

HONEYWELL OPTIMIZER SUPERVISOR

The Honeywell Optimizer Supervisor powered by the Niagara Framework® is part of the Optimizer Suite. It provides server-level functions and supportive features for a network of HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced, Honeywell Optimizer Unitary, and other field devices.

The Honeywell Optimizer Supervisor serves real-time graphical information to standard web-browser clients and performs essential functions such as analytics, centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications.



Honeywell Optimizer Supervisor

Additionally, the Honeywell Optimizer Supervisor provides a comprehensive graphical engineering toolset for application development and configuration. The Honeywell Optimizer Supervisor allows the networking of multiple Niagara-based controllers such as, HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced, and Honeywell Optimizer Unitary controllers. It enables the design, configuration, and maintenance of a unified, real-time control network.

KEY FEATURES

- Centralized system management.
- Utilize tags to quickly navigate to buildings, systems and equipment when diagnosing operational problems or emergencies.
- Compare data between buildings.
- Export system data to external databases.
- Integrate a Building Automation System (BAS) with other enterprise applications.
- Integrate with other applications, such as work order management, analytics, etc.
- Single tool used to program HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced, and Honeywell Optimizer Unitary controllers and Supervisor.
- Remotely back up HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced applications to Supervisor.
- Batch provisioning of HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced firmware upgrades, security credentials, applications and commissioning options from Supervisor.
- Robust built-in analytic capabilities supported by standard Niagara components and visualizations.
- Includes Niagara Analytics, which features data source, functional and mathematical programming blocks that enable sophisticated analytic algorithms.
- Compatibility with Niagara Enterprise Security access control and security application. Allows integration of BAS and access control to save energy and optimize operations.
- Eligible for accreditation under the Federal Risk Management Framework (RMF).
- FIPS 140-2 Level 1 conformance available.
- Extension of browser-based engineering (certificate manager, network station manager)
- SysLog integration (monitoring of network devices)
- Update of the "Haystack 4" library for improved tagging.
- Modern authentication support for email services (Microsoft 365 / Exchange and Gmail)
- Automated software installation execution of the Optimizer Supervisor installation without user input
- "Audit Trail" of database changes, database storage and backup, global time functions, calendar, central scheduling, control and energy management routines.
- Sophisticated alarm processing and routing, including email alarm acknowledging.
- Access to alarms, logs, graphics, schedules and configuration data with a standard web browser.
- Niagara follows industry best practices for cyber security, with support for features such as strong, hashed passwords, TLS for secure communications and certificate management tools for authentication. A built-in Security Dashboard provides a comprehensive and actionable view of the security posture of your Niagara deployment.
- HTML-based help system that includes comprehensive online system documentation.
- Supports multiple Niagara-based stations connected to a local Ethernet network or the internet.
- Provides online/offline use of the Niagara Framework® Workbench graphical configuration tool and a comprehensive Java Object Library.
- Optional direct Ethernet-based driver support for most Open IP field bus protocols.

SPECIFICATIONS

- Features a HTML5 and Java-enabled user interface (UI), and includes a JavaScript data interface library (BajaScript).
- Supports an unlimited number of users over the internet/intranet with a standard web browser (depending on the host PC resources).
- Optional enterprise-level data archival using SQL, MySQL or Oracle databases, and HTTP/HTML/XML, CSV or text formats

Honeywell

SOFTWARE MAINTENANCE

Purchase of a Software Maintenance Agreement (SMA) is required with initial Honeywell Optimizer Supervisor licensing. The initial SMA is for 18 months, with extended agreements of 3 years and 5 years available for discounted rates.

If a Software Maintenance Agreement is not in effect for any period, the price of maintenance for the next period for which it is purchased will be priced at a cost equal to the maintenance fee for the period(s) for which maintenance was not purchased, up to a maximum of 5 years, plus the maintenance fee for the next year.

