

Administration Manual CANoe/CANalyzer Setup

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English

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1 Introduction

In this chapter you find the following information:

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1.1 Setup at a Glance

Installation guide

This document provides an installation guide for IT departments that want to install Vector **CANoe/CANalyzer** silently on target machines using the proprietary setup bootstrapper of Vector **CANoe/CANalyzer**. For information on how to deploy silently on target machines using software deployment systems, refer to the

Administration Manual - CANoe/CANalyzer MSI Setup

It is assumed that the reader is familiar with the **Windows** Installer technology.

After depicting the necessary Setup Prerequisites (refer to chapter **Installation Program User Interface**), this document explains how the public properties of the installer can be configured in order to install the required application components and how embedded transforms can be used to setup **CANoe** and **CANalyzer** alongside on the same machine.

This document applies to **CANoe/CANalyzer** version 11.0 and up. For an updated version of this document please always check the documentation that came with your product before packaging the application as some items mentioned here are version dependent (e.g. updated installation prerequisites).

Roaming user profiles

Roaming user profiles are not supported by **CANoe/CANalyzer**. It is highly recommended to execute the installation on local user profiles only. Usage of roaming profiles may lead to:

- > Inconsistencies of installations, including prerequisites
- > Malfunction of future **CANoe/CANalyzer** updates

1.2 About this User Manual

1.2.1 Access Helps and Conventions

To find information quickly











The user manual provides you the following access helps:



- > at the beginning of each chapter you will find a summary of its contents,
- > in the header you see the current chapter and section,
- > in the footer you see to which program version the user manual replies.

Conventions

In the two following tables you will find the conventions used in the user manual regarding utilized spellings and icons.

Style	Utilization
bold	Blocks, surface elements, window and dialog names of the software. Accentuation of warnings and advices. [OK] Push buttons in brackets File Save Notation for menus and menu commands
CANoe	Legally protected proper names and side notes.
Source code	File name and source code.
Hyperlink	Hyperlinks and references.
<STRG>+<S>	Notation for shortcuts.

Symbol	Utilization
	This icon indicates notes and tips that facilitate your work.
	This icon warns of dangers that could lead to damage.
	This icon indicates more detailed information.
	This icon indicates examples.
	This icon indicates step-by-step instructions.
	This icon indicates text areas where changes of the currently described file are allowed or necessary.
	This icon indicates files you must not change.
	This icon indicates multimedia files like e.g. video clips.
	This icon indicates an introduction into a specific topic.
	This icon indicates text areas containing basic knowledge.

Symbol	Utilization
	This icon indicates text areas containing expert knowledge.
	This icon indicates that something has changed.

1.2.2 Certification

Certified Quality Management System

Vector Informatik GmbH has ISO 9001:2008 certification.
The ISO standard is a globally recognized quality standard.

1.2.3 Warranty

Restriction of warranty

We reserve the right to modify the contents of the documentation or the software without notice. Vector disclaims all liabilities for the completeness or correctness of the contents and for damages which may result from the use of this documentation.

1.2.4 Support

You need support?

You can get through to our hotline at the phone number
+49 (711) 80670-200
or you send a problem report to the [CANoe Support](#).

1.2.5 Trademarks

Protected trademarks

All brand names in this documentation are either registered or non registered trademarks of their respective owners.

2 Installation Program User Interface

In this chapter you find the following information:

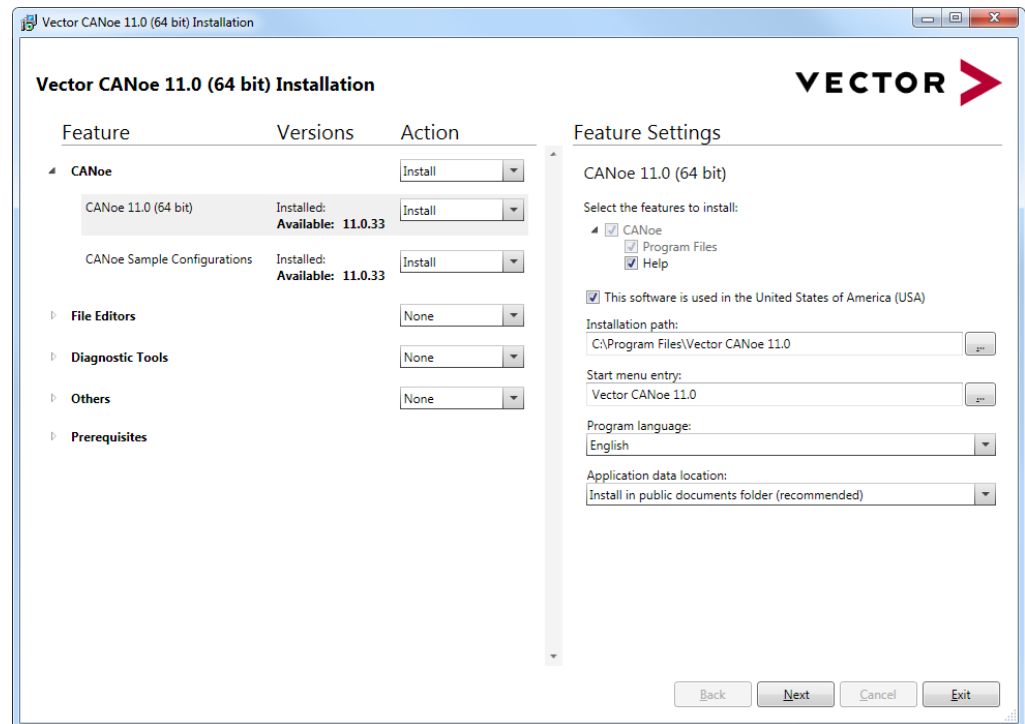
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2.1 Overview

Installation program

When the installation program is started, it will present a grouped list of applications which can be installed. The application group will be expanded (see picture below).

When the installation program is started, it analyses the current computer's state and sets the installation action (for each item) to the recommended value. The installation action can be changed for any particular item or for a whole group of items. However, the installation can be performed with default settings by just continuing with **[Next]**.



2.2 Groups

Groups in the installation program's user interface

The installation items are categorized as groups as stated in chapter [Overview](#) above. The main contents of the groups will be listed in the following sections.

Group	Description
CANoe (CANalyzer)	The group "CANoe" ("CANalyzer" in a CANalyzer installation user interface) contains the main items of the application. It consists of the application itself and the sample configurations.
File Editors	This group contains editing tools provided by Vector for file formats like e.g. AUTOSAR XML, LDF or FIBEX.
Diagnostic Tools	This group contains Vector's diagnostic tools like CANdela Studio and ODX Studio which are bundled with CANoe (CANalyzer resp.) . Note that additional licenses might be required to enable the full functionality of these tools.
Others	This group contains different tools or products which provide additional functionality when working with CANoe/CANalyzer .
Prerequisites	Several prerequisites must be met in order to install and/or use CANoe/CANalyzer . Those prerequisites are listed in this group and cannot be deselected from installation.

2.3 Customizable Settings

Customizable settings

When an installation item is selected in the list, you can customize the settings for this installation item in the detail view on the right.



Note: The availability of customizable settings depends on the selected installation action and the availability of settings defined by the installation item.

Input validation

The value of settings is validated when you enter them. A validation error is presented by an exclamation mark to the left of the value and a red border around the value.



Note: The entered value is accepted even if there is a validation error.

2.4 Predefine Settings

Predefine settings

It is possible to predefine values for installation settings which will be applied during installation. To predefine installation settings, follow the procedure below.



