



Sage XRT Advanced

Version 2.3

Setup Guide



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Introduction

Intended Audience

This guide is intended for Technical Administrators who are qualified to set up *Web IIS 7* servers as well as *SQL Server 2014*, *SQL Server 2016* or *SQL Server 2019*.

This guide also provides the information required to understand the technical aspects of the solution.

It is complementary to the following Technical Guidelines document:

SXA.2.3.TechnicalGuidelines_EN.docx

Important Recommendations

This document presents the installation process for **Sage XRT Advanced** which includes **Reconciliation**, **Bank Delegations** and **Treasury** modules.

We recommend that users follow this order:

1. **Sage XRT Bank Format Library 2.1.211**
2. **Sage XRT Common Services 3.9.204**
3. **Sage XRT Treasury 4.1.001**
4. **Sage XRT Bank Format Library 4.3.101**
5. **Sage XRT Common Services 4.3.101**
6. **Sage XRT Advanced 2.3**

Note: All applications must be closed before the installation starts. In case you need to install all of these applications, please refer to the setup guide dedicated to each product.

Sage XRT Advanced installation must comply with other technical criteria: perusing the corresponding document on the DVD on Sage knowledge base is highly recommended.

If you do not use **Sage XRT Treasury**, you can go straight to step 4 of the recommended installation order.

First Installation

Installing Products

Sage XRT Bank Format Library

Sage XRT Bank Format Library is required for the conversion of files to import. It can also generate the remittance files for Treasury Transfers.

Sage XRT Common Services

Sage XRT Common Services is required to operate the two other applications, as it provides the central management of users, access rights and licenses.

Note: You must install version 4.3.101 right after the format library installation as specified in the introduction.

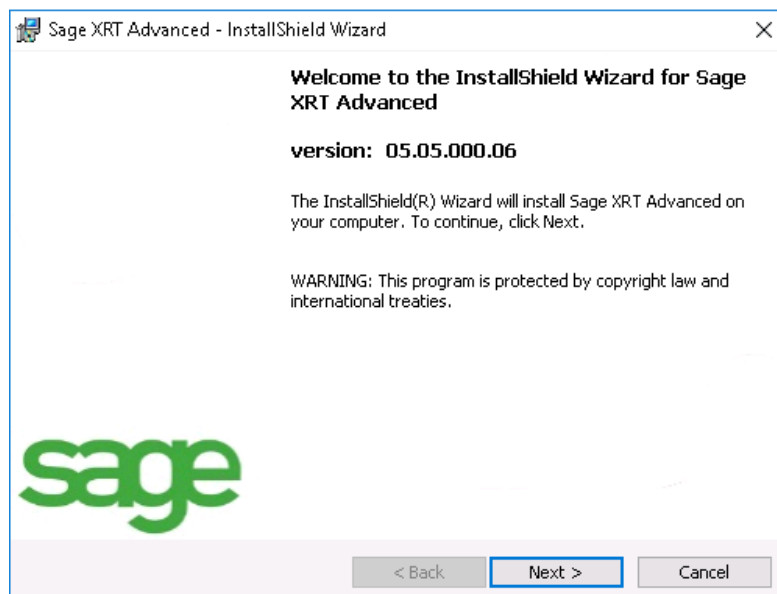
Sage XRT Advanced

First of all, make sure you comply with all the prerequisites presented in *SXA.2.3.TechnicalGuidelines_EN.pdf*. Otherwise, install the missing elements.

The default port for **Sage XRT Advanced** installation is **88**.

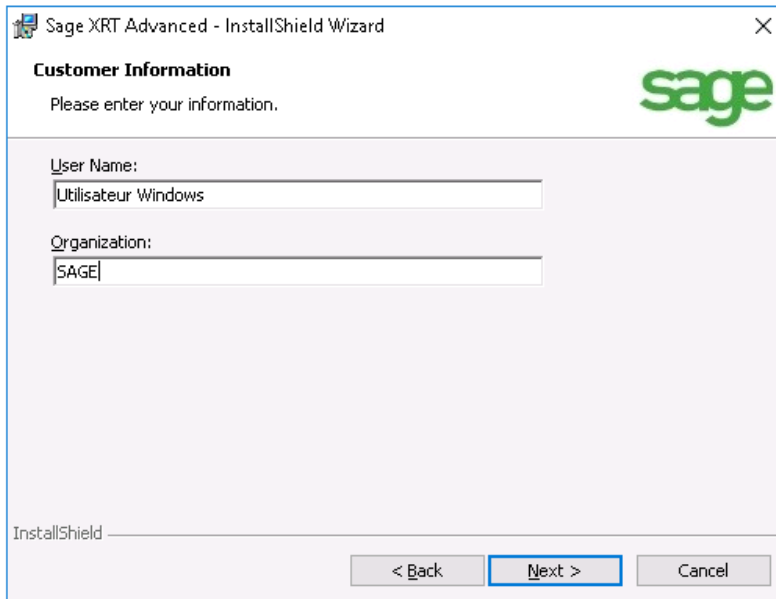
1. Browse the **Products** folder on the DVD and select the *Sage XRT AdvancedSetup.exe*. Launch it selecting the option **Execute as an administrator** available from the contextual menu by right click.

The welcome screen of the setup wizard is displayed.



First Installation

The Customer Information window is displayed.

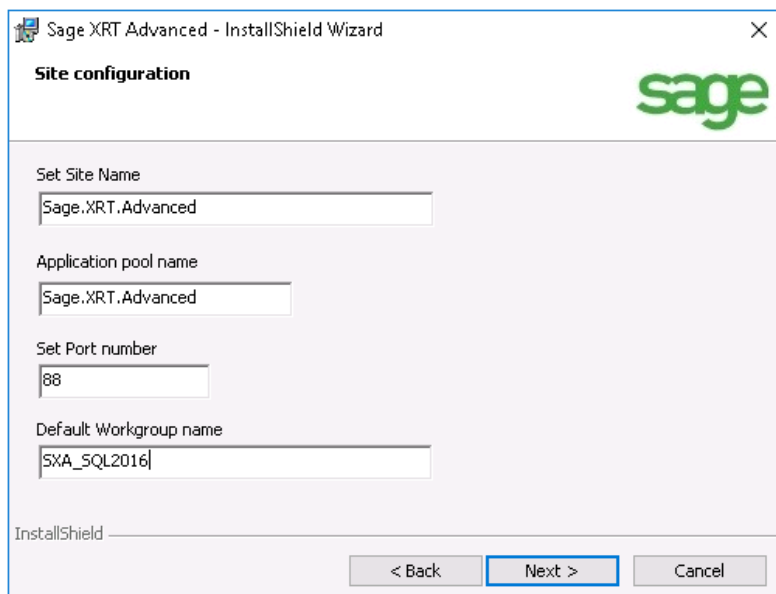


The screenshot shows a window titled "Sage XRT Advanced - InstallShield Wizard" with a close button (X) in the top right corner. The window has a Sage logo in the top right. The main heading is "Customer Information" with the instruction "Please enter your information." Below this, there are two text input fields: "User Name:" containing "Utilisateur Windows" and "Organization:" containing "SAGE". At the bottom, there are three buttons: "< Back", "Next >" (highlighted with a blue border), and "Cancel". The text "InstallShield" is visible in the bottom left corner of the window.

