

Siemens SINAUT Spectrum[®] in systematic overview

With **empuron supervise** an automatic and centralised observation of one or more Siemens SINAUT Spectrum[®] systems becomes possible.

empuron supervise supplies evidence of exceptional situations, before also experienced system administrators become attentive to it, because around the clock the crucial parameters of the control system are logged and supervised. If the loss of several functions, servers, the entire control system or of parts of the LAN should occur, **empuron supervise** facilitates an easy and fast analysis of the situation and helps thereby to react purposefully.

Analyze details and evaluate histories

The comfortable selection guidance of the **empuron supervise**-Web-UI is the entrance for the gradual analysis of the disturbance information. Evaluations in the detailed information level are customizable, so that fast additional information can be won. Access to archives supports thereby the trend analysis.

Important parameters are shown symbolically. For example differences between the ODB and SDB versions become visible for the user at once.

System structure

The components of **empuron supervise** are the base of efficiency and system flexibility:

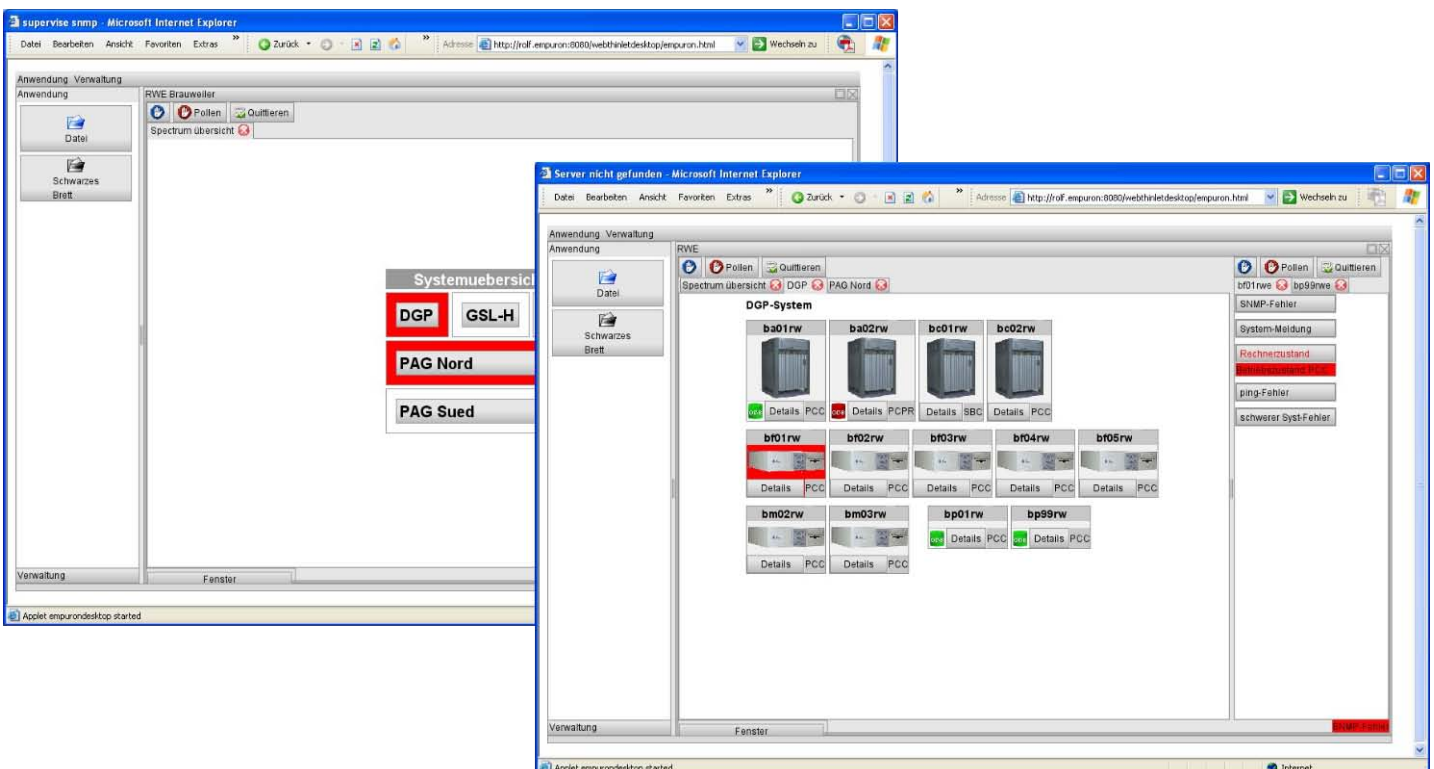
- **empuron** portal system: Representation of the SNMP information on arbitrary workstations
- **empuron** SNMP manager: Treatment of arbitrary SNMP information
- Database (ORACLE or MySQL): Archiving and system parameterization

SNMP agents

SNMP agents represent the system interface to **empuron supervise**. The most important SNMP agents in the overview:

- Siemens SPEA for SINAUT Spectrum monitoring:
- Further agents: ORACLE SNMP agents, Microsoft SNMP agents, SNMP agents for routers and switches, SNMP agents for UPS, printers and other hardware units.

