

Heat-tracing controller configuration and monitoring software

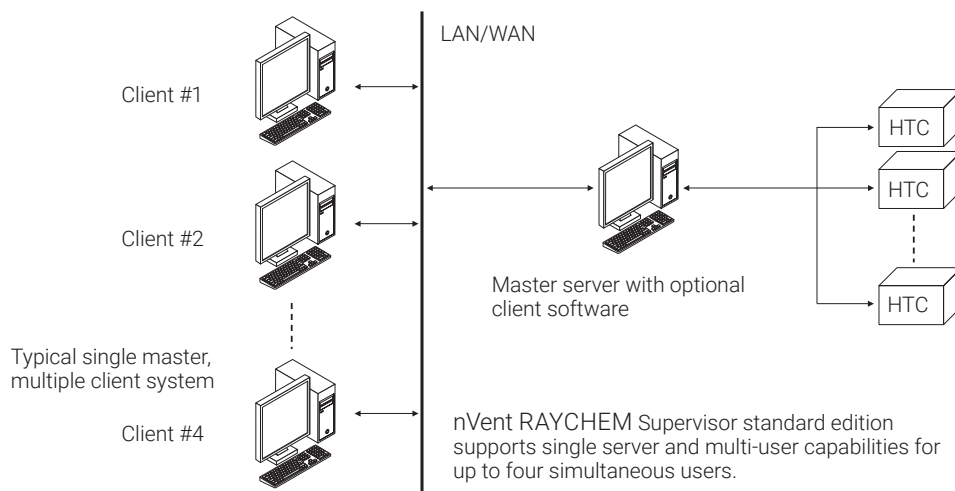
OVERVIEW

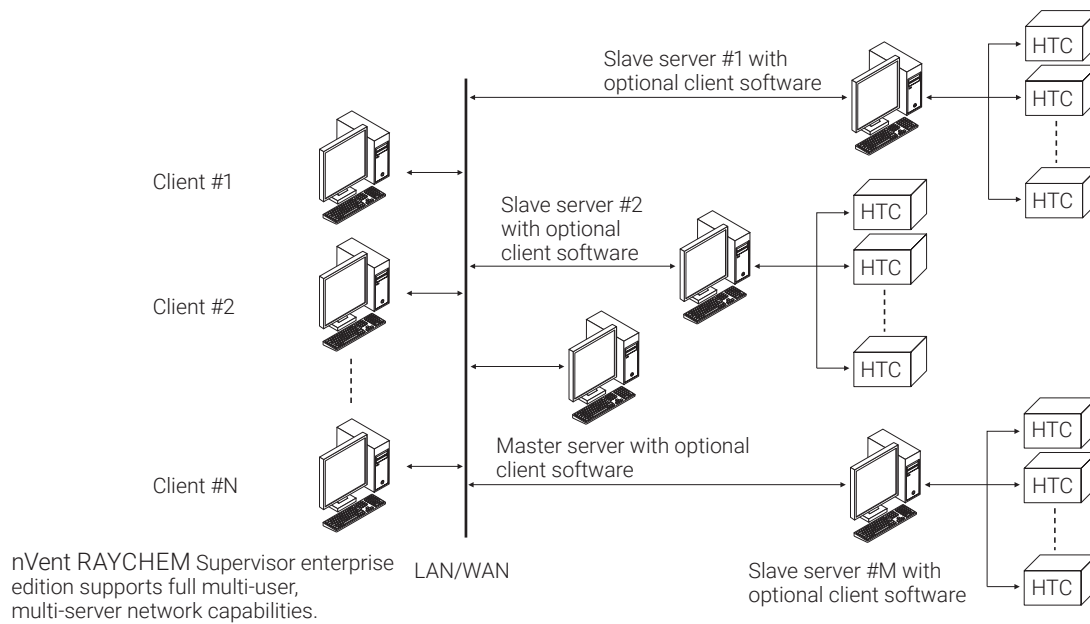
The nVent RAYCHEM Supervisor heat-tracing controller configuration and monitoring software provides a graphical user interface for nVent RAYCHEM heat-tracing communication and controller products. Heat-trace system information can be accessed and managed from almost anywhere in the world, making nVent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

