

Administration Manual

CANoe/CANalyzer MSI Setup

Version 1.4

English

Imprint

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Table of contents

1	Introduction	3
1.1	MSI Setup at a Glance	4
1.2	About this User Manual	5
1.2.1	Access Helps and Conventions	5
1.2.2	Certification	6
1.2.3	Warranty	6
1.2.4	Support	6
1.2.5	Registered Trademarks	6
2	Setup Prerequisites	7
2.1	Overview	8
2.2	Windows Installer 3.1	8
2.3	Visual Basic Runtime 6.0 SP3	8
2.4	.NET Framework 3.5 SP1	8
2.5	Windows Updates for .NET Framework 3.5 SP1	9
2.6	Visual J# 2.0 Redistributables	9
2.7	CANoe/CANalyzer Redistributables	10
2.8	CANoe/CANalyzer Redistributables for 64 Bit Operating Systems	10
2.9	MSXML 6.0 Parser and SDK	10
2.10	Microsoft Visual C++ 2005 SP1 Redistributable	11
2.11	Common Controls	11
2.12	Microsoft Visual C++ 2008 Redistributable	11
2.13	Microsoft XNA 2.0 Redistributables	11
2.14	Microsoft DirectX February 2010 Redistributables	12
3	Settings	13
3.1	Customizable Properties	14
3.2	Selectable Applications	16
3.3	Transforms	16
4	Further Installations	19
4.1	Silent Installation Example	20
4.2	Service Pack Installation	22
4.2.1	Prerequisites	22
4.2.2	Silent Update	22
4.3	Update of 7.5 Pre-Release	22
4.4	Hardware Installation	22
5	Appendix A: Address Table	23

1 Introduction

In this chapter you find the following information:

1.1	MSI Setup at a Glance	page 4
1.2	About this User Manual	page 5
	Access Helps and Conventions	
	Certification	
	Warranty	
	Support	
	Registered Trademarks	

1.1 MSI Setup at a Glance

Installation guide

This document provides an installation guide for IT departments who want to install Vector **CANoe/CANalyzer** silently on target machines using software deployment systems.

It is assumed that the reader is familiar with the **Windows** Installer technology and the software deployment system used.

After depicting the necessary **Setup Prerequisites** (chapter 2), 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 (chapter 3).

This document applies to **CANoe/CANalyzer** version 7.5 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).

Important note for silent installation

When silently installing CANoe/CANalyzer using MST transforms, make sure that **all files and folders** from the installation media's `\CANoe` or `\CANalyzer` folder are present in the folder from where the `CANoe_CANalyzer.msi` will be called by your setup scripts (typically a network share or a local temporary folder on the target system).

In case you have received personalized installer media from Vector (i.e. you have not received separate installation key information) you may omit setting the public properties

- > `VSETUPKEY_CUSTOMER,`
- > `VSETUPKEY_SERIALNUMBER` and
- > `VSETUPKEY_LICENSEKEY`

as the installation information (product variant, bus options, serial number etc.) is already contained in the installer files.

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 the contents,
- > In the header you can see in which chapter and paragraph you are ((situated)),
- > In the footer you can see to which version the user manual replies,
- > At the end of the user manual you will find an index, with whose help you will quickly find information.

Conventions

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

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 entries
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
	Here you can obtain supplemental information.
	This symbol calls your attention to warnings.
	Here you can find additional information.
	Here is an example that has been prepared for you.
	Step-by-step instructions provide assistance at these points.
	Instructions on editing files are found at these points.
	This symbol warns you not to edit the specified file.

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 change the contents of the documentation and the software without notice. Vector Informatik GmbH assumes no liability for correct contents or damages which are resulted from the usage of the user manual. We are grateful for references to mistakes or for suggestions for improvement to be able to offer you even more efficient products in the future.

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 Registered Trademarks

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- > Outlook, Windows, Windows XP, Windows 2000 and Windows NT are trademarks of the Microsoft Corporation.
- > CANoe and CANalyzer are trademarks of Vector Informatik GmbH.