2. Enter and edit the required information (user name and company name), then click the **Next** button.

You must now set up the site.

3. In the next window, enter the **Application pool name**, the port number (**Set Port Number**) and the **Default Workgroup name**.



The screenshot shows a window titled "Sage XRT Advanced - InstallShield Wizard" with a close button (X) in the top right corner. The window has a Sage logo in the top right. The main heading is "Site configuration". Below this, there are four text input fields: "Set Site Name" containing "Sage.XRT.Advanced", "Application pool name" containing "Sage.XRT.Advanced", "Set Port number" containing "88", and "Default Workgroup name" containing "SXA_SQL2016". At the bottom, there are three buttons: "< Back", "Next >" (highlighted with a blue border), and "Cancel". The text "InstallShield" is visible in the bottom left corner of the window.

Important! If you want to modify names, remember that neither space nor ASCII character are allowed. In this case, keep the same name for the site and the application pool.

First Installation

4. Click **Next**.
5. In the **Security Code** window, specify the code.

Sage XRT Advanced - InstallShield Wizard

Security Code

Please enter security code

default

Bank Delegation provides an high level security by default

If you want to enhance this level of security, you must fulfill the security code with a complex password (10 characters minimum)

If not leave the security code with the default value.

This code must be saved by administrator and keep safe according to all security conventions.

In case of a loss of this value it will be impossible to access any encrypted documents in database if web-application is reinstalled

InstallShield

< Back Next > Cancel

Important! Sage XRT Advanced enables the safe storage of various document types, such as ID Documents or Signatures. The default Security Level provides encryption for all user data on the database.

- **Default Security Level:** Enter **default**. The application generates and uses a code that is already defined (not editable). This possibility is simple since no password has to be kept.
- **Customized Security Level:** Enter a value consisting of at least 10 symbols and/or characters.

The security code and password which generate the encryption key, are defined by the client and, as such, are confidential.

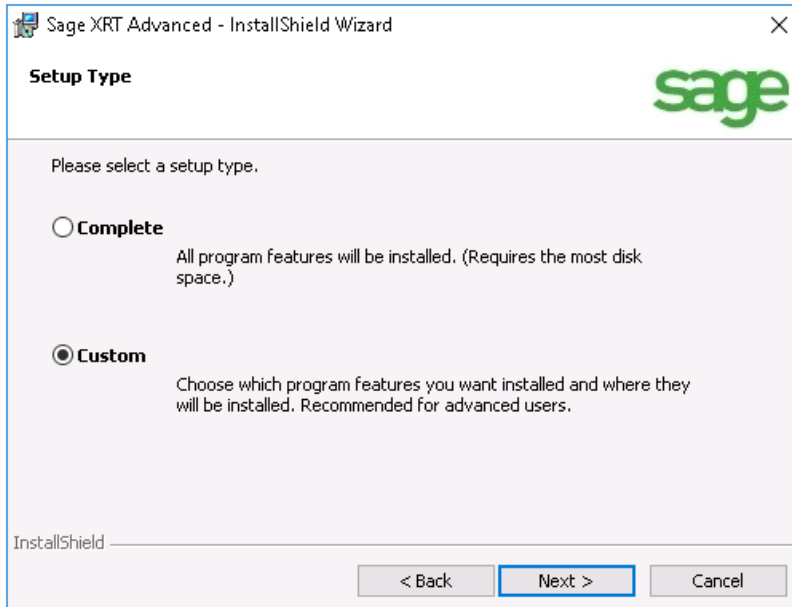
These data must be safely stored by the client. They are crucial to database restoration, re-installation on another server, and encryption modification for security reasons.

Important! Losing the security code and/or password can lead to data loss.

First Installation

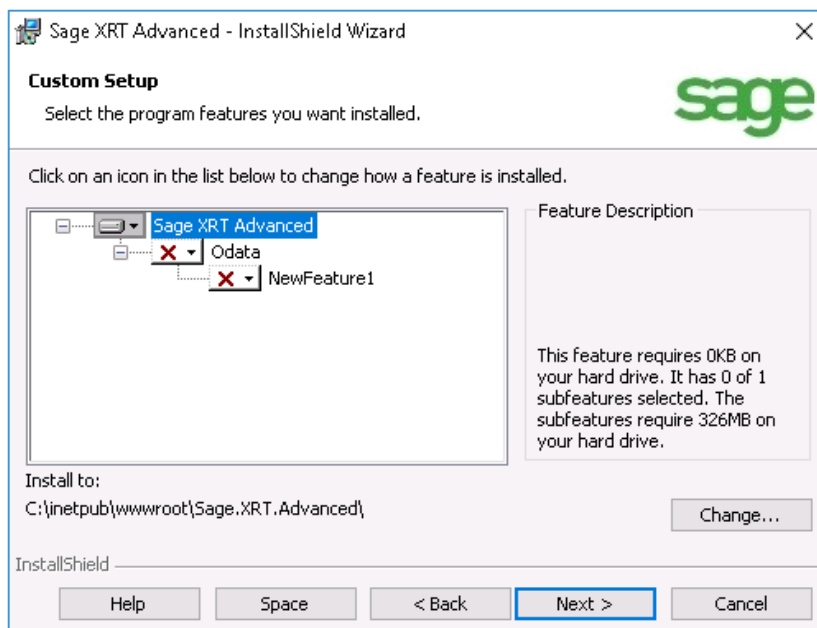
6. Select the installation type: **Complete** or **Custom**.

- Complete is a standard installation. All components are installed.
- Custom is a customized installation reserved for advanced users, it enables for example the specific setup of different paths and the installation of the applications that manage the synchronization.




7. Click **Next**.

With the custom installation, the list of the programs to install appears.



First Installation

8. Select your options.

To disable the installation of an option, click the corresponding  icon and select **This feature will not be available**: this icon **X** is displayed as illustrated above.

Conversely, click **X**, then **This feature, and all subfeatures, will be installed on local hard drive** to enable the programs you want.

