Zuken E³.HarnessAnalyzer Installation Manual

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1 Setup and Activation

This document describes how to setup and activate E³.HarnessAnalyzer.

Note:

You need administrative privileges to install E³.HarnessAnalyzer.

Note:

A license is needed to run E³.HarnessAnalyzer. The application is protected by Flexera FlexNet® using either node locked or license server based protection.

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1.1 Supported Platforms

The E³.HarnessAnalyzer application is running on Microsoft Windows® platforms only.

This version has been tested on:

- Microsoft Windows® 7 in 32-bit (needs Windows 7 Service Pack 1 Convenience Rollup Update)
- Microsoft Windows® 7 in 64-bit (needs Windows 7 Service Pack 1 Convenience Rollup Update)
- Microsoft Windows® 8/8.1 in 32-bit
- Microsoft Windows® 8/8.1 in 64-bit
- Microsoft Windows® 10 in 32-bit
- Microsoft Windows® 10 in 64-bit
- Microsoft Windows® 11

Note

In version 2019 an additional feature was added in the 3D visualization, which allows the use of JT representation of harness structures in conjunction with the generic 3D approach. This feature can only be used in the 64-bit versions.

From version 2022 on 64 bit is supported, only.

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1.2 License Agreement

Zuken E3 GmbH
Lämmerweg 55
89079 Ulm, Germany

Software license agreement for E³.HarnessAnalyzer

Important! Please read carefully before you accept the license agreement!

The following provisions contain regulations for using the program. The installation can only continue if you (referred to as the „user“) agree with the following conditions set forth. By clicking on the field „I agree“ you agree to accept these terms. A separate disclosure is not required by Zuken E3 GmbH.

Duplication Rights and Access Protection

Necessary Duplication:

The user can duplicate the program as required. The installation of the program from the original data carrier to the mass storage of the used hardware and when the loading the program in the working memory.

Duplication for Security Purposes, Back-Up:

Additionally, the user can create a back-up for security purposes. However, only one back-up copy may be produced. This back-up copy must be identified as such and preserved separately.

For data security reasons and ensuring a quick reactivation of the computer system after crashing, it is essential for backing up the complete data pool including the Software used, the user may create back-up copies in the mandatory required number. The affected data carriers are correspondingly identified. The back-up copies can only be used for archiving purposes.

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Access Protection

The user is obligated to take precautions against any unauthorized third-party access of the software as well as the documentation accompanying it. The originally supplied data carrier as well as the back-up copies should be stored in a secure place protected from unauthorised third-party access. All employees using this software, along with any co-workers, need to be informed about the strict adherence to these conditions as well as the provisions alluded to in the copyright laws.

Licensing (Node locked License, Network floating License)

Node locked license (individual workstation):

If you have purchased a node locked license, the Software may be installed and used on a single Personal Computer System.

Network License (Floating LAN License)

If you have purchased a server license, you may install and use the software on a single computer server running a local area network, allowing simultaneous access to the software based on the number of seats for which you have purchased the license.

Legal Jurisdiction

This contract is subject to the laws of the Republic of Germany.

The German Version of this document is the controlling version.

Venue for all litigation from or in association with this agreement is Ulm/Donau.

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1.3 Installation Instructions

There are either MSI or EXE packages available, and these packages come for 32bit or 64bit Microsoft Windows® operating systems.

Administrative Privileges

Ensure to have administrative privileges to install E³.HarnessAnalyzer. If not, ask your system administrator for support.

Note

A previously installed version must be uninstalled before installing a new version!

1.3.1 EXE Package

The EXE setup packages contain additional wrappers for:

- Microsoft .NET Framework 4.7.2

This installation package is a good choice for first time or standard installation. The redistributable will only be installed, if not already on the system.

Execute the exe package matching the operating system of your computer (there is only 64 bit supported from version 2022 on) and start the installation.

1.3.2 MSI Package

The MSI setup packages just install the application and can be used, if the following prerequisites are met:

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- Microsoft .NET Framework 4.7.2 is already installed.

It contains merge modules for:

- Microsoft Visual C++ 2010 Redistributable (Version 10.0.40219)
- Microsoft Visual C++ 2013 Redistributable (Version 12.0.21005)
- Microsoft Visual C++ 2017 Redistributable (Version 14.16.27012.6)

Beware: regarding the redistributable packages, there are different packages for Intel and AMD necessary!