2 Setup Prerequisites

In this chapter you find the following information:

2.1	Overview	page 8
2.2	Windows Installer 3.1	page 8
2.3	Visual Basic Runtime 6.0 SP3	page 8
2.4	.NET Framework 3.5 SP1	page 8
2.5	Windows Updates for .NET Framework 3.5 SP1	page 9
2.6	Visual J# 2.0 Redistributables	page 9
2.7	CANoe/CANalyzer Redistributables	page 10
2.8	CANoe/CANalyzer Redistributables for 64 Bit Operating Systems	page 10
2.9	MSXML 6.0 Parser and SDK	page 10
2.10	Microsoft Visual C++ 2005 SP1 Redistributable	page 11
2.11	Common Controls	page 11
2.12	Microsoft Visual C++ 2008 Redistributable	page 11
2.13	Microsoft XNA 2.0 Redistributables	page 11
2.14	Microsoft DirectX February 2010 Redistributables	page 12

2.1 Overview

- Prerequisites** Several prerequisites must be met in order to install and/or use **CANoe/CANalyzer**. Those prerequisites will be listed in the following sections.
- Please ensure that every client meets these prerequisites before installing **CANoe/CANalyzer**.
- Setup programs** You can find the setup programs for all prerequisites in the setup directory on your CD under `CANoe\Redist`.

2.2 Windows Installer 3.1

- Prerequisites** **Windows** Installer 3.1 (or later) is needed in order to install **CANoe/CANalyzer**. It is assumed, that this prerequisite is met.

2.3 Visual Basic Runtime 6.0 SP3

- Prerequisites** The **Visual Basic** 6.0 SP3 Runtime is needed. You can find a setup program called `VBRun60sp3.exe`.
- Installation check** To check if the correct **Visual Basic** Runtime is installed, check if a file called `msvbvm60.dll` with at least version 6.0.84.95 is installed on the target machine under `%SYSTEMROOT%\system32`.
- Installation** To install the **Visual Basic** Runtime silently, append `/Q` to the setup program:
`vbrun60sp3.exe /Q`.

2.4 .NET Framework 3.5 SP1

- Prerequisites** The .Net Framework 3.5 SP1 needs to be installed in order to use **CANoe/CANalyzer**.
- Installation check** To check if the .Net Framework is installed you can check if the following registry key is present:
- ```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP\v3.5
```
- If this registry key exists, the .Net Framework 3.5 is installed (this could also be 3.5 without any Service Pack). Please note that this registry key also exists, when a higher version of the .Net Framework is installed.
- Additionally, the following value must appear below this key and its value must be 1 or greater to be sure that SP 1 is installed:
- ```
SP = 1
```

Installation

To install the .NET Framework 3.5 SP1 silently, use the following command:

```
dotnetfx35_sp1.exe /lang:enu /q /norestart
```

It is recommended to install either the German or the Japanese language pack for .NET Framework 3.5 SP1 on German respectively Japanese systems. To install it silently, use the following command:

> German: dotnetfx35langpack_x86de.exe /q /norestart

> Japanese: dotnetfx35langpack_x86ja.exe /q /norestart

Please note that there are different installation packages for x86 and x64 systems. The samples above are valid for x86 systems. The installation packages for x64 systems are called dotnetfx35langpack_x64de.exe respectively dotnetfx35langpack_x64ja.exe.



Note: The .NET Framework 3.5 SP1 is delivered with **Windows 7**. You must use **Turn Windows features on or off** in the Control Panel to install or configure Microsoft .NET Framework 3.5 SP1.

For more information on this, see <http://social.msdn.microsoft.com/Forums/en-US/netfxsetup/thread/35d348e5-192e-4fa2-a45a-c1c2175ce111/>

Please note that also the language packs cannot be installed on **Windows 7**.

2.5 Windows Updates for .NET Framework 3.5 SP1

Prerequisites

After installing the .Net Framework 3.5 SP1 it is recommended to immediately install also the update KB959209 in order to address a set of known application compatibility issues. This update consists of several files which are provided for each relevant target system. See <http://support.microsoft.com/kb/959209/en-us> for details.

Installation check and Installation

It is assumed that there is a strategy for installing **Windows** updates on your client computers and that there are rules on how such **Windows** updates shall be applied. Thus no further information on this topic is given here.

2.6 Visual J# 2.0 Redistributables

Prerequisites

The **Visual J# 2.0 Redistributables** need to be installed in order to use **CANoe/CANalyzer**.