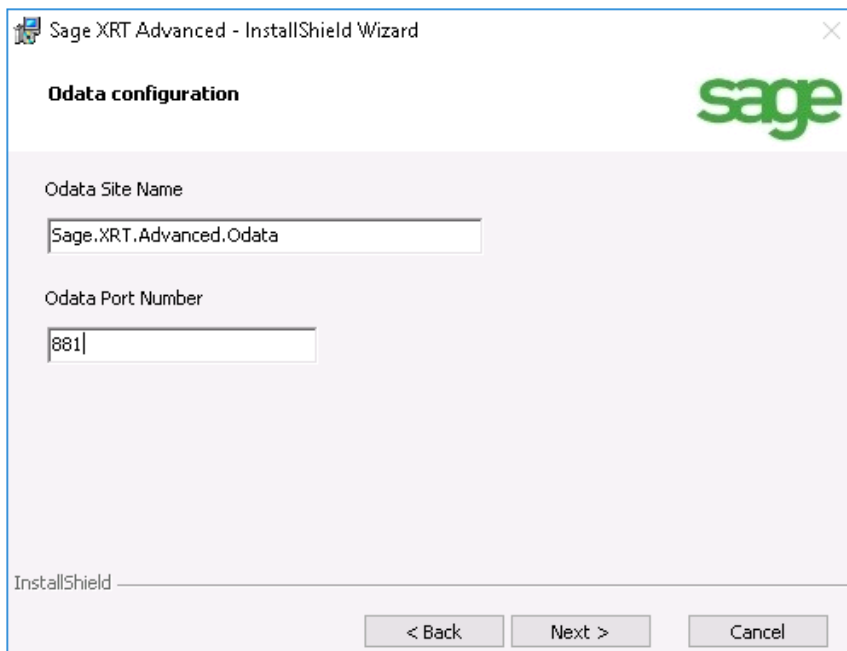
9. Click **Change** to change the installation path.

This must be done for every application.

Note: The **Service (Odata)** is crucial to the synchronization of data between **Sage XRT Treasury** and **Sage XRT Advanced**. This Service is included into the complete installation.

10. Click **Next**.

In the new window **Odata Configuration**, modify or validate the information related to *Odata* service: **Odata Site Name** and **Odata Port Number**.



The screenshot shows a window titled "Sage XRT Advanced - InstallShield Wizard" with the Sage logo in the top right corner. The window is titled "Odata configuration". It contains two input fields: "Odata Site Name" with the text "Sage.XRT.Advanced.Odata" and "Odata Port Number" with the text "881". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The "InstallShield" logo is visible in the bottom left corner of the window.

11. Click **Next**.

First Installation

The window recaps the database type i.e. **SQL** and the connection type used i.e. **SCS**.

Sage XRT Advanced - InstallShield Wizard

Data Base configuration

In this version SQL Database and SCS connection type is used

Database
SQL

Connection type
SCS

InstallShield

< Back Next Cancel

Note: For now, the product cannot use *Oracle* databases.

12. Complete the configuration settings for the synchronization service.

Note: These info are mandatory for the complete installation. For **Custom Mode**, you must specify the configuration settings but only when the **Odata** option has been enabled.

Sage XRT Advanced - InstallShield Wizard

Synchronization services configuration

Sage XRT Advanced User login
admin

Sage XRT Advanced User password
admin

To log synchronization process
Yes

Path of Synchronization log file
C:\Temp\FrpBrmSync

InstallShield

< Back Next Cancel

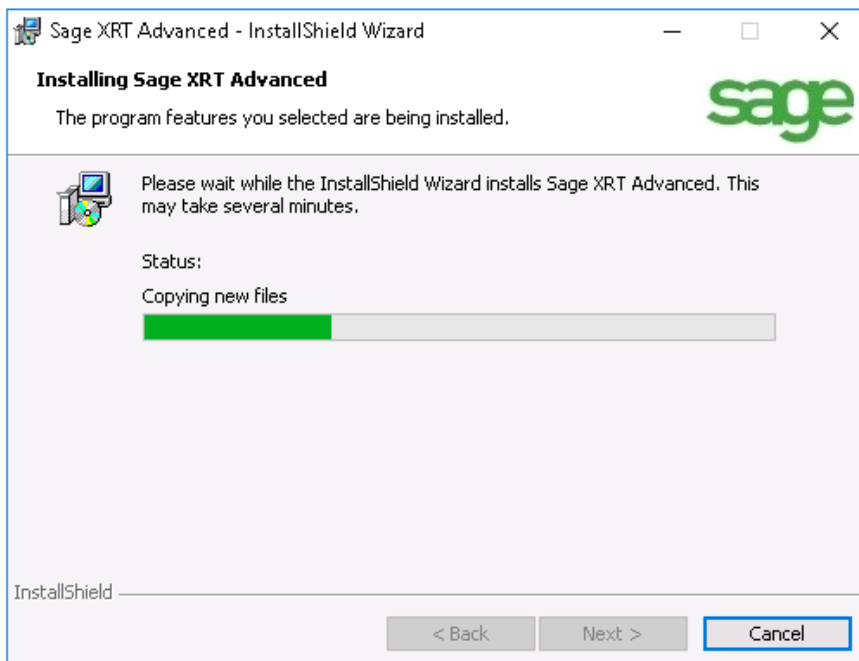
First Installation

- **Sage XRT Advanced User login:** Login for **Sage XRT Advanced** (which corresponds to a Level 1 Administrator for **SXCS**).
- **Sage XRT Advanced User password:** Password for **Sage XRT Advanced** (which corresponds to a Level 1 Administrator for **SXCS**).
- **To log synchronization process:** Enable/disable sync log. We recommend you leave this option activated.
- Path of Synchronization log file: Log file path.

Note: The **SXCS** user entered to use the synchronization process of **Sage XRT Advanced** (**admin** in the example), must have the proper rights to create all the setup. You must add these authorizations to the **Role** of the user.

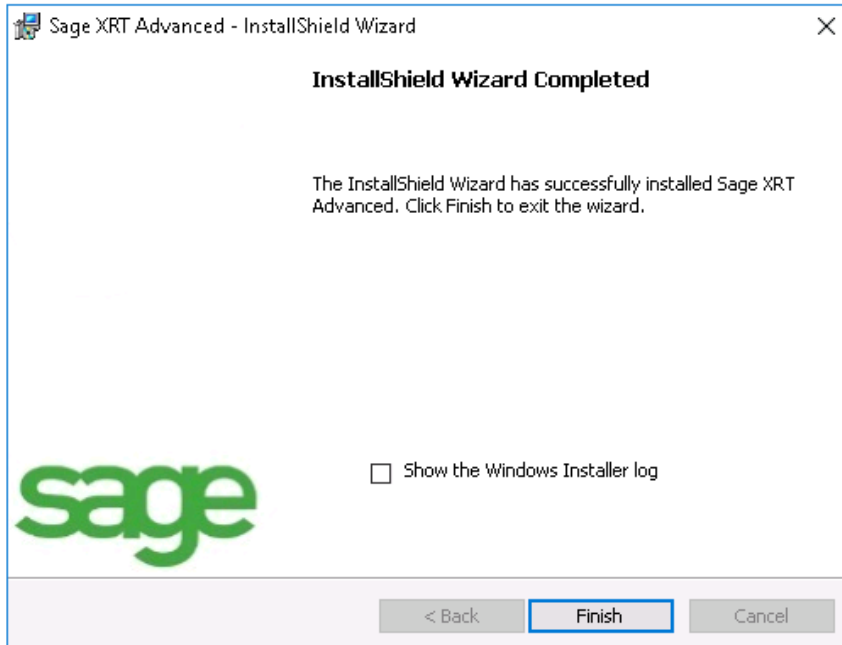
The application is now ready to be installed.

13. Click **Next**.



First Installation

A progression bar enables you to follow the progress of the installation process.