This is a good choice if you want to update to a newer version of E³.HarnessAnalyzer.
We recommend to use the EXE Setup package.

Execute the MSI package matching the operating system (64bit) of your computer and start the installation.

1.3.3 Interactive Installation

Note

You might suppress following dialogs by using the command line parameter '/quiet'. See Unattended Installation for details.

Once started, the setup process will guide you through the installation procedure.

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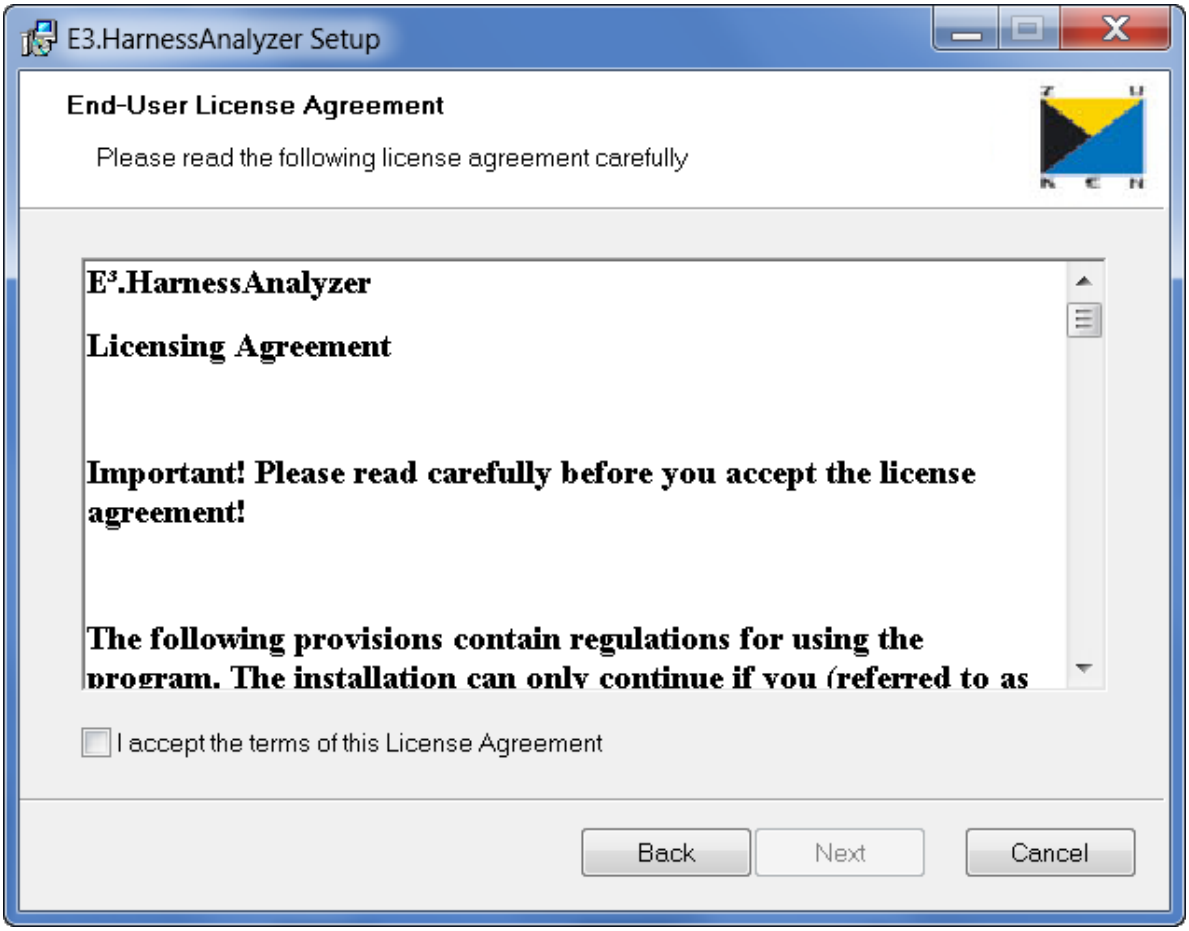
Welcome screen of installer

Click 'Next' to proceed. The following screen will show the License Agreement.



License Agreement

Accept License Agreement by checking the box and click 'Next' to go on.

