

APPLICATION NOTE: AN-1289

AC500 CODESYS GATEWAY HOW TO INSTALL



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1 Introduction

1.1 Scope of the document

How to check if the gateway is installed properly. Sometimes it required to run some additional steps to install the gateway as a service. At least on Windows Server operating systems.

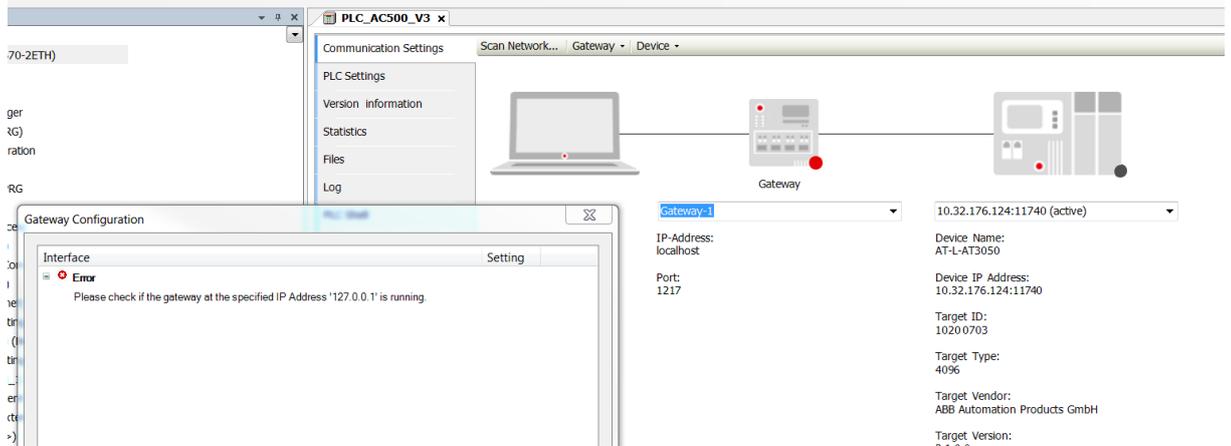
1.2 Compatibility

The application note explained in this document has been used with the below engineering system versions. They should also work with other versions, nevertheless some small adaptations may be necessary, for future versions.

- Automation Builder V2.x

2 CODESYS Gateway V3

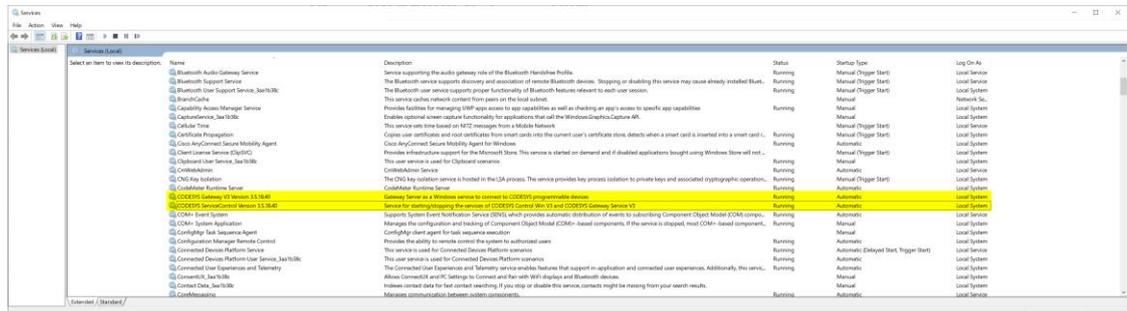
If you get this screen and the Gateway stays red inside Automation Builder, then it could happen that no Gateway is installed, or the service is not registered.



2.1 Check Gateway service is running

Check first if you have “CODESYS Gateway V3” running as a service. For that navigate to: Start→Control Panel→Administrative Tools→Services

If the service is not running, as you can see below on the picture, click on Status and select **Start**. In addition, the Startup Type must be Automatic.



If this both entries are not available, we need to install them.

