

PSImining- the Digital Mine



*Improve output, shorten
downtime and reduce the
impact of events*

The objective

Avoid downtimes, enhance equipment efficiency, shorten maintenance-time and improve security – these goals and maybe more are on the agenda of every mine operator.

Today systems offer very detailed views to measuring values, machine conditions and selected process parameters. Nevertheless in most cases there is no overview showing the impact of events to related processes and thus preventing proper workforce management.

The solution

PSImining is the first factory-level SCADA integrating all processes and sub-processes into one single system, offering the DIGITAL MINE.

Events are shown in their operational context, dependencies are known by PSImining, the operator is guided to the point of interest.

By powerful Human-Machine-Interface, workforce management tools and extensive online-analysis capabilities reaction time on events goes down, precision goes up!

PSImining – The Digital Mine

Adapted solutions based on proven technology. PSImining is based on proven SCADA technology of PSI available on different markets up to 20 years and considered as the most powerful SCADA especially in the area of geographically distributed and complex automated processes.

With the help of a powerful Human-Machine-Interface (HMI) the system automatically navigates the operator to the point of interest (i.e. where events happen). With the help of zoom-able pictures (geographical or schematic pictures) the location of events can be immediately determined.

Due to a hierarchic data model the operators are prevented to be exposed to hundreds of follow-up-messages because to subordinate alarms or events.

Graphical and textual filter functions support the operator in finding the right information.

Online configurable reporting tools (i.e. curves) support the operator when analysing events and alarms.

PSImining – High level automation

PSImining fully integrates all processes and sub-processes of a mine into one single SCADA. This is the basis for automation even crossing the boundaries of machines and plants.

Automation of the coal-face combining data from mining machine, shields and geographic/geologic data is possible.

Relation of data from the mine infrastructure (i.e. electrical power supply, pressured air, fresh water supply, etc.) to devices or production areas connected to that infrastructure can easily be established inclusive automated shut-down or power-up strategies.

Why PSI?

PSI AG understands and facilitates interdisciplinary work processes of its customers. PSI has proved its expertise in numerous successful projects since 1969.

Customer benefit

Solutions from PSI return the investment within a short period of time and open up the way for maximising the potential for automation and optimisation. With termination and handover of the project the customer maintains the installation himself.

*High-end systems
for companies
operating 24x7 -
365 days a year.*

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