Agile Product Lifecycle Management

MCAD Connectors for Agile Engineering Collaboration Installation Guide

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Preface

Contacting Oracle Support Services

For Oracle Agile Engineering Collaboration support contact the Oracle Global Customer Support (GCS) via www.oracle.com/support or My Oracle Support via https://support.oracle.com.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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Prerequisites

Prior to the installation of the CAD Connectors and the EC Web Dialogs on a local system, you must verify the following items:

- Database is operational and running.
- Install Agile PLM (see Introduction for supported versions) successfully on an accessible server (the prerequisites for Java Runtime Environment are the same as for Agile PLM server).

Important If you are not working with a member of Oracle Consutling Services, you are strongly encouraged to refer to Agile Product Lifecycle Management Documentation for installation procedures.

- Agile File Management Server is usable and accessible.
- A test environment is prepared.
- Install a CAD system that the test user can launch from the home directory.
- Login name and password of the Agile PLM test user are known in Agile PLM.
- The test user can launch an Agile PLM client session.

Note that starting with release 3.0 of the Engineering Collaboration MCAD Connectors, only the Design data model is supported for storing CAD data in PLM. If you are currently using the DocuBOM data model for EC it is necessary to migrate the data accordingly. Please contact Oracle Consulting Services for assistance.

Installing and Configuring Pro/ENGINEER Connector

This section describes setting up the connection between your Pro/ENGINEER CAD application and Agile Engineering Collaboration.

The main steps are:

- Extract files from Pro/ENGINEER Connector zip file.
- Follow the instruction of installing the Web Connector.
- Edit some parameters in the configuration file.
- Edit some parameters in the mapping file.
- Create shortcut to new startup file.
- Create toolbar in Pro/E (optional).

The installation requires the following files:

xacpNNNN.zip – Main CAD Connector installation package, where NNNN is the release level.

acxNNNN.zip – Main Web Connector installation package, where NNNN is the release level.

Performing the installation steps described here will enable the Agile menu to appear within Pro/E. In order to have a completely functional integration, you must also:

- Perform the core Agile configuration, as described in the *Administration* section of the document *Agile Engineering Collaboration Client*.
- Configure desired Pro/E Connector parameters as described in the *Administration Guide*.

Extracting Files for Pro/ENGINEER Connector

Extract the installation file in new and emtpy folder location **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped you should see a folder named **xacp**, which contains the connector installation.

Extract the EC Web Components installation file (**xacxNNN.zip**) into the **xacp** folder in the **<Installation Directory>**. When you unzip make sure that you retain the folder paths from the zip file. If you are prompted for overwriting existing files always accept.

Now follow the common installation instructions in *Installing and Configuring EC Web Connector* and copy the required EC Web Components server code to your Agile Server and run the Load Callback Installer if needed.

Setting Java Version

The Web Connector installation contains the necessary JRE (32 bit and 64 bit). If you are running Pro/ENGINEER 32 bit or 64 bit usually you do not need to make any changes. The start script contains automated switch for 64 bit settings.

	Java Requirement	How to change
Pro/E Connector	Java 6 for 32 bit Java 6 for 64 bit (use special 64 bit JRE provided)	Edit the setting "AcpJava" in the file <Install Directory>\xacp\com\xAcp.cfg and set the JRE directory: … # --- Java runtime directory ---------- # optional settings # using %AcpRoot%\jre6 if not set # **AcpJava=C:\Programme\Java\jre6** # …

Optional you can change the settings for JRE, as shown in the table below.

Note If you change the JRE environment you have to make sure the proper versions are set for the version of Pro/ENGINEER you are running.

Editing the Configuration File

Open the file **<Install Directory>\xacp\com\xAcp.cfg** in a text editor. Edit the values as described in the table below to match your system configuration.

Sample values	What this command specifies
AcpUserRoot=D:\AcpUser	Working directory for user data and files
CAX_WORKSPACE_ROOT=D:\AcpWork	Optional setting for workspace root. Using %AcpUserRoot%\wspaces if not set
AcpLang=english	ACP Menu and UI language
LANG=english	Optional setting for Pro/E language
AcpAgl=Agile9	Setting Agile version (Main release)
AcpCustomerIni=AcpCustomer9.ini	Define name of ini file for custom specific settings
AcpProEV=2007	Currently, installed version of Pro/E: ▫ "2010" designates Creo Pro Elements 5.0 (WF5 M70) ▫ "2009" designates Pro/E Wildfire 5 ▫ "2007" designates Pro/E Wildfire 4 ▫ "2006" designates Pro/E Wildfire 3
AcpStartProE=D:\proe\bin\proe1.bat	Set to the path and filename of your Pro/E startup script; this file is usually located in the bin directory of the Pro/ENGINEER installation. However, if your company has a customized Pro/E start script, please set this value accordingly.

Creating a Shortcut to the Startup File

In order to run Pro/E with the connector, you must run using the startup file **<Install Directory>\xacp\com\xacp_start.bat.** To make this more convenient, you may want to create a Windows shortcut to this file either on your Desktop or in your Quick Launch bar.

Verify that the Pro/E Connector is working by double-clicking on your shortcut to launch Pro/E. You should see an Agile menu appear in the main menu bar.

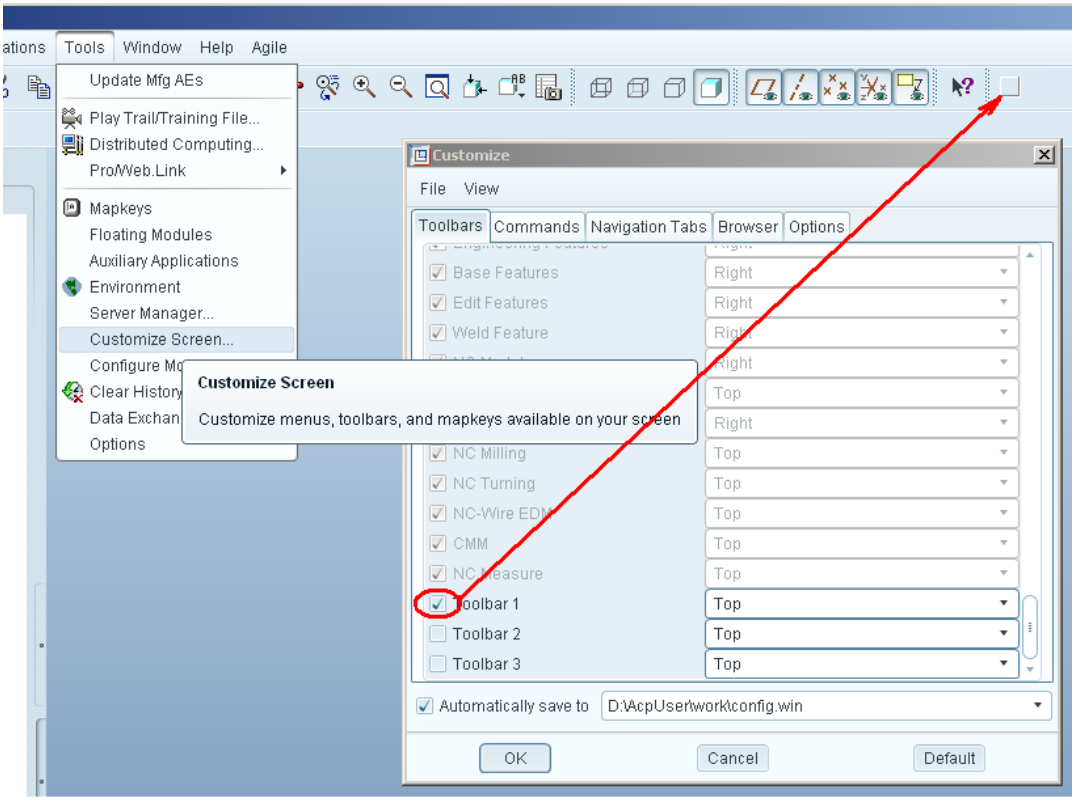
Creating the Agile Toolbar in Pro/E

This step is optional; it will create a toolbar that you can use to run the Agile commands, in addition to the Agile menu.

