

Sustainable network management

Prerequisite for successful digital companies in the glass industry.

The Challenge

In times of digitalization, the number of devices communicating over a network increases dramatically. From the simple field device to the control components on the system bus, the operating and visualization stations of the terminal bus, to the office area - all these devices communicate with their network partners and pose great challenges for the management of these networks.

Providing sufficient bandwidth for the participants in the network is no longer sufficient instead, high demands are placed on security IEC 62443-4 and error management within a network. In the FCAPS model of the International Organization for Standardization (ISO), the cornerstones for successful network management are defined as follows:

- Fault Management Recognize, log and correct error conditions
- Configuration Management Capture and manage components
- Accounting Management Record network usage
- Performance Management Collect performance data and keep statistics
- Security Management Authenticate users and authorize access and use

The solution

Use SINEC NMS - the comprehensive network management system for your network overview. SINEC NMS is based on the FCAPS model and extends it by the two components "System Administration" and "Northbound Interface". The overarching element "System Administration" comprises the three aspects operation management, system scalability and user administration. The core aspect here is the distributed, decentralized approach with a holistic view of the network, regardless of its size. For this purpose, SINEC NMS is divided into the superordinate Control level and several distributed, subordinate Operations. The subordinate SINEC NMS operation levels are centrally put into operation and managed in the control.

The SINEC NMS Operations in turn are distributed throughout the network and have the task of recognizing the network devices and reading the respective information from them. They also apply the configuration parameters from the control level to all participants.

The second extension is the "Northbound Interface" and enables the connection between the industrial network and the IT level. Thus, the network and diagnostic data preprocessed in SINEC NMS can be seamlessly integrated via OPC UA into various applications such as SIMATIC WinCC or SIMATIC PCS 7.



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Portfolio	Article number
SINEC NMS 50 V1.0 SP3 OSD	6GK8781-1BA01-0AK0
SINEC NMS 100 V1.0 SP3 OSD	6GK8781-1DA01-0AK0
SINEC NMS 250 V1.0 SP3 OSD	6GK8781-1JA01-0AK0
SINEC NMS 500 V1.0 SP3 OSD	6GK8781-1TA01-0AK0
SINEC NMS 500 Power Pack	6GK8781-5TA00-0AC0

Software & license delivery options: Online Software Delivery (OSD) , USB stick , Software Update Service (SUS) Power Pack: Upgrade SINEMA Server V13/14 to SINEC NMS (USB stick) / RCM-Upgrade Ruggedcom NMS to SINEC NMS (OSD)

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