

HMI software

SIMATIC WinCC V7/V8

SIMATIC WinCC V7/V8 options

WinCC/Redundancy

Overview

WinCC/Redundancy

- Option for SIMATIC WinCC, supporting the parallel operation of two interfaced WinCC single-user systems or process data servers for mutual monitoring
- If one of the two server PCs or one of the two WinCC stations fails, the second one will take over control of the entire system. Once the failed server or station is restored to operation, the process value archives are copied to the restored partner.

Licenses

The WinCC/Redundancy option includes licenses for both redundant servers. A Redundancy license is required on each of the two servers in addition to other necessary licenses.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager at <http://www.siemens.com/simatic-licenses>

Benefits

- Increased system availability with continuous data integrity
- Automatic changeover of client in the event of failure of a server or failure of the communication to a server
- Continuous operator control and visualization thanks to automatic client changeover to the intact server
- Automatic updating of all archives in the background after rectification of the fault

Function

Normally, two WinCC stations or process data servers run in parallel. Each station has its own process connection and its own data archives. WinCC/Redundancy ensures automatic matching of system and user archive data.

If one of the two server computers or WinCC stations fails, the second will take over the archiving of messages and process data, thereby ensuring seamless data integrity. In client/server mode, the clients are automatically switched from the failed server to the redundant partner. This ensures continuous plant visualization and operation on every operator station.

When the failed partner resumes operation, all process values, messages and data archived during the fail period are automatically matched with the partner. This process runs in the background and does not affect plant continuity. Once this is complete, two equivalent servers/stations will be available again.

Communication with the SIMATIC S7 PLC can also be configured with redundancy (an H Series SIMATIC S7 is required) by plugging in two communication modules and configuring two communication paths (S7-REDCONNECT software package). The use of failsafe H Series SIMATIC S7 PLCs can, if required, further increase availability at control level.

Ordering data

Article No.

SIMATIC WinCC/Redundancy

SIMATIC WinCC/Redundancy V8.1

- Runtime software, single license for 2 installations
- As download, Runtime software, single license for 2 installations

6AV6371-1CF08-1AX0

6AV6371-1HF08-1AX0

SIMATIC WinCC/Redundancy V8.0

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More information

More information on the WinCC V8 basic functions can be found at <https://www.siemens.com/global/en/products/automation/industry-software/automation-software/scada/simatic-wincc-v8/basic-functionalities.html>

More information on the advanced WinCC V8 functions can be found at <https://www.siemens.com/global/en/products/automation/industry-software/automation-software/scada/simatic-wincc-v8/advanced-features.html>