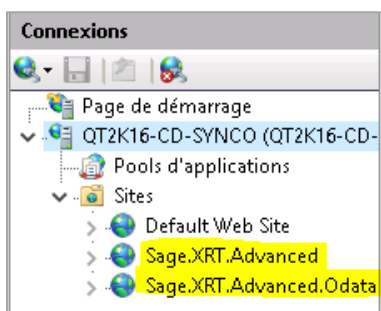
14. Click **Finish** to terminate the installation.

Checking Website on Server

1. Start **Internet IIS Service Manager** through Windows **Administration Tools**.

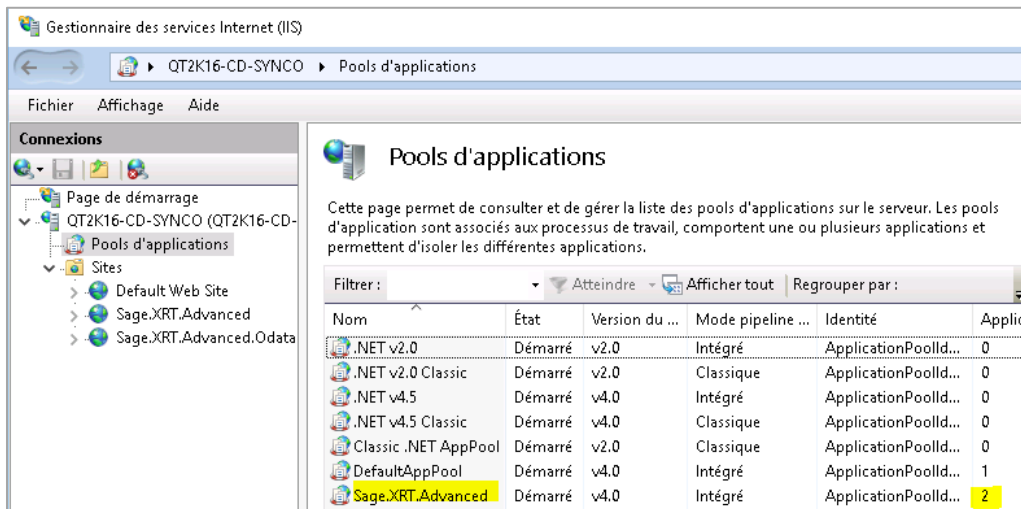
The website you previously created appears in the list: **Sage.XRT.Advanced**.

Sage.XRT.Advanced.Odata website also appears when you chose the complete installation or the **Odata** option.

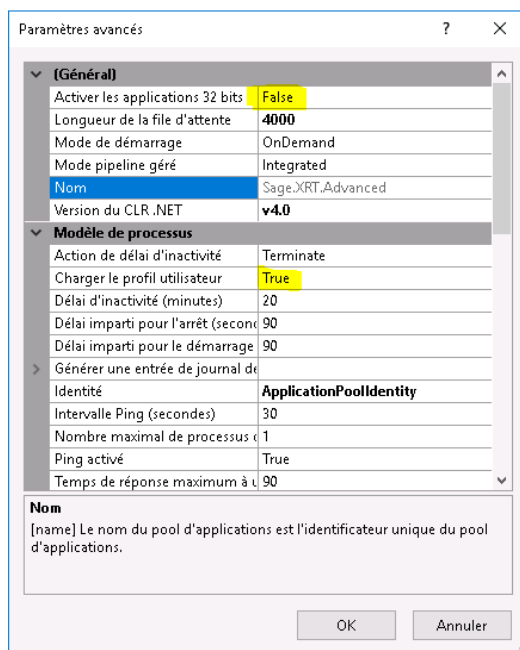


First Installation

2. Go to the **Application Pools**.



3. Select the application pool as specified above and click **Advanced Parameters** from the contextual menu available by right click.



4. Two actions are mandatory. In the **General** section, check whether **Enable 32bits Applications** is set to *False*. In the **Process Model** section, change the value of **Load User Profile** from *False* to *True*.

5. Click **OK** to save your changes.

Databases and Users

To continue with **Sage XRT Advanced** installation, two databases must be added whereas the workgroup must be set up.

First Installation

Go to the Administration Console of **Sage XRT Common Services 4.3.100: Administration Sage .NET**, select **Manage Workgroups** and click **OK**.

Expand the workgroup defined for **Sage XRT Common Services** databases and apply the process described in the following paragraphs.

Important! As of version 4.2 for **Sage XRT Common Services**, **Sage XRT Advanced** and **Sage XRT Treasury** databases must belong to different workgroups since versions differ: Version 3.9 for 32-bit applications and version 4.2 for 64-bit applications. You may have to duplicate **Sage XRT Common Services** database in **Sage XRT Advanced** workgroup.

Adding Databases

The default location of scripts remains the same as for **Sage XRT Common Services**: **C:\Program Files\Common Files\xrt\DBMS\SQLServer\NewDatabase**

The two databases to add to **Sage XRT Advanced** are:

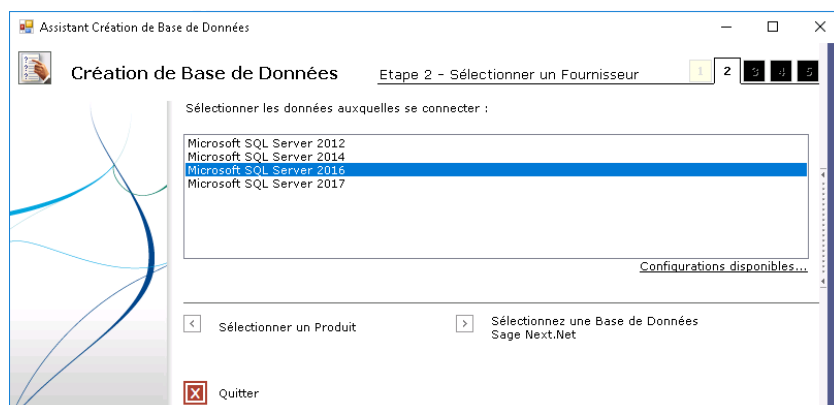
Sage Next.Net

Sage Next FRP Staging (synchronization database)

1. Click **Database** and select Add a Product Database.
2. Select **Sage Next.Net** product.



3. Click **Select a Provider**. Select the Provider.



First Installation

- Click **Select Sage Next.Net Database**. Specify the server, connection settings as well as any additional details linked to this new database.

Assistant Création de Base de Données

Création de Base de Données

Etape 3 - Sélectionnez une Base de Données Sage Next.Net

Sélectionner les informations nécessaires à la connexion aux données SQL Server :

- Sélectionner ou saisir un nom de serveur :
- Saisir les créden-tiels de l'administrateur du serveur :
 - Utiliser la sécurité intégrée de Windows NT
 - Utiliser un nom d'utilisateur et un mot de passe spécifiques :
 - Nom Utilisateur :
 - Mot de Passe : Pas de Mot de Passe
- Sélectionner ou créer une base de données sur le serveur :
 - Sélectionner la base de données : Utiliser ODBC Groupe de Disponibilité
 - Créer la base de données :
 - Nom : **SXA**
 - DBO : xRTDBO Mot de Passe : *****
 - Utilisateur : xRTUSERS Mot de Passe : *****
 - Collation string : French_CI_AS BD Contenant-Contenu

Sélectionner un Fournisseur Produits

Tester la connexion DBA
Tester la connexion DBO
Tester la connexion USERS

Quitter

- Click **Products**.