You may change the installation folder by clicking 'Change...' button.

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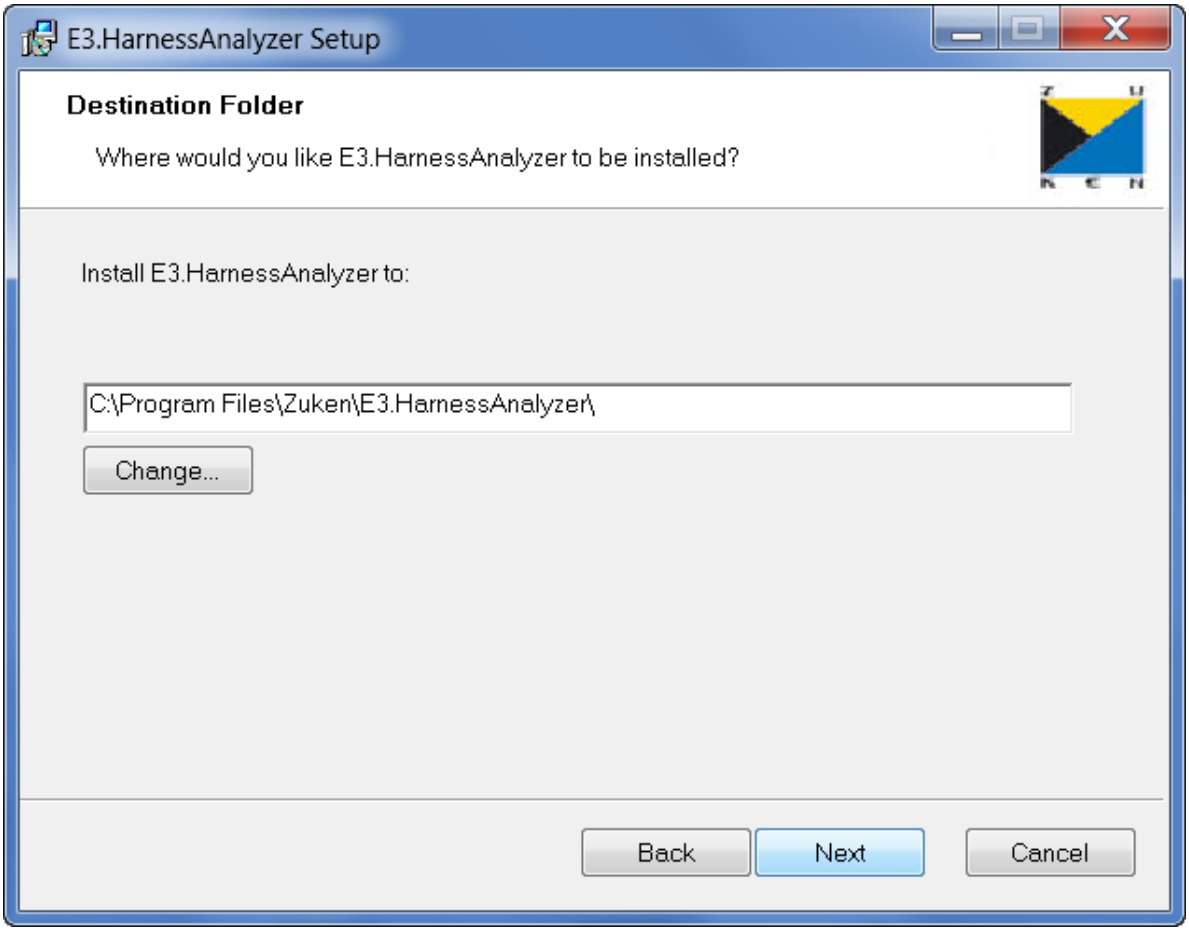

Changing setup folder

Proceed by clicking 'Next'. You are now ready to install.

