

Honeywell WEBs-N4

Software Release Bulletin

Version 4.10.0.154

1 Release Summary

Honeywell WEBs-N4.10.0.154 release consists of WEBs-N4 software builds, WEBs-N4 Alarm Portal, and WEBs Enterprise Security N4.10.0.154.

Product	Description
WEBs-N4.10.0.154	WEBs-N4.10.0.154 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 N4.10.0.154	WEBs Enterprise Security N4.10.0.154 includes Niagara Enterprise Security access control and security application. Allows integration of BAS and access control to save energy and optimize operations.

1.1 Enhancements in Honeywell WEBs-N4.10.0.154 Workbench

- **System Database Support for Tag Based PX:** WEBStation-N4.6 introduced System Database which dramatically decreases the amount of time to integrate remote Niagara Network stations into a Supervisor. Tag-based PX binding was introduced in WEBStation-N4.9 enabling users to develop graphics once, and then re-use them across stations. WEBStation-N4.10 integrates these two powerful solutions together to reduce the amount of time spent engineering your enterprise sites and to give you more time to spend providing value to the customer.
- **Improved Graphics Performance on the JACE:** Utilize our new UxMedia type to achieve faster graphics load time and enable instantaneous feedback on changing values. WEBStation-N4.10 will help you convert existing PX graphics to a contemporary UI based on browser standards via a built-in migration tool.
- **Video Surveillance Viewer:** WEBStation-N4.9 brought a number of improvements to video processing capabilities (alarming, HTML5 views, streaming live and recorded video in browsers or mobile). In WEBStation-N4.10 the functionality enhanced by updating the Surveillance Viewer to enable functionality such as setting up and saving video layouts and clicking on any video stream to view a single camera.
- **HTML-5 Tag Manager:** New HTML-5 Tag Manager provides a modern and intuitive design which enables a more efficient overall tagging workflow. Provides features such as bulk tagging via a browser, context sensitive tagging, seamlessly viewing direct and implied tags, exporting all tags to a spreadsheet for templating and ongoing management, drag-n-drop functionality, and more!
- **Bulk Certificate Signing Tool:** New Workbench tool that improves certificate signing experience. Sign one or multiple certificates in bulk with the same Certificate Authority (CA) and also generate signed certificates in PKCS7 format for compatibility with browsers.
- **MQTT Updates:** A new MQTT Authenticator enabling JWT authentication (Google) enables seamless connectivity for Google-Cloud based applications.
- **Supervisor Edge Licensing Scheme for Niagara Network Connections:** Introducing a new licensing schema which allows you to connect 10 times more devices that are using the Niagara stack to a Supervisor for the same price.

Announcing WEBs-N4.10.0.154.7 Enterprise Security: The WEBs-N4.10.0.154 Enterprise Security brings updated cyber security and visualization enhancements included in the WEBs-N4.10 framework release to your customers. Version upgrades are available for purchase of a software maintenance agreement, or an active software maintenance agreement.

- **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. This viewer can add extra level of security for sensitive or high-security areas.

1.2 Supporting Tools

Following are the tools supporting Honeywell WEBS-N4.10.0.154 release:

Tools	Version	Tools	Version
AXWizards Tool	4.10.0.6.158	Point List View	1.4.2715.0
BACNetFF Tool	4.10.0.2.1.7	Spyder Model 5 Tool	4.10.0.2.2.0.24
CIPer Model 10	4.10.0.154	Spyder Tool	4.10.0.8.3.40
CIPer Model 30	4.10.0.1.1.257	Stryker Tool	4.10.0.6.0.40
CIPer Model 50	4.10.0.2.0.12	Sylk Actuator Analytics	4.10.0.154.1
Healthy Building Dashboard	1.4.13	Venom Tool	4.10.0.8.3.40

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.

