Vaisala Observation Network Manager NM10

/ EFFICIENTLY MANAGE YOUR WEATHER OBSERVATIONS





Cost-Effective, Configurable Off-the-Shelf Platform

Implementing a scalable, flexible management solution with autonomous systems and intelligent field devices of different brands and types which provide interfaces for efficient integration with other products and systems will allow you to optimize your network operations, improve safety and facilitate operation in remote locations.

Vaisala Observation Network Manager NM10 enables remote monitoring and control of your weather observation networks on one central, secure and automated platform. An off-the-shelf solution with extensive support and proven performance and functionality significantly reduces the implementation time and total lifetime costs, helping you stretch your budget further. Continuous modernization and efficient upgrades helps you utilize the most advanced technologies available to improve performance now and in the future.

Real-Time Monitoring with Alerts and Remote Diagnostics

The NM10 provides the ability to monitor individual site status via secure web technologies and collect data 24/7 from one central network in real time. It allows your team to remotely access and control individual sites to fix the problems faster and optimize your network operation. With centralized event, alert and notification information quicker reaction to network and sensor failures, and faster problem identification and solution deployment can be achieved for improved network uptime and data availability. In addition, configure the layout and displayed data to clearly visualize and understand precisely real-time weather conditions throughout your country or region affecting your operations and observation site performance.

High Data Security, Availability and Validity

Perform automatic real-time data quality control and analytics services to feel confident that you will get the high-quality observation data you need, which is crucial when your data is used further in decision making for critical operations and public safety. Redundant hot-standby multi-server or virtual environments can be used with long-term data archiving capabilities to ensure further continuous, uninterrupted operation. Advanced data security and user management capabilities are utilized avoid network vulnerability and helping to mitigate the risks of intrusion and cyber threats.

Benefits

- Continuous reliable observations to improve performance of weather services and operations
- Shorter site visits and correct actions to save time and money
- Optimized lifetime support to achieve lower operational costs and investments



Surface Weather Display Views



Observation Network Management Views



Technical Data

Features

Data acquisition	Vaisala weather transmitters	Processor
	Vaisala air quality transmitters	RAM
	Vaisala surface weather stations	
	Vaisala AviMet [®] airport systems	
	Vaisala AUTOSONDE® systems	Hard disk space
	Vaisala DigiCORA® sounding systems	
	Vaisala RWS200 road weather stations	
	ASCII string message parsing from third-party surface weather sensors and systems (when applicable)	Operating system
Data post collection	Vaisala surface weather stations	
Data processing	Range,step, and persistence checks for surface and road weather transmitter and station observations	
Data storage	PostgreSQL database	Ethernet Other peripherals Web browsers
	Observation and event text files	
	Configurable database management system	
Time services	Time synchronization for Vaisala surface weather stations	
	NTP system time synchronization	
Notification services	Configurable SMTP email alerts	
Remote site access	Terminal connection for weather transmitters and stations RDP over HTTPS for airport, AUTOSONDE® and DigiCORA® sounding systems	Monitor resolution *Exact system requirement and type of observation sit interval(s), data storage tin connected, and features se detailed specifications, ple
	Web browser connection via HTTPS to AUTOSONDE®, DigiCORA® sounding and RWS200 systems	
Web user interface	Client connection via HTTPS	
	User authentication and administration	
	User configurable desktop and widgets	
	Map, list, graph, wind-rose, and text widgets	
	System settings	
	Sound alerts, events monitoring	
	Alarm acknowledgement Grant or deny balloon release	
	Observation data reports	
	Data availability and validity reports	
	Translation for local language(s)	
	Context sensitive help	
GIS map service	GeoServer with OpenStreetMap world map	
	Standard map max.zoom level: 1:433K	
	Enhanced map max.zoom level: 1:6759	
	WMS interface for third-party map data	
Data export	FTP/SFTP, WFS via HTTPS	

Minimum System Requirements*

rocessor	2.0+ GHz, 4-core CPU or higher	
AM	8 GB or higher (with standard GIS map)	
	16 GB or higher (with enhanced GIS map)	
lard disk space	300 GB or higher (with standard GIS map)	
	1 TB or higher (with enhanced GIS map)	
)perating system	Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 R2 Microsoft Windows 7 Professional SP1 (64bit) Microsoft Windows 10 Professional (64bit) Microsoft Windows 10 Enterprise Embedded (64bit) Linux CentOS 7.2 Linux CentOS 7.3	
thernet	10/100/1000 MB	
)ther peripherals	USB drive, UPS	
Veb browsers	Microsoft Edge latest versions	
	Microsoft Internet Explorer 11	
	Mozilla Firefox latest versions	
	Google Chrome latest versions	
Ionitor resolution	1366 x 768 or higher	

*Exact system requirements for computer hardware is dependent on the number and type of observation sites connected, amount of data collected, data acquisition interval(s), data storage time, maximum number of concurrent web clients connected, and features selected by the customer. For further information and more detailed specifications, please contact Vaisala.

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Please contact us at www.vaisala.com/requestinfo



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