Honeywell

Honeywell WEBs–N4

Software Release Bulletin

Version 4.11.0.142

1 Release Summary

Honeywell WEBs-N4.11.0.142 release consists of WEBs-N4 software builds, WEBs-N4 Alarm Portal, and WEBs Enterprise Security N4.11.0.142.

Product	Description
WEBs-N4.11.0.142	WEBs-N4.11.0.142 includes Niagara historical database and Workplace N4. Also, includes oBIX client/server driver for connecting to Niagara based controllers.
WEBs-N4 Alarm Portal	WEBs-N4 Alarm Portal console client supports Niagara alarm monitoring. No separate server is required to use WEBs-N4 Alarm Portal.
WEBs Enterprise Security N4.11.0.142	The WEBs-N4.11.0.142 Enterprise Security brings updated cyber security and visualization enhancements included in the WEBs-N4.11 framework release to customers. Allows integration of BAS and access control to save energy and optimize operations. Version upgrades are available for the purchase of a software maintenance agreement, or an active software maintenance agreement.

1.1 Enhancements in Honeywell WEBs-N4.11.0.142 Workbench

- **Archive History Provider:** The Archive History Provider streamlines access to years of historical Niagara data stored in a relational database (RDB) for rapid visualization and analysis. With the Archive History Provider, customers can seamlessly baseline years of historical trends against new data, thereby enabling more information-rich analyses of equipment operation, while also improving the systems' overall efficiency.

- **WebWiresheet**: WebWiresheet is an HTML5 browser-based configuration tool which extends the functionality of the existing Wiresheet application in Workbench. This new application view removes the need for a thick-client Workbench when configuring wiresheet logic, as you can now login to the station via a browser to perform any necessary logic configuration changes. Even more, you can now use a tablet to make wiresheet changes.

- **Alarm Archive Provider**: With this new WEBs-N4.11 feature, cleared alarms using the Alarm Orion Service will persist in a station during a loss of connectivity with your RDB. Upon reconnection, the Archive Alarm Provider will update your database tables with the application records, thus enhancing the stability of your building systems.

- **BACnet/SC**: BACnet Secure Connect (BACnet/SC), a new datalink layer option introduced by ASHRAE® in 2019, addresses modern IP infrastructure and IT security requirements related to existing building controls networks. This exciting new protocol is now available in WEBs-N4.11. Just open the BACnet palette to get started! The WEBs-N4.11 implementation of BACnet/SC supports the following functionality:

  o WEBs-N4 Supervisor as a Hub

  o WEB-8000® as a Hub

  o WEBs-N4 Supervisor as a Node Switch

  o WEB-8000 as a Node Switch

- **TLS 1.3**: A new Transport Layer Security mechanism has been added in WEBs-N4.11 to support BACnet/SC.

- **Interpolate Tail Functionality in WebChart**: This new feature in WebChart displays an interpolate tail for line, bar, and shade graphs.

- **Photo ID**: New for WEBs Enterprise Security™ customers, this HTML5 view enables a user to easily capture, crop and save photos used for ID card creation. The Card Template Manager has also been updated to eliminate Java dependencies.
- **Provisioning Enhancements**: You can now edit provisioning steps in WEBs-N4.11. This is a time-saver when you need to correct a mistake in a provisioning job or when you want to port the same provisioning process to a different site with different configurations. In both cases, you can start with a copy, edit as needed, and then rerun the job array. You'll gain valuable time that would otherwise be spent running another job step.

1.2 Enhancements in WEBs Enterprise Security™ 4.11

WEBs Enterprise Security 4.11 brings updated cyber security and visualization enhancements included in the WEBs-N4.11 framework release to customers of WEBs Enterprise Security. All WEBs Enterprise Security customers with an active software maintenance agreement can download the version upgrade. To purchase a WEBs Enterprise Security software maintenance agreement, contact your Honeywell Sales representative or Customer Care / Licensing .

PhotoID viewer has been updated to use HTML5 in the browser UI. The PhotoID viewer compares a badge photo with live video for visual verification and can add an extra level of security for sensitive or high-security areas.

A Niagara Touch wall-mounted display is now available. This versatile display is a functional replacement for an access-security intrusion keypad and can also be used for other applications such as environmental and lighting control, alarm annunciation, and informational display. The WEBs-N4.11 build includes a sample PX page configured for intrusion keypad functionality.

1.3 Supporting Tools

Following are the tools supporting Honeywell WEBs-N4.11.0.142 release:

Tools	Version	Tools	Version
AX Wizards Tool	4.11.0.6.159	Spyder Model 5 Tool	4.11.0.2.2.2.38
BACnet FFT	4.11.0.3.2.10	Spyder Tool	4.11.0.9.4.50
CIPer Model 10	4.11.0.142	Stryker Tool	4.11.0.6.0.44
CIPer Model 30	4.11.0.1.2.365	Sylk Actuator Analytics	4.10.0.154.1
CIPer Model 50	4.11.0.3.2.36	TC500 Wizard	4.11.0.142.1.23
Healthy Building Dashboard	1.4.15	Venom Tool	4.11.0.9.4.50

The WEBs-N4 Software can be downloaded from Honeywell Buildings Forum. A license is required to use this software, which can be obtained from your distributor.