SOFTWARE & DRIVERS

A user must purchase the correct part number (see list below) in order to use the software, along with multiple open-protocol IP drivers that are compatible with standard control networks. If required, other drivers can be purchased separately. For an up-to-date list of supported drivers, contact customer support.

ORDERING INFORMATION

Note: The following SKUs will continue to be compatible with **Arena NX** due to the backward compatibility feature of the Honeywell Optimizer Supervisor.

HONEYWELL OPTIMIZER SUPERVISOR PART NUMBERS WITH OPEN POINT LICENSES

Open points include all the point types including BACnet IP, LON, KNX-IP, M-bus, Modbus TCP, oBiX, SNMP, and CBus.

The Honeywell Optimizer Supervisor point licenses support any open system drivers including CBus. The respective drivers will be installed by the Honeywell Optimizer Supervisor setup. Use these licenses if your project contains HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced controllers.

All the basic licenses contain an initial maintenance license of 18 month.

HONEYWELL OPTIMIZER SUPERVISOR PART NUMBERS WITH OPEN POINT LICENSES		
PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-500P	CLNX-S-500P	Supervisor 500 points
CLNX-S-1250P	CLNX-S-1250P	Supervisor 1250 points
CLNX-S-2500P	CLNX-S-2500P	Supervisor 2500 points
CLNX-S-5000P	CLNX-S-5000P	Supervisor 5000 points
CLNX-S-10000P	CLNX-S-10000P	Supervisor 10000 points
CLNX-S-50000P	CLNX-S-50000P	Supervisor 50000 points
CLNX-S-100000P	CLNX-S-100000P	Supervisor 100000 points

HONEYWELL OPTIMIZER SUPERVISOR PART NUMBERS BASED ON NIAGARA NODES

The basic Honeywell Optimizer Supervisor Node licenses support any NIAGARA controllers like HON-9000, HAWK-8000, EAGLEHAWK NX, Honeywell Optimizer Advanced. (BACnet EAGLE or CBus controller are not connectable via Nodes)

HONEYWELL OPTIMIZER SUPERVISOR PART NUMBERS BASED ON NIAGARA NODES		
PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-1N-200PP	LNK-S-1N-200P	Supervisor - Honeywell Optimizer Advanced with 200 proxy points. Does not support the Point List View
CLNX-S-5N	CLNX-S-5N	Supervisor - 5 Honeywell Optimizer Advanced
CLNX-S-10N	CLNX-S-10N	Supervisor - 10 Honeywell Optimizer Advanced
CLNX-S-100N	CLNX-S-100N	Supervisor - 100 Honeywell Optimizer Advanced
CLNX-S-UNLN*	CLNX-S-UNLN	Supervisor - unlimited number of Honeywell Optimizer Advanced

Note: Licenses of FOX nodes are indicated by the suffix "N" in the part number

* Request the price to your regional sales manager

HONEYWELL OPTIMIZER SUPERVISOR UPGRADE LICENSES

The base point and node licenses can be upgraded with any of the following point or node upgrades. Upgrades do not affect Maintenance Extension licenses, which are always dependent on the base license.

HONEYWELL OPTIMIZER SUPERVISOR UPGRADE LICENSES		
PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-500P-UP	SUP-DEVICE-10	Add driver capacity 500 points
CLNX-S-1250P-UP	SUP-DEVICE-25	Add driver capacity 1250 points
CLNX-S-2500P-UP	SUP-DEVICE-50	Add driver capacity 2500 points
CLNX-S-5000P-UP	SUP-DEVICE-100	Add driver capacity 5000 points
CLNX-S-10000P-UP	SUP-DEVICE-200	Add driver capacity 10000 points
CLNX-S-25000P-UP	SUP-DEVICE-500	Add driver capacity 25000 points
CLNX-S-50000P-UP	SUP-DEVICE-1000	Add driver capacity 50000 points
CLNX-S-1N-UP	SUP-UP-1	Add 1 Honeywell Optimizer Advanced
CLNX-S-1N-200PP-UP	SUP-UP-1-200P	Add 1 Honeywell Optimizer Advanced with 200 proxy points. Adds another 200 proxy points to the license and does not care from where these points are connected. So one controller could have 100 points and the other 300 points.
CLNX-S-10N-UP	10 X SUP-UP-1	Add 10 Honeywell Optimizer Advanced
CLNX-S-100N-UP	SUP-UP-100	Upgrade to 100 Honeywell Optimizer Advanced
CLNX-S-UNLN-UP*	SUP-UP-UNL	Upgrade to unlimited Honeywell Optimizer Advanced