1.3 WEBS-N4.10.0.154 Software Modules

Tool	Module	Description	Version
AXPlatinum	honeywellAXPlatinum	AX Platinum Graphics Library	4.10.0.8
	honeywellAXPlatinumHR	AX Platinum Hi-Res Graphics Library	4.10.0.7
	themeHoneywell-ux	WEBS Brand Theme module	4.10.0.1.1.16
AXWizards	docHoneywell	Help Files for AXWizards	4.10.0.6.158
	lonhoneywellAXWizards	Module for wizard based configuration of Honeywell devices	4.10.0.6.158
BACnet FF	honeywellTB3026BWizard	Module for Honeywell BACnet FF configuration wizard	4.10.0.2.1.7
BACnet Utility Restore	honUtilityBacRestore-rt	Restore a chosen BACnet interface selection	4.8.0.110.1.7
CARE Import Wizard	CareImportWizard-rt	CARE Import Wizard	4.9.0.198.114
	CareImportWizard-wb	CARE Import Wizard	4.9.0.198.114
CIPer Model 10	edgelo-rt	Edge I/O driver	4.10.0.154
	edgelo-wb	Edge I/O driver	4.10.0.154
CIPer Model 30	docHoneywellFunctionBlocks-doc	Function Block guide	4.10.0.1.1.257
	docHoneywellSylkDevice-doc	Sylk device help documents	4.10.0.1.2.55
	docIPProgrammingTool-doc	IP controller programming tool guide	4.10.0.1.1.257
	honeywellFunctionBlocks-rt	Function block library	4.10.0.1.1.257
	honeywellFunctionBlocks-ux	UX widgets and field editors for function block library	4.10.0.1.1.257
	honeywellFunctionBlocks-wb	AX widgets and field editors for function block library	4.10.0.1.1.257
	honeywellSylkDevice-rt	Sylk device configuration module	4.10.0.1.2.55
	honeywellSylkDevice-ux	UX widgets and field editors for Sylk devices	4.10.0.1.2.55

Tool	Module	Description	Version
	honeywellVersionManager-rt	Helper module to manage Niagara tool version	4.10.0.1.1.12
	ipcBaseDriver-rt	IP controller driver for communication with base board	4.10.0.1.1.31
	ipcCommBus-rt	IP controller communication network	4.10.0.1.1.257
	ipcCommBus-wb	IP controller communication network	4.10.0.1.1.257
	ipcMigrator-wb	Migrate Spyder applications to IP controller	4.10.0.1.1.257
	ipcProgrammingTool-rt	IP controller programming tool components	4.10.0.1.1.257
	themeHoneywell-ux	WEBS Brand Theme module	4.10.0.1.1.16
CIPer Model 50	CentralineAhuPx-wb	Centraline AHU Graphics	4.3.58.24.1
	CentralineHtgPx-wb	Centraline Heating Plant Graphics	4.3.58.24.1
	CentralineLONIOR5-wb	LON IO and Smart IO Rev05 Mar 2014	4.10.0.2.0.12
	clEnoceanNetwork-rt	Enocean Network Utilities	4.3.58.1.84
	clEnoceanNetwork-wb	Enocean Network Utilities	4.3.58.1.84
	clExtensions	CL extension	4.2.36.34.2
	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
	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
	clIOcreation-rt	IO Creation modules	4.10.0.2.0.12
	clIOcreation-wb	IO Creation modules	4.10.0.2.0.12
clOnboardIO-rt	Onboard-IO Driver	4.10.0.2.0.12	