To create the toolbar icon on the Pro/E toolbar:

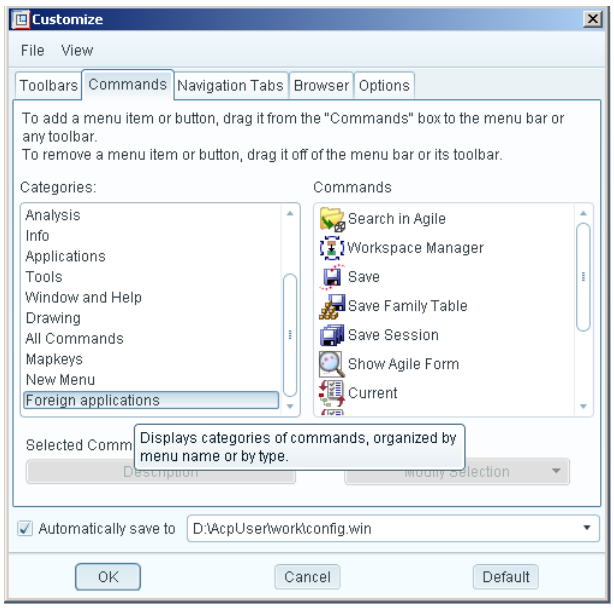
1. Choose *Tools* → *Customize Screen* and select the Toolbars tab.
2. When you enable the *Toolbar 1* field by clicking the checkbox, a new blank toolbar appears on the main toolbar.

Figure: Enabling the Toolbar



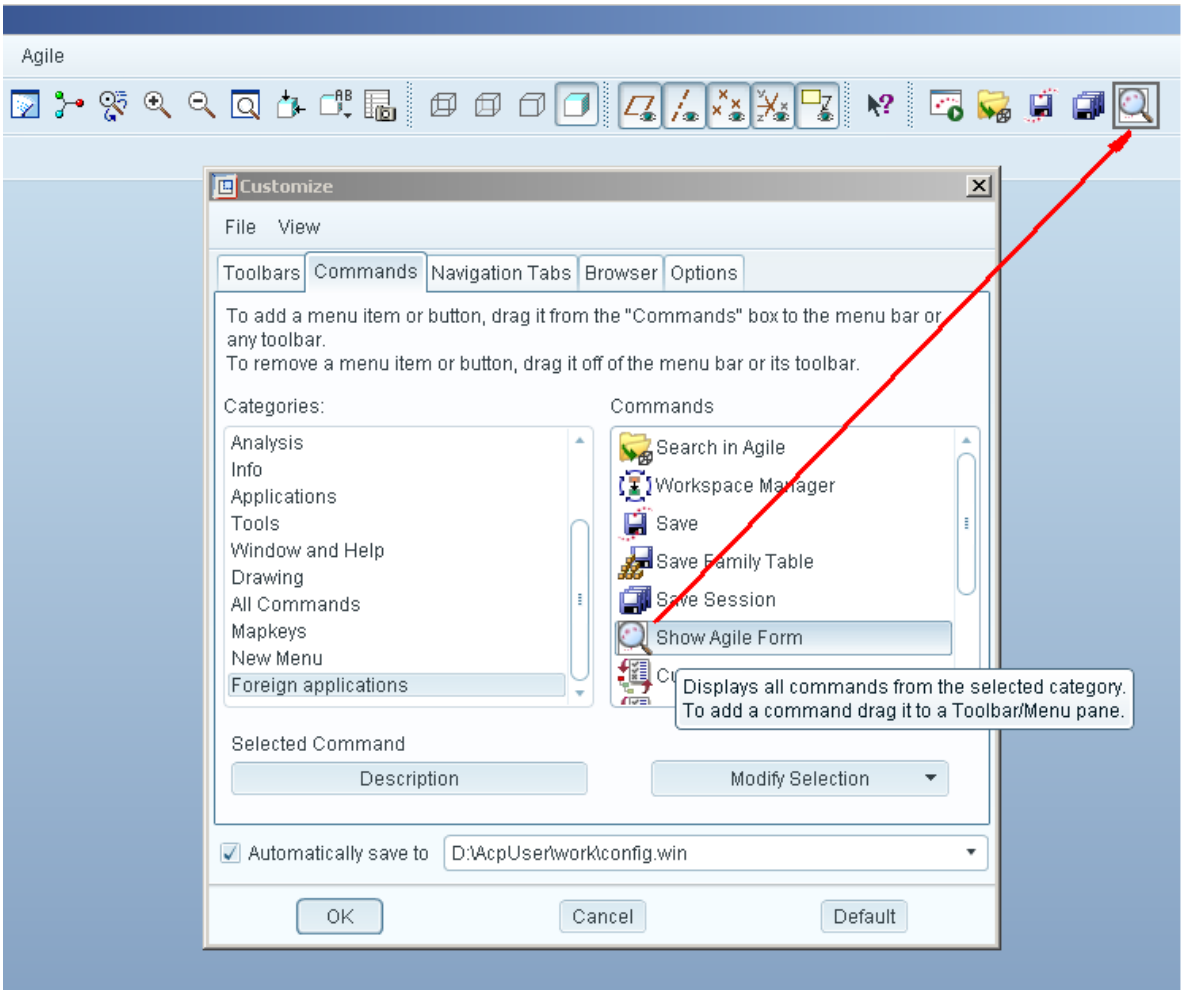
3. Select the *Commands* tab. Scroll down and select *Foreign applications*. The icons of the Agile menu appear in the Commands area.

Figure: Toolbar Commands



4. Select a command from the Commands area and drag it to the blank toolbar.

Figure: Moving icons to the Toolbar



Installing on Additional Computers

Once the Pro/E Connector has been installed and configured on one machine, you can install on other machines simply by copying the entire **<Install Directory>\xacp** folder structure. This works as long as the machines are configured the same in terms of their Pro/E setup, Java setup, etc.

Installing and Configuring CATIA V5 Connector

This section describes setting up the connection between your CATIA V5 CAD application and Agile Engineering Collaboration. The main steps are:

- Extract files from CATIA V5 Connector zip file.
- Follow the Instruction of Installing the Web Connector.
- Edit some parameters in the configuration file.
- Edit some parameters in the environment file.
- Create shortcut to new startup file.

The installation requires the following file:

xaccNNNN.zip – Main installation package, where NNNN is the release level.

acxNNNN.zip – Main Web Connector installation package, where NNNN is the release level.

Performing the installation steps described here will enable the Agile toolbars to appear within CATIA V5. In order to have a completely functional integration, you must also:

- Perform the core Agile configuration as described in the *Administration section* of the document *Agile Engineering Collaboration Client*.
- Configure desired CATIA V5 Connector parameters as described in the *Administration Guide*.

Extracting Files for Connector

Extract the installation file in new and emtpy folder location **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folder named **xacc**, which contains the Connector installation.

Extract the EC Web Components installation file (**xacxNNN.zip**) into the **xacc** folder in the **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. If you are promped for owerwriting existing files always accept.

Now follow the common installation instructions in *Installing and Configuring EC Web Connector* and copy the required EC Web Components server code to your Agile Server and run the Load Callback Installer if needed.

Setting the Java Version

The CATIA V5 Connector installation contains the necessary JRE environments. You need to make sure the proper versions are set for the version of CATIA V5 and Agile PLM you are running. There are two independent settings for Java versions that can be made, as shown in the table below.

	Java requirement	How to set
CATIA V5 Connector	Java 6 for 32 bit Java 6 for 64 bit (use special 64 bit JRE provided)	Windows: acc.cfg AccJava=…\xacc\jre6 AccJavaRT=…\xacc\jre6\bin\client 64bit switch: AccJava=…\xacc\jre6_64\ AccJavaRT=…\xacc\jre6_64\bin\server

Editing the Configuration File

Open the file **<Install Directory>\xacc\com\Acc.cfg** in a text editor. Edit the values to match your system configuration.

Sample values	What this command specifies
`AccUserRoot=f:\AccUser`	Root directory for user data and files (suggested value:**D:\AgileCAT** or **C:\AgileCAT**)
`AccTemplateFolder=f:\acc2-work\templates\`	Template folder for use with the "New" command. A default template folder is provided at **<Install Directory>\xacc\templates**
`CatiaEnv=CATIA_ECC`	Your CATIA environment. This selects the CATIA environment file to use
`AccJava=D:\jre6`	Path to Java Runtime Environment (Note: Avoid blanks or spaces in path.) Determine the required CATIA connector JRE version from the chart in Appendix C, and then select the appropriate path from the available ones provided in the acc installation.