* Contact your regional sales manager for a price quote

HONEYWELL OPTIMIZER SUPERVISOR UPGRADES

This section describes the available Supervisor options for upgrading Honeywell Optimizer Supervisor licenses. Please refer to the part numbers list. Models based on CLNX-S-5N and CLNX-S-10N are all referred to as Small Building Supervisors.

- Small building supervisors can be upgraded with additional nodes CLNX-S-1N-UP (SUP-UP-1), CLNX-S-10N-UP (10 x SUP-UP-1), and CLNX-S-100N-UP (SUP-UP-100).
- If CLNX-S-100N-UP (SUP-UP-100) is used, the model is changed to a CLNX-S-100N (SUP-100) based model and all options are retained.
- If CLNX-S-UNLN-UP (SUP-UP-UNL) is used, the model changes to a CLNX-S-UNLN (SUP-UNL) based model, and all options are retained.

HONEYWELL OPTIMIZER SUPERVISOR UPGRADES					
MODEL	CLNX-S-1N-UP (SUP-UP-1)	CLNX-S-1N-200PP-UP (SUP-UP-1-200P)	CLNX-S-100N-UP (SUP-UP-100)	CLNX-S-UNLN-UP (SUP-UP-UNL)	COMMENT
CLNX-S-XXXP	Yes	Not possible	Yes	Not possible	Switches CLNX-S-XXXP to CLNX-S-100N
CLNX-S-1N-200PP	Yes (Update by 1 Node / no additional Points)	Yes	Not possible	Not possible	
CLNX-S-5N	Yes	Not possible	Yes	Not possible	CLNX-S-100N-UP switches to CLNX-S-100N
CLNX-S-10N	Yes	Not possible	Yes	Not possible	CLNX-S-100N-UP switches to CLNX-S-100N
CLNX-S-100N	Yes	Not possible	Not possible	Yes	CLNX-S-1UNLN-UP switches to CLNX-S-UNLN
CLNX-S-UNLN	Not possible	Not possible	Not possible	Not possible	

Example:

Initial purchase of:

CLNX-S-5N + SUP-DEVICE-10.

Now you have a supervisor with **5** connections to Honeywell Optimizer Advanced and **500** open points, **18** months SMA from initial purchase date.

Later, buy upgrade:

2 x CLNX-S-1N-UP, no further SMA purchase at this point.

Now you have a supervisor with **7** connections to Honeywell Optimizer Advanced and 500 open points, 18 months SMA from initial purchase date.

Later, buy additional SMA for 1 year:

CLNX-1N-SMA-1Y.

Now you have a supervisor with 7 connections to Honeywell Optimizer Advanced and 500 open points, **30** months SMA from initial purchase date.

Later, buy upgrade:

CLNX-S-100N-UP.

Now you have a supervisor with **102** connections to Honeywell Optimizer Advanced and 500 open points, 30 months SMA from initial purchase date.

Notes:

- Model has switched from **CLNX-S-5N** to **CLNX-S-100N**, options retained for added 2 connections and 500 points.
- The SMA is always based on the capacity at the time the SMA is purchased, and will run from the expiry date of any previous SMA.

Later, buy SMA for 1 year:

CLNX-100N-SMA-1Y.

Now you have a Supervisor with 102 connections to Honeywell Optimizer Advanced and 500 open points, **42** months SMA from initial purchase date.

