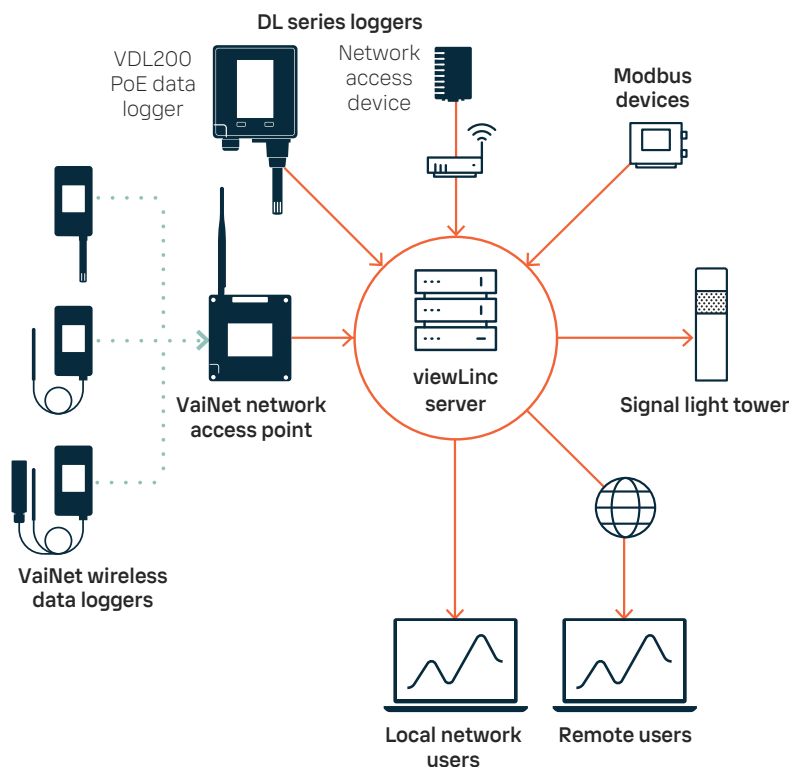




Features

- 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
- 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, Modbus devices, or any measurement device with analog inputs, using a combination of wired and wireless connections. It supports installations from one or two measurement points to large systems with thousands of locations. From its data integrity, access controls, and encryption to its validation protocols, viewLinc provides a faster and simpler implementation of your compliant monitoring system, particularly for enterprises in GxP-regulated industries following stringent quality guidelines and processes.

System requirements

- Use a continuously available dedicated server (virtual server is recommended). Don't use a desktop O/S or a laptop for critical monitoring applications.
- At least 1 Vaisala data logger or transmitter
- Vaisala cables to connect data loggers and set up wireless transmitters
- Write-caching should be disabled.

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

Upgrading

- viewLinc 4.3.6 and higher can upgrade to 5.2 directly.
- During upgrade, ensure you confirm list of previously provided hostnames/aliases.
- viewLinc uses Transport Layer Security (TLS) 1.3 as default. TLS 1.2 is still supported for AP10 Access Points using firmware version 4.4, but it's recommended to update to a newer version.

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 (virtual server recommended) available 24 hrs a day, 7 days a week
Server management	Connected to an uninterruptible power supply A tested backup solution with support for open file backup Synchronizes time with a Network Time Protocol server
Operating system	Windows Server® 2022 (incl. datacenter edition) Windows Server® 2019 (incl. datacenter edition) Windows Server® 2016 (incl. datacenter edition) Windows® 11 Pro (64-bit; non-critical applications)
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 (default)
Active Directory server	2048-bit RSA certificate

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	A network computer with a supported browser, a minimum 2.4 GHz CPU, and 4 GB RAM.
Display and tablet clients	Touchscreen or mouse-operated panel with a supported 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.
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¹⁾ VailNet devices not available in all regions.

Wired device connectivity

VDL200	Connects to a viewLinc Device Host via Ethernet after its network settings have been configured through a USB-A – USB-C cable.
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	Configure Ethernet connectivity devices with static or reserved IP addresses. If installing devices on different subnets, configure them before installing. You must also install Ethernet device drivers 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.
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
8883	TCP	VDL200
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

VAISALA

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