

Installation Guide
SAP Manufacturing
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CUSTOMER

Agent SDK for Plant Connectivity 15.4

Installation Guide



Typographic Conventions

Type Style	Description
Example	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER .

Document History

Version	Date	Change
1.0	2020-05-15	Reworked version for PCo 15.4

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1 Overview

The Plant Connectivity (PCo) software development kit (SDK) provides a framework to extend existing connectivity features of SAP Plant Connectivity. You can use it to develop a custom agent that connects to your specific data source system. The agent can be integrated into the Plant Connectivity software and utilize the common configuration user interface, connection handling, data item subscription, and notification or querying capabilities of PCo.

For more information about the implementation of a custom agent, see the corresponding guide at <http://help.sap.com/pco>.

2 Installation

2.1 Prerequisites

The computer, on which you plan to install the PCo Agent SDK, has to fulfill the following prerequisites:

- Microsoft .NET Framework 4.8 is installed
- Microsoft Visual Studio 2019 is installed (either version Community, Pro or Enterprise)
- .Net Framework 4.8 SDK
- SAP Plant Connectivity 15.4 is installed

2.2 Required Skillset for Software Developers

If you want to implement the PCo Agent SDK, you should have experience with the C# language and the .NET platform of Microsoft. You should also be able to work with Visual Studio 2019.

It is also required that you have knowledge of the interfaces and functions of the data source system for which you want to implement the custom agent.

2.3 Installation Steps

The SDK is not directly installed during installation of PCo any longer but provided as a separate Visual Studio extension file that has to be installed separately. To install the PCo SDK, execute the PCo installer that you downloaded from the Service Marketplace and ensure that the component Agent SDK is selected. The installation copies the Visual Studio extension file AgentSetupSDK.vsix to the folder C:\Program Files (x86)\SAP\Plant Connectivity\System\AgentSDK, provided that you installed PCo to the proposed standard folder C:\Program Files (x86)\SAP\Plant Connectivity.

For the installation of the Visual Studio extension, ensure that Visual Studio is not running. Start the installation of the extension by double-clicking on the file AgentSetupSDK.vsix in the folder C:\Program Files (x86)\SAP\Plant Connectivity\System\AgentSDK.

3 Implementing a Custom Agent

During installation, templates are copied to the pertaining Visual Studio folders. The SDK provides the following:

- A template for a custom agent project
- A template for a user control needed for the configuration of your source system

After installation of the SDK, you can create a custom agent in Visual Studio. Choose [File → New → Project](#) from the menu. Search for the Project Template [Agent](#) in Visual Studio 2019. A wizard will be started that guides you through the creation of the code skeleton for the new custom agent.

If you want to add user interfaces to your existing agent project, open the project's context menu by right-clicking on it and choose [Add → New Item](#). Select the category [SAP](#) and then [SourceConfigControl](#). Afterwards, proceed with the creation of the agent-specific user interface to configure the parameters of your agent.

4 Further Sources of Information

For a detailed description of the Agent SDK, see SAP Help Portal at <http://help.sap.com/pco>.



www.sap.com/contactsap

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