UPGRADE MATRIX FOR BASIC NODE AND POINT LICENSES				
EXTENDED WITH BASE MODEL	CLNX-S-500P-UP CLNX-S-2500P-UP CLNX-S-5000P-UP CLNX-S-10000P-UP CLNX-S-50000P-UP	CLNX-S-1N-200PP-UP	CLNX-S-1N-UP CLNX-S-10N-UP	CLNX-S-100N-UP
CLNX-S-1N-200PP	Yes	Yes	Yes (Update by 1(10) Node(s) / no additional Points)	No
CLNX-S-5N*	Yes	No	Yes	Yes – switches the license model to 100N results in 100 Nodes' total capacity
CLNX-S-10N	Yes	No	Yes	Yes, switching the license model to 100N results in 100 Nodes' total capacity
CLNX-S-100N	Yes	No	Yes	No
CLNX-S-XXXP	Yes	No	Yes	Yes, switches the license model to 100N Results in changed base model 100 Nodes + XXX points

* **CLNX-S-5N** is a combination of a one-node basic license and four-node upgrades.

When switching to new model (**10/100/UNL**), the four-node upgrades are not kept as **CLNX-S-5N** is to be considered as one separate model.

HONEYWELL OPTIMIZER SUPERVISOR MAINTENANCE LICENSES

- To receive additional maintenance and upgrade functionality after the initial maintenance license for the base point/node license expires, you may purchase one of the following maintenance extensions, as listed in the following tables.
- If you do not purchase a maintenance extension, the Supervisor will continue to run, but you will not be able to update your software with maintenance releases.
- This means that Maintenance Extensions are cumulative and always start when the previous Maintenance Extension ends. If you purchase additional Maintenance Extensions after you have a gap in your Maintenance period, the Maintenance Extension will fill those gaps.

Example:

Your initial maintenance has expired for 3 years. Now you purchase a 5 year maintenance extension. Your 3 year gap is filled and you get another 2 years of maintenance updates. If you immediately add another 1-year maintenance extension, you will benefit from another 3 years of maintenance updates (if you buy a 5-year SMA and shortly after a 1-year SMA, you will have a total of 3 years because you had a 3-year gap before: $5+1=6$; $6-3$ (gap) = 3).

HONEYWELL OPTIMIZER SUPERVISOR MAINTENANCE LICENSES FOR POINT LICENSES		
PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-P-SMA-1Y	SUP-0-SMA-1YR	SUP-P maintenance 1-year extension
CLNX-P-SMA-3Y	SUP-0-SMA-3YR	SUP-P maintenance 3-year extension
CLNX-P-SMA-5Y	SUP-0-SMA-5YR	SUP-P maintenance 5-year extension

To receive additional maintenance and upgrade features after the initial maintenance license for the base point license expires, you can purchase one of the above maintenance extensions. Maintenance licenses are always tied to the base version you originally purchased (order numbers ending with *P.)

SMA UPGRADE MATRIX FOR BASIC POINT LICENSES	
BASE MODEL	SMA
CLNX-S-500P CLNX-S-2500P CLNX-S-5000P CLNX-S-10000P CLNX-S-50000P	CLNX-P-SMA-xY

x = 1;3;5

HONEYWELL OPTIMIZER SUPERVISOR MAINTENANCE LICENSES FOR NODE LICENSES		
PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-1N-SMA-1Y	SUP-1-SMA-1YR	SUP-1N maintenance 1-year extension
CLNX-1N-SMA-3Y	SUP-1-SMA-3YR	SUP-1N maintenance 3-year extension
CLNX-1N-SMA-5Y	SUP-1-SMA-5YR	SUP-1N maintenance 5-year extension
CLNX-10N-SMA-1Y	SUP-10-SMA-1YR	SUP-10N maintenance 1-year extension
CLNX-10N-SMA-3Y	SUP-10-SMA-3YR	SUP-10N maintenance 3-year extension
CLNX-10N-SMA-5Y	SUP-10-SMA-5YR	SUP-10N maintenance 5-year extension
CLNX-100N-SMA-1Y	SUP-100-SMA-1YR	SUP-100N maintenance 1-year extension
CLNX-100N-SMA-3Y	SUP-100-SMA-3YR	SUP-100N maintenance 3-year extension
CLNX-100N-SMA-5Y	SUP-100-SMA-5YR	SUP-100N maintenance 5-year extension
CLNX-UNL-SMA-1Y	SUP-UNL-SMA-1YR	SUP-UNLN maintenance 1-year extension
CLNX-UNL-SMA-3Y	SUP-UNL-SMA-3YR	SUP-UNLN maintenance 3-year extension
CLNX-UNL-SMA-5Y	SUP-UNL-SMA-5YR	SUP-UNLN maintenance 5-year extension

