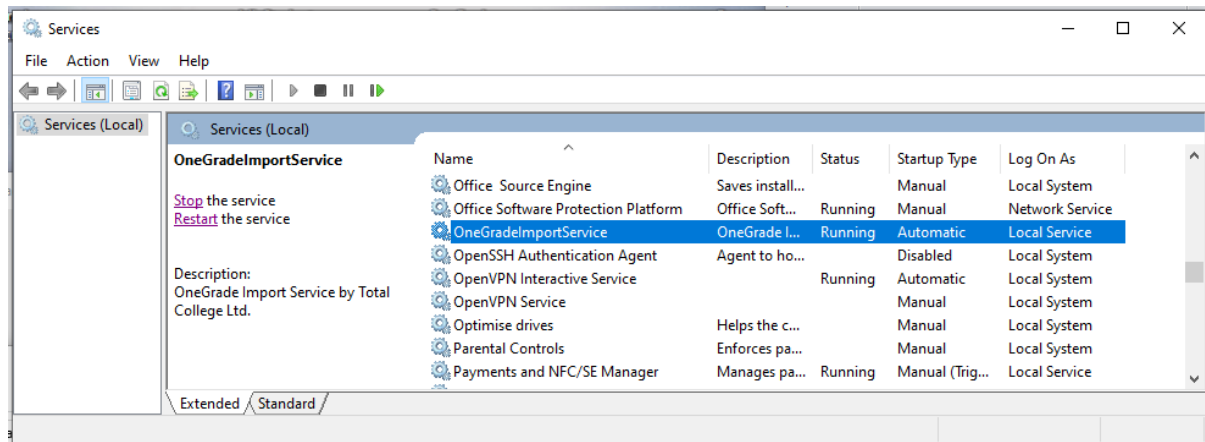


Press Finish to complete the installation process:

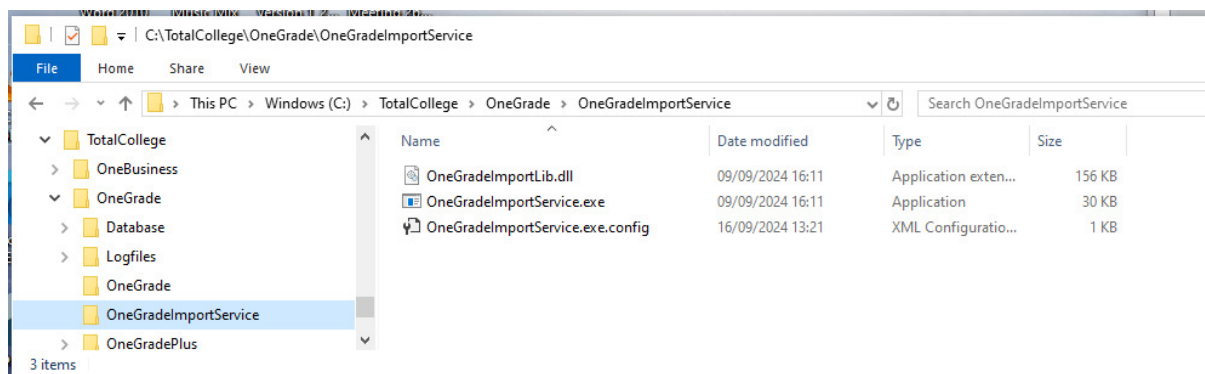


Configuring the OneGrade Import Service after Installation

The OneGrade Import Service will now be displayed in the list of Services from where it can be stopped / started or restarted:



The OneGrade Import Service holds its database connection details within the OneGradeImportService.exe.config file in the location to which the OneGrade Import Service was installed:



If these database connection details need to be altered, the file should be opened in Notepad and edited. To create the encrypted password text, use the utility available from the System Maintenance menu within the OneGrade Windows application. More Details:

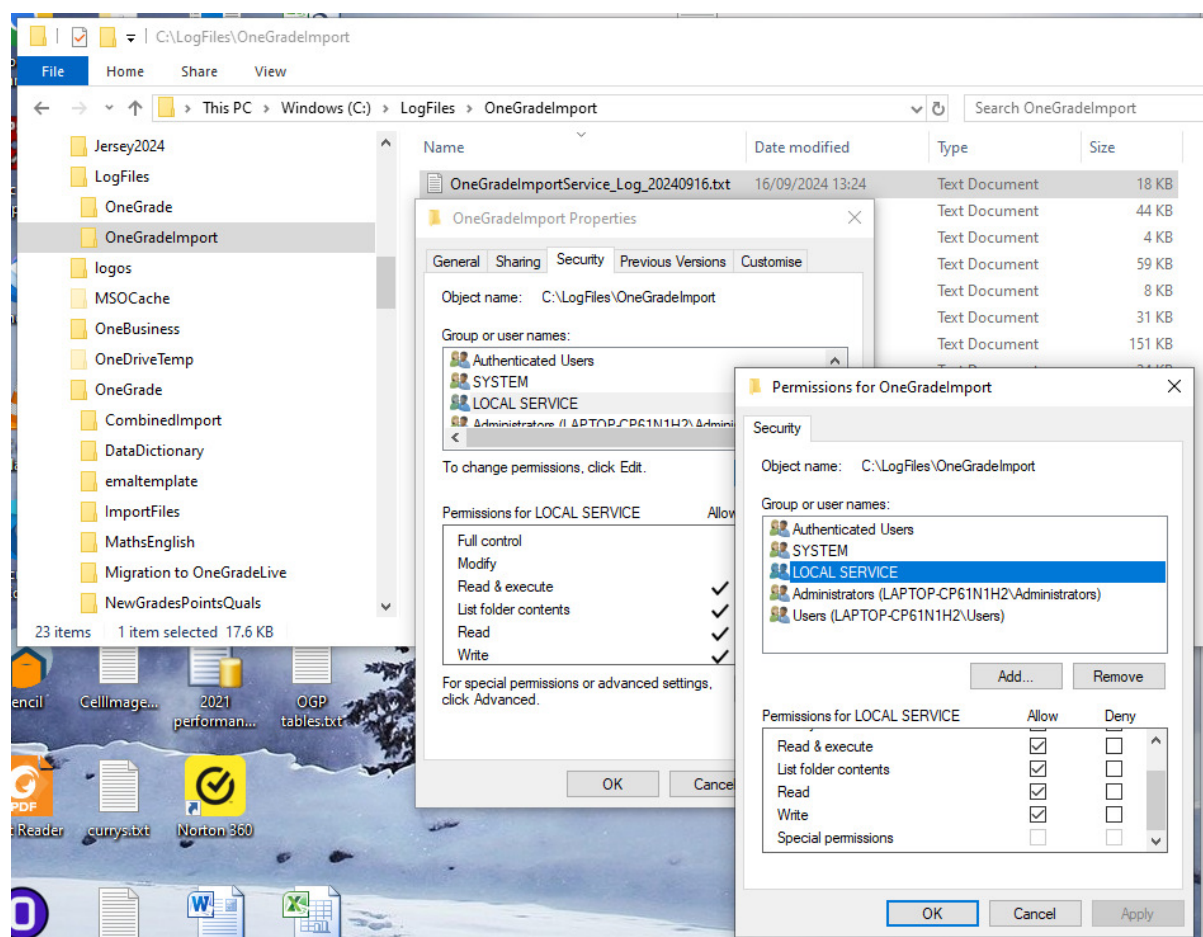
<https://totalcollege.co.uk/wp-content/uploads/2026/01/Storing-Passwords-in-OneGrade.pdf>.



OneGradePlus Installation and Configuration

If you make any changes to the OneGradeImportService.exe.config file, you will need to restart the OneGrade Import Services for the changes to take effect.

In order to use the tracing feature (for the Service to write to Log Files) , it is important that the account under which the OneGrade Import Service is running (usually the Local Service account) has Write access to the folder within which the log files will be written to and stored. The account under which the Service is running should have permission to write to the log file location by default, but if not, explicitly add the permission:



You will be able to tell if the OneGrade Import Service is writing log files because a file named OneGradeImportService_Log_YYYYMMDD.txt will be present in the log files folder location. (where YYYYMMDD is today's date)






Only the last 30 days log files will be retained in this folder location. Log files older than 30 days will be deleted.

The OneGrade Import Service is designed to send an email via an SMTP Server (e.g. MS Exchange) after it has executed each job. To configure this, use the System Settings Values screen (from the System Maintenance menu) within the OneGrade Windows Application. Further details are available in the **Combined Import and Scheduler User Guide**.

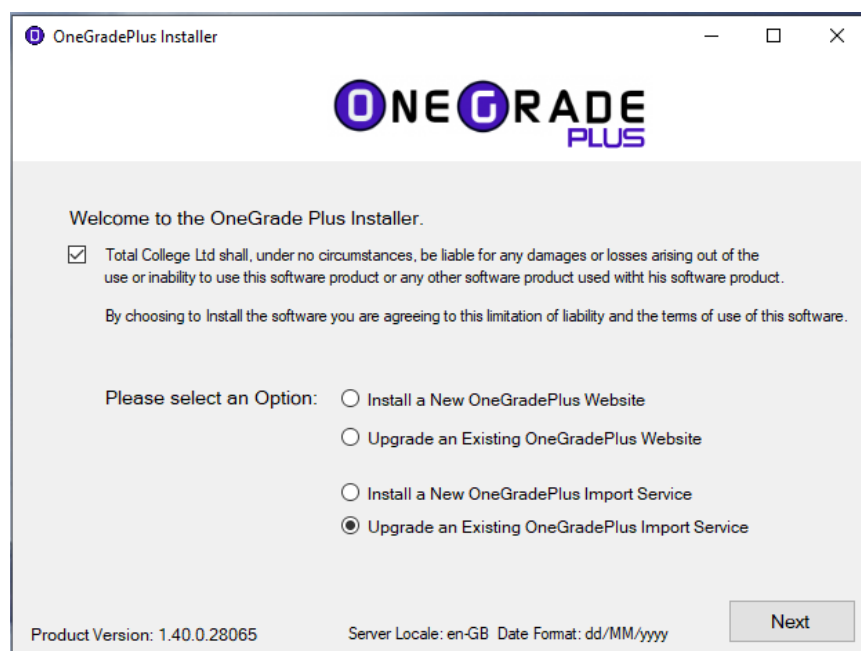
OneGradePlus Installation and Configuration