NVENT RAYCHEM SUPERVISOR STANDARD EDITION





SCALABILITY

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

NVENT RAYCHEM SUPERVISOR 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	nVent RAYCHEM Supervisor is capable of 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	A trending tool offers 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	Alarms and events are displayed in a pop-up window on the screen. These can be individually acknowledged by the user. All alarms and events are stored in the database for post-event analyses.
Plant reference model	Heat-tracing circuits can be organised 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	nVent RAYCHEM Supervisor provides the ability to 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	The export function allows the user to 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 are available 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	nVent RAYCHEM Supervisor synchronises continuously with the controllers in the field. Local changes in the controller will reflect in nVent RAYCHEM Supervisor and vice versa.
E-mail on alarm notification	An E-mail service is available for sending notifications to selected users when alarms occur.
Internal user messaging	A built-in messaging tool offers the possibility to have instantaneous communication between nVent RAYCHEM Supervisor clients connected to the same nVent RAYCHEM Supervisor network.
Multi level security and individual user defined preferences	nVent RAYCHEM Supervisor 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

nVent RAYCHEM 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
- 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

Master server computer	<ul style="list-style-type: none">• A Quad core® – 2.0 GHz or faster (Recommended), Pentium®4 – 1 GHz (Minimum) computer. Large systems using multiple Slave Servers should consider the use of a higher speed/multiple processor Master Server computer for best performance. Consult nVent Applications Engineering for guidance• A hard disk with at least 4 gigabytes of free space (Recommended), 2 gigabytes (Minimum)• 8 gigabytes of RAM (Recommended), 1 gigabyte of RAM (Minimum)• One or more available serial ports• A mouse or other compatible pointing device• SVGA display with 800x600 resolution• Standard configurations using Microsoft SQL Express: Windows® XP Pro SP3, Windows Vista, Windows 7, Windows 8 or Windows 10, either 32 or 64 bit.• Multi-User/Server Capable configurations using MS SQL Server: Microsoft Windows® Server 2000 through 2017• Microsoft .NET® Framework version 4.0• Network connectivity
Slave server computer(s) (optional)	<ul style="list-style-type: none">• A Quad core® – 2.0 GHz or faster Recommended), Pentium®4 – 1 GHz (Minimum) computer. Large systems using multiple Slave Servers should consider the use of a higher speed/multiple processor Master Server computer for best performance. Consult nVent Applications Engineering for guidance• A hard disk with at least 4 gigabyte of free space (Recommended), 2 gigabytes (Minimum)• 8 gigabytes of RAM (Recommended), 1 gigabyte of RAM (Minimum)• One or more available serial ports• A mouse or other compatible pointing device• SVGA display with 800x600 resolution• Standard configurations using SQL EXPRESS : Windows XP SP3, Windows Vista SP1, Windows Server 2003 SP2, Windows Server 2008, Windows 7, 8 or 10• Multi-User/Server Capable configurations using SQL Server: Windows Server 2003, 2008, 2012, 2014, 2016, or 2017 Windows Vista SP1, Windows 7, Windows 8, or Windows 10 on computer where the SQL Server is installed• Microsoft .NET® Framework version 4.0• Network connectivity
Client computer(s)	<ul style="list-style-type: none">• A Quad core® – 1GHz or faster (Recommended), Pentium®4 – 1 GHz (Minimum) IBM compatible personal computer• A hard disk with at least 1 gigabyte of free space Recommended), 500 megabytes (Minimum)• 2 gigabytes of RAM (Recommended), 1 gigabyte of RAM (Minimum)• One or more available serial ports• A mouse or other compatible pointing device• SVGA display with 800x600 resolution• Windows XP SP3, Windows Server 2003, 2008, 2012, 2014, 2016, or 2017, Windows Vista SP1, Windows 7, Windows 8 or Windows 10• Microsoft .NET Framework version 4.0• Network connectivity
nVent RAYCHEM Supervisor Database (included in license)	<ul style="list-style-type: none">• nVent RAYCHEM Supervisor Standard edition runs on SQL Express• nVent RAYCHEM Supervisor Enterprise edition requires SQL Server

REGISTRATION

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

For more information about how to register within this period, see the nVent RAYCHEM Supervisor Heat-Tracing Controller Configuration and Monitoring Software Installation and Operating Instructions or visit nVent.com.

COMMUNICATION

Modbus RTU protocol via:

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

ORDERING DETAILS

Catalog Number	Item Name	Use Case	Included in Package
N/A	Supervisor Standard Edition	< 1000 connected devices Up to four simultaneous users	Standard installation of all main components
10391-010	Supervisor Enterprise Edition Base Package	>1000 connected devices Multi-User / Multi-Server functionality	SQL Server Software 1 Master Server license 2 Slave Server licenses 5 User licenses
10391-013	Supervisor Enterprise Edition Upgrade Package	Expand upon Base Package User and Server counts	3 Additional Slave Server licenses 7 Additional User licenses

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