Installation check

To check if the **Visual J# 2.0 Redistributables** are installed, please check if the following registry key is present:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Visual JSharp Setup\Redist\v2.0.50727
```

If this registry key exists, the **Visual J# 2.0 Redistributables** are installed.

Installation

To install the **Visual J# 2.0 Redistributables** silently use the setup program

```
vjredist.exe with the following command:  
vjredist.exe /q:a /c:"install /q"
```

It is recommended to install either the German or the Japanese language pack for .NET Framework 2.0 SP1 if needed. To install it silently, use the following command:
vjredist-LP.exe /q:a /c:"install /q"

2.7 CANoe/CANalyzer Redistributables

- Prerequisites** Some **CANoe/CANalyzer** Redistributables need to be installed to use **CANoe/CANalyzer**. These Redistributables do not bring their own setups so that they are integrated in one single Windows Installer packet.
- Installation check** There is no check needed. Just install the redistributable package. The package itself checks which Redistributables need to be installed
- Installation** Install the `CANoeCANalyzerRedistributable.msi` packet before installing the **CANoe/CANalyzer** MSI packet.



Info: **CANoe/CANalyzer** Redistributables must only be installed on 32 bit operating systems.

2.8 CANoe/CANalyzer Redistributables for 64 Bit Operating Systems

- Prerequisites** Some **CANoe/CANalyzer** Redistributables need to be installed to use **CANoe/CANalyzer** on 64 bit operating systems. These Redistributables do not bring their own setups so that they are integrated in one single Windows Installer packet.
- Installation check** There is no check needed. Just install the redistributable package. The package itself checks which Redistributables need to be installed.
- Installation** Install the `CANoeCANalyzerRedistributable_x64.msi` packet before installing the **CANoe/CANalyzer** MSI packet on 64 bit operating systems.



Info: **CANoe/CANalyzer** Redistributables Package for 32 bit operating systems has to be uninstalled before you install the 64 bit package. The 32 bit package can be identified by its product code: {FF9E31CF-F433-48FD-989E-A6E9A3FCFC01}

2.9 MSXML 6.0 Parser and SDK

- Prerequisites** MSXML 6.0 Parser and SDK SP1 or MSXML 6.0 Parser and SDK SP1 Security Update (KB933579) need to be installed to use **CANoe/CANalyzer**.
- Installation check** On **Windows Vista** and later, the MSXML 6.0 SP1 Parser and SDK is already installed. To check if the MSXML 6.0 Parser and SDK is installed, check if the software with the following product code is installed:
`{A43BF6A5-D5F0-4AAA-BF41-65995063EC44}`
 To check if the Microsoft MSXML 6.0 SP1 Parser and SDK Security Update (KB) is installed, check if the software with the following product code is installed:
`{0A869A65-8C94-4F7C-A5C7-972D3C8CED9E}`
- Installation** To install the MSXML 6.0 SP1 Parser and SDK Security Update silently, use the following command:
`msxml6-KB933579-enu-x86.exe /q`

2.10 Microsoft Visual C++ 2005 SP1 Redistributable

Installation check To verify that the **Microsoft Visual C++ 2005 SP1 Redistributables** are installed, check if the software with the following product code is installed:

```
{7299052b-02a4-4627-81f2-1818da5d550d}
```

Installation To install the **Microsoft Visual C++ 2005 SP1 Redistributables** silently, use the following command:

```
vc_redist_x86.exe -Q -C:"msiexec /I vc_redist.msi /q"
```

2.11 Common Controls

Installation check To check if a proper version of the common controls is installed, check if the version of file `COMCTL32.DLL` in the `system32` directory is at least 5.80.0.0.

Installation To install the common controls silently, use the following command:

```
50Comupd.exe /r:n
```

2.12 Microsoft Visual C++ 2008 Redistributable

CANoe/CANalyzer v7.2 SP1 Effective with **CANoe/CANalyzer v7.2 SP1** you also have to have the **Microsoft Visual C++ 2008** redistributables package installed.

Installation check To verify that the **Microsoft Visual C++ 2008** redistributables are installed, check if the software with the following product code is installed:

```
{9A25302D-30C0-39D9-BD6F-21E6EC160475}
```

Installation To install the **Microsoft Visual C++ 2008** redistributables silently, use the following command:

```
vc_redist_x86_vs2008_SP1.exe /q
```

2.13 Microsoft XNA 2.0 Redistributables

Installation check To verify that the **Microsoft XNA 2.0** redistributables are installed, check if the software with the following product code is installed:

```
{245F6C7A-0C22-4DE0-8202-2AAA620A1D3A}
```

Installation The **Microsoft XNA 2.0 Redistributables** are provided as a **Windows** Installer Package. You can install it using the package `xnafx20_redist.msi`.

2.14 Microsoft DirectX February 2010 Redistributables

Installation check There is no way documented by **Microsoft** for checking the installation state of the **Microsoft DirectX** February 2010 Redistributables. A check is done by the installation routine of these redistributables itself.

Hence it is recommended to always execute the installer.

Installation To install the **Microsoft Visual C++ 2008** redistributables silently, use the following command:

```
DXSetup.exe /silent
```

Note that all files required for installing the **Microsoft DirectX** February 2010 Redistributables can be found in a subfolder `directx_feb2010_redist`.

3 Settings

In this chapter you find the following information:

3.1	Customizable Properties	page 14
3.2	Selectable Applications	page 16
3.3	Transforms	page 16

3.1 Customizable Properties

Properties for using software deployment systems

The MSI setup was created to ease the deployment of **CANoe/CANalyzer** in large IT networks via software deployment systems. To support this, the options that can be changed in the user interface setup are represented by public properties. Note that **CANoe** and **CANalyzer** are complex software utilities whose correct execution depends on some settings you might want to change. Only change the settings available through the properties described in the following table, otherwise, a correct setup execution can not be guaranteed.

Public properties

The following table lists the public properties and their meaning, as well as their standard or predefined values respectively.

Note: In case one of the following public properties shall be set to a customized value, the respective property and its value

- > have to be either directly provided on the `msiexec` command line or
- > have to be added and/or modified in the 'Property' table of the MST when using your own transform files for deployment.

For an example please refer to chapter 4.1 Silent Installation Example.



Info: Property names are case sensitive!

Property	Meaning	Default Value
VAPPLICATION_DATA_FOLDER	Absolute path where the application data is stored (e.g. INI files)	No default value; see also VAPPLICATION_AND_DATA_ROOT
VUSER_DATA_FOLDER	Absolute path where the user data is stored (e.g. demo configurations)	No default value; see also VAPPLICATION_AND_DATA_ROOT
VAPPLICATION_AND_DATA_ROOT	If neither VAPPLICATION_DATA_FOLDER nor VUSER_DATA_FOLDER is set, you can set both paths to predefined values using the following values for VAPPLICATION_AND_DATA_ROOT 1 = Application and user data is stored in the current user's profile. 2 = Application data and user data is stored in all users' profile (recommended). 3 = Application data and user data is stored in the CANoe/CANalyzer program folder (not recommended). This value is not supported on Windows Vista and later	The default value is set to 2. Thus, the default user data target is (example): %AllUsersProfile%Documents\Vector\CANoe\7.5 or %AllUsersProfile%Documents\Vector\CANalyzer\7.5 The default application data target is (example): %AllUsersProfile%ApplicationData\Vector\CANoe\7.5 or %AllUsersProfile%ApplicationData\Vector\CANalyzer\7.5

Property	Meaning	Default Value
	(see below)	
VPROGRAM_LANGUAGE	Language to use at program start. Possible values are: 01 = English 49 = German	01
VSTART_MENU_FOLDER	Program menu entry that will be used for program shortcuts.	Vector CANoe 7.5 or Vector CANalyzer 7.5
INSTALLDIR	Absolute path where the application should be installed to.	%ProgramFilesFolder% Vector CANoe 7.5 or %ProgramFilesFolder% Vector CANalyzer 7.5
VSETUPKEY_CUSTOMER	Name of customer that would normally be entered in the license dialog during CANoe/CANalyzer setup	No default value.
VSETUPKEY_SERIALNUMBER	Serial Number that would normally be entered in the license dialog during CANoe/CANalyzer setup	No default value.
VSETUPKEY_LICENSEKEY	License key of your CANoe/CANalyzer version that is normally entered in the license dialog during CANoe/CANalyzer setup	No default value.
VCREATE_FLEXNET_ACTIVATION_SHORTCUT	Option to install a shortcut to the License Activation Wizard in the program menu folder.	1



Info: Please note, that for correct execution of **CANoe/CANalyzer** it is important to keep the directory structure the same as defined in the installation package. Modifying this directory structure can lead to erroneous behavior which can lead to wrong simulation results.



Info: You **MUST NOT** change anything else than the public properties specified in the table above.



Info: Starting with **Windows Vista**, installing the application and user data in the system program folder (e.g. C:\Program Files) is not supported. If you install **CANoe/CANalyzer** in the system program directory (e.g. C:\Program Files\Vector CANoe 7.5), you **must not** set the value of the property `VAPPLICATION_AND_DATA_ROOT` to 3.

3.2 Selectable Applications

Applications

The following applications are (de)selectable by the user:

- > CANoe_GUI
- > CANalyzer_GUI
- > CANdb_GUI
- > CAPLBrowser_GUI
- > GenTools_GUI
- > PanelEditor_GUI
- > Demos_GUI
- > IP_Driver_GUI (only installed with **CANoe.IP/CANalyzer.IP**)



Info: The IP drivers (Feature IP_Driver_GUI) cannot be installed silently. When installing the IP drivers user interaction is always necessary.



Info: Note that additionally to the user's feature selection, a feature will only be installed if the installation key contains the feature (e.g. **CANoe** will not be installed if you licensed **CANalyzer** software.). Advertising is not supported for any of the features included in the setup software.

3.3 Transforms

Selecting name of product to be installed

The MSI setup is able to install both Vector **CANalyzer** and Vector **CANoe** to the same machine. For this purpose, the MSI setup contains different embedded transforms.

These embedded transforms **must be executed** in any case in order to set the **product name** correctly. The selected name will be displayed in the **Add/Remove Programs** dialog.

When installing, you need to specify the product you want to install:

- > For Vector **CANalyzer** use:
CANalyzerTransform.mst
- > For Vector **CANoe** use:
CANoeTransform.mst

Only the transforms mentioned above are supported. You can only use the transform for the product for which you received license information (installation key).

Installing multiple instances of one product

The Vector **CANoe/CANalyzer** MSI setup does not enable you to install an arbitrary number of instances of the same product on one PC. However, a limited set of product codes is mentioned in the **Setup.ini** file that comes with the installation package. For each product code there is an entry in Setup.ini:

```
[InstanceId1]
InstanceId=1
ProductCode={F041B692-0ED2-41B7-8457-25E918271439}
```

Those product codes can be used to install multiple versions of the product by using them for instance transformation.

Every product code in **Setup.ini** can be used for either installing **CANoe** or installing **CANalyzer**.

Be aware that you have to manage all subsequent operations on the product instance yourself. E.g. when installing multiple instances of Vector **CANoe** you need to take care to use the correct instance's product code when uninstalling one of them.

4 Further Installations

In this chapter you find the following information:

4.1	Silent Installation Example	page 20
4.2	Service Pack Installation	page 22
	Prerequisites	
	Silent Update	
4.3	Update of 7.5 Pre-Release	page 22
4.4	Hardware Installation	page 22

4.1 Silent Installation Example

Silent Installation
example:

Installing CANoe and CANalyzer on the same machine silently

Installation sequence: **First CANoe, then CANalyzer**

Command line only:

CANoe installation:

```
msiexec /i CANoe_CANalyzer.msi TRANSFORMS=:CANoeTransform.mst
VSETUPKEY_CUSTOMER=<customer>
VSETUPKEY_SERIALNUMBER=<serialnumber>
VSETUPKEY_LICENSEKEY=<licensekey> /q
```

```
TRANSFORMS=:CANoeTransform.mst
```

Applies the embedded transform 'CANoeTransform' for setting the product name to 'CANoe'. The ":" shows that the transform to be applied is embedded in the MSI.

```
VSETUPKEY_CUSTOMER=<customer>
VSETUPKEY_SERIALNUMBER=<serialnumber>
VSETUPKEY_LICENSEKEY=<licensekey>
```

Set the values for <customer>, <serial number> and <license key> and provided from Vector for your ordered CANoe.

CANalyzer installation:

Since CANoe is already installed, a new instance has to be installed using an instance transform.

```
msiexec /i CANoe_CANalyzer.msi
TRANSFORMS=:InstanceId1.mst;:CANalyzerTransform.mst
MSINewInstance=1 VSETUPKEY_CUSTOMER=<customer>
VSETUPKEY_SERIALNUMBER=<serialnumber>
VSETUPKEY_LICENSEKEY=<licensekey> /q
```

```
MSINewInstance=1
```

Specifies that a new instance will be installed.