OneGrade Import Service Upgrade

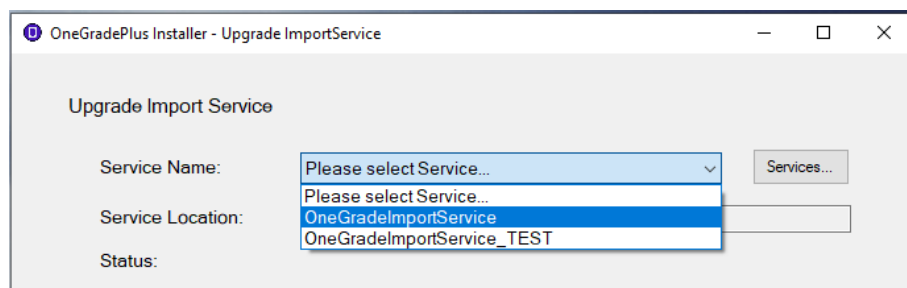
After extracting the installation files locally on the server on which IIS is installed, run the file OneGradePlusInstaller.exe:

	LogFiles	30/01/2024 14:26	File folder	
	OneGradePlus-Website	30/01/2024 14:26	File folder	
	Microsoft.Web.Administration.dll	08/03/2016 10:28	Application exten...	144 KB
	OneGradePlusInstaller.exe	30/01/2024 13:53	Application	316 KB
	OneGradePlusInstaller.exe.config	19/09/2023 15:23	XML Configuratio...	1 KB

After ticking the Agreement checkbox, you will be asked to Install or Upgrade the OneGradePlus Import Service. Select to Upgrade the OneGradePlus Import Service and press Next:



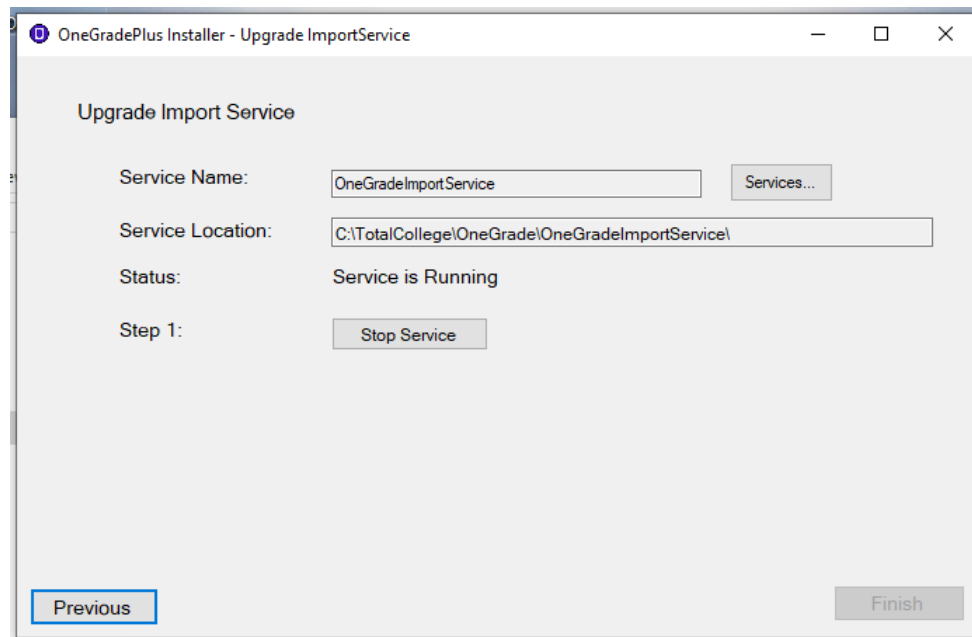
After pressing Next, if there is more than one OneGrade Import Service installed on the PC, you will be asked to select a service:



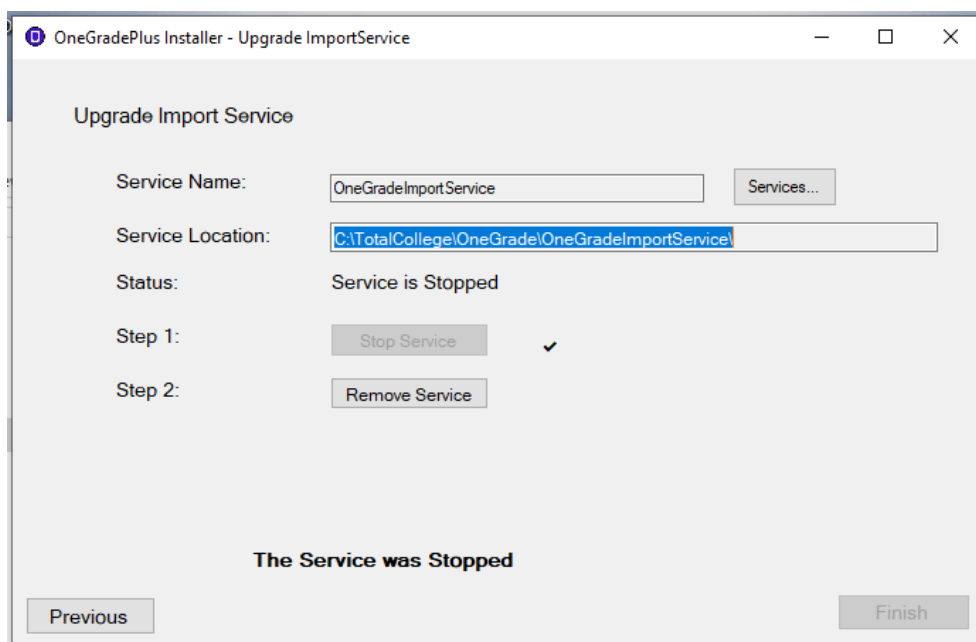
After selecting the Service to upgrade, follow the 3-step process.

OneGradePlus Installation and Configuration

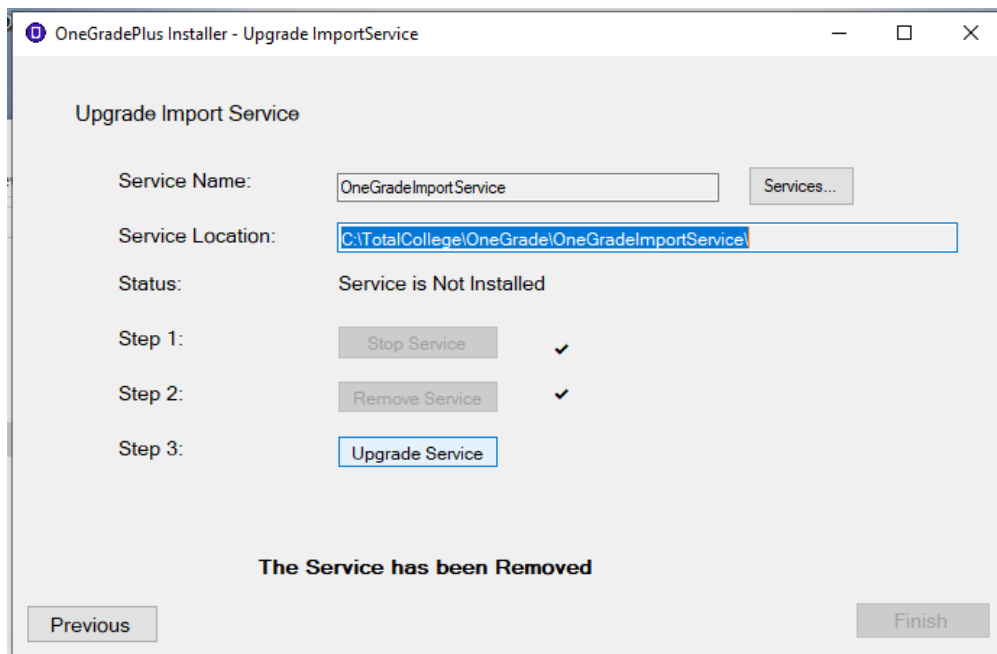
Step 1: Stop Service:



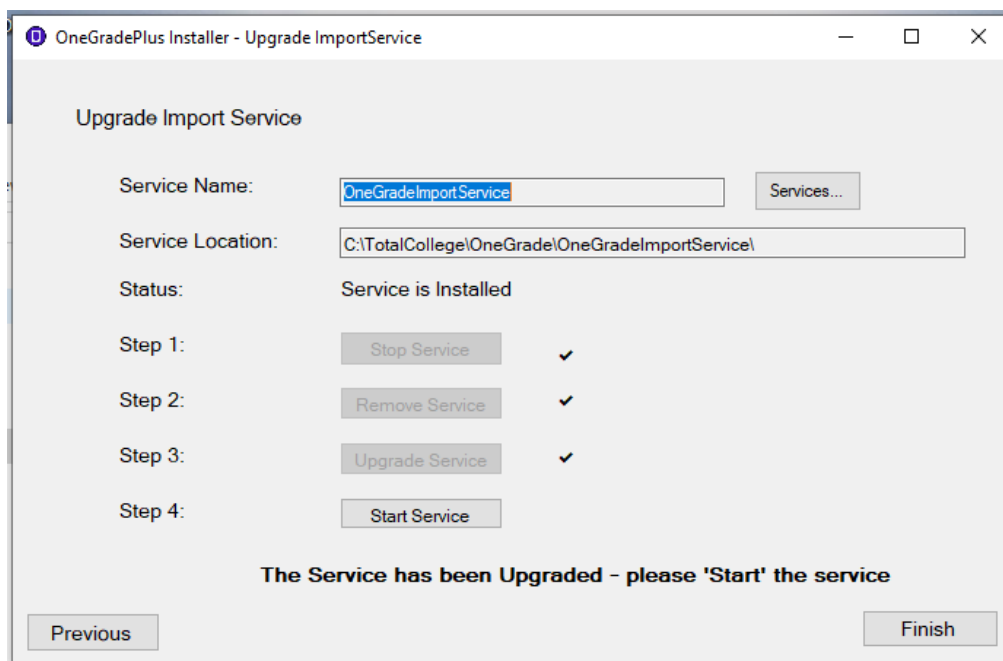
On success, Step 2: Remove Service:



On success, Step 3: Upgrade Service:

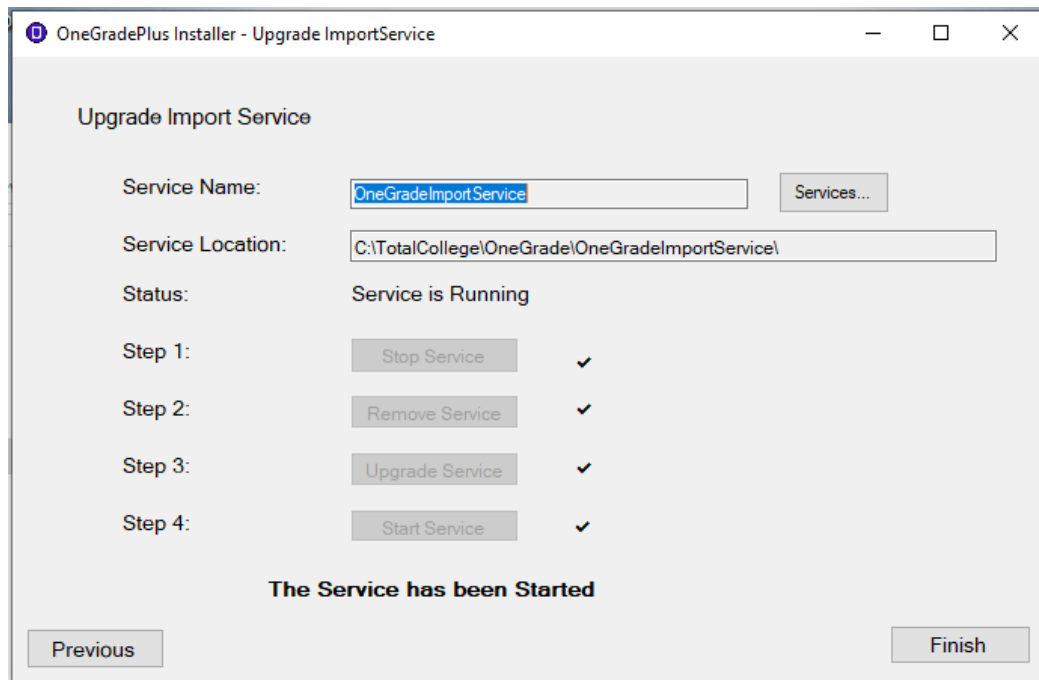


On success, Step 4: Start Service:

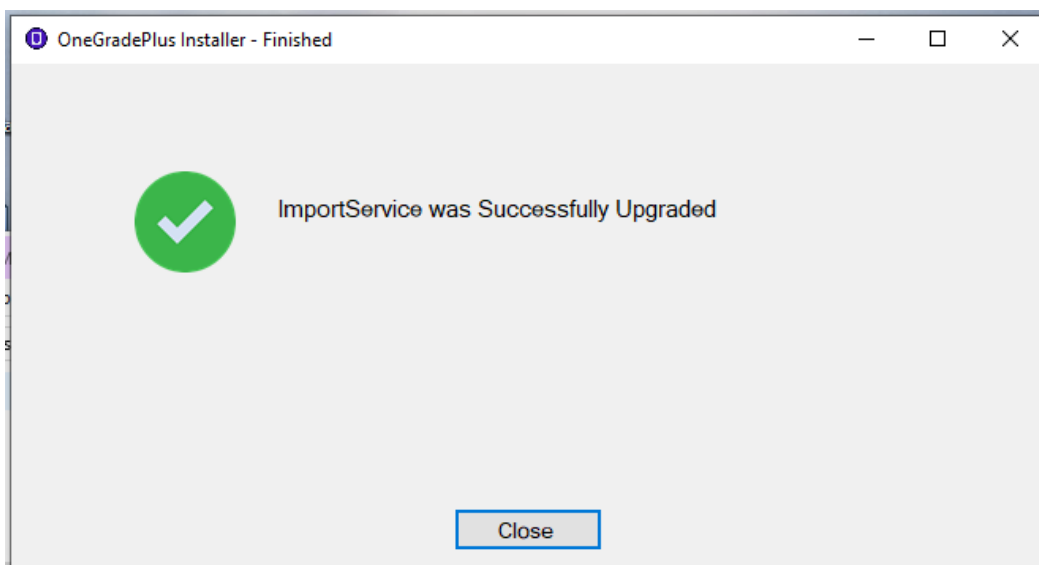


OneGradePlus Installation and Configuration

Once the Service has started, a message will be displayed and the Finish button will show:



Press Finish to complete the installation process:



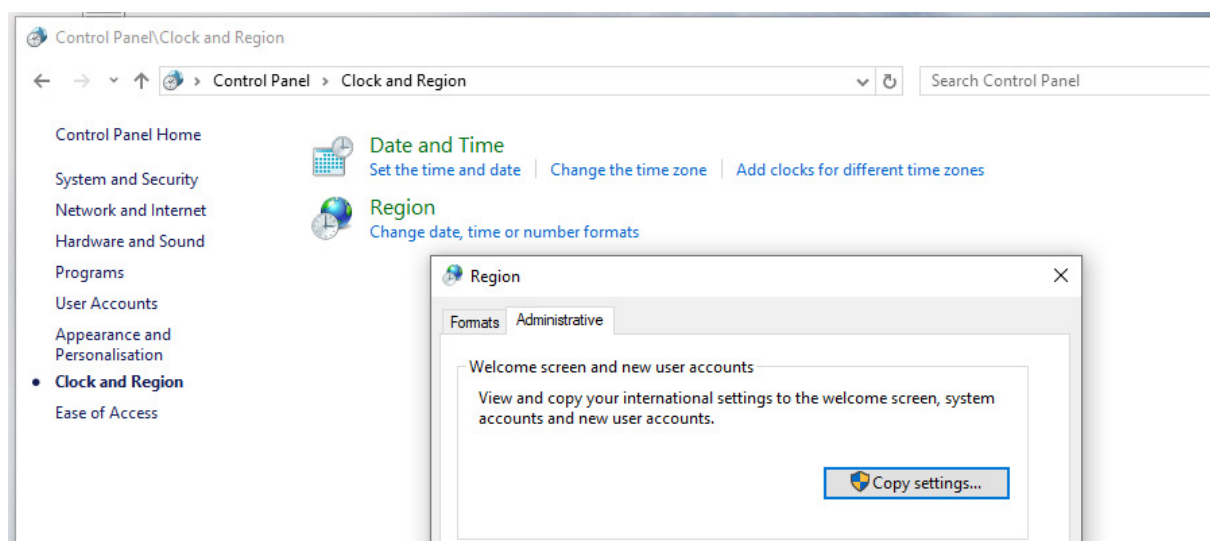
Hint: If you wish to remove the OneGrade Import Service (e.g. change its location from one server to another), run the Service upgrade, follow the upgrade process and complete Step 1 (Stop Service) and Step 2 (Remove Service). Then close the upgrader. You will still need to delete the Service files installed to the Service Location shown.

Changing the Locale of the Built-in Service Accounts

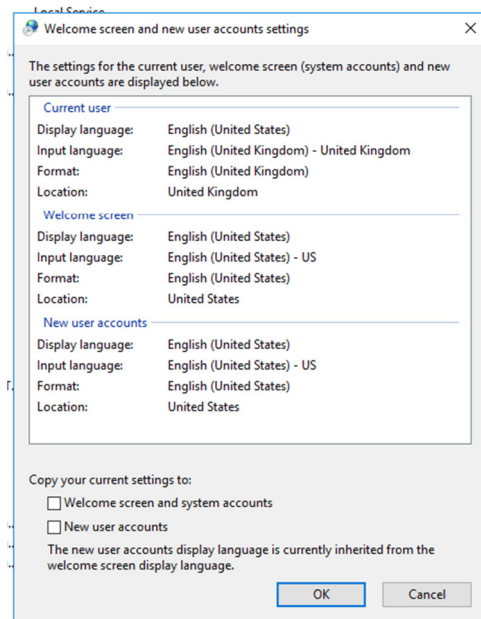
As mentioned earlier in this document, the accounts under which IIS and Services run must be English (United Kingdom). The primary reason for this is to avoid errors and presentation issues with date formats. Data Import errors will be reported if the Service is running under an account with a non-UK locale.

The default IIS user account is IIS_USRS and the default service account is LOCAL SERVICE, although depending on configuration of your system, these may be different.

The locale of these user accounts can be found within Control Panel – Clock and Region. Click Region, then the *Administrative* tab:



Clicking the Copy Settings button opens the Settings screen.



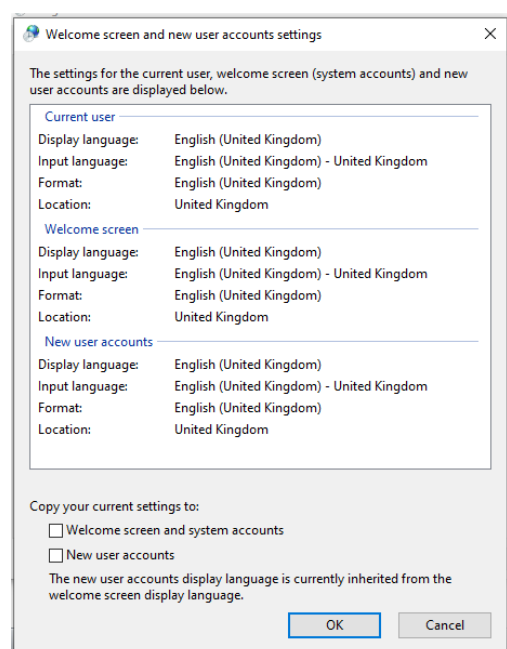
The **Current User** settings reflect the locale settings of the user that you have logged onto the server as. The **Welcome Screen** section displays the locale settings that the Welcome screen and system accounts are set to. The third **New User Accounts** section display the locale that will be assigned to any new user created on the server.