Sample values	What this command specifies
`Csp=r19spx`	CATIA version (r17spx, r18spx, r19spx)
`CatiaBin=z:\Programme\DassaultSystemes\B19\intel_a\code\bin\CNEXT.exe`	Path to CATIA executable

Editing the Environment File

You must edit your CATIA environment file to put in the appropriate folder paths. The file to edit depends on your CATIA version and environment name. By default, the filename is **CATIA_ECC.txt**, and is located in the **<Install Directory>\xacc\bin\<os>\<agile_version>\<catia_version>** folder.

For example, **<Install Directory>\xacc\bin\intel_a\agile9\r13spx\CATIA_ECC.txt.**

Edit all folder paths within this file to match your system's CATIA installation.

Creating a Shortcut to the Startup File

In order to run CATIA V5 with the Connector, you must run using the startup file **<Install Directory>\xacc\com\cv5.cmd.** To make this more convenient, you may want to create a Windows shortcut to this file, either on your Desktop or in your Quick Launch bar.

Verify that the CATIA V5 Connector is working by double-clicking on your shortcut to launch CATIA V5. You should see the Agile toolbars appear in the CATIA user interface.

Installing on Additional Computers

Once the CATIA V5 Connector has been installed and configured on one machine, you can install on other machines simply by copying the entire **<Install Directory>\xacc** folder structure. This works as long as the machines are configured the same in terms of their CATIA V5 setup, Java setup, etc.

Installing and Configuring SolidWorks Connector

This section describes setting up the connection between your SolidWorks CAD application and Agile Engineering Collaboration.

The main steps are:

- Extract files from SolidWorks Connector zip file.
- Follow the instruction of installing the Web Connector.
- Edit some parameters in the configuration file.
- Register the SolidWorks integration.
- Create shortcut to new startup file.
- Activate menu *Add In* in SolidWorks.

The installation requires the following files:

xacwNNNN.zip - Main CAD Connector installation package, where NNNN is the release level.

acxNNNN.zip - Main Web Connector installation package, where NNNN is the release level.

Performing the installation steps described here will enable the Agile menu to appear within SolidWorks. In order to have a completely functional integration, you must also:

- Perform the core Agile configuration, as described in the *Administration section* of the document *Agile Engineering Collaboration Client*.
- Configure desired SolidWorks Connector parameters as described in the *Administration Guide*.

Extracting Files for SolidWorks Connector

Create a new folder for the combined Solid Edge and SolidWorks connector, such as **C:\AgileEC\xacw** called your **<Installation Directory>**.

ATTENTION: The required components are registered from the current location. You must not install xacw on a network location. The SolidWorks connector will not work properly if installed on network drives.

Extract the installation file (**xacwNNN.zip**) in new and emtpy folder location **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folders named **components**, **xCore and install**, which contain the connector installation.

Extract the EC Web Components installation file (**xacxNNN.zip**) into the **components** subfolder in the **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. If you are prompted for overwriting existing files always accept.

Run the setup as described in the next chapter.

Now follow the common installation instructions in *Installing and Configuring EC Web Connector* and copy the required EC Web Components server code to your Agile Server.

Setup the SolidWorks Connector using the Installer

The installer checks the local system for already installed components and prerequisites.

Depending on your system architecture launch the installer for 32 or 64 bit.

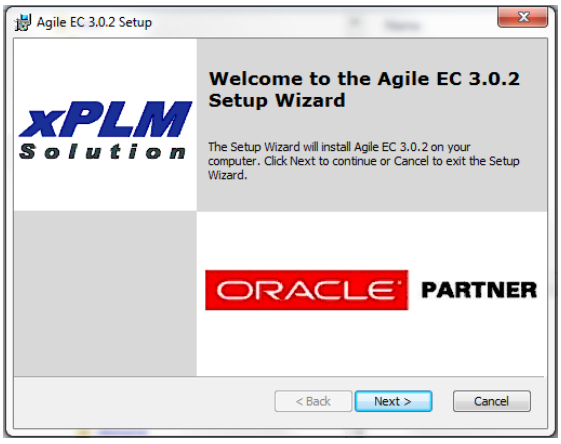
On 64 bit machines the installer is launched using the **setup_x64.exe** located in the **install** directory of xacw.

On 32 bit machines the installer is launched using the **setup_x86.exe** located in the **install** directory of xacw.

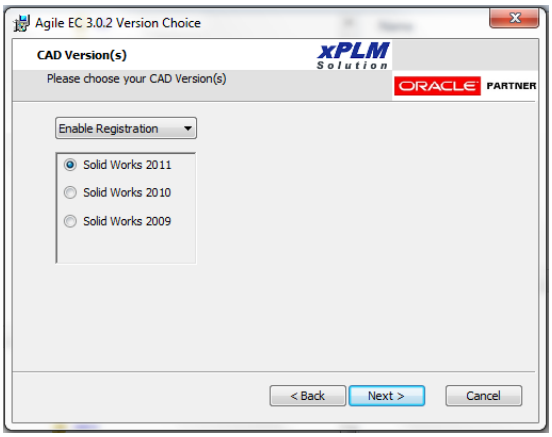
ATTENTION: On Windows 7 machines make sure you choose "Run as administrator"

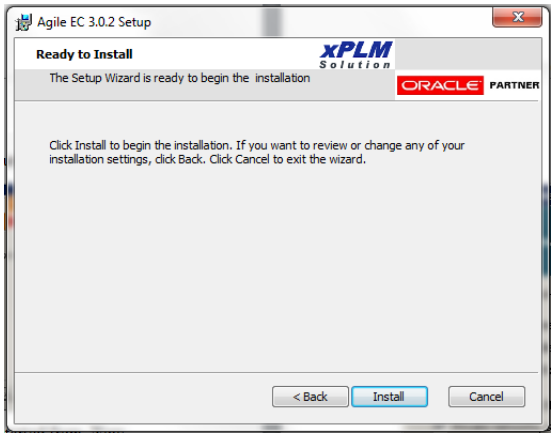
The installer checks the Microsoft C++ runtime environment. In case a component is missing on the local system, the missing components are displayed. You have to select the *Install* button in order to contiunue with the setup.

Now the C++ runtime environments are installed and the installation of EC components starts.



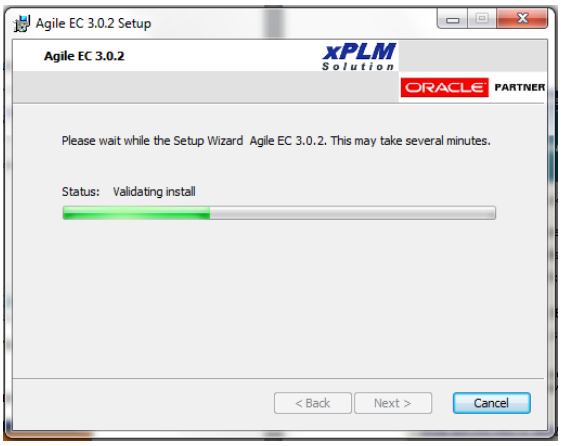
Hit the *Next* button and accept the license agreement and hit the *Next* button again.

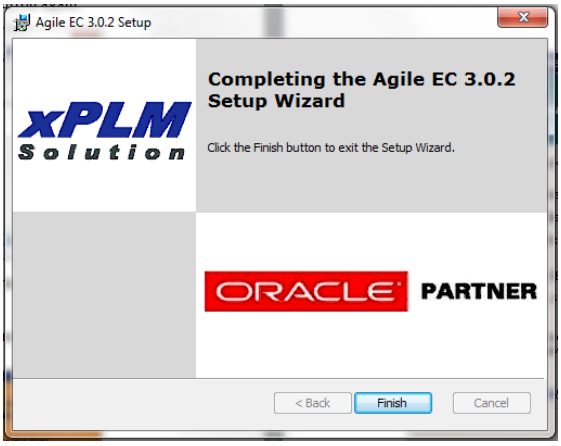




The installer detects available integrations in the package where it was started from. Now select the desired CAD version for install and hit the *Next* button.

Now the configuration is complete and you hit *Install* to start the component registration.





ATTENTION: The installer registeres the xPLMRootDir environment variable. On some machines a reboot is required to make this setting known in the system. If the Load from PLM command doesn't work, check the xPLMRootDir setting and reboot once after the installation.

ATTENTION: After the installation was completed and you have started the integration or the add-in the first time you may see some alerts from local firewalls. EC establishes a socket connection between CAD and EC Webcomponent. If you see any of the following screens, make sure you allow the access. Otherwise EC will not work properly.

Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of Java(TM) Platform SE binary on all public and private networks.
Name: Java(TM) Platform SE binary
Publisher: Sun Microsystems, Inc.
Path: C:\program files\agileec\xacw\components\jre6\bin\javaw.exe
Allow Java(TM) Platform SE binary to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of SldWorks on all public and private networks.
Name: SldWorks
Publisher: Dassault Systèmes SolidWorks Corp.
Path: C:\program files\solidworks corp\solidworks\sldworks.exe
Allow SldWorks to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

Microsoft .NET environment on older Windows operating systems

The connector requires a Microsoft .NET runtime environment installed on the CAD machine. In case you see this error message during a save process you have to install the Microsoft .NET V3.5 Compact redistributable environment or the Microsoft .NET framework 3.5 from the Microsoft download pages.

Setting the Java Version

The required Java setting in the PATH statement is set by the installer.

The Web Connector installation contains the necessary JRE (32 bit and 64 bit). If you are running SolidWorks 32 bit or 64 bit you have to check the PATH setting to include the required **jvm.dll** of the right JRE.

For a 32 bit SolidWorks application you have to set the 32 bit JRE environment into your system path like this:

```
set PATH=[inst]\xacw\components\jre6\bin\client;[inst]\xacw\components\jr
e6\bin;%PATH%
```

For a 64 bit SolidWorks application you have to set the 64 bit JRE environment and 32 bit JRE environment into your system path like this:

```
set PATH=[inst]\xacw\components\jre6_64\bin\server;[inst]\xacw\components
\jre6_64\bin;[inst]\xacw\components\jre6\bin\client;[inst]\xacw\component
s\jre6\bin;%PATH%
```

Setting the Workspace Root

Open the file **<Install Directory>\xacw\components\com\start_acx.bat** in a text editor. Here you can edit the working directories. The Workspace Root is set with the following statements:

```
set cax_temp=C:\CAX_wspace\Default\

set CAX_WORKSPACE_ROOT=C:\CAX_wspace
```

Also make sure the file **<Install Directory>\xacw\components\xml\xPLMComConnector.xml** points to that directory:

```
<LocalWorkDir> C:\CAX_wspace\Default\</LocalWorkDir>
```

Setup the SolidWorks Connector using xplm_reg.bat

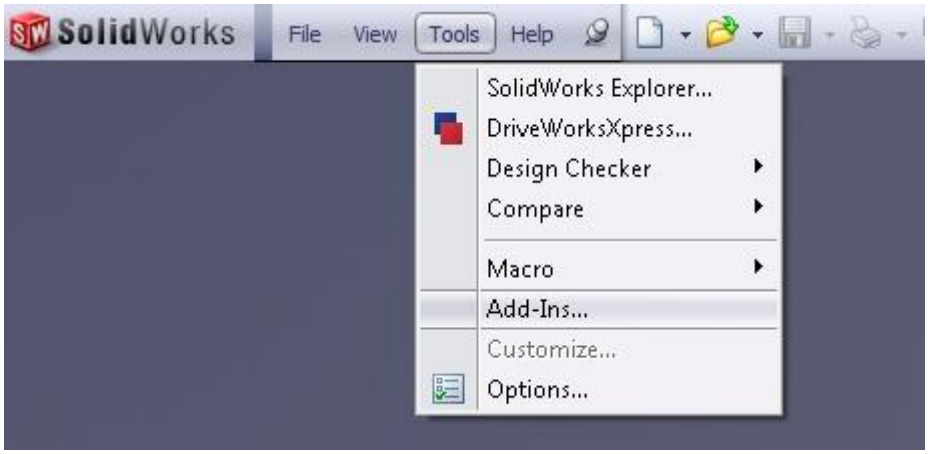
Attention: We recommend using the installer rather than the register scripts as described in the next chapter.

Inside the **xacw\xCore** directory is the **xplm-reg.bat** script located. This script prompts you for the following parameters:

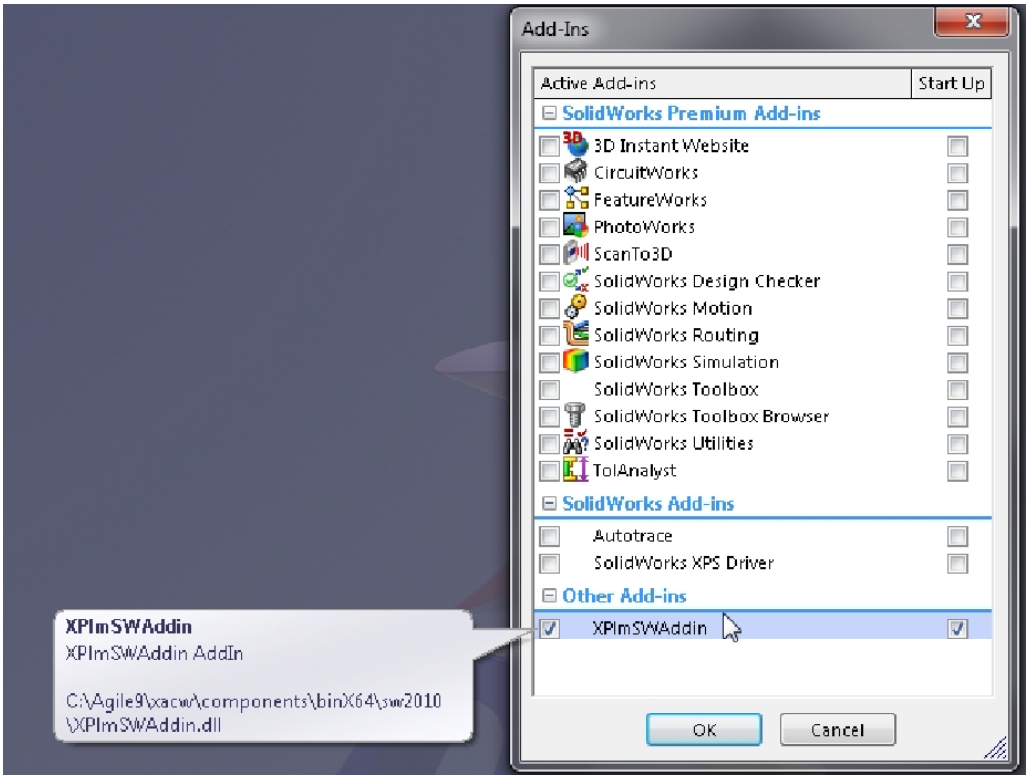
- Machine Architecture (`x86`/`amd64`) – You can enter one of the values or leave it blank. If you leave a blank value the script detects the processor architecture.
- Silent Install – You can enter `1` to have a silent installation. `0` will print messages during installation.
- SolidWorks Version – You enter a valid value for your installed SolidWorks version. Valid values are `2008`, `2009`, `2010` and `2011`.

Creating the Agile Menu in SolidWorks

The integration is loaded into the SolidWorks menu using an add-in. After you completed the installation and registration, enable the add-in in SolidWorks menu.

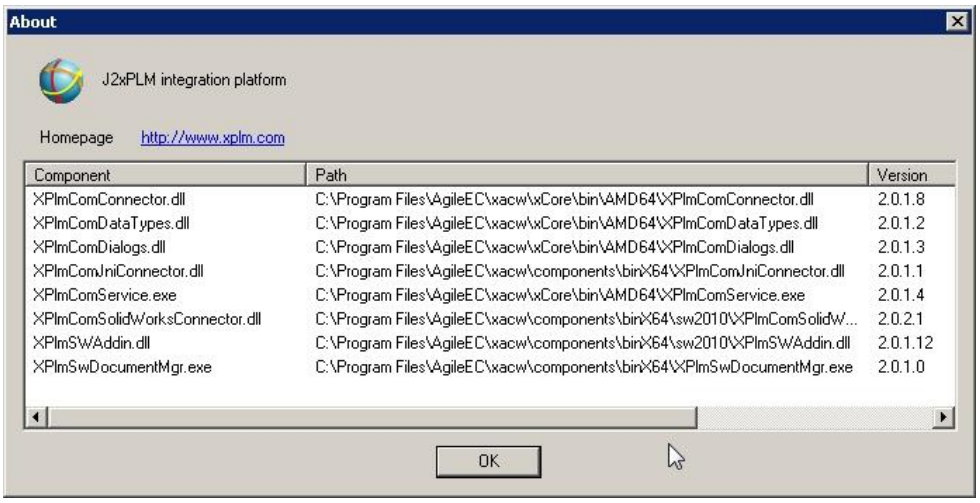


Make sure you check the *XPlmSWAddin* and you check the *Start Up* checkbox column.

