SIMATIC WINCC OPEN ARCHITECTURE

WinCC OA Project Specific Start Up Workshop

This start up workshop helps WinCC OA newcomers to gain a high performance project start and leads to a safe and comfortable feeling within a possibly unfamiliar tool environment.

After a general and compact 5-day-held basic training in a group, this customer- and project-specific training helps to apply learned skills to the present project. Under the guidance of an experienced WinCC OA consultant proper approaches and basic settings are chosen at the beginning of the project to ensure success as a consequence.

A flexible combination of a 2-day-workshop and 16 hours consulting on demand (within the first 2 project weeks) leads to an efficient acceleration in project progress.

The extent of the project specific start up workshop is oriented towards a simple standard project. Concept development at major projects, e.g. complex data models of different PLC types, special WinCC OA features as, e.g. Disaster-Recovery or BACnet object library, are not included in the start up training and will require additional consulting.

Course code
ETM-WinCCOAPSSU

SIEMENS

Prerequisites

Participating trainees have to know about the requirements of the project (architecture, quantity numbers, performance, additional requirements of the customer, hardware to be integrated, etc.). Trainees must have previously attended the "Certified WinCC OA Basic Training" (ETM-WinCCOABAS) and should have already set up their development environment. (WinCC OA installed, valid license, development project created or „proof of concept"-project available, maybe a software repository etc.)

Training objectives

Participants will get comfortable with the WinCC OA development environment. Trainees will be enabled to make the right choices in project specific decisions concerning architecture and engineering. The participants will learn the correct way to create and setup new projects. Trainees will furthermore be able to identify complex and critical project parts.

Content

Project specific focus points – defining base concepts & example-based configuration and settings:

- WinCC OA application: architecture und system design (general recommendations)
- What should get extra focus when developing a WinCC OA application
- Recommendations to avoid common mistakes
- Recommendations to improve performance
- Suitable structuring of the data model under special concerns for standardization and maintainability
- Concept for long term archiving and database choices
- Communication with PLCs and RTUs – hints for data flow reduction and performance optimization
- Concepts for mass engineering (periphery addresses, etc.)
- Support for creation of application frontend (user interface) and screen navigation:
  - Open plant screens
  - Operator interaction dialogs
  - Graphical reference objects
  - User administration
  - Summary alerts
  - Alarm screen
  - Language switch
  - Standard WinCC OA components
- Overview about debugging and analysis tools used for performance enhancement and application code analysis

Please note

WinCC OA only supports 64bit-operating systems! Hardware and software, except for WinCC OA, are not provided and must be brought by the participant. The minimum hardware and software requirements are as follows:

• Processor	Intel Core i3 / i5 / i7 with 2.2 GHz or similar
• RAM	4 GB
• HDD	5GB free disk space
• Graphic	1280 x 1024
• Input	Keyboard, mouse and USB-port (required)
• Operating system	Windows 10 CB Version 20H2, LTSC Version 2019, Windows Server 2019, RedHat Enterprise Linux 8 64bit, Oracle® Linux 8.3, SIMATIC Industrial OS 2.2, Docker-Version 20.10.3 with Debian 10 Buster
• Optional	VMware Cluster (HA) ESXi 7.0 Update 1* (supported by all operating systems which are mentioned above)
• Optional software	Microsoft Excel 2016, Excel 365 1912 (Only 32bit Excel versions can be used for the WinCC OA Excel-report.)

Duration

2 days non-residential + 16 consulting hours (within the first 2 project weeks)

*…The use of a virtualization is optional and not required for the installation of WinCC OA!