Step-by-Step Instruction

1. Create an XML as shown in the sample below.
2. Save it in the following path, where <username> is the login name of the logged-in user:
 - > C:\Users\<username>\AppData\Local\Vector\CANoe Installation\UserSettings.xml (for CANoe installations)
 - > C:\Users\<username>\AppData\Local\Vector\CANalyzer Installation\UserSettings.xml (for CANalyzer installations)

Note: When you start the installation program in the SYSTEM context (e.g. by using tools like SysInternals' psexec), the XML file should be saved under the following path:

 - > C:\Windows\System32\config\systemprofile\AppData\Local\Vector\CANoe Installation\UserSettings.xml (for CANoe installations)
 - > C:\Windows\System32\config\systemprofile\AppData\Local\Vector\CANalyzer Installation\UserSettings.xml (for CANalyzer installations)
3. Alternatively to saving the XML file in a predefined path, you can start the installation program with the corresponding parameter to specify the path to a user settings XML file (refer to chapter Command Line Parameters).

Example of user settings file:

Installing CANoe (64 bit) and the CANoe sample configurations to a different installation directory using UserSettings.xml file



Example for UserSettings.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<UserPropertySettings
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Programs>
    <!-- set installation path and start menu directory for
    CANoe (64 bit) -->
    <UserPropertyList PackageGuid="2d2d758a-571d-4239-ba27-
    ceca9435a110">
      <UserPropertyValues>
        <UserProperty>
          <Name>INSTALLDIR</Name>
          <Value>[ProgramFiles64Folder]\Vector Tools\CANoe
          11.0</Value>
        </UserProperty>
        <UserProperty>
          <Name>VSTART_MENU_FOLDER</Name>
          <Value>Vector Tools\Vector CANoe 11.0</Value>
        </UserProperty>
      </UserPropertyValues>
```

```

    </UserPropertyList>
    <!-- set installation path for CANoe sample configurations
-->
    <UserPropertyList PackageGuid="2c7971bb-03c5-4a14-a217-
884bfb04145d">
        <UserPropertyValues>
            <UserProperty>
                <Name>INSTALLDIR</Name>
                <Value>C:\Users\Public\Documents\Vector Tools\Vector
CANoe Sample Configurations [ProductVersion]</Value>
            </UserProperty>
        </UserPropertyValues>
    </UserPropertyList>
</Programs>
</UserPropertySettings>

```

Consequences in installation program user interface

When you predefine values for properties which can be changed in the installation program user interface (e.g. installation path), these values will be visible to the user and can still be changed.

When you predefine values for properties which cannot be changed in the installation program user interface, these changes will neither be visible to the user nor can they be changed by the user.

Supported variable values

Some variable identifiers can be used to specify that they should be replaced with the value of the variable on the executing computer. A reference of possible values can be found in chapter [Variables Supported in User Settings](#).

PackageGuid values

The product to which the specified settings apply is defined using the `PackageGuid` value. A reference of possible values can be found in chapter [PackageGuid Values](#).

Further Properties

Of course, further properties can be set to customize the installation. You can refer to the corresponding documentation of the desired installation item to know which properties can be set.



Example: Setting the desired language to German.

```

<!-- program language for CANoe (64 bit) to German -->
<UserPropertyList PackageGuid="2d2d758a-571d-4239-ba27-
ceca9435a110">
    <UserPropertyValues>
        ...
        <UserProperty>
            <Name>VPROGRAM_LANGUAGE</Name>
            <Value>49</Value>
        </UserProperty>
        ...
    </UserPropertyValues>
</UserPropertyList>

```

**Control installation
action**

You can control the installation action with special properties defined in the user settings XML file. These properties are also defined in chapter [Properties that Control the Installation Action](#).

3 Advanced Features

In this chapter you find the following information:

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3.1 Command Line Parameters

Command line parameters

The installation program can be started using following command line parameters:

```
SetupCANoe.exe [/passive|/noGui|/createDefinition <file path>]
               [/noReboot]
               [/userSettings <file path>]
               [/expert]
               [/definitionFile <file path>]
               [/noAlternatePaths]
```

Parameter	Description
/passive	Starts the installation program with passive user interface. The recommended actions are set dependent on the current computer's state and the installation is started without user interaction. Note: The installation can still be canceled in the user interface.
/noGui	Starts the installation program without any user interface. The recommended actions are set dependent on the current computer's state and the installation is started without user interaction.
/noReboot	Forces the installation program to suppress any reboots.
/userSettings <file path>	Starts the installation program and sets an explicit path to a user settings file (refer to chapter Predefine Settings).
/expert	Starts the installation program with additional user interface features. Currently this is for support issues only.
/createDefinition <file path>	Starts the installation program with normal user interface to allow you to create a definition file which can be used in later installations. For details refer to chapter Working With Definition Files .
/definitionFile <file path>	Starts the installation program and uses a definition file you created before. For details refer to chapter Working With Definition Files .
/noAlternatePaths	By default, alternative installation paths are computed when the specified ones (either the default values or values defined in a user settings file) already exist. By using this switch, the computation of alternative paths is disabled. If the specified paths already exist, a validation error might be shown in the installation program. Note that this parameter does only affect paths which may be set in the user interface of the installation program. If similar computations exists for paths that cannot directly be manipulated in the installation program, there might be properties valid for the affected installation databases (as is the case with CANoe and CANalyzer).

3.2 Working with Definition Files

Definition files

It is possible to create a definition file on a reference computer and apply the settings from the reference file when executing the installation program at a later time.

Create definition file on reference computer

To create a definition file, start the installation program with the parameter `/createDefinition` and specify a path where the definition file should be saved, e.g.:

```
SetupCANoe64.exe /createDefinition  
D:\Admin\VectorCANoe\CANoe64Definition.xml
```

The installation program's user interface is started where you can select the desired options, e.g. you can set the installation action for **CANdelaStudio** to **None** or you can set the installation path for **CANoe** to `C:\Vector Tools\Vector CANoe 11.0`.

By clicking on **Next** you can see the summary. By clicking on the button **Create**, the definition file is created at the specified path.

Start installation program with definition file

To use an existing definition file, start the installation program with the parameter `/definitionFile` and specify the path where the definition file is located, e.g.:

```
SetupCANoe64.exe /definitionFile  
D:\Admin\VectorCANoe\CANoe64Definition.xml
```

The installation program will start with normal user interface and reflect the settings which are defined in the definition file.



Note: If the state of the computer on which the installation program is started via a definition file differs from the state of the (reference) computer at the time the definition was created, there may be deviations from the desired settings, e.g.:

- > An item selected for installation is not installed if there is already a newer version on the computer.
- > An item selected for installation is updated if there is already an earlier version on the computer that can be updated

3.3 Hints on Instance Transforms of CANoe and CANalyzer

Instance transforms

The installation program always installs **CANoe** (or **CANalyzer** resp.) using an instance transform. When an installation is done using a deployment system, this installation might not be configurable (uninstall, modify, update) in the installation program when the base product code was used for deployment.

3.4 Prevent Installation/Update of CANdela Studio

Prevent installation/update of CANdelaStudio

It is possible to prevent the installation / update of **CANdelaStudio** when its installation is run during a **CANoe/CANalyzer** installation, although the user selected to install / update it. Technically, the actual installation is skipped by the **CANdelaStudio** installer on execution. The installation is shown as succeeded.

To activate this "installation skip" feature, you need to set a value in the Windows Registry.

**32-bit version of
CANdelaStudio**

To prevent installation / update of the 32-bit version of **CANdelaStudio**, set the following registry value before installation:

- > On a 64-bit operating system:
`[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\VECTOR\CANdelaStudio]`
`"DoNotInstallAsBundledProduct"="1"`
- > On a 32-bit operating system:
`[HKEY_LOCAL_MACHINE\SOFTWARE\VECTOR\CANdelaStudio]`
`"DoNotInstallAsBundledProduct"="1"`

**64-bit version of
CANdelaStudio**

To prevent installation / update of the 64-bit version of **CANdelaStudio**, set the following registry value before installation:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\VECTOR\CANdelaStudio]
"DoNotInstallAsBundledProduct"="1"
```

3.5 Prevent Installation/Update of ODX Studio

**Prevent
installation/update of
ODXStudio**

It is possible to prevent the installation/update of **ODXStudio** when its installation is run during a CANoe/CANalyzer installation, although the user selected to install / update it. Technically, the actual installation is skipped by the **ODXStudio** installer on execution. The installation is shown as succeeded.