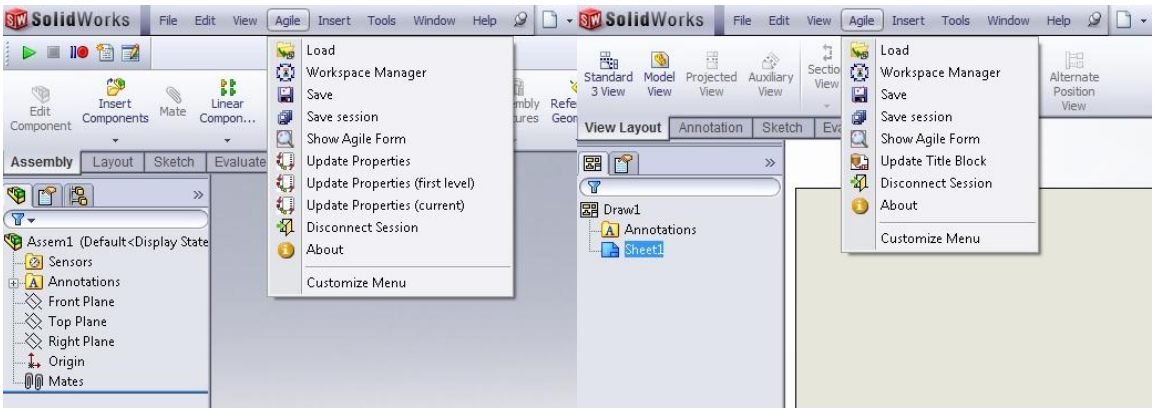


After startup of the add-in you see the Agile base menu inside SolidWorks:

The About menu will show the required registered components.



The Agile menu is context specific, so there are three different menus for Parts, Assemblies and Drawings as shown below.



Installing on Additional Computers

Once the SolidWorks Connector has been installed and configured on one machine, you can install on other machines simply by copying the entire **<Install Directory>\xacw** folder structure. You have to rerun the registration using the installer as described above. This works as long as the machines are configured the same in terms of their SolidWorks setup, Java setup, etc.

Installing and Configuring Solid Edge Connector

This section describes setting up the connection between your Solid Edge CAD application and Agile Engineering Collaboration.

The main steps are:

- Extract files from Solid Edge Connector zip file.
- Follow the instruction of installing the Web Connector.
- Edit some parameters in the configuration file.
- Register the Solid Edge integration.
- Create shortcut to new startup file.

The installation requires the following files:

xaceNNNN.zip – Main CAD Connector installation package, where NNNN is the release level.

acxNNNN.zip – Main Web Connector installation package, where NNNN is the release level.

Performing the installation steps described here will enable the Agile menu to appear within Solid Edge. In order to have a completely functional integration, you must also:

- Perform the core Agile configuration, as described in the *Administration section* of the document *Agile Engineering Collaboration Client*.
- Configure desired Solid Edge Connector parameters as described in the *Administration Guide*.

Extracting Files for Solid Edge Connector

Create a new folder for the combined Solid Edge and SolidWorks connector, such as **C:\AgileEC\xace** called your **<Installation Directory>**.

ATTENTION: The required components are registered from the current location. You must not install xace on a network location. The Solid Edge connector will not work properly if installed on network drives.

Extract the installation file (**xaceNNN.zip**) in new and emtpy folder location **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folders named **components**, **xCore and install**, which contain the connector installation.

Extract the EC Web Components installation file (**xacxNNN.zip**) into the **components** subfolder in the **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. If you are promped for overwriting existing files always accept.

Run the setup as described in the next chapter.

Now follow the common installation instructions in *Installing and Configuring EC Web Connector* and copy the required EC Web Components server code to your Agile Server.

Setup the Solid Edge Connector using the Installer

The installer checks the local system for already installed components and prerequisites.

Depending on your system architecture launch the installer for 32 or 64 bit.

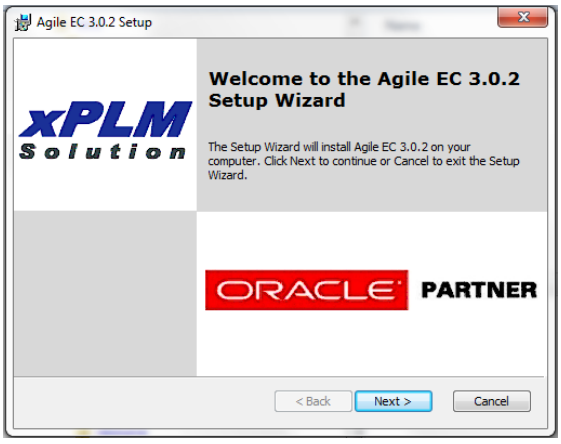
On 64 bit machines the installer is launched using the **setup_x64.exe** located in the **install** directory of **xace**.

On 32 bit machines the installer is launched using the **setup_x86.exe** located in the **install** directory of **xace**.

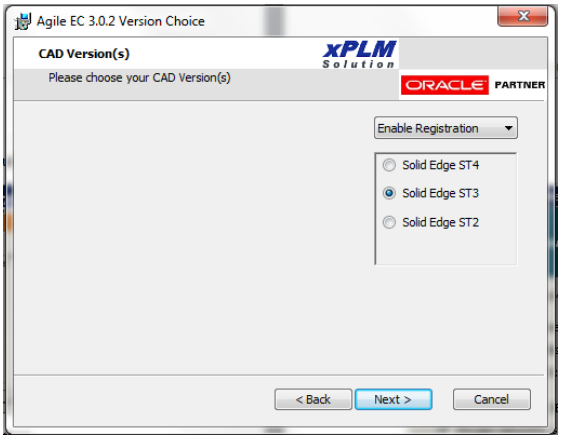
ATTENTION: On Windows 7 machines make sure you choose "Run as administrator"

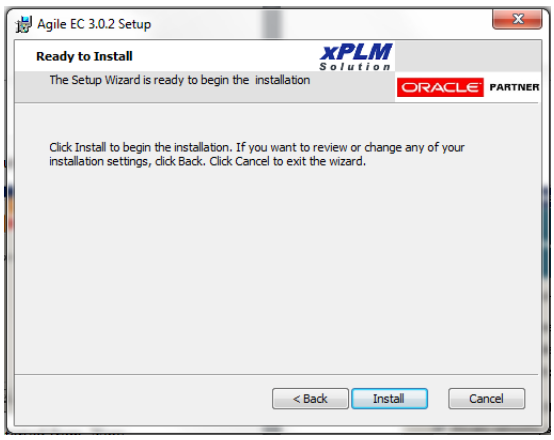
The installer checks the Microsoft C++ runtime environment. In case a component is missing on the local system, the missing components are displayed. You have to select the *Install* button in order to contiunue with the setup.

Now the C++ runtime environments are installed and the installation of EC components starts.



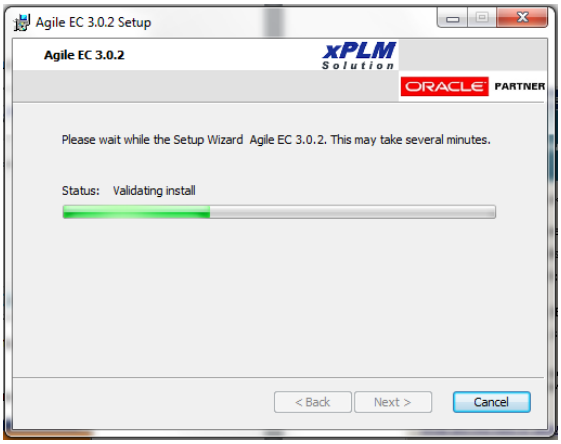
Hit the *Next* button and accept the license agreement and hit the *Next* button again.

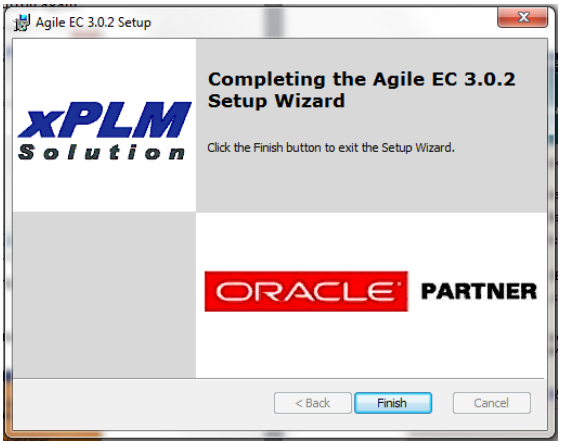




The installer detects available integrations in the package where it was started from. Now select the desired CAD version for install and hit the *Next* button.