To receive additional maintenance and upgrade features after the initial maintenance license for the base node license expires, you can purchase one of the maintenance renewals listed in the above table.

SMA UPGRADE MATRIX FOR BASIC NODE LICENSES

BASE MODEL	SMA
CLNX-S-1N-200PP	CLNX-1N-SMA-xY
CLNX-S-5N	CLNX-1N-SMA-xY
CLNX-S-10N	CLNX-10N-SMA-xY
CLNX-S-100N	CLNX-100N-SMA-xY
CLNX-S-UNLN	CLNX-UNLN-SMA-xY

x = 1;3;5

NOTE:

- Maintenance licenses are always tied to the initial base node versions indicated by the "N" in the part number.
- Any license upgraded to 100 nodes requires the (SUP-100N) maintenance extension.
- Any license upgraded to unlimited nodes requires the UNL maintenance extension.

HONEYWELL OPTIMIZER SUPERVISOR DATABASE DRIVERS FOR EXTERNAL DATABASE APPLICATIONS

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-DR-S-MYSQL	DR-S-DB-MYSQL	Driver for MYSQL database
CLNX-DR-S-ORCL	DR-S-DB-ORCL	Driver for ORCL 11G database
CLNX-DR-S-SQL	DR-S-DB-SQL	Driver for SQL database
CLNX-DR-S-CSV	DR-S-DB-CSV	Driver for CSV database

HONEYWELL OPTIMIZER SUPERVISOR FIDELIO DRIVER

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-DR-MFID	DR-MFID	FIDELIO driver for Honeywell Optimizer Supervisor

HONEYWELL OPTIMIZER SUPERVISOR JSON DRIVER

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-JSON	DR-S-JSON	JSON driver for Honeywell Optimizer Supervisor

HONEYWELL OPTIMIZER SUPERVISOR HTTP DRIVER

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-HTTP	DR-S-HTTP	HTTP service interaction

HONEYWELL OPTIMIZER SUPERVISOR OPENADR DRIVER

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-OPENADR	DR-S-OADR	Open ADR driver for Honeywell Optimizer Supervisor

HONEYWELL OPTIMIZER SUPERVISOR ALARM CONSOLE

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-ALM-PORTALB	CLNX-ALM-PORTAL	Honeywell Optimizer Supervisor alarm portal

HONEYWELL OPTIMIZER SUPERVISOR VIDEO DRIVER

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-MLS-16	DR-S-MLS-16	MILESTONE 16 CAMERA DRIVER
CLNX-S-MAXP-16	DR-S-MAXP-16	MAXPRO 16 CAMERA DRIVER
CLNX-S-AXIS-16	DR-S-AXIS-16	AXIS 16 CAMERA DRIVER

HONEYWELL OPTIMIZER SUPERVISOR LDAP

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-LDAP	DR-S-LDAP	LDAP DB INT, SUPERVISOR. CARD HOLDER DB

HONEYWELL OPTIMIZER SUPERVISOR ANALYTICS

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-NA-250	NA-S-N4-250	LICENSE 250 ANALYTIC POINTS
CLNX-S-NA-1000	NA-S-N4-1000	LICENSE 1000 ANALYTIC POINTS
CLNX-S-NA-10000	NA-S-N4-10000	LICENSE 10000 ANALYTIC POINTS