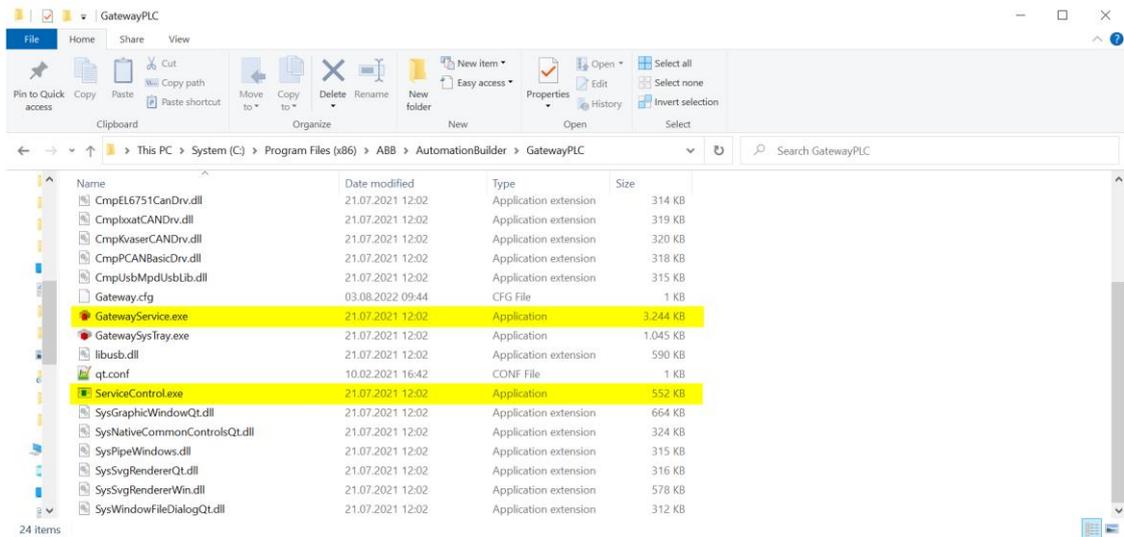
2.2 Install Gateway service

Navigate to:

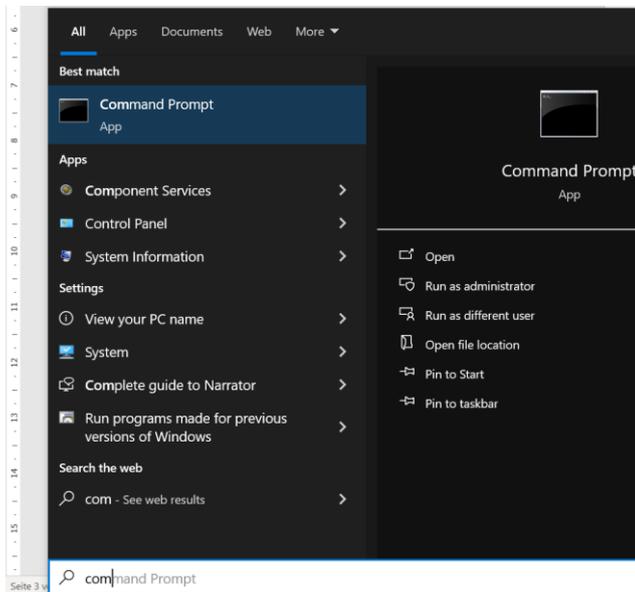
C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC

These both files will be available when Automation Builder is installed:

- ServiceControl.exe
- GatewayService.exe



Open the “Command Prompt” with admin rights. For that navigate to:
 Start→Insert “Command Prompt” and select “Run as administrator”.