Now the configuration is complete and you hit *Install* to start the component registration.





ATTENTION: The installer registeres the xPLMRootDir environment variable. On some machines a reboot is required to make this setting known in the system. Especially if the Load from PLM command doesn't work, check the xPLMRootDir setting and reboot once after the installation.

ATTENTION: After the installation was completed and you have started the integration or the add-in for the first time you may see some alerts from local firewalls. EC establishes a socket connection between CAD and EC Webcomponent. If you see any of the following screens, make sure you allow the access. Otherwise EC will not work properly.

Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of Java(TM) Platform SE binary on all public and private networks.
Name: Java(TM) Platform SE binary
Publisher: Sun Microsystems, Inc.
Path: C:\program files\agileec\xacw\components\jre6\bin\javaw.exe
Allow Java(TM) Platform SE binary to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of SldWorks on all public and private networks.
Name: SldWorks
Publisher: Dassault Systèmes SolidWorks Corp.
Path: C:\program files\solidworks corp\solidworks\sldworks.exe
Allow SldWorks to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

Setting the Java Version

This chapter describes the settings that should be created after you ran the installer.

The Web Connector installation contains the necessary JRE (32 bit and 64 bit). If you are running Solid Edge 32 bit or 64 bit you have to check the PATH setting to include the required **jvm.dll** of the right JRE.

For a 32 bit Solid Edge application you have to set the 32 bit JRE environment into your system path like this:

```
set PATH=[inst]\xacw\components\jre6\bin\client;[inst]\xacw\components\jr
e6\bin;%PATH%
```

For a 64 bit Solid Edge application you have to set the 64 bit JRE environment and 32 bit JRE environment into your system path like this:

```
set PATH=[inst]\xacw\components\jre6_64\bin\server;[inst]\xacw\components
\jre6_64\bin;[inst]\xacw\components\jre6\bin\client;[inst]\xacw\component
s\jre6\bin;%PATH%
```

Microsoft .NET environment on older Windows operating systems

The connector requires a Microsoft .NET runtime environment installed on the CAD machine. In case you see this error message during a save process you have to install the Microsoft .NET V3.5 Compact redistributable environment or the Microsoft .NET framework 3.5 from the Microsoft download pages.

Setting the Workspace Root

Open the file **<Install Directory>\xacw\components\com\start_ace.bat** in a text editor. Here you can edit the working directories. The Workspace Root is set with the following statements:

```
set cax_temp=C:\CAX_wspace\Default\

set CAX_WORKSPACE_ROOT=C:\CAX_wspace
```

Also make sure the file **<Install Directory>\xacw\components\xml\xPLMConnector.xml** points to that directory:

```
<LocalWorkDir> C:\CAX_wspace\Default\</LocalWorkDir>
```

Setup the Solid Edge Connector using xplm_reg_se.bat

Attention: We recommend using the installer rather than the register scripts as described in the next chapter.

Inside the **xace\xCore** directory is the **xplm-reg-se.bat** script located. This script prompts you for the following parameters:

- Machine Architecture (`x86`/`amd64`) – You can enter one of the values or leave it blank. If you leave a blank value the script detects the processor architecture.
- Silent Install – You can enter `1` to have a silent installation. `0` will print messages during installation.
- Solid Edge Version – You enter a valid value for your installed Solid Edge version. Valid values are `ST2`, `ST3`, `ST4`.

Installing on Additional Computers

Once the Solid Edge Connector has been installed and configured on one machine, you can install on other machines simply by copying the entire **<Install Directory>\xace** folder structure. You have to rerun the registration using the installer or the **xplm_reg.bat** as described above. This works as long as the machines are configured the same in terms of their Solid Edge setup, Java setup, etc.

How to setup Solid Edge and SolidWorks Connector in parallel on one machine

This section describes setting up the connection between your CAD applications and Agile Engineering Collaboration, if you want to use more than one CAD system on the same machine.

The main steps are:

- Extract files from Solid Edge Connector zip file.
- Extract files from SolidWorks Connector zip file.
- Follow the instruction of installing the Web Connector.
- Run the installer.

The installation requires the following files:

xaceNNNN.zip - Main Solid Edge CAD Connector installation package, where NNNN is the release level.

xacwNNNN.zip - Main SolidWorks Connector installation package, where NNNN is the release level.

acxNNNN.zip - Main Web Connector installation package, where NNNN is the release level.

Performing the installation steps described here will enable the Agile menu to appear within Solid Edge and SolidWorks. In order to have a completely functional integration, you must also:

- Perform the core Agile configuration, as described in the *Administration section* of the document *Agile Engineering Collaboration Client*.
- Configure desired Solid Edge Connector parameters as described in the *Administration Guide*.
- Configure desired SolidWorks Connector parameters as described in the *Administration Guide*.

Extracting Files for the combined CAD Connector

Create a new folder for the combined Solid Edge and SolidWorks connector, such as **C:\AgileEC\acx** called your **<Installation Directory>**.

ATTENTION: The required components are registered from the current location. You must not install xace on a network location. The Solid Edge connector will not work properly if installed on network drives.

Extract the **Solid Edge** installation file (**xaceNNN.zip**) into the **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folders named **components**, **install and xCore**, which contain the Solid Edge Connector installation.

Extract the **SolidWorks** installation file (**xacwNNN.zip**) into the same **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. If you are prompted for overwriting existing files always accept. When the files are unzipped, you should still see a folders named **components**, **install and xCore**, which contain the SolidWorks Connector installation.

Extract the **Web Components** installation file (**xacxNNN.zip**) into the **components** subfolder in the **<Installation Directory>**. When you unzip, make sure that you retain the folder paths from the zip file. If you are prompted for overwriting existing files always accept.

Run the setup as described in the next chapter.

Now follow the common installation instructions in *Installing and Configuring EC Web Connector* and copy the required EC Web Components server code to your Agile Server.

Setup the Combined Connector using the Installer

The installer checks the local system for already installed components and prerequisites.

Depending on your system architecture launch the installer for 32 or 64 bit.

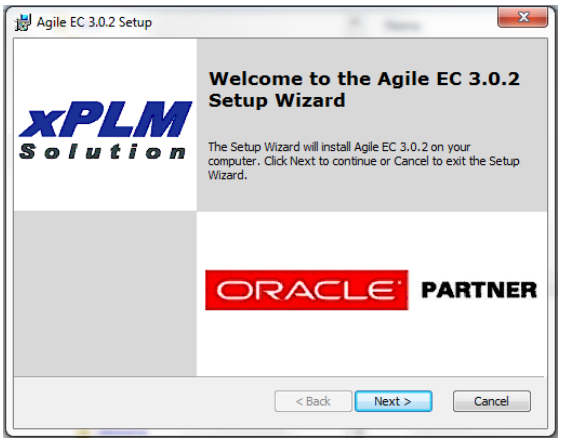
On 64 bit machines the installer is launched using the **setup_x64.exe** located in the **install** directory of **<Installation Directory>**.

On 32 bit machines the installer is launched using the **setup_x86.exe** located in the **install** directory of **<Installation Directory>**.

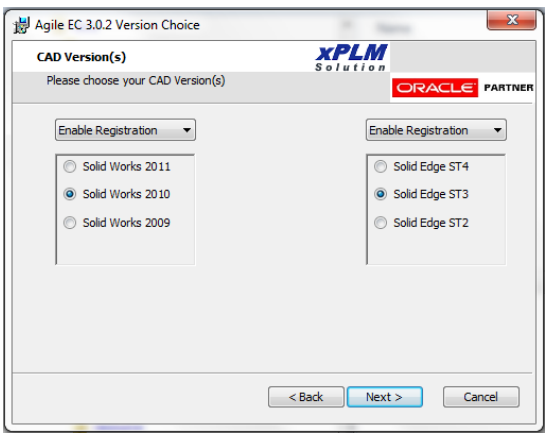
ATTENTION: On Windows 7 machines make sure you choose "Run as administrator"

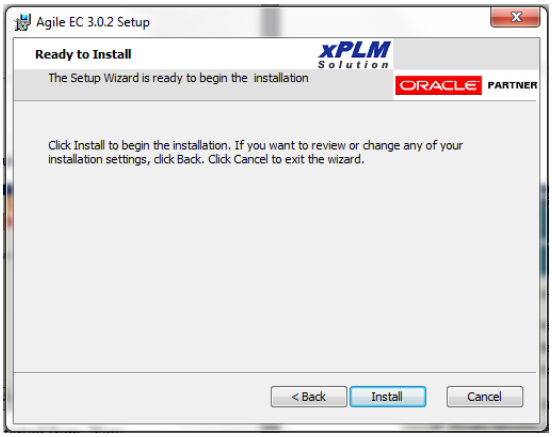
The installer checks the Microsoft C++ runtime environment. In case a component is missing on the local system, the missing components are displayed. You have to select the Install button in order to continue with the setup.