The next window recaps the characteristics for the Product database to be created.

Assistant Création de Base de Données

Création de Base de Données

Etape 4 - Produits

| Filegroup DATA | |
|----------------|---|
| Physical Name | SXA.mdf |
| Initial Size | 20MB |
| Logging | LOGGING |
| Max Size | UNLIMITED |
| File Growth | 5MB |
| Location | C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSER... |
| Name | PRIMARY |

| Filegroup INDEX | |
|-----------------|---|
| Physical Name | SXA_INDEX.ndf |
| Initial Size | 20MB |
| Logging | LOGGING |
| Max Size | UNLIMITED |
| File Growth | 5MB |
| Location | C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSER... |
| Name | INDEX |

Sélectionnez une Base de Données Sage Next.Net Créer / Modifier les Modèles

Quitter

First Installation

You can now change the installation directory for the database files (**Location**).

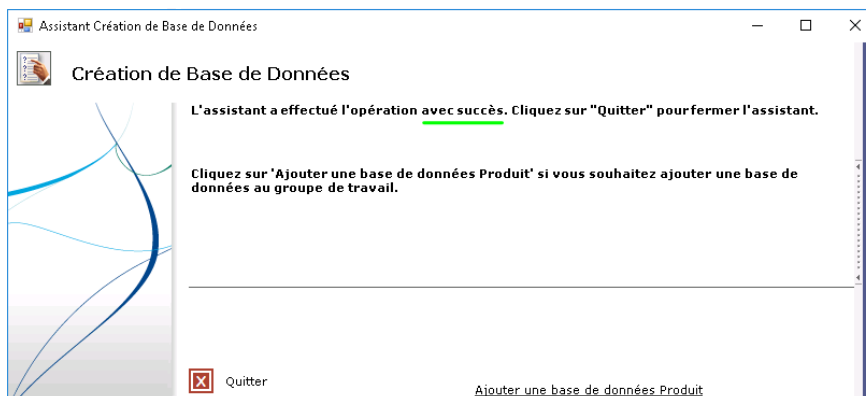
6. Click **Creating/Modifying Models**.

The list of the scripts to be used is displayed.



7. Click **Validate all steps**.

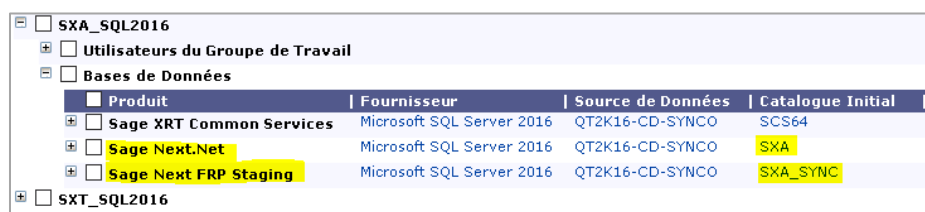
The result of the database creation is displayed.



8. Click **Add a Product Database** and repeat this process with **Sage Next FRP Staging** (sync base).

9. Click **Finish** and close the wizard.

At the end of this process, the databases clearly appear under your workgroup.



First Installation

Configuring Workgroups

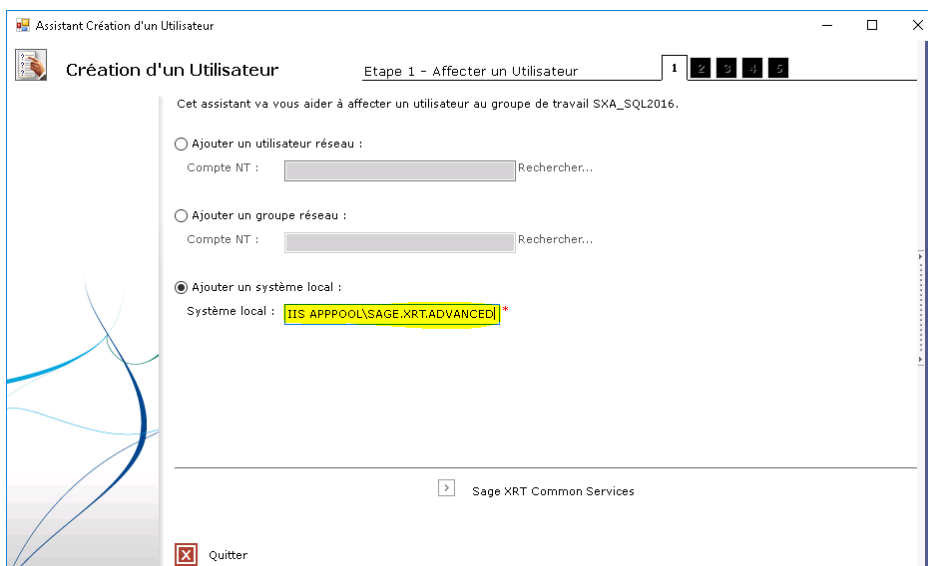
You must select the Workgroup as a Connection Source to Web Applications.

1. In order to set up a workgroup by using it as a connection source, you need to add a virtual IIS user to the **Workgroup Users** list; this user is then used for ASP.NET site.

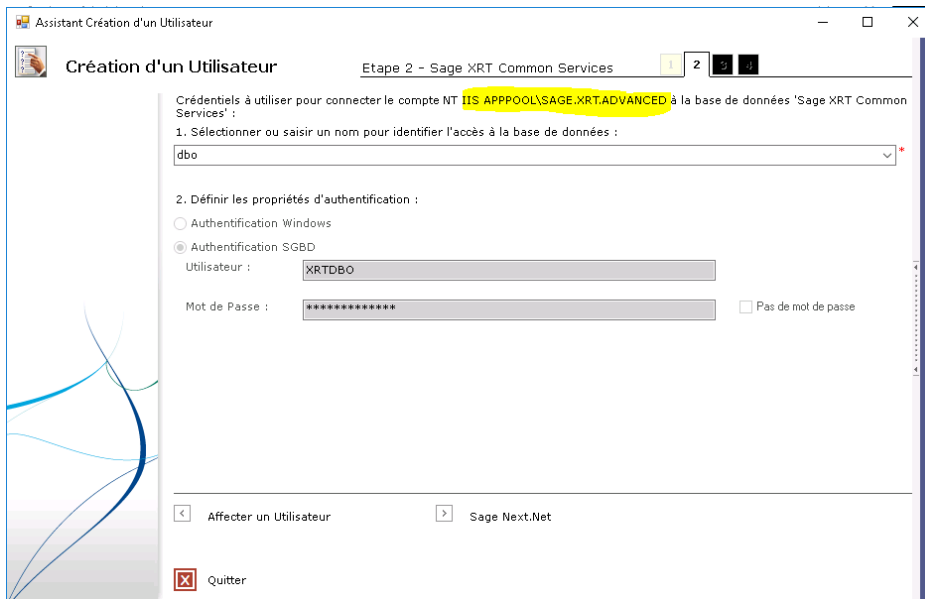


| Produit | Fournisseur | Source de Données | Catalogue Initial |
|--------------------------|---------------------------|-------------------|-------------------|
| Sage XRT Common Services | Microsoft SQL Server 2016 | QT2K16-CD-SYNCO | SCS64 |
| Sage Next.Net | Microsoft SQL Server 2016 | QT2K16-CD-SYNCO | SXA |
| Sage Next FRP Staging | Microsoft SQL Server 2016 | QT2K16-CD-SYNCO | SXA_SYNC |

2. You need to add **IIS APPPOOL\SAGE.XRT.ADVANCED** user to the list of local users or **IIS APPPOOL\<Name of your application pool>**.