Insert the path to the Gateway directory:

cd C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.3288]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC
C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC>
```

We are in the directory, where the ServiceControl.exe and GatewayService.exe are stored. Now, we are installing the ServiceControl as a service by insert:

ServiceControl.exe -i

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.3288]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC
C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC>ServiceControl.exe -i
```

Now, we are installing the GatewayService as a service by insert:

GatewayService.exe -i

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.3288]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC
C:\Program Files (x86)\ABB\AutomationBuilder\GatewayPLC>GatewayService.exe -i
```

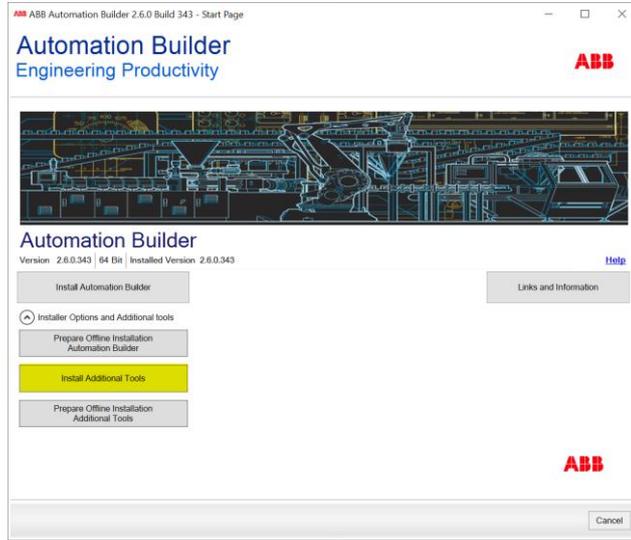