Now the C++ runtime environments are installed and the installation of EC components starts.



Hit the *Next* button and accept the license agreement and hit the *Next* button again.

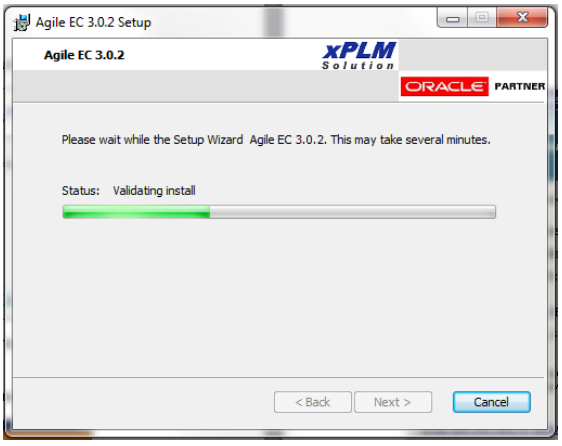


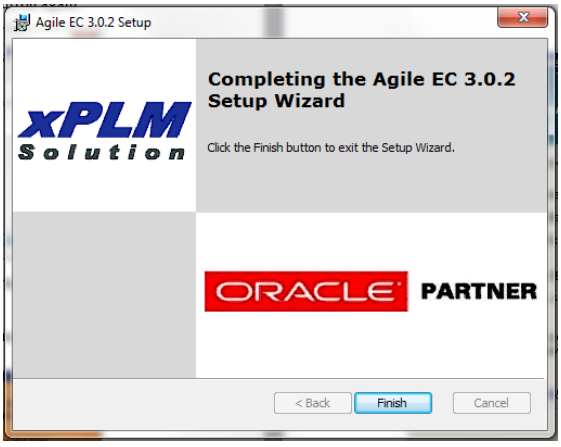


The installer detects available integrations in the package where it was started from. Even if there are more CAD integrations available in the package you install from, you can decide to register only some of them by toggeling the combo boxes above each CAD tool list.

Now select the desired CAD version for install and hit the *Next* button.

Now the configuration is complete and you hit *Install* to start the component registration. Follow the Admin Guide for details configuring the CAD specific connector switches.





ATTENTION: The installer registeres the xPLMRootDir environment variable. On some machines a reboot is required to make this setting known in the system. Especially if the Load from PLM command doesn't work, check the xPLMRootDir setting and reboot once after the installation.

ATTENTION: After the installation was completed and you have started the integration or the add-in for the first time you may see some alerts from local firewalls. EC establishes a socket connection between CAD and EC Webcomponent. If you see any of the following screens, make sure you allow the access. Otherwise EC will not work properly.

Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of Java(TM) Platform SE binary on all public and private networks.
Name: Java(TM) Platform SE binary
Publisher: Sun Microsystems, Inc.
Path: C:\program files\agileec\xacw\components\jre6\bin\javaw.exe
Allow Java(TM) Platform SE binary to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of SldWorks on all public and private networks.
Name: SldWorks
Publisher: Dassault Systèmes SolidWorks Corp.
Path: C:\program files\solidworks corp\solidworks\sldworks.exe
Allow SldWorks to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

Setting the Java Version

The required Java setting in the PATH statement is set by the installer.

The Web Connector installation contains the necessary JRE (32 bit and 64 bit). If you are running Solid Edge 32 bit or 64 bit you have to check the PATH setting to include the required jvm.dll of the right JRE.

For a 32 bit Solid Edge application you have to set the 32 bit JRE environment into your system path like this:

```
set PATH=[inst]\xacw\components\jre6\bin\client;[inst]\xacw\components\jr
e6\bin;%PATH%
```

For a 64 bit Solid Edge application you have to set the 64 bit JRE environment and 32 bit JRE environment into your system path like this:

```
set PATH=[inst]\xacw\components\jre6_64\bin\server;[inst]\xacw\components
\jre6_64\bin;[inst]\xacw\components\jre6\bin\client;[inst]\xacw\component
s\jre6\bin;%PATH%
```

Microsoft .NET environment on older Windows operating systems

The connector requires a Microsoft .NET runtime environment installed on the CAD machine. In case you see this error message during a save process you have to install the Microsoft .NET V3.5 Compact redistributable environment or the Microsoft .NET framework 3.5 from the Microsoft download pages.

Setting the Workspace Root

Open the file **<Install Directory>\xacw\components\ini\xacw_ini.bat** in a text editor. Here you can edit the working directories. The Workspace Root is set with the following statements:

```
set cax_temp=C:\CAX_wspace\Default\

set CAX_WORKSPACE_ROOT=C:\CAX_wspace
```

Also make sure the file **<Install Directory>\xacw\components\xml\xPLMComConnector.xml** points to that directory:

```
<LocalWorkDir> C:\CAX_wspace\Default\</LocalWorkDir>
```

How to Uninstall, Add or Change CAD System Versions

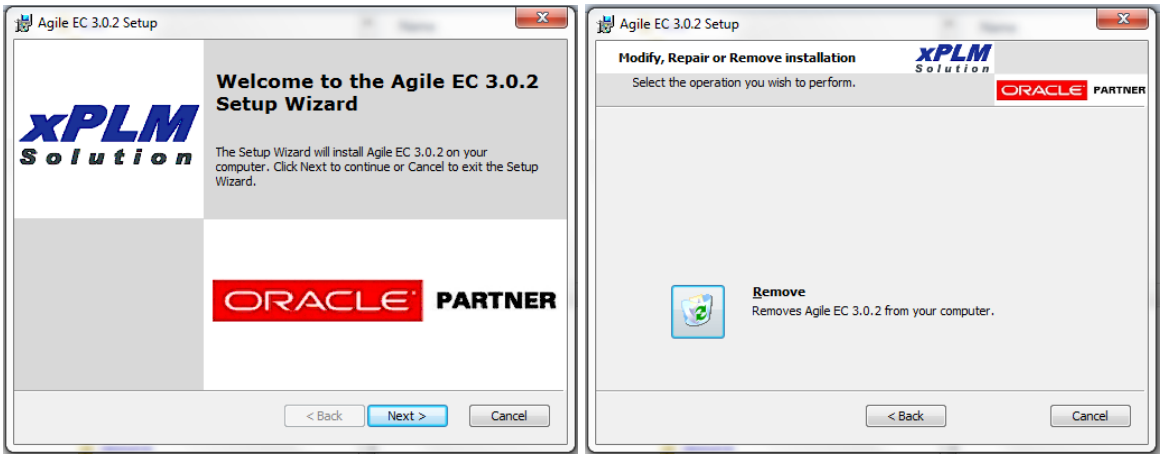
You can run the installer a second time, which will let you uninstall the registration.

Depending on your system architecture you launch the installer for 32 or 64 bit.

On 64 bit machines the installer is launched using the **setup_x64.exe** located in the **install** directory of **<Installation Directory>**.

On 32 bit machines the installer is launched using the **setup_x86.exe** located in the **install** directory of **<Installation Directory>**.

ATTENTION: On Windows 7 machines make sure you choose "Run as administrator"



Hit *Next* on the welcome screen and then hit the *Remove* button in order to unregister the integration components.

ATTENTION: If you intend to change the CAD version, you have to run the installer twice. Once for the unregistering the components and then again for registering the new CAD versions.

Installing and Configuring EC Web Connector

This section describes the common setup procedures for the CAD connectors. This section describes setting up the common connection between your CAD integration and Agile Engineering Collaboration.

The main steps are:

- Extract files from Web Connector Client zip file.
- Running the Load Callback Installer.
- Install the PLM Server Components.

The installation requires the following file:

acxNNNN.zip - Main Web Connector Client installation package, where NNNN is the release level.