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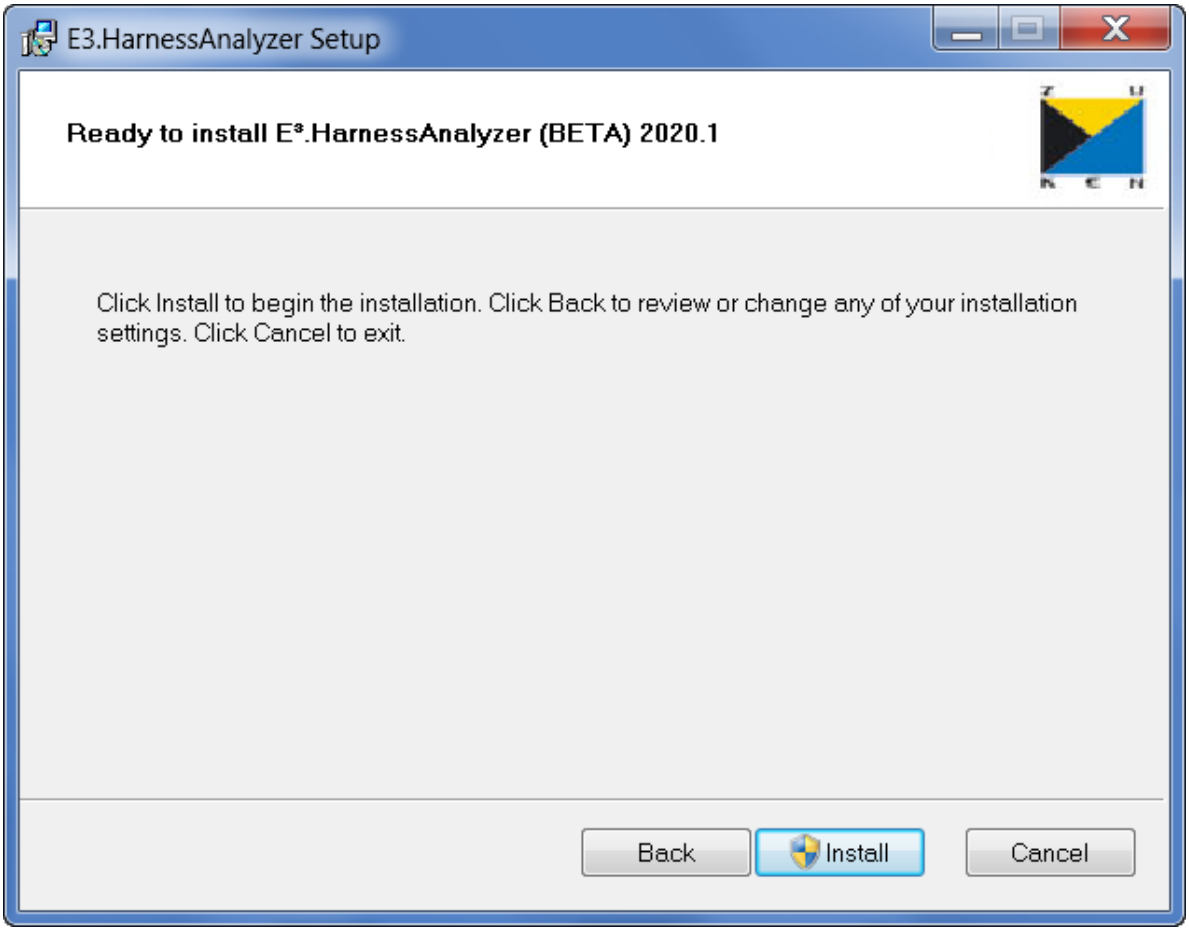

Ready to install

Install Zuken E³.HarnessAnalyzer Installation by clicking 'Install' button. The setup process will take a few seconds and a progress bar is shown during installation.

