SIEMENS

OPCSYS OPC UA System Course (IK-OPCSYS)

Short Description

This training offers you a detailed introdocution into the basic concepts of the OPC UA system and its interfaces. You will learn the terminology behind the abstract model and test and deepen your understanding of it with several OPC UA capable components. You will learn about the most important OPC UA servers and clients in the SIMATIC product portfolio and will configure and program them in practical exercises. A continous exercise concept will lead you gradually to a communication model that is soley based on OPC UA communication.

Objectives

At the end of this training you will be familiar with the basics, the terminology and the data models of OPC UA in the automation environment. You will understand the interaction of its components and be able to configure the most important OPC UA servers and clients of the SIMATIC product portfolio.

Target Group

Programmers, Commissioning engineers, Engineering personnel, Maintenance personnel, Service personnel, Operators

Content

Introduction to OPC
Infrastructure of OPC UA
Security of OPC UA
Information model, data access types and profiles of OPC UA
SIMATIC controllers as OPC UA servers and clients:
Configuring the OPC UA server
Programming OPC UA methods
Programming an OPC UA client
OPC UA Companion Specifications and modeling the server interface with SiOME
SIMATIC HMI products as OPC UA servers and clients
SIMATIC HMI Comfort/Mobile Panel
SIMATIC WinCC Runtime Advanced
SIMATIC WinCC Runtime Professional
SIMATIC NET OPC Server
SIMATIC Ident RF600 Reader as OPC UA server
Integration of 3rd Party OPC UA servers using a 2D code reader
Standard OPC UA clients (UaExpert, OPC Scout)
Performance of OPC UA connections
Diagnostics and debugging of OPC UA components
Migration from OPC Classic to OPC UA

Prerequisites

SIMATIC S7 knowledge according to ST-PRO2 or ST-SERV2 or S7-SYS2

Type

Face-to-face training

Duration

4 days

Language

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