Tool	Module	Description	Version
	clOnboardIO-wb	Onboard-IO Driver	4.10.0.2.0.12
	clPanelBus-rt	Panelbus serial driver	4.10.0.2.0.12
	clPanelBus-wb	Panelbus serial driver	4.10.0.2.0.12
	clPrintout-doc	Printout	4.10.0.2.0.12
	clPrintout-rt	Printout	4.10.0.2.0.12
	clPrintout-wb	Printout	4.10.0.2.0.12
	clProfile-wb	Honeywell Niagara Workbench Profile	4.10.0.154.116
	clStationUpgradeTool-wb	Station Upgrade Tool	1.1.0
	honEagleHawkHMI-rt	Human Machine Interface	4.10.0.2.0.12
	honEagleHawkHMI-ux	Human Machine Interface	4.10.0.2.0.12
	honEagleHawkHMI-wb	Human Machine Interface	4.10.0.2.0.12
	honTagDictionary-rt	Honeywell Tag Dictionary to generate station model based on HBT Ontology	4.10.0.2.0.12
	platPanelbus-rt	Panelbus Platform Service	4.10.0.2.0.12
clCBus	clCBus-rt	clCBus Utilities	4.10.0.154.116
	clCBus-ux	clCBus Utilities	4.10.0.154.116
	clCBus-wb	clCBus Utilities	4.10.0.154.116
Healthy Building Dashboard	easyHealthyBuilding-rt	Healthy Building Dashboard modules	1.4.13
	easyHealthyBuilding-ux	Healthy Building Dashboard modules	1.4.13
	easyHealthyBuilding-doc	Healthy Building Dashboard modules	1.4.13
Honeywell BACnet Utilities	honBACnetUtilities-rt	Hon BACnet Utilities	4.10.0.154.116
	honBACnetUtilities-ux	Hon BACnet Utilities	4.10.0.154.116
	honBACnetUtilities-wb	Hon BACnet Utilities	4.10.0.154.116
Honeywell Cloud Connector	honCloudEasyOnboard-rt	Easy onborad for Honeywell Cloud Connector	4.6.2.0.1
Honeywell Remote Configuration Tool	honRemoteConfig-rt	Honeywell Remote Configuration Tool	4.6.1.1.0
WEBs Enterprise Security	websSecBrand-wb	Honeywell WEBs Branding Module	1.00
	genericSecHelp-ux	Generic Help for Enterprise Security	4.10.0.68
Lonsock Client Interface	honLonsockClient-rt	Connect Lonsock Rni Interfaces	4.6.96.28.3.0
Point List View	galileoKitPx-wb	Galileo KitPx Module	1.4.2718.0
	galileoPointListWrapper-rt	Honeywell Galileo wrapper module for Point List View	1.4.2715.0
	galileoPointViewer-doc	Galileo Generic Point List Module	1.4.2715.0
	galileoPointViewer-rt	Galileo Generic Point List Module	1.4.2715.0
	galileoPointViewer-ux	Galileo Generic Point List Module	1.4.2715.0
	galileoPointViewer-wb	Galileo Generic Point List Module	1.4.2715.0
	galileoSignalR-rt	Honeywell Push Server for Niagara	1.4.2715.0

Tool	Module	Description	Version
	galileoSupervisor-rt	Galileo Common Supervisor	1.4.2715.0
	galileoSupervisor-wb	Galileo Common Supervisor	1.4.2715.0
	galileoWidgets-ux	Galileo Widget Module	1.4.2715.0
Remote Configuration Tool extension for BACnet	honRemoteConfigBacnet-rt	Honeywell Remote Configuration Tool extension for Bacnet	4.6.1.1.0
Sentience	SentienceModelSync-rt	Sync the configuration to sentience model store	2.0.6
Spyder	airFlowBalancer	Honeywell N4 air flow balancing tool	4.10.0.9
	datasharing	BACnet datasharing enabler for Honeywell controllers	4.10.0.19
	docHoneywellSpyder	Honeywell Spyder Tool's help documents	4.10.0.8.3.40
	genericUIFramework	Generic framework	4.10.0.93
	honeywellBacnetSpyder	Library of control components to program Honeywell Bacnet Spyder device	4.10.0.8.3.40
	honeywellLonSpyder	Library of control components to program Honeywell Lon Spyder device	4.10.0.8.3.40
	honeywellSpyderTool	Library of control components to program Honeywell Spyder device	4.10.0.8.3.40
Spyder Model 5	airFlowBalancer	Honeywell N4 air flow balancing tool	4.10.0.9
	docHoneywellSylkDevice-doc	Honeywell Sylk help documents	4.10.0.1.2.55
	honeywellSylkDevice-rt	Sylk device configuration module	4.10.0.1.2.55
	honeywellSylkDevice-ux	UX widgets and field editors for Honeywell Sylk devices	4.10.0.1.2.55
	honeywellVersionManager-rt	Helper module to manage Niagara tool version	4.10.0.1.1.12
	honIrmAppl-rt	IRM application library	4.10.0.1.0.1.13
	honIrmAppl-rt	IRM application library	4.10.0.1.0.1.13
	honIrmConfig-doc	Document module for Spyder Config Components	4.10.0.2.2.0.24
	honIrmConfig-rt	Library of IRM Control Components	4.10.0.2.2.0.24
	honIrmConfig-wb	Programmable Unitary Controller	4.10.0.2.2.0.24
	honIrmControl-doc	Documentation module for of IRM Control Components	4.10.0.2.2.0.24
	honIrmControl-rt	Library of IRM Control Components	4.10.0.2.2.0.24
	honIrmControl-ux	Library of IRM Control Components	4.10.0.2.2.0.24
spyderToIrmNxMigrator-wb	Spyder to IRM Application Migrator	4.10.0.2.2.0.24	
Stryker	airFlowBalancer	Honeywell N4 air flow balancing tool	4.10.0.9
	ascBacnet	Honeywell Stryker controller Bacnet modules	4.10.0.6.0.40
	ascCommon	Honeywell Stryker controller common module	4.10.0.6.0.40
	ascLon	Honeywell Stryker controller Lon modules	4.10.0.6.0.40
	datasharing	BACnet datasharing enabler for Honeywell controllers	4.10.0.19