1.4 WEBs-N4.11.0.142 Software Modules

Tools	Module	Description	Version
AX Platinum	honeywellAXPlatinum	AX Platinum Graphics Library	4.11.0.10
	honeywellAXPlatinumHR	AX Platinum Hi-Res Graphics Library	4.11.0.9
	themeHoneywell-ux	WEBS Brand Theme module	4.11.0.1.1.19
AX Wizards	docHoneywell	Help Files for AXWizards	4.11.0.6.159
	lonhoneywellAXWizards	Wizard-based configuration of Honeywell devices	4.11.0.6.159
BACnet FFT	honeywellTB3026BWizard	Module for Honeywell BACnet FF wizard	4.11.0.3.2.10
	BACnetFFTN4-rt	Firmware Download Tool	4.10.0.1.0.20210513.1
BACnet Utility Restore	honUtilityBacRestore-rt	Restore a BACnet IP interface for a supervisor	4.8.0.110.1.7
BACnet Utilities	honBACnetUtilities-rt	Honeywell BACnet Utilities	4.11.0.142.4
BACnet Remote Configuration	honRemoteConfig-rt	Honeywell Remote Configuration Tool	4.6.1.1.0

Tools	Module	Description	Version
Tool			
BACnet Remote Configuration Tool	honRemoteConfigBacnet-rt	Honeywell Remote Configuration Tool for BACnet	4.6.1.1.0
CARE Import	CareImportWizard-rt	CARE Import Wizard	4.9.0.198.114
	CareImportWizard-wb	CARE Import Wizard	4.9.0.198.114
CIPer Model 10	edgeIo-rt	Edge I/O driver	4.11.0.142
	edgeIo-wb	Edge I/O driver	4.11.0.142
CIPer Model 30 and kit Cat	docHoneywellFunctionBlocks-doc	Function Block guide	4.11.0.1.2.365
	docHoneywellSylkDevice-doc	Sylk device help documents	4.11.0.1.2.64
	docIPCProgrammingTool-doc	IP controller programming tool guide	4.11.0.1.2.365
	honeywellFunctionBlocks-rt	Function block library	4.11.0.1.2.365
	honeywellFunctionBlocks-ux	UX widgets and field editors for function block library	4.11.0.1.2.365
	honeywellFunctionBlocks-wb	AX widgets and field editors for function block library	4.11.0.1.2.365
	honeywellSylkDevice-rt	Sylk device configuration module	4.11.0.1.2.64
	honeywellSylkDevice-ux	UX widgets and field editors for Sylk devices	4.11.0.1.2.64
	honeywellVersionManager-rt	Helper module to manage WEBs-N4 tool version	4.11.0.1.1.22
	ipcBaseDriver-rt	CIPer Model 30 base board communication	4.11.0.1.2.42
	ipcCommBus-rt	CIPer Model 30 communication network	4.11.0.1.2.365
	ipcCommBus-wb	CIPer Model 30 communication network	4.11.0.1.2.365
	ipcMigrator-wb	Migrate Spyder applications	4.11.0.1.2.365
	ipcProgrammingTool-rt	IP controller programming tool components	4.11.0.1.2.365
	themeHoneywell-ux	WEBs Brand Theme module	4.11.0.1.1.19
	kitCat-doc	Document for Balancing Honeywell controllers	4.10.1.10.6.21
	kitCat-rt	Balancing Tool for Honeywell controllers	4.10.1.10.6.21
	kitCat-ux	Balancing Tool for Honeywell controllers	4.10.1.10.6.21
	kitCat-wb	Balancing Tool for Honeywell controllers	4.10.1.10.6.21
CIPer Model 50	CentralineAhuPx-wb	Centraline AHU Graphics	4.3.58.24.1
	CentralineHtgPx-wb	Centraline Heating Plant Graphics	4.3.58.24.1
	clHVACAirConditioning-doc	HVAC control macro library: Air Conditioning	4.8.0.110.51
	clHVACAirConditioning-rt	HVAC control macro library: Air Conditioning	4.8.0.110.51
	clHVACChiller-doc	HVAC control macro library: Chiller	4.8.0.110.51
	clHVACChiller-rt	HVAC control macro library: Chiller	4.8.0.110.51
	clHVAC-doc	Eagle control primitives	4.4.94.14.1.10
	clHVACEnergyManagement-doc	HVAC control macro library: Energy Management	4.8.0.110.51
	clHVACEnergyManagement-rt	HVAC control macro library: Energy Management	4.8.0.110.51
	clHVACGeneral-doc	HVAC control macro library: General	4.8.0.110.51
	clHVACGeneral-rt	HVAC control macro library: General	4.8.0.110.51
	clHVACHeating-doc	HVAC control macro library: Heating	4.8.0.110.51
	clHVACHeating-rt	HVAC control macro library: Heating	4.8.0.110.51
	clHVACNordicAirCondition-doc	HVAC control macro library: Nordic Air Conditioning	4.8.0.110.51
	clHVACNordicAirCondition-rt	HVAC control macro library: Nordic Air Conditioning	4.8.0.110.51
	clHVACNordicGeneral-doc	HVAC control macro library: Nordic General	4.8.0.110.51