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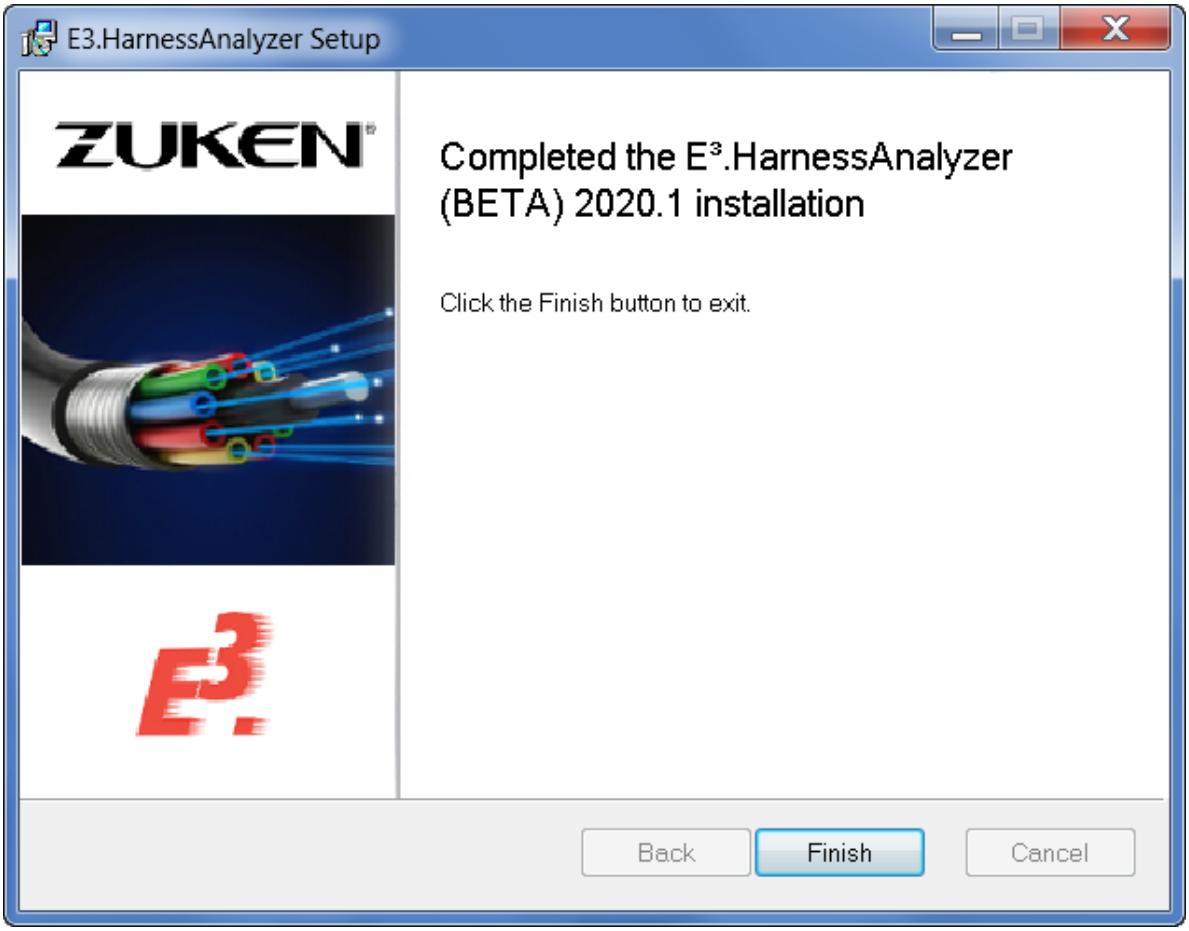

Completed installation

Click 'Finish' to leave the installer. You have now successfully installed E³.HarnessAnalyzer on your computer.

1.3.4 Unattended Installation

This method is intended for use by

- administrators
- software distribution systems.

In order to suppress setup dialogs, the command line option '/quiet' can be used.

It is possible to restrict the usage of sub features of E³.HarnessAnalyzer by setting a registry key:

If the key HKEY_CURRENT_USER\Software\Zuken\E3.HarnessAnalyzer\AvailableFeatures is found on start up of the application,

the value is readout and determines the features which are requested from the license server:

1: E3HarnessAnalyzer (always to be set)

2: E3HarnessAnalyzerDSI

4: E3HarnessAnalyzer3D

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8: E3HarnessAnalyzerPlmXml
16: E3HarnessAnalyzerConBrow
32: E3HarnessAnalyzerTopoCompare

The value is bit coded and hence a combination of these values is possible. (See also Activation- Handling of features)

Examples for MSI Installation using msiexec:

msiexec /i /a D:\Temp\E3.HarnessAnalyzer-x64.msi

Using quiet mode:
msiexec /i /a /quiet D:\Temp\E3.HarnessAnalyzer-x64.msi

Applying a patch:
msiexec /p /quiet D:\Temp\E3.HarnessAnalyzer-x64.msp

Setting the server for floating licenses:
msiexec /i /a D:\Temp\E3.HarnessAnalyzer-x64.msi
LM_LICENSE_FILE_TARGET=27000@MyLicenseServer

