

Vaisala MetMan Network Software MM400 Version 2.0

- Complete system for meteorological and hydrological data collection and storage
- Various communication options
- Easy set-up and configuration
- For networks with hundreds of stations

Vaisala MetMan Network Software MM400 is a versatile data collection system for meteorological and hydrological networks. It can be used by any organization that needs to collect and manage data from a large network of automatic weather stations (AWSs) and sensors.

SERVERS

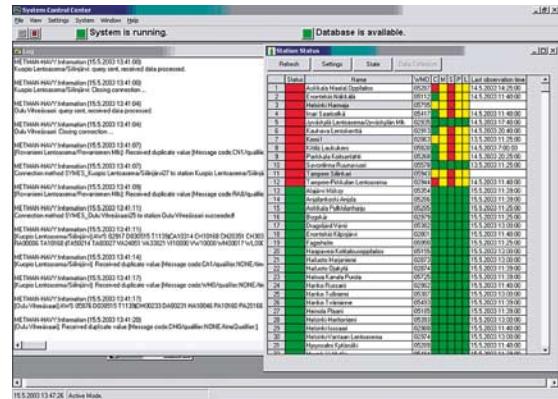
The standard MetMan Network Software MM400 set-up will have two server PCs. The base server PC handles the communication tasks, controls the telecom-munications equipment and acquires data from the weather stations. The database server PC stores the data and provides standard data interfaces. Optionally, additional workstations can be used to view and analyze the data and a backup base server can be used to maximize data availability.

GETTING STARTED

Setting up and using Vaisala MetMan Network Software MM400 is easy. After set-up, the user configures the observation network structure and data collection schedule. The system operates automatically once started. Measurement data and alarms are stored into the database. Data can be viewed in real-time displays and data history applications. The System Control Center application displays the status of the AWSs, communications and the database.

COMMUNICATION WITH WEATHER STATIONS

The system communicates with the AWSs using a combination of serial lines, leased lines, dial-up modems or TCP/IP. The system supports up to 24 simultaneous connections to weather stations. Data collection schedules may cover any number of stations, a different schedule can be assigned to each station, and the station clocks can be synchronized automatically after data collection. The system can work with different types of AWSs



System Control Center application displays data collection progress and status of system components.

and telecommunications devices. Weather data can also be collected from other computers.

ADVANTAGES OF A SCALABLE DATABASE

The Oracle 9i database stores the weather data safely. It resides on its own server PC, ensuring that multiple clients can access the data while it is being collected. Data collection has been fine-tuned to ensure the system can store large amounts of weather data quickly despite possible network and server malfunctions. External interfaces allow you to build your own applications and/or use third-party data analysis and visualization tools with the database.

CHANGING CONFIGURATION PARAMETERS

Vaisala MetMan Network Software MM400 stores all AWS network configuration parameters in a database and offers user-friendly applications for configuring the network structure. Changing stations, observation variables, message formats and communication parameters is easy.

VIEWING DATA IN FRIENDLY FORMATS

Users can view weather data in graphical and/or table format. Data can be exported to files for further processing and analysis in external applications (e.g. Microsoft® Word, Excel). The collected data can also be displayed on Internet using the optional Vaisala MetMan WebView software.

APPLICATION AREAS

- Synoptic surface weather observation
- Meteorological research on surface weather
- Precipitation measurement
- Water resource management

TECHNICAL INFORMATION

STANDARD FEATURES

Communication protocols Serial lines, TCP/IP,
TELNET, FTP

DATA ACQUISITION MODES: MESSAGE RECEPTION, MESSAGE POLLING

Maximum number of
simultaneous active connections: 24

Maximum number of
observations in database: Limited only by hardware

Time data can be stored in ASCII files One calendar month

Automatic weather station time synchronization
(Vaisala Automatic Weather Stations)

CONFIGURATION APPLICATIONS

Metadata Control

Communications Control

Maintenance Control

System Control Center

Station History View

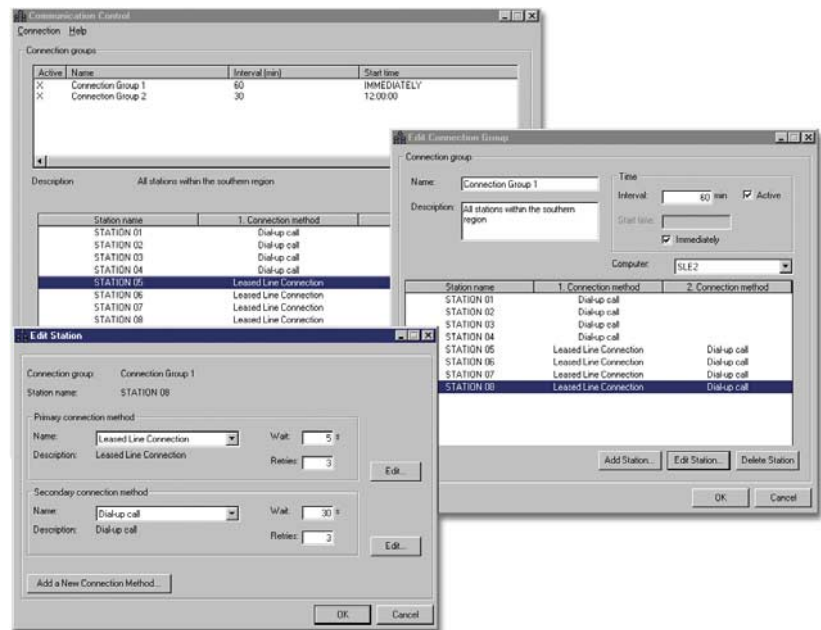
OPTIONS

Backup Base Server

Client Workstation with display applications

Vaisala MetMan WebView

*Alternative modes of
communication can be defined.*



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