Tools	Module	Description	Version
	clHVACNordicGeneral-rt	HVAC control macro library: Nordic General	4.8.0.110.51
	clHVACRoomControl-doc	HVAC control macro library: Room Control	4.8.0.110.51
	clHVACRoomControl-rt	HVAC control macro library: Room Control	4.8.0.110.51
	clHVAC-rt	Eagle control primitives	4.4.94.14.1.10
	clHVAC-wb	Eagle control primitives	4.4.94.14.1.10
	clOnboardIO-rt	Onboard-IO Driver	4.11.0.3.2.36
	clOnboardIO-wb	Onboard-IO Driver	4.11.0.3.2.36
	clPanelBus-rt	Panelbus serial driver	4.11.0.3.2.36
	clPanelBus-wb	Panelbus serial driver	4.11.0.3.2.36
	honEagleHawkHMI-rt	Human Machine Interface	4.11.0.3.2.36
	honEagleHawkHMI-ux	Human Machine Interface	4.11.0.3.2.36
	honEagleHawkHMI-wb	Human Machine Interface	4.11.0.3.2.36
	honTagDictionary-rt	Generate station model based on HBT Ontology	4.11.0.3.2.36
	platPanelbus-rt	Panelbus Platform Service	4.11.0.3.2.36
clCBus	clCBus-doc	clCBus document	4.11.0.142.4
	clCBus-rt	clCBus Utilities	4.11.0.142.4
	clCBus-ux	clCBus Utilities	4.11.0.142.4
	clCBus-wb	clCBus Utilities	4.11.0.142.4
Electronic Signature	electronicSignatureRemote-rt	To secure object in WEBs-N4	4.11.0.142.5
	electronicSignature-rt	To secure object in WEBs-N4	4.11.0.142.5
	electronicSignature-ux	To secure object in WEBs-N4	4.11.0.142.5
	electronicSignature-wb	To secure object in WEBs-N4	4.11.0.142.5
Healthy Building Dashboard	easyHealthyBuilding-rt	Healthy Building Dashboard modules	1.4.15
	easyHealthyBuilding-ux	Healthy Building Dashboard modules	1.4.15
	easyHealthyBuilding-doc	Healthy Building Dashboard modules	1.4.15
Kit Px Building	kitPxBuilding-wb	Image Module for WEBs-N4	4.11.0.2
Lonsock Client Interface	honLonsockClient-rt	Connect Lonsock Rni Interfaces	4.6.96.28.3.0
Point List View	galileoPointListWrapper-rt	Honeywell Galileo wrapper for Point List View	1.4.2769.0
	galileoPointViewer-rt	Galileo Generic Point List Module	1.4.2769.0
	galileoSignalR-rt	Honeywell Push Server for Niagara	1.4.2769.0
	galileoSupervisor-rt	Galileo Common Supervisor	1.4.2769.0
Sentience	SentienceModelSync-rt	Sync the configuration to sentience model store	2.0.6
Spyder	airFlowBalancer	Honeywell N4 air flow balancing tool	4.11.0.11
	datasharing	BACnet datasharing enabler for Honeywell devices	4.11.0.21
	docHoneywellSpyder	Honeywell Spyder Tool's help documents	4.11.0.9.4.50
	genericUIFramework	Generic framework	4.11.0.95
	honeywellBacnetSpyder	Library of control components for Honeywell Bacnet Spyder	4.11.0.9.4.50
	honeywellLonSpyder	Library of control components for Honeywell Lon Spyder	4.11.0.9.4.50
	honeywellSpyderTool	Library of control components for Honeywell Spyder	4.11.0.9.4.50
Spyder Model 5	airFlowBalancer	Honeywell N4 air flow balancing tool	4.11.0.11

Tools	Module	Description	Version
	docHoneywellSylkDevice-doc	Honeywell Sylk help documents	4.11.0.1.2.64
	honeywellSylkDevice-rt	Sylk device configuration module	4.11.0.1.2.64
	honeywellSylkDevice-ux	UX widgets and field editors for Honeywell Sylk	4.11.0.1.2.64
	honeywellVersionManager-rt	Helper module to manage Niagara tool version	4.11.0.1.1.22
	honIrmAppl-rt	Spyder Model 5 application library	4.11.0.1.0.1.13
	honIrmConfig-doc	Document module for Spyder Config Components	4.11.0.2.2.2.38
	honIrmConfig-rt	Library of Spyder Model 5 Control Components	4.11.0.2.2.2.38
	honIrmConfig-wb	Programmable Unitary Controller	4.11.0.2.2.2.38
	honIrmControl-doc	Documentation module for Control Components	4.11.0.2.2.2.38
	honIrmControl-rt	Library of IRM Control Components	4.11.0.2.2.2.38
	honIrmControl-ux	Library of IRM Control Components	4.11.0.2.2.2.38
	honIrmControl-wb	Library of IRM Control Components	4.11.0.2.2.2.38
	spyderToIrmNxMigrator-wb	Spyder to IRM Application Migrator	4.11.0.2.2.0.25
Stryker	airFlowBalancer	Honeywell N4 airflow balancing tool	4.11.0.11
	ascBacnet	Honeywell Stryker controller Bacnet modules	4.11.0.6.0.44
	ascCommon	Honeywell Stryker controller common module	4.11.0.6.0.44
	ascLon	Honeywell Stryker controller Lon modules	4.11.0.6.0.44
	datasharing	BACnet datasharing for Honeywell controllers	4.11.0.21
	genericUIFramework	Generic framework	4.11.0.95
	honeywellASC	Honeywell Application Specific Controllers	4.11.0.6.0.44
	honeywellAXPlatinum	Honeywell graphics images modules	4.11.0.10
	honeywellAXPlatinumHR	Honeywell AX Platinum Hi-Res Graphics Library	4.11.0.9
Sylk Actuator Analytics	SylkActuatorAnalytics-rt	Sylk Actuator Analytics	4.10.0.154.1
	SylkActuatorAnalytics-ux	Sylk Actuator Analytics	4.10.0.154.1
TC500	honeywellTCThermostatWizard-ux	TC500 Wizard	4.11.0.142.1.23
	honeywellTCThermostatWizard-rt	TC500 Wizard	4.11.0.142.1.23
Venom	honeywellVenomBacnetApps	Venom BACnet Spyder application library	4.11.0.9.4.50
	honeywellVenomBacnet-rt	Venom BACnet Tools for Spyder N4	4.11.0.9.4.50
	honeywellVenomBacnet-wb	Venom BACnet Tools for Spyder N4 workbench	4.11.0.9.4.50
	honeywellVenomGraphics	Venom Graphics PX pages and images	4.11.0.9.4.50
	honeywellVenomLonApps	Venom Lon Spyder application library	4.11.0.9.4.50
	honeywellVenomLon-rt	Venom Lon Tools for Spyder N4	4.11.0.9.4.50
	honeywellVenomLon-wb	Venom Lon Tools for Spyder N4 workbench	4.11.0.9.4.50
	honeywellVenomTools-rt	Venom Tools for Spyder N4	4.11.0.9.4.50
	honeywellVenomTools-wb	Venom Tools for Spyder N4 workbench	4.11.0.9.4.50
WEBs Enterprise Security	genericSecHelp-ux	Generic Help for Enterprise Security	4.11.0.112
	themeHoneywell-ux	WEBS Brand Theme module	4.11.0.1.1.19
	websSecBrand-wb	Honeywell WEBs Branding Module	1

2 Hardware Compatibility – WEBs Controller

WEBs-N4 release software supports WEB-8000, CIPer Model 10, CIPer Model 30, CIPer Model 50, Stryker, Spyder, and Spyder Model 5 controllers.

