



SIMATIC WINCC OPEN ARCHITECTURE

Certified WinCC OA Developer Workshop

This three-day instructor-led workshop provides for experienced trainees the knowledge and skills necessary to use the WinCC OA API Toolkit. In the training the means of creating custom CTRL-extensions (DLLs), managers and/or simple drivers will be presented.

Article number

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SIEMENS

Prerequisites

- Solid skills in C++ programming
- Proper skills about PLC 's and network
- Completed "Certified WinCC OA Basic Training"
- Suitable laptop, according to the requirement list
- Installed version of WinCC OA (information about used version must be communicated in advance)
- Development environment, according to the requirement list
- Completed "Certified WinCC OA Engineer Workshop" is preferable

Training objectives

On completion of this course the trainee will be able to develop custom CTRL-Extensions (DLLs), Managers and/or Drivers, to extend the already given functionalities of WinCC OA.

Content

- Introduction to the WinCC OA API
- Creating a simple CTRL-Extension
- Creating a simple Manager
- Creating a simple Driver

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.) |

Development environment for WinCC OA 3.18:

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|-----------|---|
| • Windows | Visual C++ / Visual Studio 2019 Compiler Version for x64 |
| • Linux | Red Hat Enterprise Linux mit GCC Version 8.2.1
SUSE Linux Enterprise mit GCC Version 7.4.1 |

Duration

3 days non-residential

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