Note: A reboot of the computer is required to load all services.

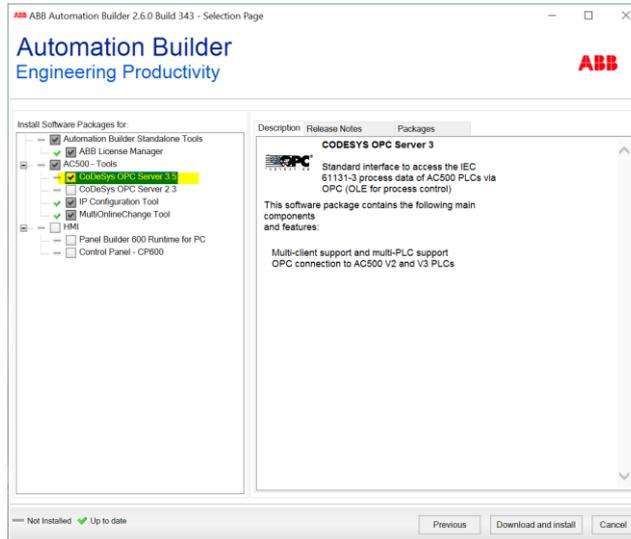
After reboot, you can check if the service is running: Check Gateway service is running.

3 CODESYS Gateway V2

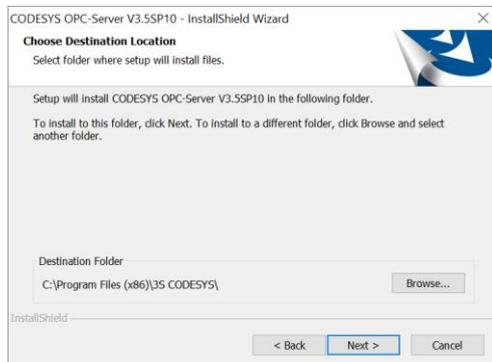
The Gateway will be installed together with: **CoDeSys OPC Server 3.5** in Automation Builder Setup via “**Install Additional Tools**”:



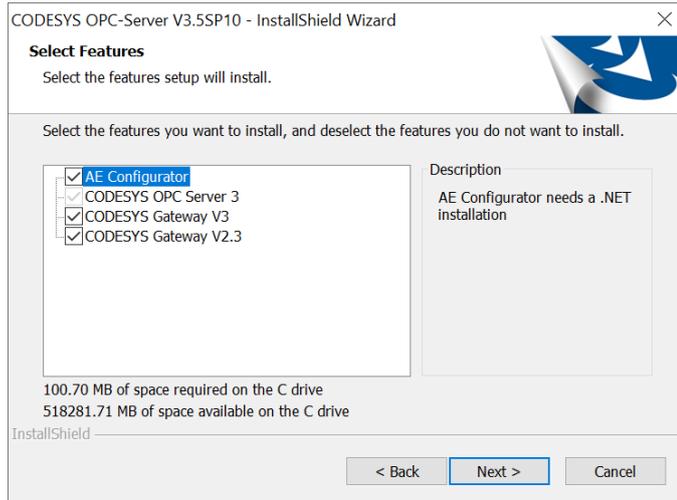
Select **CoDeSys OPC Server 3.5** and click **Download and Install**



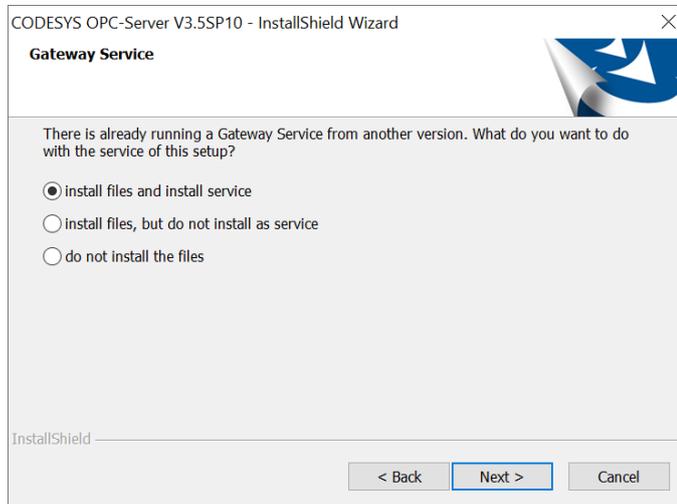
Keep installation path



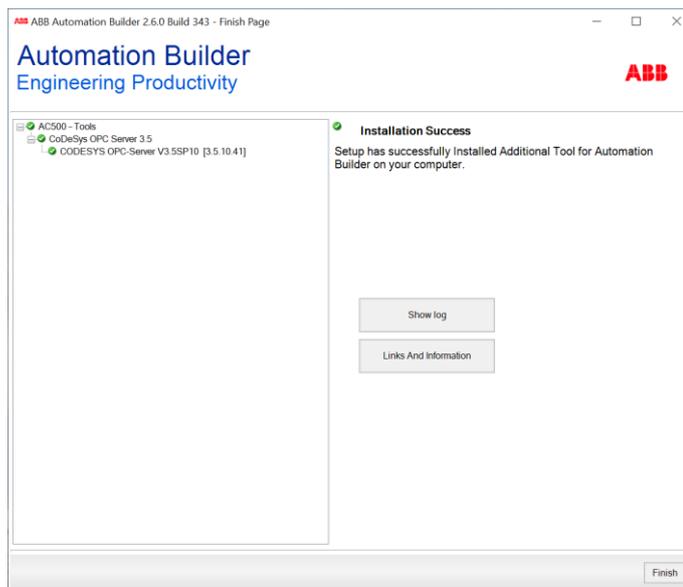
Select all options



Install option: install files and install service



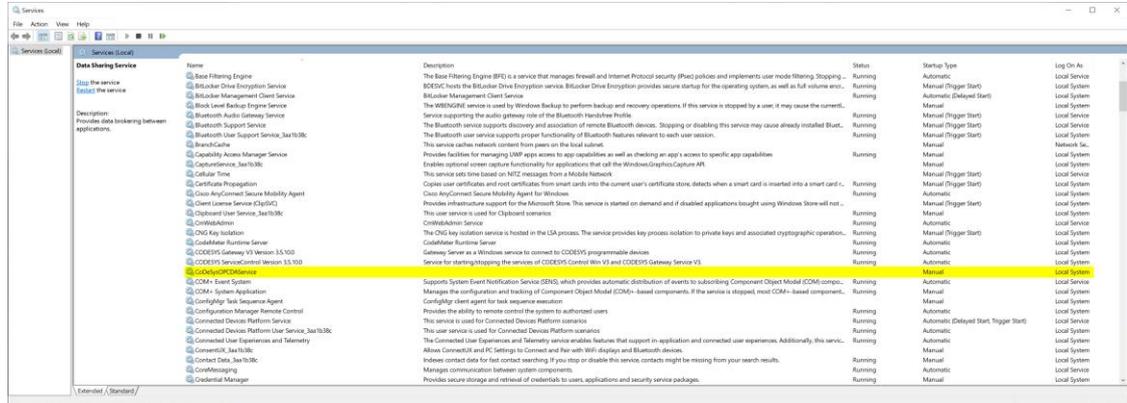
Installation successfully finished.



3.1 Check Gateway service is running

Check first if you have “CoDeSysOPCDAService” running as a service. For that navigate to: Start→Control Panel→Administrative Tools→Services.