In the above example, the current user has a UK locale (even though the display language is US – which can be changed in the Settings | Language screen). The Welcome screen and New User Accounts are US locale.

To apply the UK locale to the Welcome screen (and System Accounts), tick the “Welcome screen and system accounts” checkbox and press the OK button. This will apply the **Current user** locale settings to the **Welcome screen** locale settings.

After making these changes, it would be advisable to restart the Server.

For a UK server, ideally the settings should be as follows:

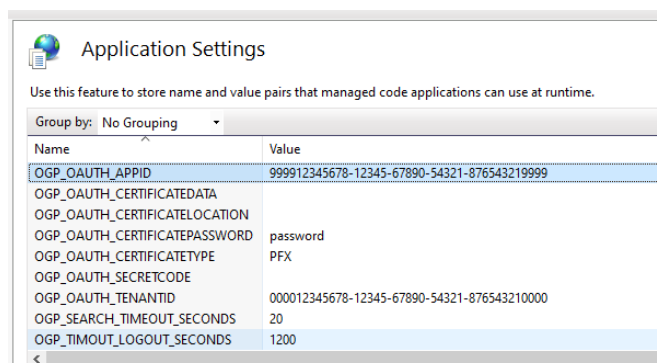


OneGradePlus and the SQL Server Database Query Store

If OneGradePlus exhibits a Save error where records “disappear” from the In Year Grades screen, it may be due to the Query Store throwing a SQL Server Internal Error (which will be flagged up in the OneGradePlus error log). This may be due to the Query Store running out of memory (The database query is extremely large and uses an INSERT...EXEC method). To resolve this issue, turn the Query Data Store for the OneGrade database OFF.

MS-OAuth 2.0 (Entra) – IIS Application Settings

If you chose the MS-OAuth 2.0 (Entra) Authentication option when installing or updating the OneGradePlus web application, you will see a series of Application Settings within IIS for the web application prefixed OGP_OAUTH:



OGP_OAUTH_TENANTID

The ID of the Entra Tenant containing the Registration of the OneGradePlus application.

OGP_OAUTH_APPID

The ID of the registered OneGradePlus application created by Entra within the Tenant.

OGP_OAUTH_CERTIFICATETYPE

The allowable values for this are CERT, SECRET, PFX, PFX64

OGP_OAUTH_CERTIFICATEDATA

This is required if OGP_OAUTH_CERTIFICATETYPE is given the value CERT or PFX64. For CERT, this is the Certificate Thumbprint (shown after uploading the certificate in Entra). For PFX64, this would be the encoded string. When using CERT, you must ensure that the read permission is applied to the certificate (described in the following section).

OGP_OAUTH_CERTIFICATELOCATION

If OGP_OAUTH_CERTIFICATETYPE is given the value CERT, the allowable value for this is LocalMachine. This assumes that the IIS Service (WWW Publishing Service) is running under the Local System Account. If OGP_OAUTH_CERTIFICATETYPE is given the value PFX, this is a free-text value and is the location of the PFX file (relative to the IIS Server).

OGP_OAUTH_CERTIFICATEPASSWORD

If OGP_OAUTH_CERTIFICATETYPE is given the value PFX or PFX64, this value may be completed if a password is used. This is held in an Encrypted format. Details can be found here:

<https://totalcollege.co.uk/wp-content/uploads/2026/01/Storing-Passwords-in-OneGrade.pdf>

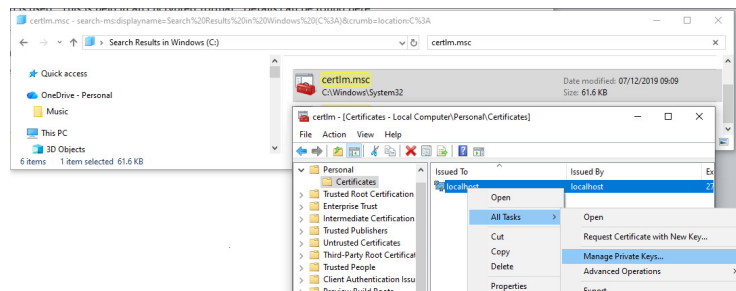
OGP_OAUTHSECRETCODE

This is required if OGP_OAUTH_CERTIFICATETYPE is given the value SECRET.