Setting the server for floating licenses and restricting the borrowing or usage of a given add on feature:
msiexec /i /a D:\Temp\E3.HarnessAnalyzer-x64.msi
LM_LICENSE_FILE_TARGET=27000@MyLicenseServer AVAILABLE_FEATURES=1

Supplying the path to a license file:
msiexec /i /a D:\Temp\E3.HarnessAnalyzer-x64.msi LM_LICENSE_FILE_TARGET='..\..\license.dat'

For more information about installing MSI packages by command line please refer to following web site:

http://msdn.microsoft.com/en-us/library/aa367988(v=vs.85).aspx

1.3.5 Language Settings

The supported languages can be set in the general settings of E³.HarnessAnalyzer.

The installation process checks the system language setting and presets E³.HarnessAnalyzer accordingly.

This will preset the QM- stamp specifications and the data table column settings to the appropriate language. If the QM-stamp specifications xml file is deleted, it is recreated on start of the application respecting the current language settings.

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1.4 Activation

A FlexNet® license file named 'license.dat' will be provided by the software vendor containing your ordered configuration.

Node locked configuration

For node locked license configuration, copy this file in the installation directory of the application. It is possible to locate the license file in other folders; in this case the environment variable LM_LICENSE_FILE respectively VENDOR_LICENSE_FILE must be set properly so that the application can find the file. See also the search order for license files in the FlexNet documentation.

Server based license configuration

The application can be used together with license server(s). The license server must be set up by the system administrator prior usage of this product. There are basically two different license servers available from Flexera:

- lmgrd.exe
- lmadmin.exe

There are different ways to locate the server:

A license file is needed on the server side to keep the valid licenses.

- This license file can also be used on the client side, supplying the information where to locate the license server(s) amongst others. Copy this file in the installation directory of the application.
- The server name can be supplied by the environment variable ZUKEN_LICENSE_FILE by setting the value to <port>@<server name>. The local license file is not needed then. (I.e. 27000@myserver) This can also be a list of servers separated by colon.

See also the FlexNet® documentation (FlexNetEnduser.pdf) for further information supplied in the installation folder of Zuken E³.HarnessAnalyzer Installation.

There are different utilities provided by Flexera to monitor and administer licenses.

Handling of Features

Zuken E³.HarnessAnalyzer Installation may use several sub features. In order to control which sub features are requested if a given user starts the application, a registry entry can be used.

(This may be necessary if only a few sub feature licenses are existing and these should be reserved for special users).

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The basic key for E3.HarnessAnalyzer is created by the installation package.
If an entry:

```
HKEY_CURRENT_USER\Software\Zuken\E3.HarnessAnalyzer
```

is not found, only the basic license is requested. If this entry is found, all available sub features from the server are requested automatically.

There can be an additional sub key (type DWORD) under this registry entry used (which needs to be added by the IT department):

```
AvailableFeatures
```

This sub key must then contain a bit combination of following features, which will be requested on start by the corresponding user:

```
E3HarnessAnalyzer = 1  (always to be set)
E3HarnessAnalyzerDSI = 2
E3HarnessAnalyzer3D = 4
E3HarnessAnalyzerPlmXml = 8
E3HarnessAnalyzerConBrow = 16     (Schematic viewer)
E3HarnessAnalyzerTopoCompare = 32 (Topological compare based on structure)
```

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1.5 Presets

There are several presets respectively lookups which are used by E³.HarnessAnalyzer and reside in the user's application data profile. These files are automatically generated with default entries, if they are not existing. It is possible to distribute own presets by placing default files in the installation directory of E³.HarnessAnalyzer by means of the msi installation package.

These files must follow the naming convention:

```
GeneralSettings_default.xml
WeightSettings_default.xml
GeneralSettings_default.xml
DiameterSettings_default.xml
E3XmlSettings_default.xml
```

In case the user profile gets deleted, the application detects the missing files and tries to find the defaults in the installation directory to restore them in the user's profile.

The general settings allow to distribute the path information to i.e. the 3D vehicle models or the connector face models.

The way of displaying the compare results in technical and graphical compare can be changed within the GeneralSettings.xml.

The consideration of "Added" and "Deleted" can be flipped by the Property:

```
<InverseCompare>true</InverseCompare>
```


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