Tool	Module	Description	Version
	genericUIFramework	Generic framework	4.10.0.93
	honeywellASC	Honeywell Application Specific Controllers	4.10.0.6.0.40
	honeywellAXPlatinum	Honeywell graphics images modules	4.10.0.8
	honeywellAXPlatinumHR	Honeywell AX Platinum Hi-Res Graphics Library	4.10.0.7
Sylk Actuator Analytics	SylkActuatorAnalytics-rt	SylkActuatorAnalytics	4.10.0.154.1
	SylkActuatorAnalytics-ux	SylkActuatorAnalytics	4.10.0.154.1
Venom	honeywellVenomBacnetApps	Venom BACnet Spyder application library	4.10.0.8.3.40
	honeywellVenomBacnet-rt	Venom BACnet Tools for Spyder N4	4.10.0.8.3.40
	honeywellVenomBacnet-wb	Venom BACnet Tools for Spyder N4 workbench	4.10.0.8.3.40
	honeywellVenomGraphics	Venom Graphics PX pages and images	4.10.0.8.3.40
	honeywellVenomLonApps	Venom Lon Spyder application library	4.10.0.8.3.40
	honeywellVenomLon-rt	Venom Lon Tools for Spyder N4	4.10.0.8.3.40
	honeywellVenomLon-wb	Venom Lon Tools for Spyder N4 workbench	4.10.0.8.3.40
	honeywellVenomTools-rt	Venom Tools for Spyder N4	4.10.0.8.3.40
honeywellVenomTools-wb	Venom Tools for Spyder N4 workbench	4.10.0.8.3.40	

2 Hardware Compatibility – WEBs Controller

WEBs-N4.10 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 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-N4.10 supports only 64-bit installations. Installing WEBs-N4.10 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	<ul style="list-style-type: none"> ▪ Windows 10 (64-bit) ▪ Windows Server 2016 ▪ Windows Server 2019 ▪ Red Hat Enterprise Linux 7.7/8.1 (64-bit) 	<p>From the release of WEBStation-N4.9, the following operating systems are no longer supported:</p> <ul style="list-style-type: none"> ▪ Windows 7 x86 ▪ Windows 7 x64 ▪ Windows 8.1 x86 ▪ Windows 10 x86 ▪ Windows Server 2012 x64
Supported web browsers	<ul style="list-style-type: none"> ▪ Google Chrome (mobile, tablet, desktop) ▪ Mozilla Firefox 5.0 and later ▪ Microsoft Edge ▪ Safari (mobile, tablet) ▪ Niagara Web Launcher 	<p>For configuration only, use Workbench and Niagara Web Launcher. The Web Launcher application supports any browser view that requires the WebApplet.</p> <p>Google Chrome 75 supports only the monitoring and loading of HTML views.</p> <p><i>NOTE: The following browsers do not support the WbApplet (Wb Web Profile):</i></p> <ul style="list-style-type: none"> ▪ Google Chrome version 45 and higher ▪ Microsoft Edge ▪ Firefox version 42 and higher ▪ Opera
Mobile operating systems	<ul style="list-style-type: none"> ▪ 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	<p>High-level sanity test done with the latest JRE8 update 212 dated 18 April 2019.</p> <p>Web Launcher supports both 32-bit and 64-bit JRE</p>
Relational database servers	<ul style="list-style-type: none"> ▪ 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. 	<p>From the release of WEBStation-N4.9, the following database versions are no longer supported:</p> <ul style="list-style-type: none"> ▪ MS SQL Server 2012 ▪ Oracle 11g ▪ Oracle 12g is not supported. <p>Controller stations use an HSQL database, which is provided.</p>
Virtual Machines	VMWare - EXSi 6.7	

<p>Option Cards</p>	<ul style="list-style-type: none"> ▪ 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) 	
<p>Drivers</p>	<ul style="list-style-type: none"> ▪ BACnet (IP, Ethernet, MSTP) ▪ Lon (FTT-10, IP) ▪ Modbus (TCP, Async) ▪ oBIX ▪ SNMP ▪ NRIO ▪ RDBMS Drivers listed in the database 	
<p>Video drivers</p>	<ul style="list-style-type: none"> ▪ nAxis: Axis Video Driver ▪ nMilestone: Milestone Video driver (Professional and Professional plus editions) ▪ Milestone Xprotect Video driver) Professional plus and Corporate editions) 	<p>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</p>

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 WEBS JACE 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 JACE 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 downloads 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 particular station. On subsequent connections, there is no need to download and run the *.msi installer file again. Instead, you could double-click the *.nwl file which launches webLauncher.exe.