First Installation

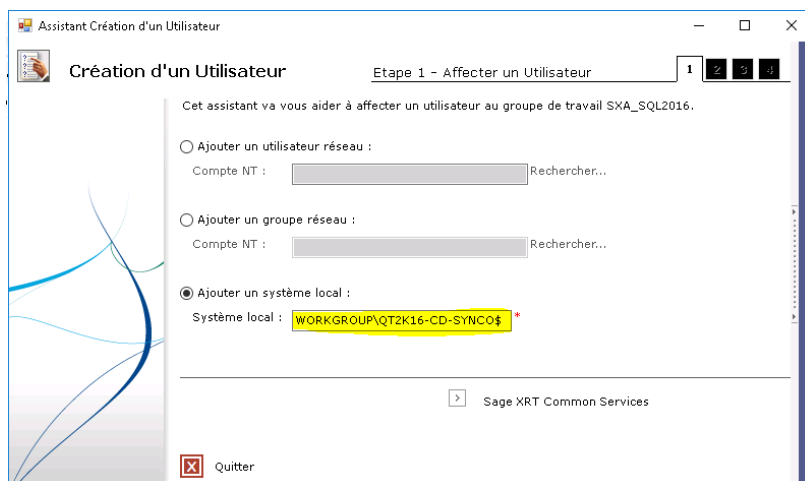


3. The next three steps (DBO setup) do not require any modification: just validate all of them.
4. Repeat this process to add another local user to be used for synchronization.

Set up the workgroup to use it as a connection source to *ServicesSage.Next.SData* and *Sage.Next.Batch Tasks services*. As these services are run with a default **Local System** Account, another user account corresponding to `<Domain Name>\<Station Name>$` must be added to the workgroup.

This user is the default one in the **Local System**. Go on with this validation.

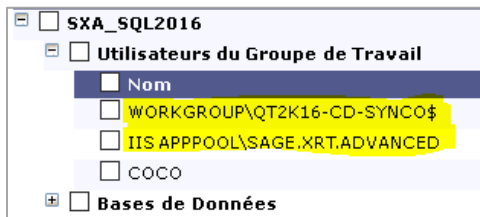
E.g.:



5. Add a user and select the **Local System** option while maintaining the preset elements. Proceed with the next three DBO assigning steps and click **Validate all steps**.

First Installation

At the end of the process, the minimum user list is the following:



Windows Services for Synchronization

Installing **Sage XRT Treasury** is required for the synchronization with **Sage XRT Advanced**.

Install **Sage XRT Treasury** after you installed **Sage XRT Bank Format Library 2.1.211**, then **Sage XRT Common Services 3.9.204**.

For this installation, select the **Custom** mode to make the future synchronization possible through the installation option: **XRT WCF Services** (see **Sage XRT Treasury** Installation Guide).

Note: **Sage XRT Treasury** workgroup must differ from **Sage XRT Advanced** one, since **Sage XRT Common Services** database cannot be shared: Build numbers for 32-bit (3.9) and 64-bit (4.3) versions are now different for this application.

The automatic synchronization is only available from **Sage XRT Treasury** to **Sage XRT Advanced**. The setup data are the ones to be automatically synchronized (**Companies** and **Accounts** for example).

Important! Every account saved in **Sage XRT Treasury** must be identified by a local Account ID.

Two services and one website enable the synchronization between the applications:

- *XuWcfServicesHost* service installed by **Sage XRT Treasury**
- *Sage.Next.BatchTasks* service installed by **Sage XRT Advanced**
- *Sage.XRT.Advanced.Odata* website installed by **Sage XRT Advanced**

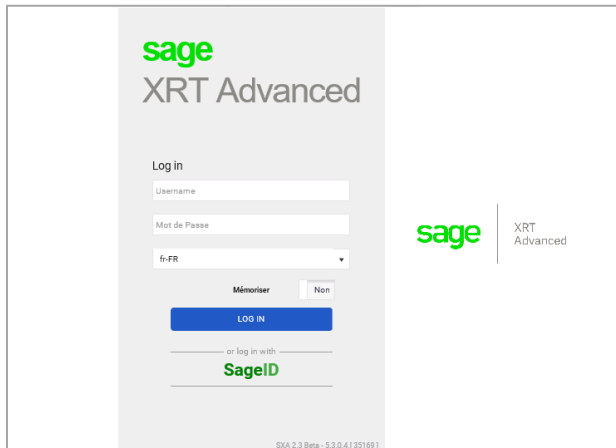
Elements of the first service *XuWcfServicesHost* only have to be completed. The settings for the second service have been defined during the installation.


The application must be restarted so that the modifications are taken into account.

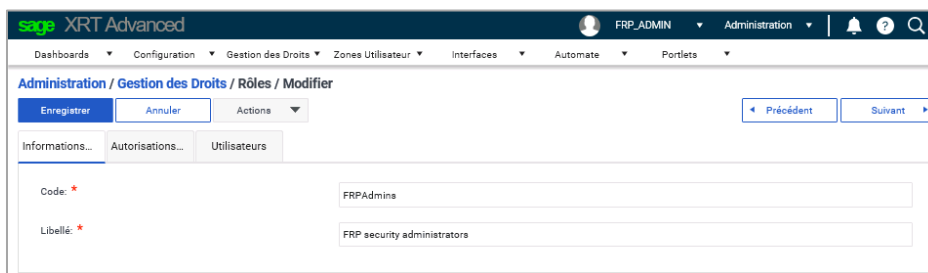
The settings defined during **Sage XRT Advanced** installation are required: Specification of a Level 1 Administrator for **Sage XRT Common Services** (**admin** in the example).