2.1 Platform Requirements for WEBs Supervisor

Processor	Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors.
Operating System	Windows 10 (64 bit), Windows Server 2016, Windows Server 2019 (64 bit), Red Hat Enterprise Linux 7.7, 8.1 (64bit)
Mobile operating system	iOS 12, iOS 13, Android 8 Oreo, Android 9 Pie, Android 10.0
Browser	Chrome, Firefox, Microsoft Edge, Niagara Web Launcher
Mobile Browser	Safari on iOS, Chrome on Android, Microsoft Edge
Database	MySQL 5.7, 8.0, 9.0; Oracle Express 11g; Oracle 12, 18, 19c; MSSQL 2012, 2016, 2017, 2019
Memory	6 GB minimum, 8 GB or more recommended for larger systems (If a 64-bit installation).
Hard Drive	4 GB minimum, more recommended depending on archiving requirements. 10 GB is recommended for any Supervisor.
Network Support	Ethernet adapter (10/100 Mb with RJ-45 connector), 100Mbit or 1Gbit NIC *network interface card) with TCP/IP support.
Connectivity	Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem) and IPv6 compliant.
Display	Video card and monitor capable of displaying 1024 x 768-pixel resolution, 1080p (1920 x 1080) minimum resolution recommended.

IMPORTANT NOTE

WEBs-N4.11 supports only 64-bit installations. Installing WEBs-N4.11 would generate a new host ID, if you installed a 32-bit in the previous WEBs-N4.8 versions.

It is recommended to use the Echelon OpenLDV 5 Network Driver for Windows. For details refer to, https://www.echelon.com/software-downloads?ele=153-0411-01B.

2.2 Software Dependencies

WEBs-N4 system's software includes operating systems, browsers, relational databases, and video drivers. Some software modules run on the controller and others on the Supervisor PC.

System / driver	Supported	Remarks
Operating Systems	▪ Windows 10 (64-bit) ▪ Windows Server 2016 ▪ Windows Server 2019 ▪ Red Hat Enterprise Linux 7.7/8.1 (64-bit)	From the release of WEBs-N4.9, the following operating systems are no longer supported: ▪ Windows 7 x86 ▪ Windows 7 x64 ▪ Windows 8.1 x86 ▪ Windows 10 x86 ▪ Windows Server 2012 x64
Supported web browsers	▪ Google Chrome (mobile, tablet, desktop) ▪ Mozilla Firefox 5.0 and later ▪ Microsoft Edge ▪ Safari (mobile, tablet) ▪ Niagara Web Launcher	For configuration only, use Workbench and Niagara Web Launcher. The Web Launcher application supports any browser view that requires the WebApplet. Google Chrome 75 supports only the monitoring and loading of HTML views. *NOTE: The following browsers do not support the WbApplet (Wb Web Profile):* ▪ *Google Chrome version 45 and higher* ▪ *Microsoft Edge* ▪ *Firefox version 42 and higher* ▪ *Opera*
Mobile operating systems	▪ Android 8 Oreo ▪ Android 9 Pie ▪ Android 10 ▪ Android Q ▪ iOS 12 ▪ iOS 13	
JRE Plug-in for browsers (applicable to the WebApplet environment)	Oracle Java Version 8, update 241	High-level sanity test done with the latest JRE8 update 212 dated 18 April 2019. Web Launcher supports both 32–bit and 64–bit JRE.
Relational database servers	▪ MySQL Server 8.0 ▪ Oracle 19c ▪ MS SQL Server 2016 ▪ MS SQL Server 2017 ▪ MS SQL Server 2019 ▪ MySQL 8.0 and MySQL 5.7 are both tested with connector version: 8.0.13. ▪ Connector 5.1.46 works with MySQL 5.7.	From the release of WEBs-N4.9, the following database versions are no longer supported: ▪ MS SQL Server 2012 ▪ Oracle 11g ▪ Oracle 12g is not supported. Controller stations use an HSQL database, which is provided.

Virtual Machines	VMWare - EXSi 6.7	
Option Cards	- NPB-8000-2X-485 (Dual RS-485 option card) - NPB-8000-LON (LON option card) - Micro SD Card (SRAM Option card) - IO-R-16 (NRIO Module) - IO-R-34 (NRIO Module) - IO-16 (NDIO Module) - IO-16-485 (NRIO Module)	
Drivers	- BACnet (IP, Ethernet, MSTP) - Lon (FTT-10, IP) - Modbus (TCP, Async) - oBIX - SNMP - NRIO - RDBMS Drivers listed in the database	
Video drivers	- nAxis: Axis Video Driver - nMilestone: Milestone Video driver (Professional and Professional plus editions) - Milestone Xprotect Video driver) Professional plus and corporate editions)	Milestone Professional plus (Xprotect Professional) NVR Version 2018 R3 Build: 5924 and 2009 R2. Milestone Xprotect Corporate NVR Version: 2019 R3 13.3a Build 44.

3 Niagara Web Launcher

IMPORTANT: As Java SE 8 reached end-of-life, free public updates for commercial users are no longer available. Users who use Java Web Start to access WEB-8000 controller or localhost remotely for their legacy systems, need to use the Niagara Web Launcher application now.

3.1 How to install and use the Niagara Web Launcher

1. Connect the WEB-8000 or localhost via browser.

2. Pre-login page appears and provides a link under the login dialog that reads: "To connect using Niagara Web Launcher click here".

3. Click this link to download and auto-run The *NiagaraWebLauncher.msi* installer file.

   If the file download does not begin automatically, click the following link: For 64-bit systems.