Tip: If a user wants to run station discovery under Niagara network of N4.10 supervisor, the user will need to add udp 1911 inbound to the firewall of their system.

For more details, refer to **Discover (Fox) uses UDP multicasting** in *Niagara Drivers Guide*, or follow the Niagara Help content link –

<local:/module://docDrivers/doc/aStationDiscoverUdpMulticastPorts.html#aStationDiscoverUdpMulticastPorts>

3.2 Using Web Launcher with WEBStation N4.10

Web Launcher 20.4.2 was recently revamped for WEBStation-N4.10 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-N4.10 along with any legacy or prospective release. Prior to using Web Launcher with WEBS-N4.10, customer 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, 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-N4.10 software allows you to install distribution (dist) files from your Workbench PC to the remote host platform.



NOTE

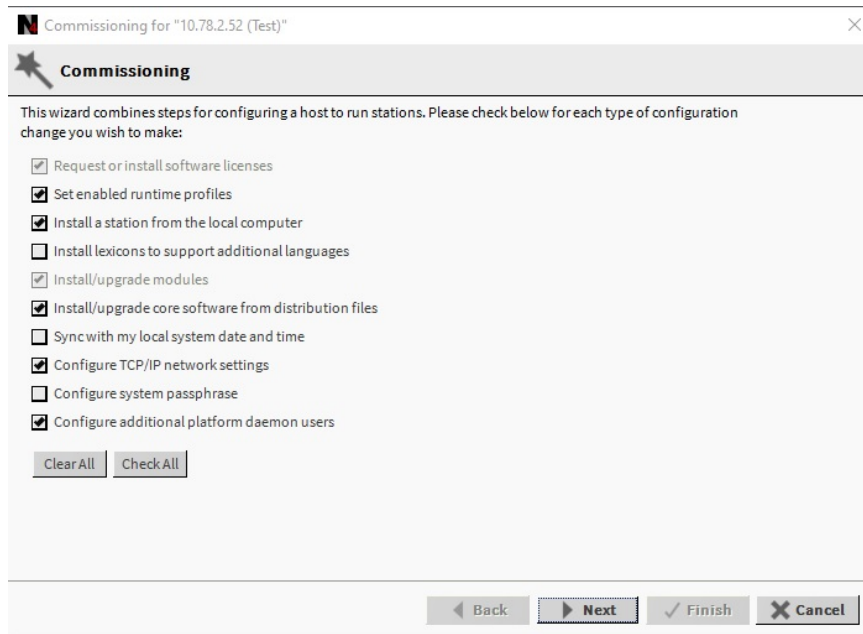
WEBStation-N4.10 requires all modules to be signed with a valid certificate. If you are using third-party modules, ensure that they are signed with a valid certificate using Niagara’s Jar Signing Tool. For more details on the Niagara Third-Party Module Signing procedure, refer to the Niagara Third-Party 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*

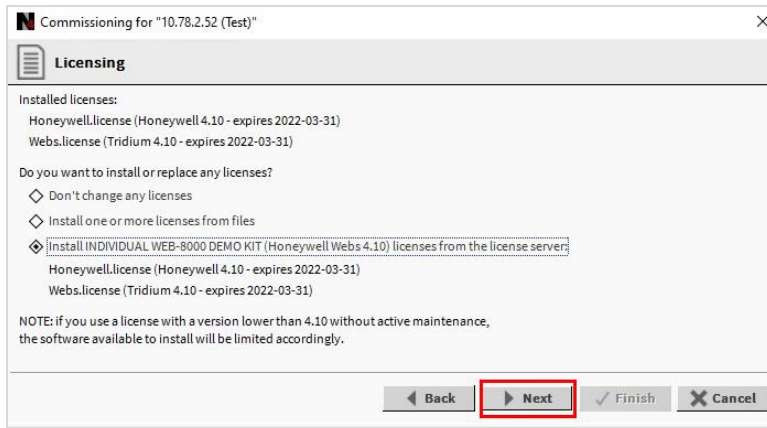
If you attempt to upgrade an existing WEB-8000 controller with an unsigned module, the station will not start.

