

Complete integration into the PCS 7 world

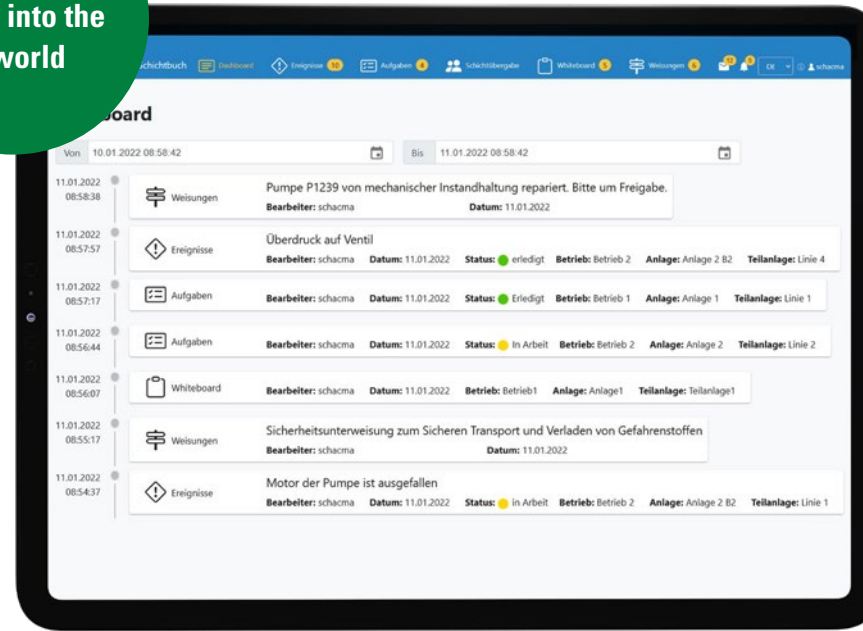
Plant Historian SB

Digital Shift Book

The MES software Plant Historian SB – Shift Book – provides complete shift information recording along the entire production chain and supports paperless working in all areas of production, maintenance or in the warehouse.

+ Benefits

- Paperless, central, flexible and mobile data capture
- Increasing the quality of information
- Reducing the time and effort spent on data entry and research
- Reduction of error sources
- Automatic transfer of shop floor data relevant to the shift book (alarms/ events, limit value changes etc)
- Support/guide of the employee through the entire workflow process
- Intuitive operation
- Individual and automated reporting
- Use of a multilingual, company-wide standardized data entry platform reduces IT costs
- Standardized interfaces to the shop floor and ERP world



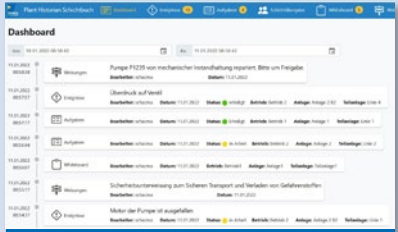
Plant Historian SB – Shift Book – digital collection and documentation of shift events with display of operative documents like shift and transfer protocols.

More impressions of the application you will find on the next side.

Features

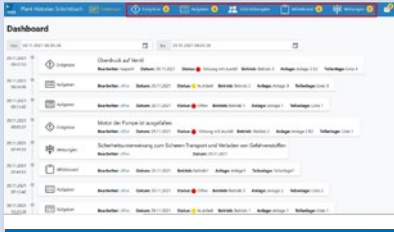


Core Features in practice



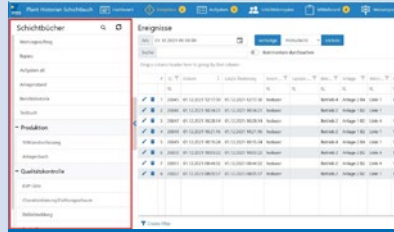
Central Dashboard

- At a glance: overview of all events, tasks, shift handovers, whiteboard entries, instructions
- Filter entries by time period
- Forecast of current developments
 - General filter options, e.g. by entry type (event, task, instruction, ...), shift, attachment, status, agent, ...
 - Opening of entries directly from the dashboard
 - Create and save user- or group-specific dashboard layouts



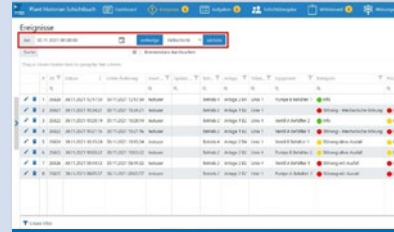
Standard forms

- Standard shift book forms: events, tasks, shift handovers, whiteboard, instructions
- Classification of entries in events, tasks, shift handovers, whiteboard entries, directives
- Standard shift books freely configurable (data fields, field sequence, data types etc.)
- Task management: derivation of person-related tasks from events, e.g. for required maintenance activities
- Status display for each shift book: number of open entries and entries in progress
- The standard shift book forms are included in the Plant Historian SB basic licence