Performing the installation steps described here will enable the CAD connector communication to PLM.

Extracting Files for EC Web Connector for CATIA, Pro/E, NX

Extract the installation file to the folder of the CAD Connector location, e.g. **<Install Directory>\xacp**. When you unzip, make sure that you retain the folder paths from the zip file and the archive will be extracted into the CAD connector directory. When the files are unzipped, you should see additional folders like **jre6** within **acp** or **acc** directory.

Extracting Files for EC Web Connector for SolidWorks, Solid Edge, Inventor

Extract the installation file to the folder **components** of the CAD Connector location, e.g. **<Install Directory>\xacw\components**. When you unzip, make sure that you retain the folder paths from the zip file and the archive will be extracted into the CAD connector directory. When the files are unzipped, you should see additional folders like **jre6** within **xacw\components**. directory.

Install the PLM Server Components

Go to the **jar\wsx** subfolder inside the CAD connector installation folder and copy the contained files into the WSX extensions folder (for example **\Agile\Agile93\integration\sdk\extensions**) of your Agile server. Now the directory should contain the jar files **CAXIntegrationServiceExt.jar** and **XPlmDataTypes.jar**.

Running the Load Callback Installer

This registration step is NOT required for SolidWorks, Solid Edge and Inventor. The installer of the systems includes the Load Callback registration.

This registration step is NOT required for the EC Web Component Only Update.

This registration step is NOT required if you want to use SolidWorks or Solid Edge connector together with the Pro/E or CATIA connector on the same machine! The installer for SolidWorks, Solid Edge and Inventor must be executed instead, because it includes the Load Callback registration.

The Load Callback setup installs all required Visual C++ Runtime environments and registers the required Windows components. You need administrator privileges on the local machine.

ATTENTION: On Windows 7 machines make sure you choose "Run as administrator"

Setup on a 32 bit Windows System

Go to the install subdirectory folder inside the connector folder. Follow the steps:

- Run **setup_x86.exe** – Installer for Windows 32 bit machines.
- Follow the instructions and confirm the installation of the required Microsoft runtime environments.
- Confirm the copyrights and continue using the *Next* button until the setup is finished.

Setup on a 64 bit Windows System

Go to the install subdirectory folder inside the connector folder. Follow the steps:

- Run **setup_x64.exe** – Installer for Windows 64 bit machines.
- Follow the instructions and confirm the installation of the required Microsoft runtime environments.
- Confirm the copyrights and continue using the *Next* button until the setup is finished.

Updating Pro/ENGINEER Connector

This section describes update an existing Pro/E Connector based on xacp 3.0.1.0. or higher.

Attention: If you don't want to upgrade the CAD connector features you have the option to run a EC Web Component Only update. See Update EC Web Connector for details. This will update the PLM communication and feature layer only, but no new features are available in CAD.

The main steps are:

- Extract files from Pro/ENGINEER Connector Update zip file.
- Follow the instruction of updating the Web Connector.
- Regenerate the **Attributes.xml**.

The installation requires the following files:

xacpNNNN-update.zip – Main CAD Connector update, where NNNN is the release level.

acxNNNN-update.zip – Main Web Connector update, where NNNN is the release level.

Extracting Files for Pro/ENGINEER Connector

Find the existing xacp 3.0.1.0 installation folder named **xacp** (**<Installation Directory>**).

Extract the CAD connector update package into the existing **xacp** folder location **<Installation Directory>** . When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folder named **xacp**, which contains the connector installation.

Now follow the common installation instructions in *Updating EC Web Connector***.**

Updating CATIA V5 Connector

This section describes update an existing Pro/E Connector based on xacc 3.0.1.0 or higher.

Attention: If you don't want to upgrade the CAD connector features you have the option to run a EC Web Component Only update. See Update EC Web Connector for details. This will update the PLM communication and feature layer only, due to this no new features will be available in CAD.

The main steps are:

- Extract files from CATIA V5 Connector Update zip file.
- Follow the instruction of updating the Web Connector.
- Regenerate the **Attributes.xml**.

The installation requires the following files:

xaccNNNN-update.zip – Main CAD Connector update, where NNNN is the release level

acxNNNN-update.zip – Main Web Connector update, where NNNN is the release level.

Extracting Files for Connector

Find the existing xacc 3.0.1.0 installation folder named **xacc** (**<Installation Directory>**).

Extract the CAD connector update package into the existing **xacc** folder location of your **<Installation Directory>** . When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folder named **xacc**, which contains the connector installation.

Now follow the common installation instructions in *Updating EC Web Connector***.**

Updating SolidWorks Connector

This section describes update an existing Pro/E Connector based on xacw 3.0.1.0 or higher.

The main steps are:

- Extract files from SolidWorks Connector zip file into an existing **xacw** directory.
- Follow the instructions of updating the Web Connector.
- Run the 3.0.2 SolidWorks Installer, which will upgrade an existing installation.
- Regenerate the **Attributes.xml**.

The installation requires the following files:

xacwNNNN.zip – Main CAD Connector update, where NNNN is the release level.

acxNNNN-update.zip – Main Web Connector update, where NNNN is the release level.

Extracting Files for Connector

Find the existing xacw 3.0.1.0 installation folder named **xacw** (**<Installation Directory>**).

Extract the CAD connector update package into the existing **xacw** folder location **<Installation Directory>** . When you unzip, make sure that you retain the folder paths from the zip file. When the files are unzipped, you should see a folders named **components, xCore and install**, which contain the connector installation.

Run the SolidWorks installer as described in the *Install Solidworks Connector* chapter above.

Now follow the common installation instructions in *Updating EC Web Connector***.**

Updating EC Web Connector

This section describes the common setup procedures for the CAD connectors. This section describes setting up the common connection between your CAD integration and Agile Engineering Collaboration.

The main steps are:

- Save your existing **CAXConfig.xml** file.
- Extract files from Web Connector Update zip file.
- Merge your settings into the new **CAXConfig.xml** file.
- Install the PLM Server components.

The installation requires the following file:

acxNNNN.zip – Full Web Connector Client installation package, where NNNN is the release level.

acxNNNN-update.zip – Update Web Connector Client Web Component update package, where NNNN is the release level.

Performing the installation steps described here will enable the CAD connector communication to PLM.

EC Web Component Only Update

Attention: Make sure to save your existing CAXConfig.xml file before updating.

Extract the update file **acxNNNN-update.zip** into the folder of the CAD Connector location, e.g. **<Install Directory>\xacp**. When you unzip, make sure that you retain the folder paths from the zip file and the archive will be extracted into the CAD connector directory.

Now merge the settings from your old **CAXConfig.xml** file into the new **CAXConfig.xml**.

Attention: No reregistration of the Load Callback is necessary. You cannot perform an EC Web Component Only update if you want to run new or updated CAD connectors that are on 3.0.1 release level or higher on one machine. You have to do an EC Web Component Full Update in this case.

EC Web Component Full Update

Attention: Make sure to save your existing CAXConfig.xml file before updating.

Extract the installation file **acxNNNN.zip** into the folder of the CAD Connector location, e.g. **<Install Directory>\xacp**. When you unzip, make sure that you retain the folder paths from the zip file and the archive will be extracted into the CAD connector directory.

Now merge the settings from your old **CAXConfig.xml** file into the new **CAXConfig.xml**.

Attention: The reregistration of the Load Callback is necessary. Only one installer must be executed to register the Load Callback components correctly. The registration is executed in the installer setups of the SolidWorks connector or as described in *Running the Load Callback Installer*.

Update the PLM Server Components

Go to the **jar\wsx** subfolder inside the CAD connector installation folder and copy the contained files into the WSX extensions folder (e.g. **\Agile\Agile93\integration\sdk\extensions**) of your Agile server. Now the directory should contain the updated jar files **CAXIntegrationServiceExt.jar** and **XPlmDataTypes.jar**.

Regenerating Attributes.xml

The metadata extraction is optimized in this release. The performance is increased and the Agile List values are now read from the server during runtime. In order to recreate a valid **Attributes.xml** follow the steps below.

The main steps are:

- Go to the MCAD-CONFIG filefolder in PLM.
- Check out the folder.
- Remove the existing **Attributes.xml** file from the files tab.
- Check in the MCAD-CONFIG folder (the file tab must be empty).
- Go to the local AgileCache directory in users home.
- Delete all **Attributes.*** files in the AgileCache directory.
- Start the integration xacc or xacp, the system will regenerate a valid **Attributes.xml** during next login.