Figure 1: Browser user interface – Selective control of the resource overview, marking of erroneous resources and components



empuron supervise SNMP

- Monitoring of Siemens SINAUT Spectrum[®] -

Special supervising functions for Siemens SINAUT Spectrum[®]

A set of parameterizable **supervising** functions, archives and User Interfaces are designed especially for SINAUT Spectrum. In these functions a combined use of the agents and inter-coordinated component checks are performed to detect and, where applicable, alarm the following information:

- Unintentional system or component restart
- Server or component status
- ODB fill level status compared with defined limits
- Correct SDB/ODB version updating in the systems
- Softbus fill level status
- Correctness of server redundancy
- Narrow disk space availability compared with defined limits
- Core dumps
- CPU Load of the servers
- Multiple automatic checks using the Console Message Agent: (customizable)
 - ➔ State of connection to Offline-Databases
 - ➔ State of interfaces to attached systems
 - ➔ Specific UNIX console messages
 - ➔ Spectrum messages of special, critical components
 - ➔ Prioritized alarming due to error numbers of components

Benefits

Error situations are recognized promptly and automatically (Information by Exception).

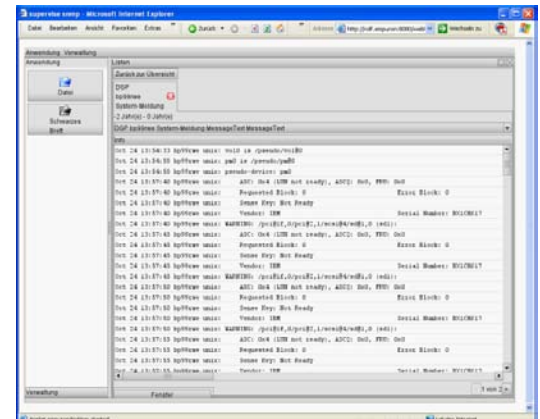
- Cost reduction for regular checks
- Cost reduction in conjunction with consecutive faults
- Purposeful assignment of the technical personnel
- Improvement of the system availability

As central monitoring system **empuron supervise** collects run time and message data in uniform structure. The data are available without special know-how of the individual components.

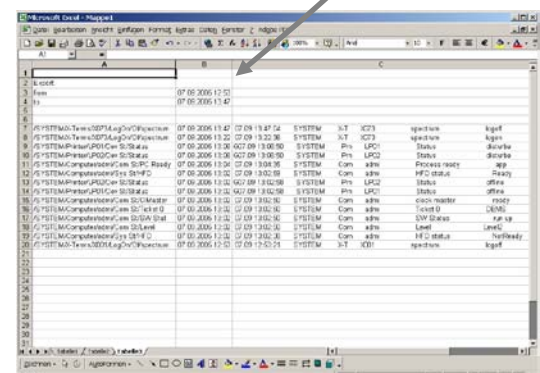
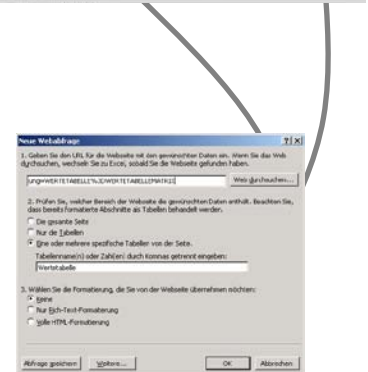
- Saving of training costs
- Central data preparation reduces analysis expenses
- Savings in assortment and dispatching information to specialized divisions/companies

The archiving system affords the historical analysis of the system performance:

- Reduction of support hours (technical divisions and manufacturers)
- Recurring system states can be faster identified (specially the repetition of failures)
- Trends will be recognized faster and the system availability becomes transparent



Evaluation of message information using the archive



Export of information into e. g to Microsoft Excel for further evaluation and reporting