First Installation

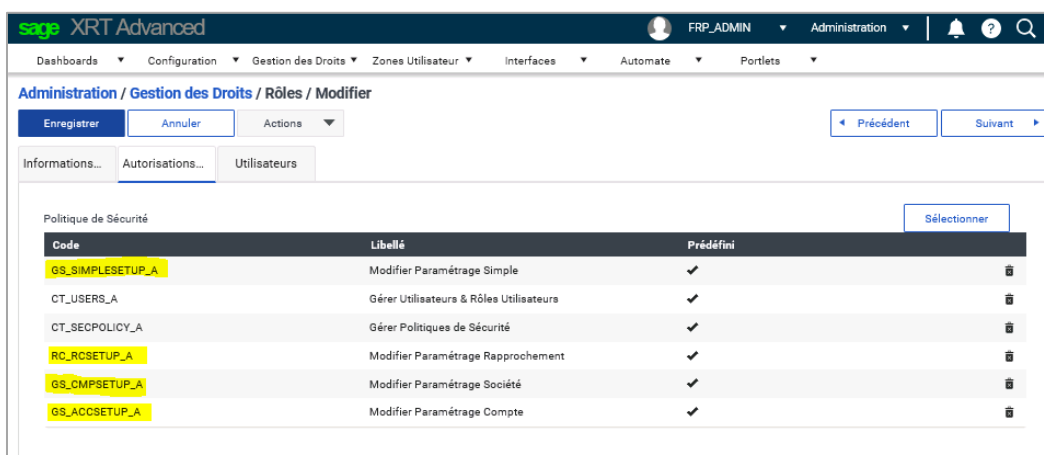
1. Go to **Sage XRT Advanced** using the link: *http://[Web Server Name]:[port]*.



2. In **Administration – Right Management – User Role**, open the **FRPAdmins** role by clicking the modification icon  (the pencil before the code), then go to **Access Rights**.



3. From **Security Policy**, select all the lines ending by **SETUP_A** (a total of four so far, appearing on various pages).



4. Validate the selection by clicking **Accept**, then terminate the role modification by clicking **Save**.

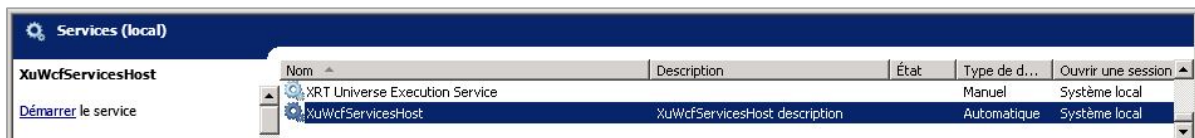
First Installation

- Restart manually **Sage.Next.Batch Tasks (Sage.XRT.Advanced)**.

You can make sure the synchronization works properly by checking the log file located in **C:\Temp\FrpBrmSync\Log** (or the path defined in the configuration file).

Sage XRT Treasury WCF

This service is created during the custom installation of **SAGE XRT Treasury** under the name **XuWcfServicesHost**, it is automatically started.



In the configuration file of this service, you must enter all the elements enabling the service to connect to the workgroup defined in **Sage XRT Common Services**, as well as the username to be used.

- In *Windows* explorer, go to: **C:\Program Files (x86)\Sage\FRP\Treasury\xunet**.
- Edit the file **XUHost.WcfServices.exe.config** with an application such as *Windows Notepad* in administration mode.
- Complete the values in red between quotation marks, like in the example:

```
<appSettings>
<add key="WorkgroupName" value="SXT_SQL2016"/>
<add key="XuUserName" value="admin"/>
</appSettings>
```

Note: The value defined in **XuUserName** must be identical to the one previously entered during the installation for the configuration of the synchronizing service (**admin** in the example).

- Save, quit and restart the service manually.

Data Encryption

This password identification is mandatory to ensure a high security level.

The password must be entered to complete the encryption key which enables the attachment of documents in the setup and to perform file import.

Three steps are required.

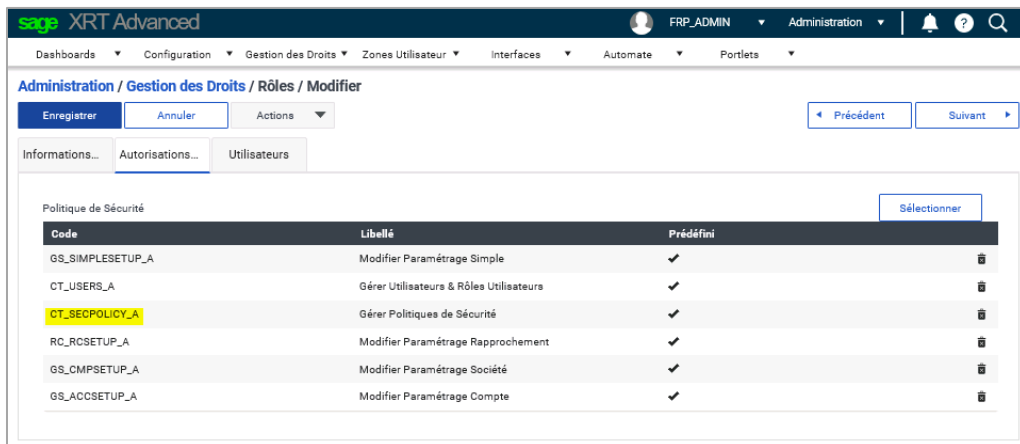
The first step consists in checking whether the user has the proper rights to proceed.

- In **Sage XRT Advanced – Administration – Right Management – User Role**, modify the **FRPAdmins** role, and go to Access Rights.

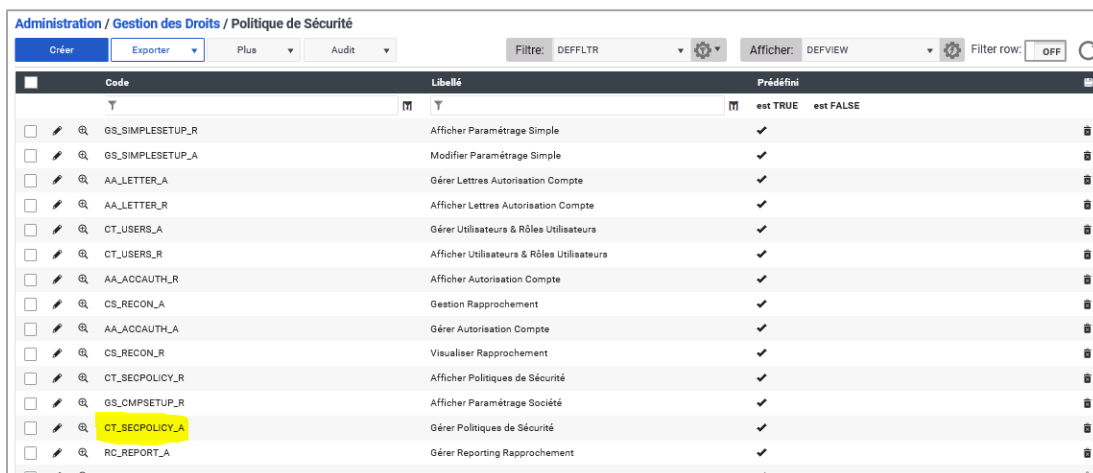
First Installation

Check the presence of the security policy called: *CT_SECPOLICY_A*. If it does not exist, select it from the list.

