General
MIS-Light is an Management Information System based on industry standards for data acquisition and analysis. Main applications are particularly process information and analysis, production tracking as well as the quality assurance. The system stands out due to simple handling and open, flexible user modules.

Applications
Possible applications are:
- Creating of production reports and statistics
- Comparison and analysis of process trends
- Analysis of process messages
- Providing of process data for office clients and other systems
- Validation support, compliance to FDA – 21 CFR Part 11
- Production traceability

Positioning
Online data base for
- Process data
- Messages
- Batch
- Lab data
- Manual data input

Vertical Integration:
Process data for the office area (ERP)

Horizontal Integration:
Data archiving of several automation systems

Flexible reporting functions
Data analysis

Functionality
Process values, messages, batch data and lab data are archived in an open SQL database on a separate PC. MIS-Light is integrated in SIMATIC WinCC as well as PCS 7. The data management is protected against manipulation and is independently of WinCC/PCS7. All archive data are available for the evaluation and optimization in the enterprise. MIS-Light provides a client/server structure for data displaying. Users have several possibilities for displaying (Viewer), evaluation (reports), analysis (tables, graphics) as well as reports (controlling, statistics). This functions are available for continuous as well as for batch processes.

MIS-Light – Management Information System

Analysis, Evaluation and Reporting for Continuous and Batch Processes

Industrial Solutions
Interfaces
MIS-Light provides interfaces for data evaluation (user defined reports and hit lists) with Microsoft Office (Excel, Access) as well as standard software components (Crystal Reports, Business Objects).

Benefit
- Optimization of the plant by trend analysis.
- Improvement in the production by data comparison (Golden Batch).
- Cost saving and quality improvement by analysis of the messages.
- Improvement on the quality by an integrated report system (reports for shift, day, week, month, year).
- Improvement in the position in the market by compliance with legal requirements (FDA 21, CFR share 11).
- Improved transparency by tracking of the production and fast access to the relevant information (product liability).

Project specific solutions
Further applications can be integrated in the existing MIS-Light functionality based on standard software components. Solution packages for several industries e.g. pharmaceutical, chemicals, food & beverage, energy, cement, water etc. can be provided.

Service
- Delivery on CD-ROM including setup program
- Configuration tools and documentation in PDF Format are provided
- Support in consulting, installation, engineering and training
- PC hardware (version standard or RAID system for increased data security) can be delivered on enquiry also preinstalled
- Interfaces to Advanced User Administrator (AUA), SIMATIC Logon (SLS), ODBC and OPC (DA) Client as well as VB/VBA/VC++ are available

Technical Data

Hardware MIS-Light Server
At least P IV, 1 GB main memory, 100 GB hard drive

Hardware MIS-Light Client
At least PII 500 MHz

Operating System MIS-Light Server
Windows 2000 Server or Windows 2003 Server

Operating System MIS-Light Client
Windows 2000 or Windows XP

Database MIS-Light Server
Sybase or Microsoft SQL Server 2000

MIS-Light Components
Required: MIS-Light Basic System (DB: Sybase/Microsoft SQL Server)

Additional Modules:
- Process Values (500 – 15.000 Values/min)
- Messages
- Redundant Coupling (Using the WinCC redundancy also possible)
- Data Backup
- Backup Server
- FDA 21 CFR Part 11 Extension
- Batch Archiving, Batch Reports (incl. electronic signature)
- Manual Data/Value Correction
- Excel Addin
- Standard Reports
- Document Archive
- Electronic Signature
- Interface "Web Server"
- Parameter Control
- Maintenance
- Interface "Other Systems"
- Development Toolkit

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.