HONEYWELL OPTIMIZER SUPERVISOR E-SIGNATURE

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-ESIG-N1K	ESIGN-S-N4-1000	E-Sign Applic 1000 secured points
CLNX-S-ESIGN-UP-1K	CLNX-S-ESIGN-UP-1K	E-Sign add 1000 secured points
CLNX-S-ESIGN-UNL	ESIGN-S-N4-UNL	E-Sign Applic. Unlimited secure points

Note: E-Signature works with all standard Niagara points using only the proxy extension. If an additional connection is used, such as the virtuals, E-Signature will not support it.

- No support for CBus, Panel-Bus, Onboard IO and BACnet utilities (Native BACnet is supported)

HONEYWELL OPTIMIZER SUPERVISOR CLOUD

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-NCLOUD-S500	DR-NCLOUD-SEN500	NIAGARA CLOUD SENTIENCE 500 POINTS
CLNX-S-NCLOUDS2500	DR-NCLOUD-SEN2500	NIAGARA CLOUD SENTIENCE 2500 POINTS
CLNX-S-NCLOUD-S10K	DR-NCLOUD-SEN10000	NIAGARA CLOUD SENTIENCE 10000 POINTS

HONEYWELL OPTIMIZER SUPERVISOR EASY HEALTHY BUILDING DASHBOARD

PART NUMBER	LICENSE KEY	DESCRIPTION
CLNX-S-HBDS1	HBDS1	2 zones 1 year
CLNX-S-HBDS3	HBDS3	2 zones 3 years
CLNX-S-HBDM1	HBDM1	5 zones 1 year
CLNX-S-HBDM3	HBDM3	5 zones 3 years
CLNX-S-HBDE1	HBDE1	Unlimited zones 1 year
CLNX-S-HBDE3	HBDE3	Unlimited zones 3 years

HONEYWELL OPTIMIZER SUPERVISOR HIT

PART NUMBER	DESCRIPTION
CLNX-HIT-1	1 by HonImportTool imported CARE project on Niagara NX controller station
CLNX-HIT-10	10 by HonImportTool imported CARE projects on Niagara NX controller station
CLNX-HIT-100	100 by HonImportTool imported CARE projects on Niagara NX controller station
CLNX-HIT-500	500 by HonImportTool imported CARE projects on Niagara NX controller station
CLNX-HIT-1000	1000 by HonImportTool imported CARE projects on Niagara NX controller station

ENERGY MANAGER	
PART NUMBER	DESCRIPTION
CLNXEMC12	Energy Manager License, Controller Base , 12 meter points
CLNXEMS25	Energy Manager License, Supervisor Base, 25 meter points
CLNXEMS50-UP	Energy Manager License, Supervisor Base, extension about 50 meter points
CLNXEMS100-UP	Energy Manager License, Supervisor Base, extension about 100 meter points
CLNXEMS500-UP	Energy Manager License, Supervisor Base, extension about 500 meter points
CLNXEMS1K-UP	Energy Manager License, Supervisor Base, extension about 1000 meter points
CLNXEMS5K-UP	Energy Manager License, Supervisor Base, extension about 5000 meter points

HONEYWELL OPTIMIZER WORKBENCH / COACH NX (COACH AX) ENGINEERING LICENSES

CLNXENG is the license to activate the engineering software Honeywell Optimizer Workbench and COACH NX (COACH AX). The engineering license is required once per “workstation” (engineer’s PC).

In order to have an active engineering license, each company must have purchased the system integrator license (CLNXCOACHSI) and renew it each year before March 31st.

All existing engineering licenses will be renewed by ordering the CLNXCOACHSI annual license fee.