To activate this "installation skip" feature, you need to set a value in the Windows Registry.

**32-bit version of
ODXStudio**

To prevent installation / update of the 32-bit version of **ODXStudio**, set the following registry value (of type string) before installation:

- > On a 64-bit operating system:
`[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\VECTOR\ODXStudio]`
`"DoNotInstallAsBundledProduct"="1"`
- > On a 32-bit operating system:
`[HKEY_LOCAL_MACHINE\SOFTWARE\VECTOR\ODXStudio]`
`"DoNotInstallAsBundledProduct"="1"`

**64-bit version of
ODXStudio**

To prevent installation / update of the 64-bit version of **ODXStudio**, set the following registry value before installation:

```
[HKEY_LOCAL_MACHINE\SOFTWARE\VECTOR\ODXStudio]
"DoNotInstallAsBundledProduct"="1"
```

3.6 Interactive Installation Using Bootstrapper

**Prevent installation
of prerequisite**

When the installation is executed in interactive mode by running the bootstrapper application (e.g. SetupCANoe64.exe), the installation of a prerequisite can be prevented. When an installation package is deleted from the **Files** directory, it will not be installed.



Caution: You delete prerequisites at your own risk. Important prerequisites for **CANoe/CANalyzer** can be lost. This may cause malfunction of **CANoe/CANalyzer**.

3.7 Hardware Installation

Installation

The drivers for Vector network interfaces are not installed via the **CANoe/CANalyzer** installation program. You must ensure that the drivers for the used Vector hardware are installed on the target machines.

4 Appendix

In this chapter you find the following information:

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4.1 UserSettings.xml File Format

4.1.1 Variables Supported in User Settings File

Variables for UserSettings.xml

The following variables are supported in user settings files (UserSettings.xml, refer to chapter Predefine Settings).

Following variables map to the common Windows Installer variables with the same name:

- > [AppDataFolder]
- > [CommonAppDataFolder]
- > [CommonFiles64Folder]
- > [CommonFilesFolder]
- > [DesktopFolder]
- > [LocalAppDataFolder]
- > [MyPicturesFolder]
- > [PersonalFolder]
- > [ProductName]
- > [ProductVersion]
- > [ProgramFiles64Folder]
- > [ProgramFilesFolder]
- > [ProgramMenuFolder]
- > [StartMenuFolder]
- > [System64Folder]
- > [SystemFolder]
- > [WindowsFolder]
- > [WindowsVolume]

The following variables have no Windows Installer equivalent:

- > [_CommonDocumentsFolder_]: Documents Directory for the “public” user profile, i.e. C:\Users\Public\Documents

4.1.2 Properties that Control the Installation Action

Control variables for UserSettings.xml

The following variables are supported in user settings files (UserSettings.xml, refer to chapter Predefine Settings) and control the installation of items

To set the installation action of an item, use the property **<InstallationOption>**: Note that the “greater-than” sign and the “less-than” sign need to be escaped as “>” and “<” respective.

The “<InstallationOption>” property supports following values:

- > None
- > Install
- > Update
- > Uninstall

Note that an installation option value of the user settings XML file is only applied when it is one of the possible values. E.g., you cannot uninstall a program that is not installed at all.

Because **CANoe** and **CANalyzer** can be installed multiple times with the same main version, you need to specify the installation instance to which the specified action shall apply. Use the property **InstallationInstance** to specify the instance. Its value is the product instance GUID. Note that if only one installation is present, the instance can be omitted.

4.1.3 PackageGuid Values

PacakgeGuid values for UserSettings.xml

Use the following GUIDs as PackageGuid value in the UserSettings.xml file to control the installation of the related item.