```
TRANSFORMS=:InstanceId1.mst;:CANalyzerTransform.mst
```

Applies the embedded transforms 'InstanceId1' for installing a new instance and 'CANalyzerTransform' for setting the product name to 'CANalyzer'. Choosing 'InstanceId1.mst' will set the product code for your CANalyzer installation as specified in Setup.ini in the section [InstanceId1].



Info: All instance transforms (InstanceId1 ... InstanceId100) are embedded transforms, i.e. when selecting an instance transform set a ":" prior to the desired transform.

```
VSETUPKEY_CUSTOMER=<customer>
VSETUPKEY_SERIALNUMBER=<serialnumber>
VSETUPKEY_LICENSEKEY=<licensekey>
```

Set the values for <customer>, <serialnumber> and <licensekey> and provided from Vector for your ordered CANalyzer.

Creating an own transform (.mst) for the command line:

For both examples above, the installation is executed on the command line setting various public properties. In case an own transform (.mst) should be created to install CANoe and/or CANalyzer you have to set the respective properties as shown for the command line. Therefore create a transform for CANoe (e.g. MyCANoeTransform.mst) and one for CANalyzer (e.g. MyCANalyzerTransform.mst) and set the following properties in the **Property** table. In case the respective property is not yet available in the 'Property' table, insert it and set the desired value.



Info: Property names are case sensitive!

For both installations:

Property	Value
VSETUPKEY_CUSTOMER	<customer>
VSETUPKEY_SERIALNUMBER	<serialnumber>
VSETUPKEY_LICENSEKEY	<licensekey>

CANalyzer installation:

Property	Value
ProductCode	{F041B692-0ED2-41B7-8457-25E918271439} This is the value from [Instance1] defined in Setup.ini
MSINEWINSTANCE	1



Info: When installing CANoe or CANalyzer you also have to apply the embedded transform 'CANoeTransform.mst' and 'CANalyzerTransform.mst' respectively beside your own generated transform.

For this example the command line then has to be set as follows:

CANoe installation:

```
msiexec /i CANoe_CANalyzer.msi
TRANSFORMS=:CANoeTransform.mst;MyCANoeTransform.mst /q
```

CANalyzer installation:

```
msiexec /i CANoe_CANalyzer.msi
TRANSFORMS=:Instance1.mst;CANalyzerTransform.mst;MyCANalyzerTransform.mst /q
```

Of course, further properties can be set to customize the installation. Therefore you can use the defined properties described in chapter 3.1.

Examples:

Setting the desired language to German:

```
VPROGRAM_LANGUAGE=49
```

Setting the installation directory:

```
INSTALLDIR="C:\Programs\My Vector Folder\CANoe 7.5"
```

4.2 Service Pack Installation

4.2.1 Prerequisites

Prerequisites A service pack installation can only be executed if a **CANoe/CANalyzer** of the same main version but lower SP level is already installed. Otherwise a full installation has to be done.

The service pack installation is compressed as self-extracting executable when downloaded from the web. In case you want to run the installation interactively, just start the executable. Otherwise (e.g. for silent installation or deployment) load the executable in a ZIP utility (e.g. WinZip or 7-Zip) and extract the contents first.

4.2.2 Silent Update

Silent Update For a silent update the following parameters have to be set at the command line:

```
msiexec /i CANoe_CANalyzer.msi REINSTALLMODE=vomus  
REINSTALL=ALL IS_MINOR_UPGRADE=1 /q
```

In case multiple instances are installed on the machine you can specify the instance to be updated by adding the parameter `/n {Product-Code}`.



Info: The parameter `(/n {Product-Code})` **must not be set**, in case you want to update a **CANoe/CANalyzer** installation which was installed using the base product code. The base product code is defined in the file **Setup.ini** in the section **[Startup]**.

4.3 Update of 7.5 Pre-Release

Technical Information The pre-release version of **CANoe/CANalyzer** 7.5 is technically a different product than **CANoe/CANalyzer** 7.5 in terms of the product codes used.

Silent Update To update the **CANoe/CANalyzer** 7.5 pre-release version, you first have to remove the pre-release installation. After this, you have to install the **CANoe/CANalyzer** 7.5 with the same properties as the pre-release was installed. Note that you need to provide your license information again. The license information of the pre-release version is still valid with **CANoe/CANalyzer** 7.5

4.4 Hardware Installation

Installation The drivers for Vector hardware interfaces are not installed via the Windows Installer setup. At the moment there are no Windows Installer installations available for Vector hardware drivers. You have to ensure that the drivers for the used Vector hardware are installed on the target machines.

5 Appendix A: Address Table

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