

Heat-tracing controller configuration and monitoring software

PRODUCT OVERVIEW

The nVent RAYCHEM Supervisor heat-tracing controller configuration and monitoring software provides a graphical user interface for nVent RAYCHEM heat-tracing communication and controller products. Heat-trace system information can be accessed and managed from almost anywhere in the world, making Supervisor a powerful management tool for the entire Heat Management System (HMS).

Network and connectivity

By using the latest network technologies, costs can be reduced. Devices are no longer limited to simple hard-wired serial communications, but take advantage of existing network infrastructures including Ethernet LANs (Local Area Networks) and Internet-based WANs (Wide Area Networks).

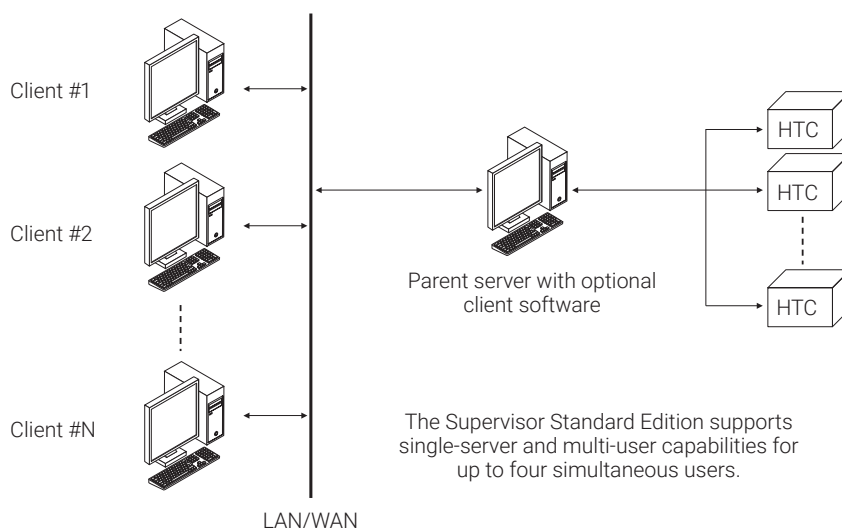
Scalability

nVent RAYCHEM Supervisor is available in two Editions – ‘Standard’ and ‘Enterprise’.

PRODUCT SPECIFICATIONS

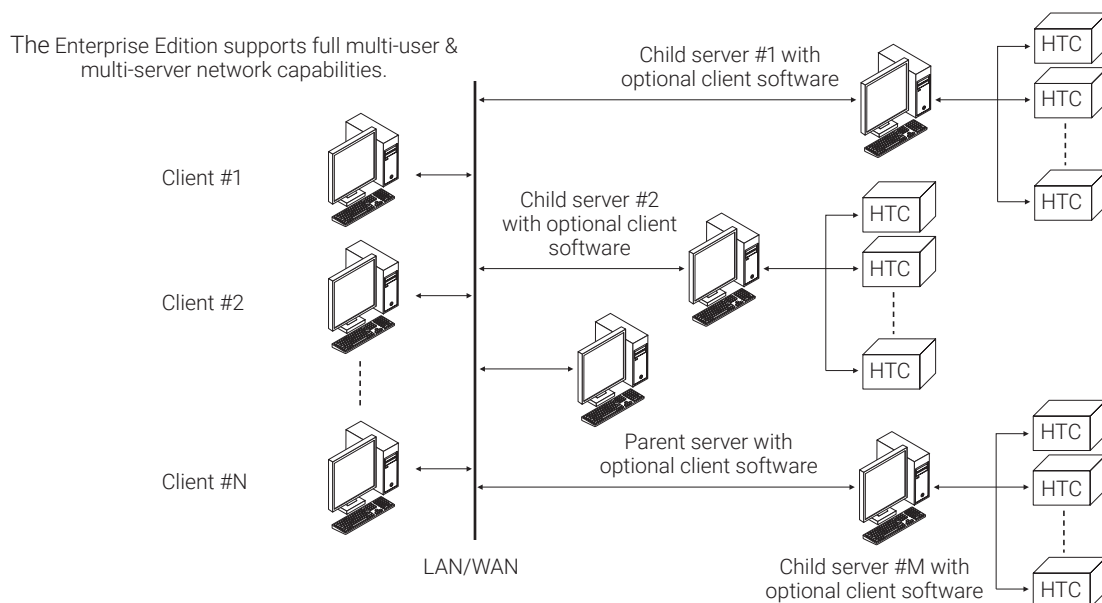
Supervisor STANDARD edition

The standard edition is a single-server multi-user version. It provides connectivity to several hundred control units in the field and can support up to four simultaneous users.