PackageGuid	Product / Item
2d2d758a-571d-4239-ba27-ceca9435a110	CANoe (64 bit)
2c7971bb-03c5-4a14-a217-884bfb04145d	CANoe sample configurations
fc4bf6b1-1d35-4cab-84d3-b806da7f7aca	CANalyzer (64 bit)
9c8ce6a5-0c5b-44d9-a582-ca1bed67d8bc	CANalyzer sample configurations
2ba14563-780e-41ca-8cf1-86cce8edc4f3	CANdela Persistors
0f95006e-6cd5-4457-ba21-a8845f2b1612	Vector License Manager
19f0e62f-534c-40ac-b2d2-0792ef92f6f4	CANdelaStudio (32 bit)
ec112e25-9279-4392-a57e-1c3442d6a9b3	CANdelaStudio (64 bit)
4d5da805-5424-484b-b417-4ae47275180a	ODXStudio (32 bit)
e53ea56a-2d31-4a61-b220-1637c3b69752	ODXStudio (64 bit)
ade6668a-1ac1-4dce-88d5-943b97e2b35d	AUTOSAR Explorer
f4cf6ed2-e676-4fd6-b18a-f75294698c89	AUTOSAR Explorer2
8a23c25a-5e06-4404-a9a3-fb4933d34e22	FIBEX Explorer
62525589-7521-4d6c-8f9f-b4d6b82abd1d	LDF Explorer
ee490f36-90a1-46e2-9f3a-7f55fe4c3c27	ASAP2 Viewer
0f0d7561-5f02-4beb-b582-7909550d1df5	VAME.msi
7c9d7c9e-6c50-4055-8a75-54159de5db45	CANoe Test Report Viewer

PackageGuid	Product / Item
42030c54-6332-425c-ae1e-f8e5b063ee7b	Vector Support Assistant
6bb6328e-e9ca-4864-bcb2-7ec02f2e446e	Vector Security Manager
e9362143-7b0c-4ebf-be5b-0d2c61d33e3c	Vector License Client
955c519d-0940-45bd-b8c5-f84bcd302a98	Vector Platform Manager

4.1.4 UserSettings.xml Examples



UserSettings.xml; install CANoe with predefined settings, do not install CANoe sample configurations:

```
<?xml version="1.0" encoding="utf-8"?>
<UserPropertySettings
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Programs>
    <!-- set installation path and start menu directory for
    CANoe (64 bit) -->
    <UserPropertyList PackageGuid="2d2d758a-571d-4239-ba27-
    ceca9435a110">
      <UserPropertyValues>
        <UserProperty>
          <Name>INSTALLDIR</Name>
          <Value>[ProgramFiles64Folder]\Vector Tools\CANoe
          11.0</Value>
        </UserProperty>
        <UserProperty>
          <Name>VSTART_MENU_FOLDER</Name>
          <Value>Vector Tools\Vector CANoe 11.0</Value>
        </UserProperty>
      </UserPropertyValues>
    </UserPropertyList>
    <!-- set installation action for CANoe sample
    configurations to "None" -->
    <UserPropertyList PackageGuid="2c7971bb-03c5-4a14-a217-
    884bfb04145d">
      <UserPropertyValues>
        <UserProperty>
          <Name>&lt;InstallationOption&gt;</Name>
          <Value>None</Value>
        </UserProperty>
      </UserPropertyValues>
    </UserPropertyList>
  </Programs>
</UserPropertySettings>
```


**UserSettings.xml example; uninstall CANoe instance with specified ProductCode**

```
<?xml version="1.0" encoding="utf-8"?>
<UserPropertySettings
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <Programs>
    <!-- uninstall CANoe (64 bit) instance with product code
    '3d69df56-184b-4888-bbc8-abf7cef2a180' -->
    <UserPropertyList PackageGuid="2d2d758a-571d-4239-ba27-
    ceca9435a110">
      <UserPropertyValues>
        <UserProperty>
          <Name>&lt;InstallationOption&gt;</Name>
          <Value>Uninstall</Value>
        </UserProperty>
        <UserProperty>
          <Name>&lt;InstallationInstance&gt;</Name>
          <Value>{3d69df56-184b-4888-bbc8-abf7cef2a180}</Value>
        </UserProperty>
      </UserPropertyValues>
    </UserPropertyList>
  </Programs>
</UserPropertySettings>
```



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