



Trace Example

The example “Trace Example” contains two applications concerning trace recording and trace configuration in IEC 61131-3 via the Trace Manager.

Product description

The example project “TraceExample.project” shows how to record and store values of variables via the Trace Object and the Visu Trace Element. Another application demonstrates the configuration of a Trace Object in Structured Text.

More information on the Trace Object and the Visu Trace Element can be found in the CODESYS help:

CODESYS Development System > Reference, User Interface > Objects > Object ‘Trace’

and

CODESYS Visualization > Visualization Elements > ‘Special Controls’ > Element ‘Trace’ and its Dialogs

More information

Application TraceRecordingExample

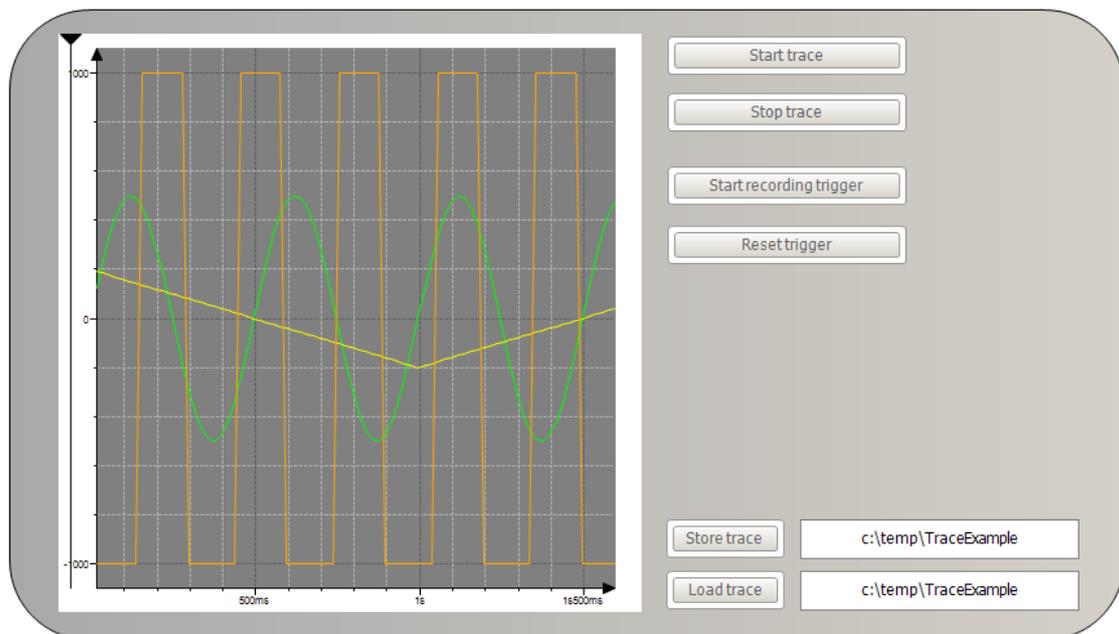
The application `TraceRecordingExample` demonstrates how to record and store values of variables via the Trace Object and Visu Trace Element.

Steps to save and load recordings via the Visu Trace Element:

- Configure the trace element
- Start the trace
- Start the trigger
- Store the trace
- Load the trace (Restriction: Works only if the trace was saved with the currently running application)

Steps to save and load recordings via the Trace Object:

- Configure the trace element
- Download the trace (trace menu)
- Start the trace via trigger or recording condition
- Store the trace (trace menu)
- Load the trace (trace menu)



Application TraceRecordingExample

Application IECTraceConfiguration

The application `IECTraceConfiguration` configures a Trace Element directly via Structured Text. The corresponding functions of the Trace Manager are implemented in the library `CmpTraceMgr`. Trace objects receive their data from a Packet. A Packet can hold one or more Records. The variable to record is assigned to a Record.

The program `PLC_PRG` creates and configures a Packet and a corresponding Record. The function block `FBTracMgr` encapsulates the functions and handles of the Trace Manager `CmpTraceMgr`.

The programmatically configured Trace can be loaded into a Trace Object with the function "Upload Trace" in the trace menu.



Trace of the application IECTraceConfiguration

General information

Manufacturer:

3S-Smart Software Solutions GmbH
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 87439 Kempten
 Germany

Support:

<https://support.codesys.com>

Item:

Trace Example

Item number:

000044

Sales:

CODESYS Store

<https://store.codesys.com>

Included in delivery:

CODESYS Package with example project

System requirements and restrictions

Programming System	CODESYS Development System V3.5.7.0
Runtime System	CODESYS Control V3.5.7.0
	All
Supported Platforms/ Devices	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	-
Restrictions	-
Licensing	No license required
Required Accessories	-

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.