Supervisor ENTERPRISE edition

The 'Enterprise' edition offers unlimited multi-user, multi-server network capabilities, expanding on the capabilities of the 'Standard' edition. Enterprise level functionality requires the purchase of SQL server software and Microsoft Licensing.



Functionality

Device configuration	Individual devices can be configured in either offline or online mode. After confirmation, data will be uploaded into heat-tracing control devices.
Online monitoring	Monitoring online signals like temperature, ground-fault current, current, voltage of individual controllers or sets of controllers in user-defined groups.
Trending & historical data storage	User defined trending of heat-tracing data which can be stored into the database on a user-defined time interval and storage mechanism.
Alarm and events	Displayed in a separate pop-up banner where they can be individually acknowledged by the user. All alarms and events are stored in the database for post-event analyses.
Plant reference model	Organize Heat-tracing circuits via a model which represents the layout of the plant, simplifying the process of locating heat trace circuits for the entire system.
Enhanced documentation link to device configuration & monitoring utilities	Link heat-tracing circuits to design and construction documentation and makes it easily accessible to the user (examples: P&IDs, heat-tracing isometrics).
Data import & export	Export system devices and plant documentation, and save the data in an XML-format file which can also be imported.
Reports	Numerous pre-defined reports like device configurations, alarms and events (historical and current), user roles, etc.
Batch, recipes and event scheduler	Multiple pre-defined heat-trace setting changes can be executed at the same time by using the batch and recipe tool. Batches can be launched manually or automatic at a scheduled date and time or at regular intervals.
System wide data synchronisation	Synchronise continuously with the controllers in the field. Local changes in the controller will reflect in Supervisor and vice versa.
E-mail on alarm notification	Send email notifications to selected users when alarms occur.
Internal user messaging	Instantaneous communication between Supervisor clients connected to the same Supervisor network.
Multi level security and individual user defined preferences	Security is based on plant groups, users, and roles, which offers differentiation between each end-user responsibility, rights and preferences.
Languages	English, French, German, Russian, Chinese

Controller compatibility

Supervisor is compatible with any of the following nVent RAYCHEM communication and controller products that have the appropriate communications interface installed:

- Elexant 4000 series
- NGC-20
- Elexant 5010i
- NGC-30
- NGC-40 series
- HTC-900 series
- MoniTrace RMC
- NGC-UIT's
- Legacy devices (T2000 systems, GCC-9000/780, 720, 790, HTC-9000/9100/CAS HTC's)

System requirements

Parent server computer	<ul style="list-style-type: none">• A Quad core® – 2.0 GHz CPU For large systems, where multiple Child Servers are to be used, consider the use of higher speed CPU's with more processing cores and / or processing threads within the Parent Server computer for greater performance. Consult nVent Applications Engineering for guidance• 4 gigabytes of free disk space (HDD or SSD)• 8 gigabytes of RAM• Field Device connectivity, such as Ethernet or Serial RS-485 (type and quantity depend on device communication architecture)• A mouse or other compatible pointing device• A display with minimum 800x600 resolution• Standard configurations using Microsoft SQL Express: Windows 7, Windows 8 or Windows 10, either 32 or 64 bit.• Multi-User/Multi-Server Capable configurations using MS SQL Server: Microsoft Windows® Server 2012 through 2019, and Windows 7, 8, or 10 either 32 or 64 bit• Microsoft .NET® Framework version 4.0• Network connectivity
Child server computer(s) (optional)	<ul style="list-style-type: none">• A Quad core® – 2.0 GHz CPU• 4 gigabyte of free disk space (HDD or SSD)• 8 gigabytes of RAM• Field Device connectivity, such as Ethernet or Serial RS-485 (type and quantity depend on device communication architecture)• A mouse or other compatible pointing device• A display with a minimum 800x600 resolution• Microsoft Windows 7, 8 or 10• Microsoft .NET® Framework version 4.0• Network connectivity
Client computer(s)	<ul style="list-style-type: none">• A Quad core® – 2.0 GHz CPU• 2 gigabytes of free space (HDD or SSD)• 4 gigabytes of RAM• A mouse or other compatible pointing device• A display with a minimum 800x600 resolution• Windows 7, Windows 8 or Windows 10 either 32 or 64 bit• Microsoft .NET® Framework version 4.0• Network connectivity
nVent RAYCHEM Supervisor Database (Edition dependent)	<ul style="list-style-type: none">• Supervisor Standard edition runs on SQL Express• Supervisor Enterprise edition requires SQL Server

Registration

Supervisor will run in TRIAL mode for up to 14 days.

For more information about how to register within this period, see the Supervisor Installation and Operating Instructions or visit nVent.com.

Communication

Modbus RTU protocol via:

- TCP/IP
- RS-232
- RS-485

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