4. Once the installer file *NiagaraWebLauncher.msi* is downloaded, it installs the Niagara Web Launcher application on your computer.

   If the installation does not begin automatically, access the *NiagaraWebLauncher.msi* file in your browser's download's location and double-click the file to run the setup wizard.

5. Once the application has started, you may close this browser window and log in from the Niagara Web Launcher application.

You may notice another file, <stationName>.nwl is downloaded to the same location. This is a text file containing information that tells Web Launcher how to connect to that station. On subsequent connections, there is no need to download and run the *.msi installer file again. Instead, you could double-click the *.nwl fille which launches webLauncher.exe.

Tip: If a user wants to run station discovery under the Niagara network of a WEBs-N4.11 supervisor, they will need to add udp 1911 inbound to the firewall of their system.

For more details, refer to **Discover (Fox) uses UDP multicasting** in the *Niagara Drivers Guide.*

3.2 Using Web Launcher with WEBs-N4.11

Web Launcher 20.4.2 was recently revamped for WEBs-N4.11 to include essential software dependencies updates along with critical defect fixes. This version of Web Launcher has Java version 8 update 275 and certificate management has been updated to work with WEBs-N4.11 along with any legacy or prospective release. Prior to using Web Launcher with WEBs-N4.11, the customers should update Web Launcher accordingly (see steps below).

How to update Web Launcher?

Web Launcher has a feature to check for updates over the internet and prompts the user when a new version is available in the cloud. However, the existing version of Web Launcher has a bug that prevents a smooth update. Users will be required to perform a fresh install by downloading the latest version from the cloud via the station web Login page. Click on the Niagara Web Launcher Installer link on the station's Web Launcher Web Page, which can be reached via the link on the Login page itself. Once the download is successful, click on the msi file and follow the installation wizard. You do not have to uninstall the older version. The new installation will automatically update to the latest version.

3.3 Upgrading WEB-8000 controller

This WEBs-N4.11 software allows you to install distribution (dist) files from your Workbench PC to the remote host platform.


📄 **NOTE**

WEBs-N4.11 requires all modules to be signed with a valid certificate. If you are using third-party modules, ensure that they are signed with a valid certificate using Niagara's Jar Signing Tool. For more details on the Niagara Third-Party Module Signing procedure, refer to the Niagara Third-Party Module Signing link or below Niagara internal help links (ORDs).

- *Signing A Third-Party Module: module://docModuleSign/doc/CreateCodeSigningCertificate-28E327C0.html*
- *Staged roll-out: module://docModuleSign/doc/StagedRoll-outModuleSigning-182E7CC0.html*
- *Verification modes: module://docModuleSign/doc/VerificationModesModuleSigning-182D0E86.html*

If you attempt to upgrade an existing WEB-8000 controller with an unsigned module, the station will not start.

Steps to upgrade WEB-8000 controller:

1. Connect to the WEB-8000 Platform.
2. Log in to the Platform of the WEB-8000 using the WEBs-N4.11.0.142 workbench.
3. Run the **Platform Administration** from platform view and Select **Commissioning Wizard.**
4. Uncheck all default checkboxes, except "*Install/Upgrade core software from distribution files*" (see below) and click **Next.**
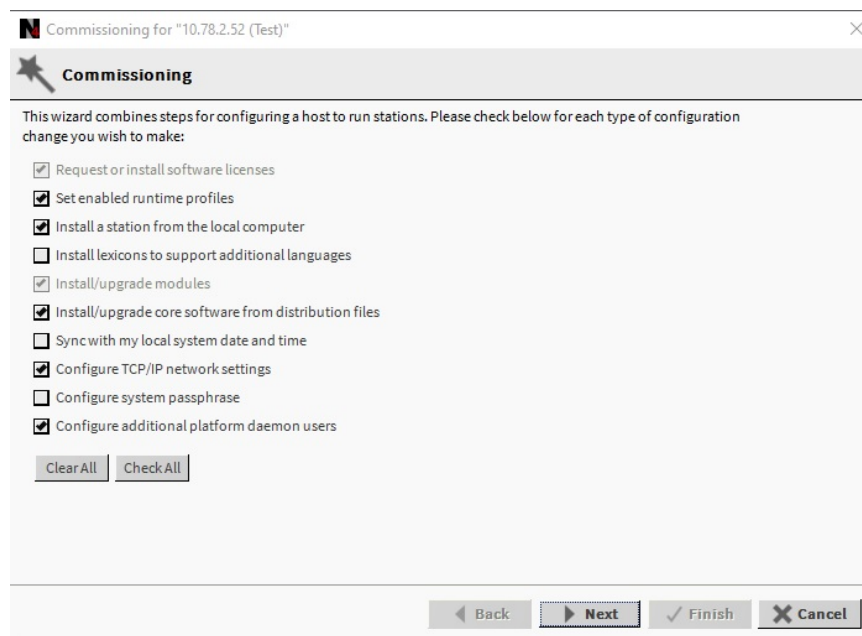
5. Select the licensing options and click **Next.**
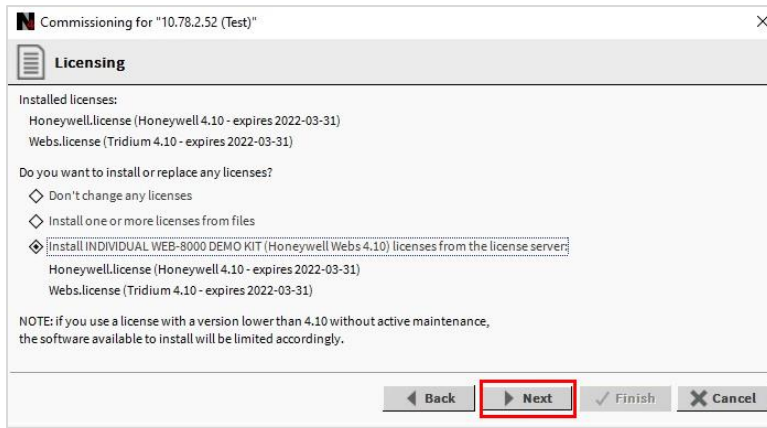
6. Select the runtime profile and click **Next.**

   All WEBs-N4 platforms require the base RUNTIME (-rt) module JAR files, it is pre-selected/read-only.