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 WEBStation-N4- N4.10.0.154 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**.



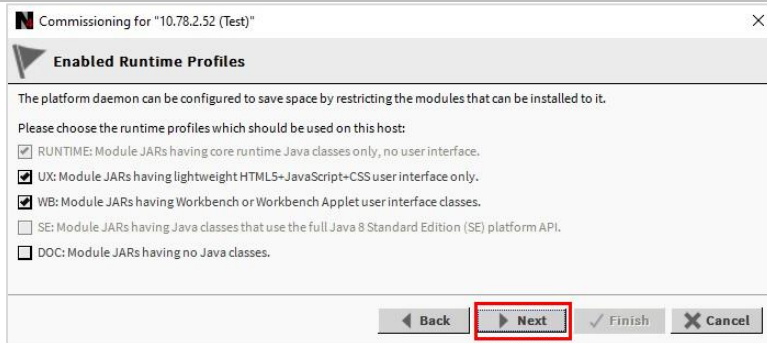
6. Select the runtime profile and click **Next**.

All WEBStation 4 platforms require the base “RUNTIME” (-rt) module JARs, so it is pre-selected/read-only.

For 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

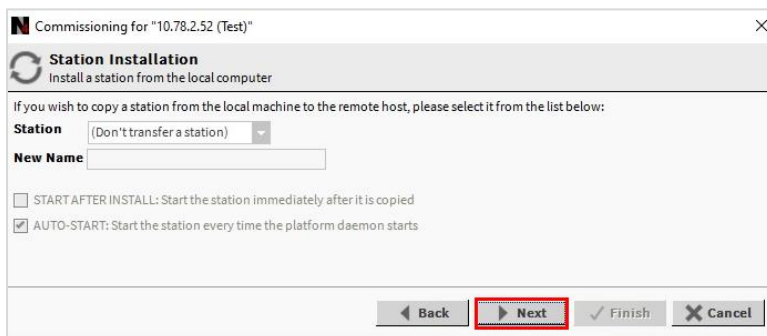
During WEB-8000 commissioning, on Enabled Runtime Profiles screen, select “UX” and “WB” checkboxes if not already checked by default. These boxes may not be checked by default in the case of a new WEB-8000 controller or immediately after a “cleandist” has been performed.



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**.

