VAISALA

Vaisala viewLinc Enterprise Server software version 5.2

DL series loggers

vNet ethernet interface

Network access device

Modbus devices

viewLinc server

VaiNet network access point

Signal light tower

VaiNet wireless data loggers

Local network users

Remote users

Features

- Software for continuous monitoring of temperature, humidity, and other parameters
- Eleven language versions for enterprise-wide, multi-site use
- Preconfigured and custom reports
- Windows Active Directory for easy user management
- Configurable alarm notifications: email, SMS, voice calls, signal towers, browser alerts
- Scheduled threshold alarming and alarm notification delivery times to accommodate maintenance periods or work shifts
- Interactive tours for novice users
- Licensed features: Voice/SMS web service, 3rd-party Modbus devices, Vaisala OPC UA Server, REST API

Vaisala viewLinc Enterprise Server software lets you network Vaisala data loggers or Modbus devices using a combination of wired and wireless connections. It supports installations of one or two measurement points, or large systems that monitor thousands of locations. Through user engagement and agile development, Vaisala delivers an always-improving product with new features and better performance. viewLinc is uniquely suited to helping enterprises in GxP-regulated industries ensure their applications and environments achieve and demonstrate compliance with stringent quality guidelines and processes. From its data integrity, access controls, and encryption to its validation protocols, viewLinc provides a faster and simpler implementation of your compliant monitoring system.

Upgrading

- Only viewLinc 4.3.6 and higher can upgrade to 5.2 directly. Lower versions must first upgrade to 4.3.6.
- During upgrade, confirm list of previously provided hostnames/aliases so users can connect to viewLinc.
- ViewLinc5.2 uses Transport Layer Security (TLS) 1.3, so all Vaisala VaiNet AP10 Access Points in the installation need firmware version 4.5 or newer. AP10s version F and older must be replaced.

System requirements

- A dedicated server (virtual server is recommended) continuously available 24/7 to run viewLinc software
- At least one Vaisala data logger or transmitter
- Vaisala cables to connect data loggers and set up wireless transmitters

Continuous reliability

- Accessible via browser on any network computer or mobile device

- Runs as a Microsoft® Windows® service
- Supports UTF-8 compliant multi-byte character sets

Licensing

- License key required for each installation and determines the number of devices
- Additional licenses enable voice or SMS web notifications, Vaisala OPC UA Server integration, the viewLinc REST API, or third-party Modbus devices

Technical data

Requirements based on system size

System size in measurement points	1 … 20	21 … 400	400+
Dedicated or shared server	Either	Either	Dedicated
CPU	1.6 GHz dual core	1.6 GHz dual core	3.2 GHz quad core
RAM	8 GB	12 GB	16 GB
Disk space increase/year	1.5 GB/year for 20 data points	15 GB/year for 200 data points	75 GB/year for 1000 data points
Continuous free disk space for reports [1]	2 GB	4 GB	10 GB

1) 1 month duration with 1 minute scan/sample

Server requirements

Availability	Dedicated server (a virtual server is recommended) available 24 hours a day, 7 days a week
Server management	Connected to an uninterruptible power supply (UPS)
	A tested backup solution with support for open file backup
	Synchronizes time with a Network Time Protocol (NTP) server
Operating system	Windows Server® 2022 Windows Server® 2022 Datacenter Edition Windows Server® 2019 Windows Server® 2019 Datacenter Edition Windows Server® 2016 Windows Server® 2016 Datacenter Edition Windows® 10 Enterprise (64-bit) Windows® 11 Pro
Application disk space	350 MB
Database disk space [1]	200 KB/data point [2]/day
Network traffic [3]	Approx. 100 KB/minute/device
Web interface protocol [4]	TLS 1.3
Security certificate for web interface	Authorized TLS certificate and key [5]
Email encoding	RFC 2047
Secure email protocol	TLS 1.3

1) Not applicable to Device Host installation.
2) Data points are device channels monitoring and recording data.
3) Depends on number of devices, system configuration and type of communication devices used.
4) viewLinc 5.2 includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. http://www.openssl.org/
5) viewLinc-signed certificate and key can be generated during installation.

Client requirements

Internet browser	Google Chrome™ Microsoft® Edge™
Computer clients	Any network computer with a supported Internet browser, a minimum 2.4 GHz CPU, and 4 GB of RAM.
Display and tablet clients	Touchscreen or mouse-operated panel with a supported Internet browser. Must be connected to the same network as viewLinc Enterprise Server.

Wireless device connectivity

RFL100 series [1]	Connects using Vaisala VaiNet protocol. Requires installation of an AP10 access point.

1) VaiNet devices not available in all regions.

Wired device connectivity

DL series using vNet device	vNet Power-over-Ethernet devices are 802.3af compliant and work with both end-point and mid-span systems. viewLinc Aware automatically detects and configures vNet devices.[1] Requires vNet device drivers (provided).
DL series using single or multi-port Ethernet device	Ethernet connectivity devices must be configured with static or reserved IP addresses. If the devices are being installed on different subnets, they need to be configured before being installed. Ethernet device drivers must be installed on each server used to connect Vaisala devices.
DL series using USB cable	Connect devices directly to viewLinc Device Hosts using a USB-to-logger cable. Requires USB ports.
Modbus devices (RTU or TCP)	• Connect Modbus RTU devices directly to viewLinc Device Hosts using a USB-to-serial cable • Connect Modbus RTU devices to viewLinc over the Ethernet network using a Serial to Ethernet adapter (like a Digi PortServer) • Connect Modbus TCP devices to viewLinc over the Ethernet network RTU devices require serial COM ports. TCP devices require a static IP address.
Signal tower (light and/or buzzer)	Connect devices according to manufacturer directions. Preconfigured device settings are selectable in viewLinc. Note that you must assign a static or reserved IP address for signal towers.

1) vNet devices maintain a low power rating by operating at a network speed of 10 Mbps. To ensure your network devices can operate at different speeds, set the network speed for the connected vNet port (see vNet User Guide).

Network ports

Default	Type	Used by
80	TCP	Signal towers
389	TCP	Active Directory (less secure)
443	TCP	viewLinc web interface
502	TCP	Modbus TCP-enabled devices
636	TCP	Active Directory (secure connection)
771	TCP	vNet and multi-port Ethernet devices
950	TCP	Moxa serial-to-Wi-Fi devices
9065	UDP	viewLinc Aware service for vNet discovery
12500	TCP	Twilio web services
12600	TCP/UDP	AP10 and viewLinc device host
55000	TCP	Vaisala OPC UA Server