   For a QNX-based JACE platforms (which run the Java 8 compact 3 VM), you can also select UX (-ux) and WB (-wb) module JARs, but not SE (-se) module JARs.
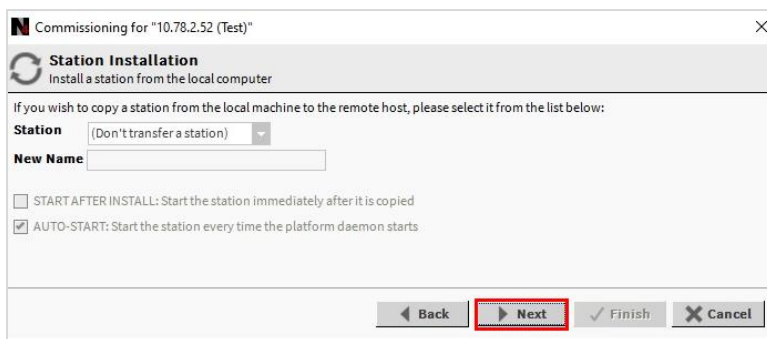
   > **NOTE**
   >
   > During WEB-8000 commissioning, on Enabled Runtime Profiles screen, select "UX" and "WB" checkboxes if not already checked by default. These boxes may not be checked by default in the case of a new WEB-8000 controller or immediately after a "clean dist" has been performed.
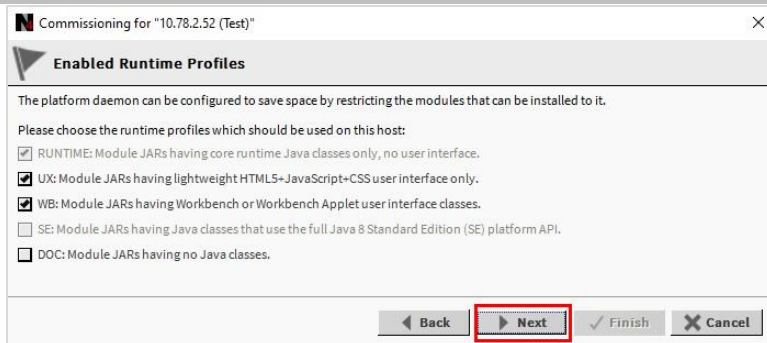
7. If you have a specific station database ready to install in the WEB-8000 controller, you can specify it at this step in the wizard.

   Or simply accept the default (Don't transfer a station) and click **Next.**

   You can create a station later using the New Station Wizard and install it using the platform's **Station Copier**. Or you can simply select an existing station to install using the **Station Copier**.