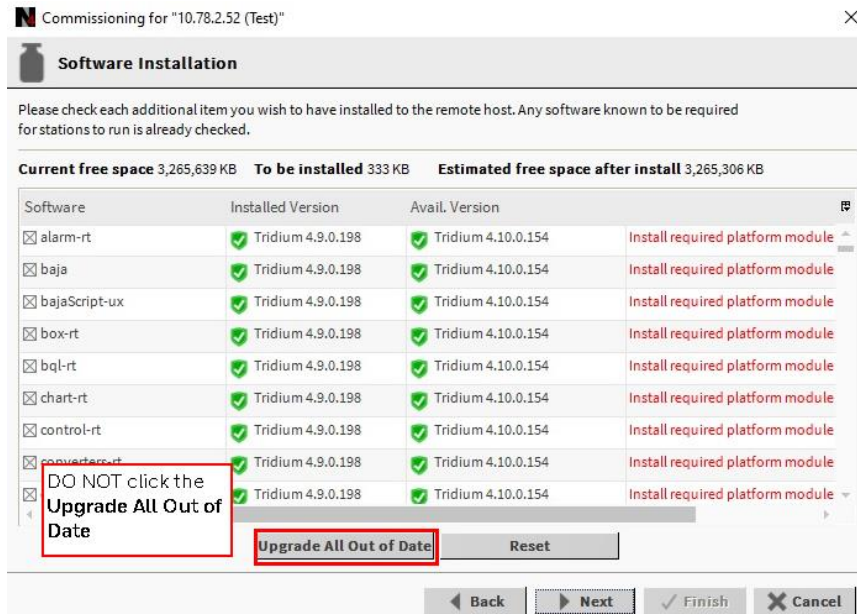


8. Click **Next** to continue.



NOTE

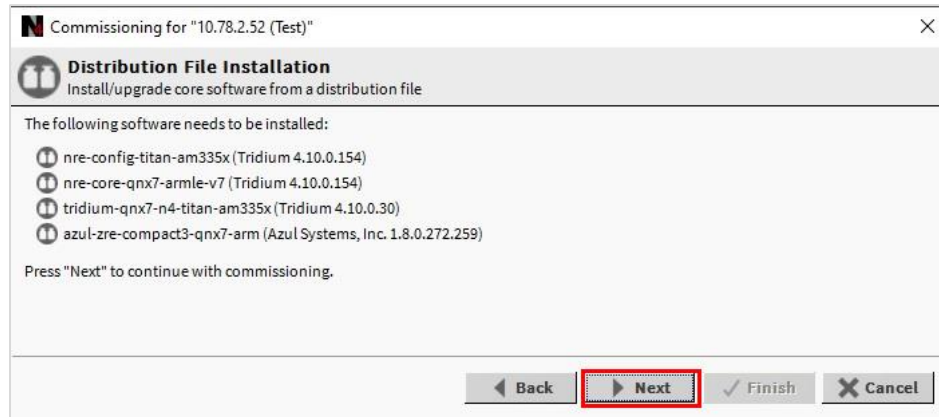
Do not click the **Upgrade All Out of Date** during the Install/Upgrade core modules step (refer below image).



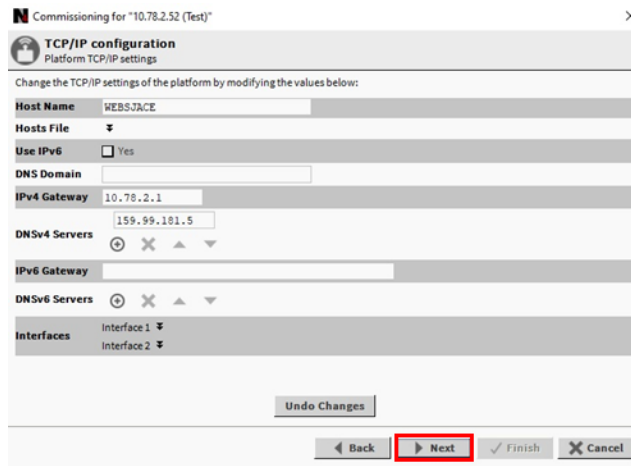
NOTE

When upgrading a WEB-8000 from an installed older release to WEBStation-N4.8 the persistent log files under /var/slog will not be preserved. The reason is that WEBS-N4.10 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.