If the service is not running, as you can see below on the picture, click on Status and select **Start**. In addition, the Startup Type must be Automatic.



If this entry is not available, we need to install the service. See chapter: Install Gateway service.

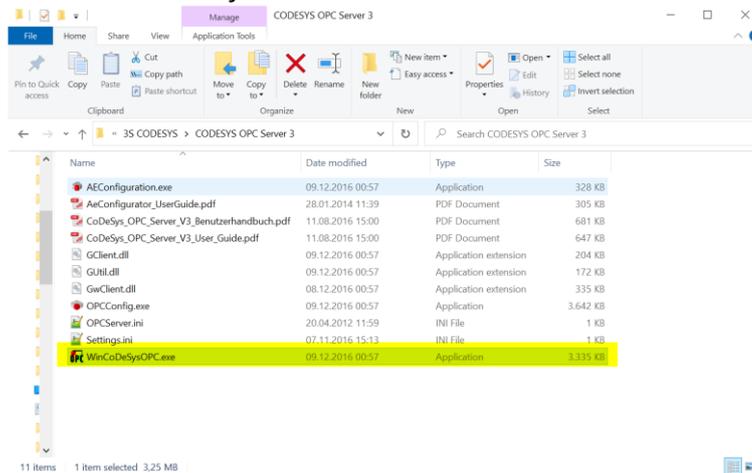
3.2 Install Gateway service

Navigate to:

C:\Program Files (x86)\3S CODESYS\CODESYS OPC Server 3

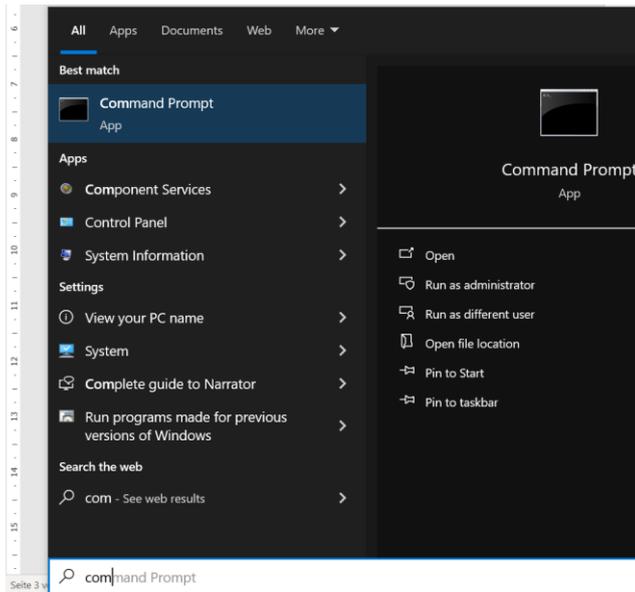
This file should be available:

- WinCoDeSysOPC.exe



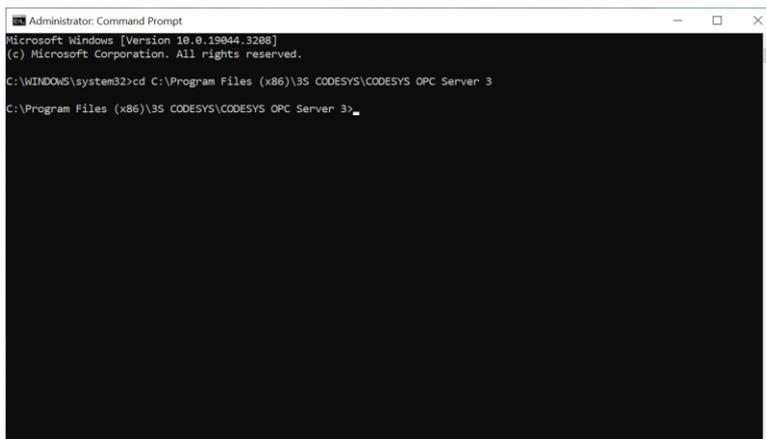
Open the “Command Prompt” with **admin rights**. For that navigate to:

Start→Insert “Command Prompt” and select “Run as administrator”.



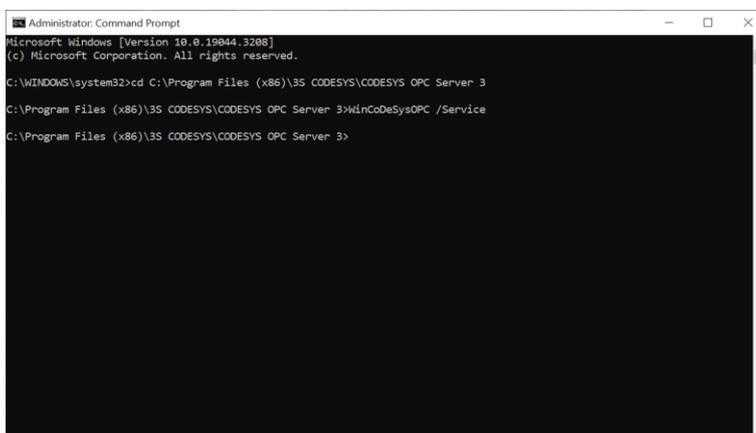
Insert the path to the CODESYS OPC Server 3 directory:

cd C:\Program Files (x86)\3S CODESYS\CODESYS OPC Server 3



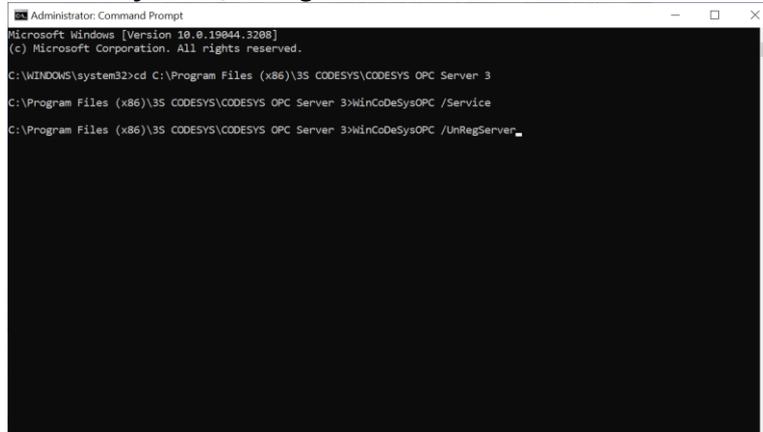
We are in the directory, where the **WinCoDeSysOPC.exe** is stored. Now, we are installing the WinCoDeSysOPC as a service by insert:

WinCoDeSysOPC /Service



In some cases, it could happen that the service was wrongly installed. Mostly this can happen when no admin rights are granted during the installation. In this case it is required to uninstall the service. This can be done with the following command:

WinCoDeSysOPC /UnRegServer



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.3288]
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C:\WINDOWS\system32>cd C:\Program Files (x86)\3S CODESYS\CODESYS OPC Server 3
C:\Program Files (x86)\3S CODESYS\CODESYS OPC Server 3>WinCoDeSysOPC /Service
C:\Program Files (x86)\3S CODESYS\CODESYS OPC Server 3>WinCoDeSysOPC /UnRegServer
```



Note: A reboot of the computer is required to load all services.

After reboot, you can check if the service is running: Check Gateway service is running.

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