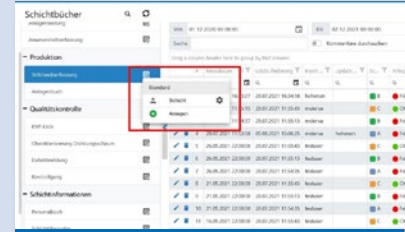
Freely configurable forms

- Forms / input masks freely configurable
 - Multiple data types: free text, numbers, fixed value lists, binary, file upload
 - Recording of measurement and tolerance ranges
 - Any sequence of fields
- Structure of area hierarchies, e.g. production, quality control
- Free text search function for navigation
- Navigation can be customised for specific users or groups, e.g. employees in production only see "downtime recording" and "plant log".



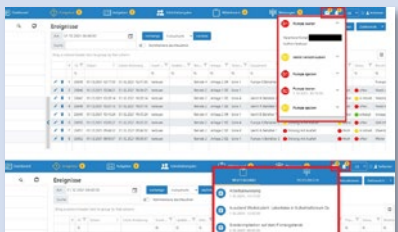
Intuitive and flexible operation

- Time filter by date/time or shift (shift times configurable)
- Create filters and groups of any complexity
- Function is available for each entry field/column
- Filter builder: compile filters and groups of any complexity with various logics and operators (if, and, or, >=, <= etc.)
- Sorting function: chronological or alphabetical in ascending or descending order depending on field type
- Time filter for each field of date/time type



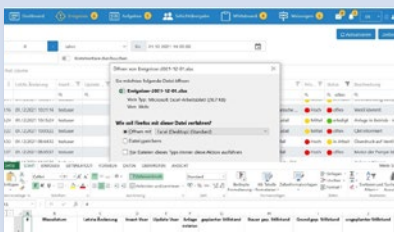
Flexible layout saving

- Create and save user or group specific layouts based on the current filters, groupings and sorting
- Examples:
 - Layout "All system incidents of the last month"
 - Layout "CIP list for facility 1"
 - Layout "All open tasks" in the "Distillation" unit



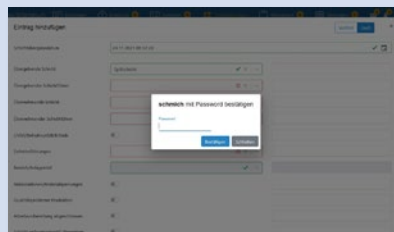
Notifications

- Notification of open tasks (bell symbol), person or group related
- Notification of current whiteboard entries and instructions
- Counter for the number of notifications (e.g. number of my open tasks)



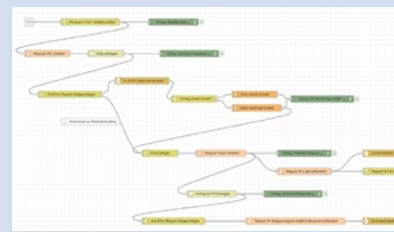
Data export for ad hoc evaluations

- Excel export for further processing of data in Excel, e.g. for simple ad hoc evaluations in Excel included in the basic licence
- Add-on: automatic reporting, e.g. for daily, weekly and monthly reports with e-mailing to predefined recipients
- Data export on the basis of current or saved layouts or the current table filters, groups, sorting
- Transfer of all groupings to Excel export files
- Data export via REST interface for evaluation e.g. in Power BI



Confirmation function for shift handover

- Confirmation of shift handover by password entry of the shift supervisor
- Confirmation function can be used for all scenarios that require personal confirmation and documentation, e.g. release of CIP activities by team leaders
- Forecast: confirmation by means of plant ID card (RFID) or digital signature



Automate processes/workflow engine

- Fast process automation using an integrated low-code workflow engine
- Mapping if-then scenarios
- Automation across several interfaces/applications, e.g. machine control, process control system, third-party systems (ERP, MES, WMS, CRM, ...)
- Automatic forwarding of alarms & events to the shift book
- Examples for application:
 - Automatic creation of a shift book entry based on an external trigger, such as a variable of a machine control (e.g. metal detector detects contamination).
 - In case of a machine malfunction, an e-mail is automatically sent to the plant manager and the current shift supervisor



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