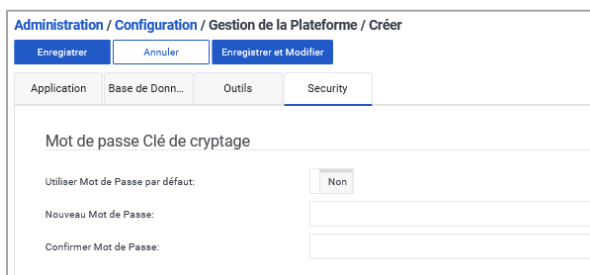
2. Then click **Validate**.



3. Check the presence of the **Security Policy** called: *CT_SECPOLICY_A*. Go to **Administration – Right Management – Security Policy**.



4. Then go to **Administration – Configuration – Platform Management** and in the **Security** tab.



First Installation

5. Switch the button to **Yes** and click **Save**. If you want to, specify a new password in the two corresponding fields.

The password must be remembered for future use, if **Sage XRT Advanced** Database linked to **Sage.XRT.Advanced** site, has to be redeployed on a new server, or if a modification in the database encryption key is required.

Important! The security code and password which generate the encryption key, are defined by the client and, as such, are confidential. These data must be safely stored by the client. They are crucial to database restoration, re-installation on another server, and encryption modification for security reasons.

Losing the security code and/or password can lead to data loss!

Installation - Update mode

Installing Products

Since version 2.1, our applications **Sage XRT Bank Format Library**, **Sage XRT Common Services**, **Sage XRT Advanced** are in 64 bits.

We strongly recommend you un-install/re-install instead of using update mode installations.

Important! Make sure you have backed up your database before proceeding with these updates, with or without synchronization with **Sage XRT Treasury**. Here is the list of the databases to back up:

- **Sage XRT Common Services**
- **Sage XRT Treasury**
- **Sage Next.Net**
- **Sage Next FRP Staging**

Sage XRT Bank Format Library

Update your format library by un-installing **Sage XRT Bank Format Library 2.1.20x** and installing **Sage XRT Bank Format Library 4.2.0**.

Note: If you perform the sync with **Sage XRT Treasury**, keep a 32-bit version of **Sage XRT Bank Format Library** and **Sage XRT Common Services**. 32-bit and 64-bit versions can co-exist.

Sage XRT Common Services

Update your **Sage XRT Common Services** by un-installing version 3.9.20x and installing **Sage XRT Common Services 4.3.101**.

Note: If you perform the sync with **Sage XRT Treasury**, keep a 32-bit version of **Sage XRT Bank Format Library** and **Sage XRT Common Services**. 32-bit and 64-bit versions can co-exist.

Sage XRT Advanced

Before starting, make sure you have met all the prerequisites specified in *SXA.2.3.TechnicalGuidelines_EN.pdf*. Otherwise, install the missing elements.

This is a two-step process:

1. Uninstall the previous version (4.00.x or 2.0x) via **Programs** in the **Control Panel**.
2. Install **Sage XRT Advanced 2.3** just like a first installation (see the previous chapter).

Important! Do not use **Sage XRT Advanced** Installation Update Mode. This mode may be unstable.

Databases and Users

Two **Sage XRT Advanced** databases must now be updated in the workgroup.

1. Go to **Sage XRT Common Services Administration Console** i.e. **Administration Sage .NET**, select the **Manage Workgroups** option.
2. Click the **OK** button.
3. Select the corresponding workgroup and click **+** to expand it along with the databases.

Updating the databases

1. Select **Sage Next.Net** database and click the action: **Check Database**.

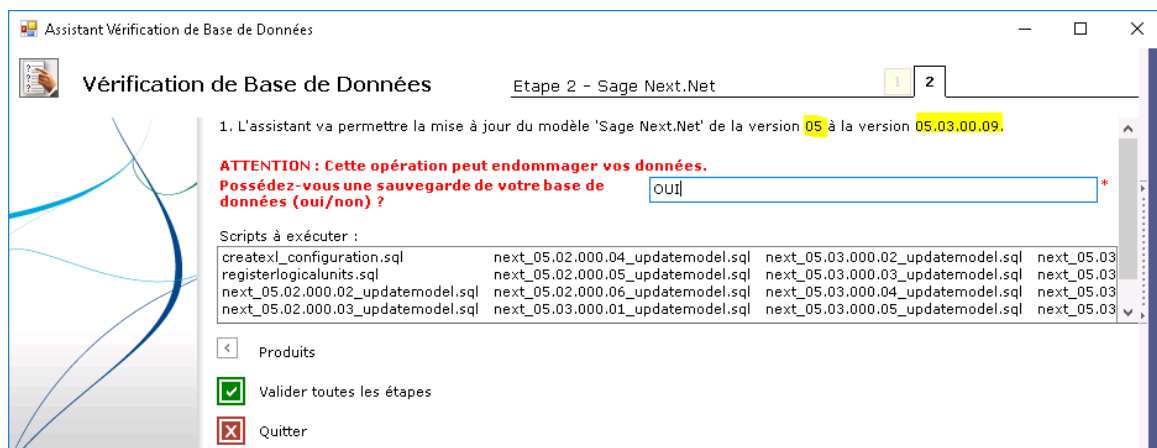
Step 1 – Products



This window helps you to identify the current version.

2. Click **Sage Next.Net**.

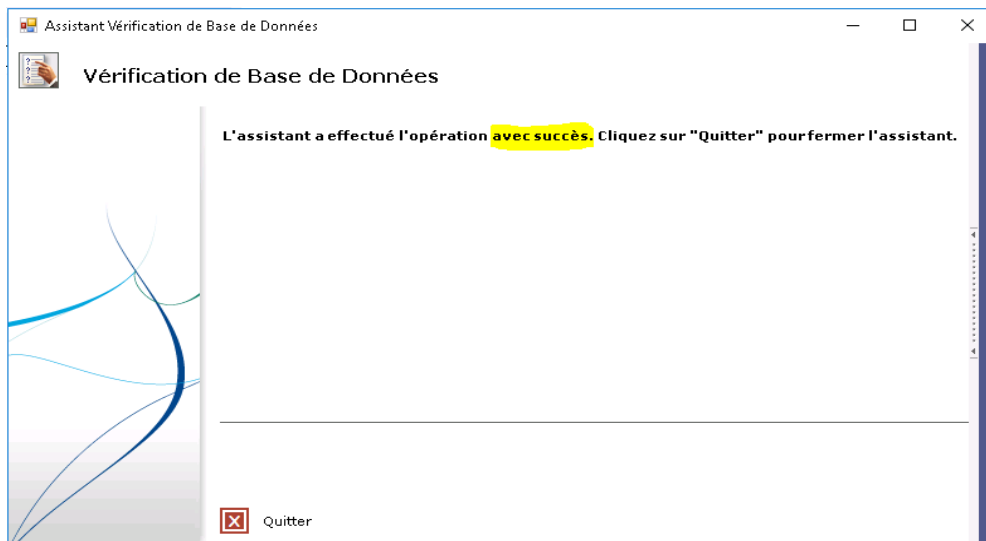
Step 2 – Sage Next.Net



Installation - Update mode

3. Click **Validate all steps**.

The result of the database update is displayed.



4. Click **Finish** to close the wizard.
5. Repeat this operation to update the synchronization database: **Sage Next FRP Staging**.