This means each company needs:

- 1x CLNXCOACHSI (per company and year)
- 1x CLNXENG for every new engineer’s workplace PC (one-time payment; renewals covered by CLNXCOACHSI)

HONEYWELL OPTIMIZER WORKBENCH / COACH NX (COACH AX) ENGINEERING LICENSES		
PART NUMBER	LICENSE KEY	DESCRIPTION
CLNXCOACHSI-STK5	SUP-RENCON + 5 x CLAXDEMO	Starter kit CLAX/ CLNX with 5 engineering licenses.
CLNXCOACHSI-STK1	SUP-RENCON + 1 x CLAXDEMO	Starter kit CLAX/ CLNX with 1 engineering license.
CLNXCOACHSI	SUP-RENCON	CLAX/ CLNX engineering tool annual license fee; If customers with existing Niagara Central accounts order this part, all their existing engineering licenses will be renewed, but they will not get additional ones. For additional licenses they will have to order CLNXENG.
CLAXCOACHSI1M*	SUP-MONTHCON + No license*	CLAX/ CLNX engineering tool monthly license fee. Attention: you must purchase CLNXENG for every engineering PC. This part can be ordered only for new Niagara Central accounts. Users which already have an account but have not renewed it, ordering CLNXCOACHSI-STK (1/5) or CLNXCOACHSI, cannot purchase the monthly license.
CLNXENG	CLAXDEMO	CLAX/ CLNX engineering license.

* You must order CLNXENG

COMPATIBILITY

In any given Niagara system, the Honeywell Optimizer Supervisor must be running the highest version of any Niagara instance in the architecture.

Existing systems, which have been realized with ARENA NX (an older version of Niagara), can be extended in the usual way with the Honeywell Optimizer Supervisor SKUs listed in the previous sections.

When connecting to N4-based Controllers that are running older versions of Niagara 4, these compatibility guidelines apply:

- **ARENA AX:** Honeywell Optimizer Supervisor can connect to controller running ARENA-AX versions 3.8 and higher.
- **ARENA NX:** Honeywell Optimizer Supervisor can connect to controller running ARENA-NX versions 4.0 and higher.
- **R2:** Honeywell Optimizer Supervisor can connect to Optimizer Advanced running R2 through the oBIX XML interface only.

PLATFORM REQUIREMENTS

Honeywell Optimizer Supervisor may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc

PLATFORM REQUIREMENTS FOR HONEYWELL OPTIMIZER SUPERVISOR	
PARAMETERS	SPECIFICATIONS
Processor	Intel Pentium Core 2 Duo, 2GHz
Operating System	- Windows 11 and 10 (64-bit) - Windows Server 2022, 2019, and 2016 - Red Hat Enterprise Linux 7 (64-bit) - Red Hat Enterprise Linux 8.x 64-bit - Red Hat Enterprise Linux 8.7(Supervisor only) - Ubuntu Desktop & Server 20.04 LTS - Ubuntu 22.04 - VMware - ESXi 6.7
Mobile Operating Ststem	- Android 8 Oreo - Android 9 Pie - Android 10 (Queen Cake) - iOS 12 - iOS 13
Browser	- Google Chrome - Mozilla Firefox - Microsoft Edge - Niagara Web Launcher
Mobile Browser	- Safari on iOS, - Chrome on Android (v85)
Relational Database (Optional)	- MySQL Server 8.0 (mysql-connector-java-8.0.20,8.0.25) - MS SQL Server 2016 (13.0) - MS SQL Server 2017 (14.0) - MS SQL Server 2019 (15.0) - Oracle (SQL) 12c.1/2 - Oracle (SQL) 18c - Oracle (SQL) 19c(LTS) - Niagara System DB Orient v3
RAM Memory	2GB, with 8GB recommended if a 64-bit installation
Hard Drive Space	2GB available, 10GB recommended for any Supervisor
Display	Video card and monitor capable of displaying 1024 x 768 pixel resolution, 1080p (1920 x 1080) minimum resolution recommended
Network Support	Ethernet 100 Mbit or 1Gbit NIC (network interface card) with TCP/IP support
Container Engine (for Containerized Supervisors)	Docker
Connectivity	Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem) and Ipv6 compliant.

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