8. Click **Next** to continue.
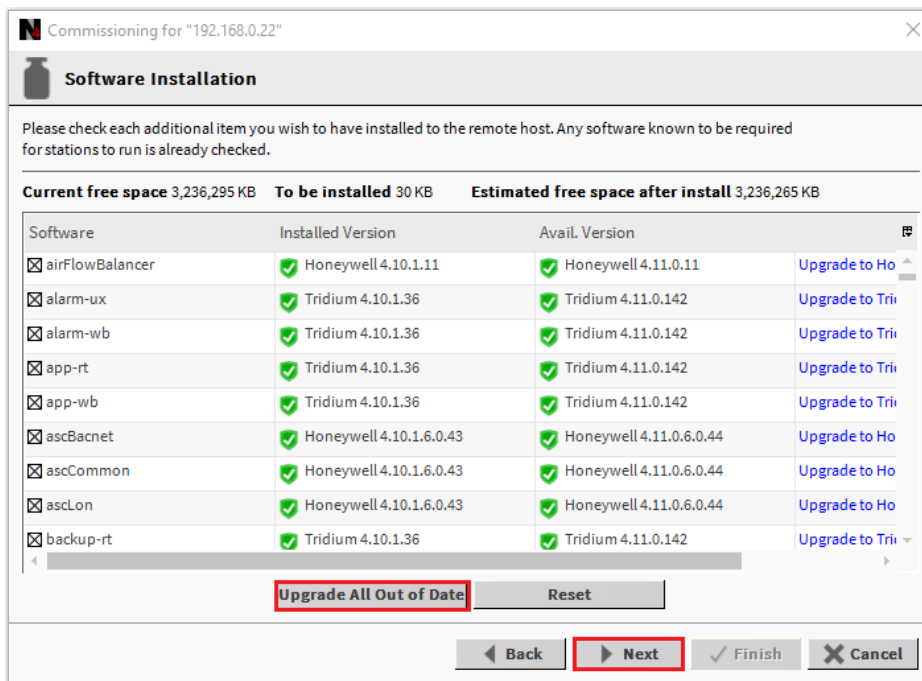
> **NOTE**
>
> When upgrading a WEB-8000 from an older installed release to WEBs-N4.11, the persistent log files under /var/slog will not be preserved. The reason is that WEBs-N4.11 contains an OS upgrade from QNX6.5 to QNX7.0 which uses a different log file format. During the upgrade, the old QNX6.5 log files are deleted and new QNX7.0 files are created.
>
> If the existing log files are needed, make a copy prior to upgrading.
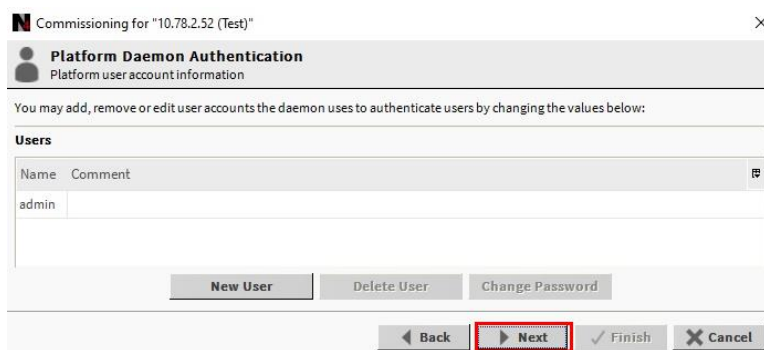
9. Click **Next** to continue.
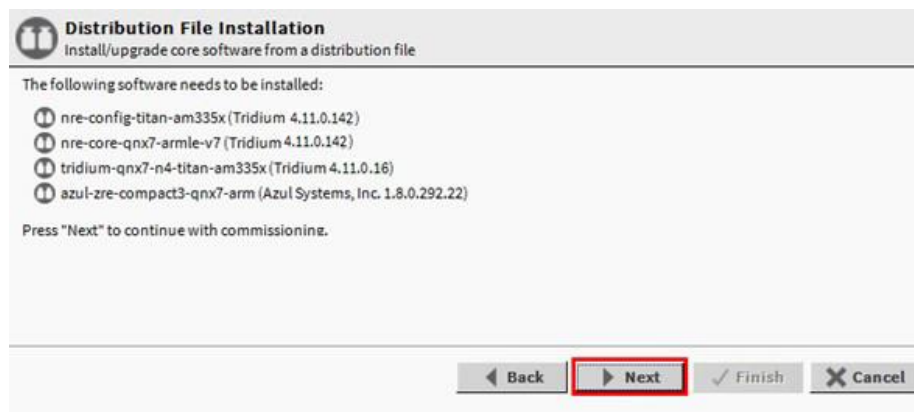
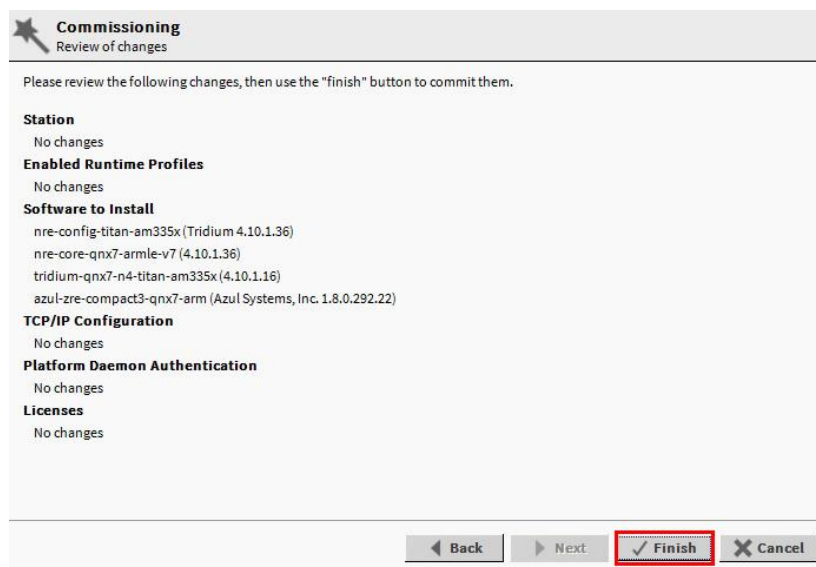10. Configure TCP/IP settings and click **Next**.
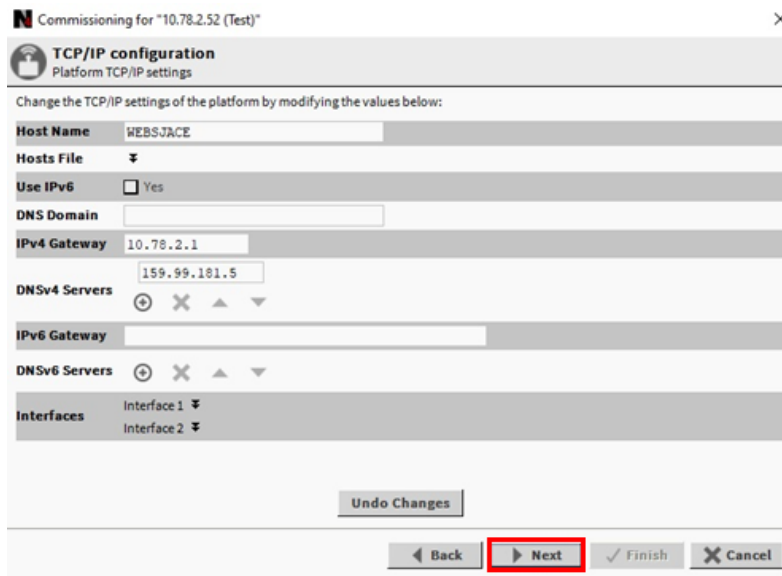
11. Configuring system passphrase and click **Next.**

A strong password is required. A minimum of 10 characters and include at least one uppercase character, at least one lowercase character, and at least one digit.

12. Review the changes in the Commissioning Wizard and click **Finish.**

Wait for several minutes to complete the controller upgrade. After the upgrade is complete, you will be able to log in to the platform of the controller.

3.4 Verify Upgrade

After upgrading the WEB-8000 controller, verify the firmware and software tool versions.

Log in to the Platform of the controller and go to the **Platform Administration**. Verify the updated versions are installed. Refer to the below image, indicating the installed versions on the controller.

3.5 Restoring WEB-8000 controller

The WEB-8000 controller can be restored to the WEBs-N4.9U1 or WEBs-N4.1 version with two different CleanDist files.

CleanDist file	Description
tridium-qnx7-n49u1-titan-am335x-clean.dist	Deletes all the stations and modules and restores to WEBs-N4.9u1.
tridium-qnx65-n41-titan-am335x-clean.dist	Deletes all the stations and modules and restores to WEBs-N4.1.