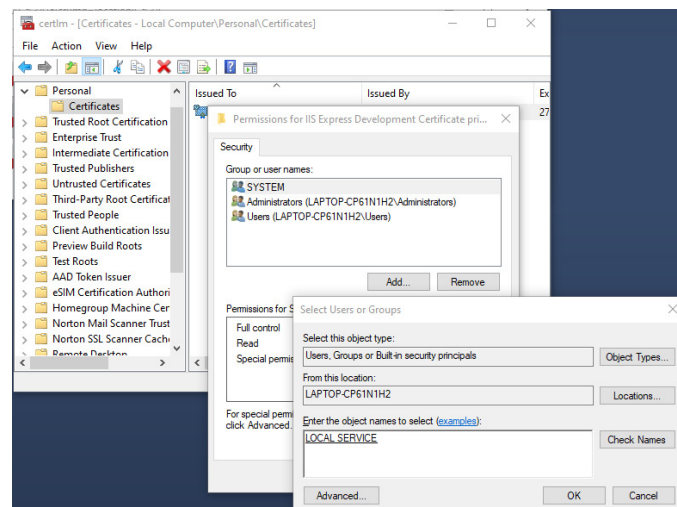
MS-OAuth 2.0 (Entra) – Grant Read Permission to Local Service Account for a Certificate

If you have chosen the IIS System Value OGP_OAUTH_CERTIFICATE_TYPE to be “CERT”, you must ensure that the Local Service Account has Read permission on the certificate.

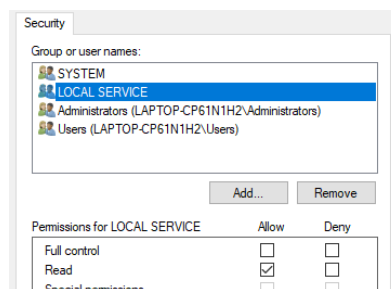
To do this, open the file certlm.msc. This can be found in the c:\windows\system32 folder. You may need to search for the certlm.msc file using Windows Explorer.



When certlm.msc has been opened, select Personal | Certificates from the menu on the left. The list of registered certificates will be displayed on the right. Right-click the certificate that you have registered within Entra and which you have entered the thumbprint for within the IIS Application Setting Value OGP_OAUTH_CERTIFICATE_DATA. Select All Tasks | Manage Private Keys...



From the Permissions screen, Security tab, Press the **Add...** button. Enter the object name LOCAL SERVICE (then press **Check Names**). Then press **OK**.



Ensure that the LOCAL SERVICE has the Read permission applied.

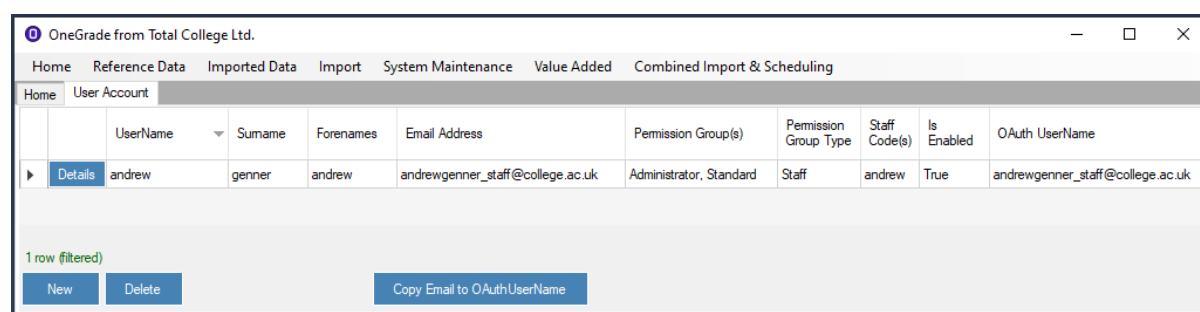
MS-OAuth 2.0 (Entra) – Using the OAuth UserName

When OneGradePlus is configured to use OAuth authentication, the “OAuth UserName” within OneGrade is used.

Within the OneGrade Windows Application, the User Account Screen (System Maintenance | User Accounts | User Accounts) has a UserName column (mandatory, used for Windows and Forms authentication) and an OAuth UserName column (optional, used for OAuth authentication).

The OAuth UserName is commonly the same as the Email Address, so a button has been added to copy the Email Address into the OAuth UserName column. Note that pressing this first clears all the OAuth UserNames before populating OAuth UserName with the Email Address.

The OAuth UserName can also be edited by pressing the Details button for the selected record.



	Username	Surname	Forenames	Email Address	Permission Group(s)	Permission Group Type	Staff Code(s)	Is Enabled	OAuth UserName
Details	andrew	genner	andrew	andrewgenner_staff@college.ac.uk	Administrator, Standard	Staff	andrew	True	andrewgenner_staff@college.ac.uk

1 row (filtered)

New Delete Copy Email to OAuthUserName

Open the System Setting Values screen (Main Menu | System Maintenance | System Settings - Values). Ensure that the System Value **OneGradePlusAuthenticationType** is set to the correct OneGradePlus authentication method as specified in IIS (FORMS, WINDOWS, OAUTH).