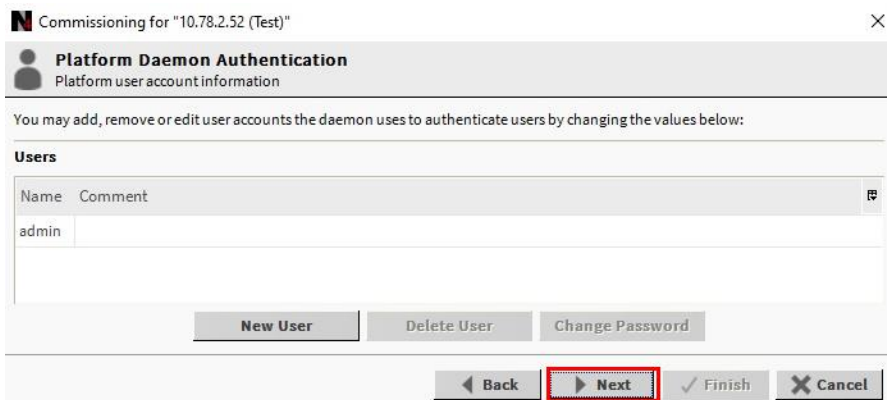


10. Configure TCP/IP settings and Click **Next**.

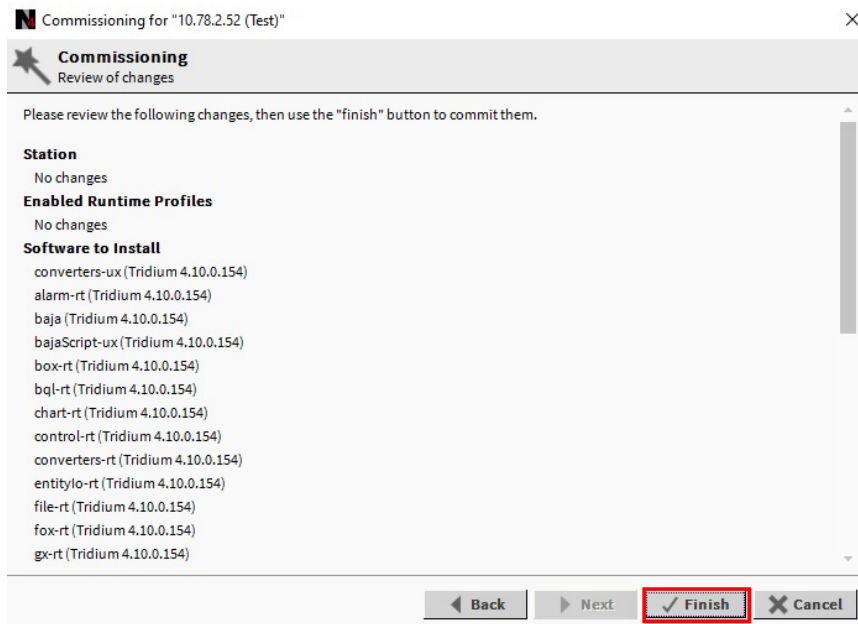


11. Configuring system passphrase and click **Next**.

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 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 version.

Log in to the Platform of the controller and then go to **Platform Administration**, and verify the updated versions installed. Refer to the below image, highlighting installed versions on the controller

Platform Administration

- View Details
- User Accounts
- System Passphrase
- Change HTTP Port
- Change TLS Settings
- Change Date/Time
- Advanced Options
- Change Output Settings
- View Daemon Output
- View System Log
- Configure Runtime Profiles
- Configure NRE Memory
- Backup
- Commissioning
- Reboot

Baja Version	Tridium 4.10.0.154
Daemon Version	4.10.0.154
System Home	/opt/niagara
User Home	/home/niagara
Host	10.78.2.52 (Test)
Daemon HTTP Port	3011
Daemon HTTPS Port	5011
Host ID	Qnx-TITAN-47C9-3C46-0037-256B
Model	TITAN
Product	JACE-8000
Local Date	15-Jul-21
Local Time	12:13 Coordinated Universal Time
Local Time Zone	UTC (+0)
Operating System	tridium-qnx7-n4-titan-am335x-hs (4.10.0.30)
Niagara Runtime	nre-core-qnx7-armle-v7 (4.10.0.154)
Architecture	armle-v7
Enabled Runtime Profiles	rt,ux,wb
Java Virtual Machine	azul-zre-compact3-qnx7-arm (Azul Systems, Inc. 1.8.0.272.259)
Niagara Stations Enabled	enabled
Number of CPUs	1
Current CPU Usage	5%
Overall CPU Usage	12%
Filesystem	
	Total Free Files Max Files
/	3,492,848 KB 3,262,734 KB 364 109152
/mnt/aram0	393,200 KB 378,280 KB 4 12288
/mnt/ram0	8,176 KB 7,836 KB 5 256

3.5 Restoring WEB-8000 controller

The WEB-8000 controller can be restored to 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

Choose one of the following "CleanDist" files to delete and restore settings on the CIPer Model 50 controller.



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 controller 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-N4-4.10.0.154/cleanDist
7 distribution files were found in directory "/C:/Honeywell/WEBStation-N4-4.10.0.154/cleanDist"

File	Version	Status	Description
clean-dist-1-honeywell-nxubc.dist	honeywell 1.2	Different target platform	Device Reset File: !!WARNING!! - Station and all modules will be deleted
clean-dist-2-honeywell-nxubc.dist	honeywell 1.4	Different target platform	Device Reset File: !!WARNING!! - Deletes Station, Modules, System Passphrase, User and Password
clean-dist-3-honeywell-nxubc.dist	honeywell 1.3	Different target platform	Device Reset File: !!WARNING!! - Removes Station, Modules, System Passphrase, Licenses, Certificates
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	Tridium 4.10.0.154	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 controller requires 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
<p>Sometimes Program Compatibility Assistant dialog pops up with the message "This program might not have installed correctly" after installation of any WEBStation-N4 image.</p>	<ol style="list-style-type: none"> 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.
<p>HTML5 HX web profile is not supported for Spyder Tool and Stryker Tool.</p>	<p>To use Spyder Tool and Stryker Tool using browser, change the user web profile to default WB web profile.</p>
<p>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.</p>	<p>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".</p>
<p>After uninstalling WEBs Image following folders are present in the WEBs home directory</p> <ol style="list-style-type: none"> 1. Spyder EULA 2. Spyder Apps 	<p>Manually delete these folders.</p>