📄 **NOTE**

- Back up any station files, as well as any other files needed later, for example, digital certificate keys.
- Always export certificate keys for any TLS-configured unit and store the exported keys in a safe place, such that if the controller needed to be replaced (hardware swap-out), you could re-import those keys.

Before performing the WEB-8000 restoring process, make sure to copy the clean dist files (*tridium-qnx7-n49u1-titan-am335x-clean.dist* and *tridium-qnx65-n41-titan-am335x-clean.dist*) in the C:\Honeywell\WEBStation-N4-4.x.x.xxx\cleanDist folder.

Steps to restore WEB-8000 Controller:

1. Connect and enter login details of the WEB-8000 platform.

    > **NOTE**
    >
    > Users must keep a record of login credential details for the WEB-8000 platform.

2. Select **Distribution File Installer**.

3. Select the file **tridium-qnx65-n41-titan-am335x-clean.dist** from the list and click the **Install.**
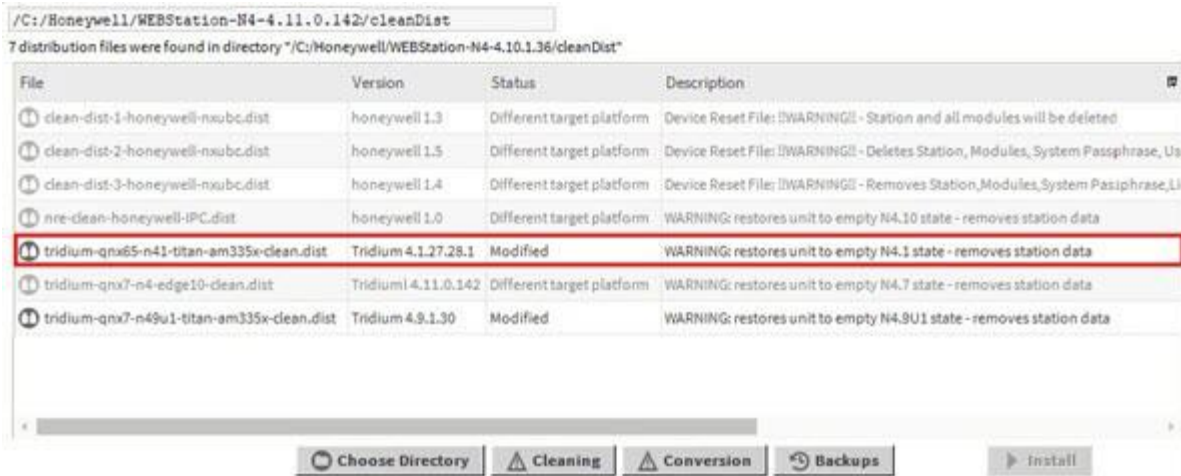
    /C:/Honeywell/WEBStation-N4-4.11.0.142/cleanDist

    7 distribution files were found in directory "/C:/Honeywell/WEBStation-N4-4.10.1.36/cleanDist"

File	Version	Status	Description
clean-dist-1-honeywell-nxubc.dist	honeywell 1.3	Different target platform	Device Reset File: ‼WARNING‼ - Station and all modules will be deleted
clean-dist-2-honeywell-nxubc.dist	honeywell 1.5	Different target platform	Device Reset File: ‼WARNING‼ - Deletes Station, Modules, System Passphrase, Us
clean-dist-3-honeywell-nxubc.dist	honeywell 1.4	Different target platform	Device Reset File: ‼WARNING‼ - Removes Station,Modules,System Passphrase,Li
nre-clean-honeywell-IPC.dist	honeywell 1.0	Different target platform	WARNING: restores unit to empty N4.10 state - removes station data
tridium-qnx65-n41-titan-am335x-clean.dist	Tridium 4.1.27.28.1	Modified	WARNING: restores unit to empty N4.1 state - removes station data
tridium-qnx7-n4-edge10-clean.dist	Tridiumi 4.11.0.142	Different target platform	WARNING: restores unit to empty N4.7 state - removes station data
tridium-qnx7-n49u1-titan-am335x-clean.dist	Tridium 4.9.1.30	Modified	WARNING: restores unit to empty N4.9U1 state - removes station data

    Choose Directory   ⚠ Cleaning   ⚠ Conversion   🕙 Backups   ▶ Install

    Removing a file system takes a few minutes, then the controller automatically reboots. Wait for the reboot to complete.

    > **NOTE**
    >
    > After reboot from a clean dist install, the user will connect to the controller on port (3011).

    o   The default platform passphrase will be active after reboot, enter default login/ login credentials for the platform. After entering logging credentials Licenses and Certificates and TCP IP Address Settings will retain.

    o   This action will delete all the modules, station and station data will be erased.

    o   Now the Firmware is retained.

4. Click **Close** after completing the installation.

4 Known Issues & Workarounds

Issue	Workaround, if any
Sometimes Program Compatibility Assistant dialog pops up with the message "This program might not have installed correctly" after installation of any WEBs-N4 image.	1. Microsoft has some patches related Program Compatibility Assistant for Windows 7. It is recommended that the PC has all the OS updates installed to ensure that this issue is not seen during installation. 2. If the issue is still seen, then click on "The program installed correctly" option in the Program Compatibility Assistant dialog.
HTML5 HX web profile is not supported for Spyder Tool and Stryker Tool.	To use Spyder Tool and Stryker Tool using browser, change the user web profile to default WB web profile.
When multiple images of same version are installed on same PC, only one entry will be seen in "Add/Remove Programs". This can also trigger the Program Compatibility Assistant.	It is not recommended to install multiple images of same version on the same PC simultaneously. This would result in only one entry in the "Add/Remove Programs".
After uninstalling WEBs Image following folders are present in the WEBs home directory 1. Spyder EULA 2. Spyder Apps	Manually delete these folders.

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