Honeywell

WEBs - N4 Workbench

Help Documents

Honeywell WEBs–N4 Software Release Bulletin

Version 4.9.0.198

September 2020

Table of Contents

Release Summary

Honeywell WEBs-N4.9.0.198 release consists of "WEBStation-N4" software builds and WEBs-N4 Alarm Portal software. This is an updated release of WEBStation-N 4.8.0.110.5.

Product	Description
WEBStation-N4	N4 Supervisor software; includes Niagara Historical Database and Workplace N4. Includes oBIX client/server driver for connecting to Niagara based controllers only.
WEBs_N4_Alarm_Portal	WEBs-N4 alarm console client. No separate server is required to use this. This supports Niagara alarm monitoring.
WEBs_Enterprise_Security	Includes Niagara Enterprise Security access control and security application. Allows integration of BAS and access control to save energy and optimize operations

Note: This version of Honeywell WEBs-N4.9.0.198 is compatible with Spyder Model 5, CIPer Model 10 and WEB-8000 controllers. CIPer Model 30 and CIPer Model 50 controllers are not compatible with this release.

Platform Updates

Following are the latest version of tools:

Tools	Version
Spyder Model 5 Tool	4.9.0.2.2.0.5
CIPer Model 10	4.9.0.198
Spyder Tool	4.8.0.7.2.20
Stryker Tool	4.8.0.5.0.33
BACNetFF Tool	4.8.0.1.0.4
AXWizards Tool	4.8.0.4.154.0
Venom Tool	4.8.0.7.2.20

Note: N4.9 version of all the tools will be available during the release 2 of the WEBs-N4.9.

The WEBs-N4 Supervisor also includes **Point List View** (PLV) feature and support Spyder Model 5 controller. Refer to WEBs-N4 Points List View Guide - 31–00261–02 document for details on how to use this new feature.

Note: Security WEB-6xx models are now scheduled for End of Life (EOL) July 1, 2021. This is consistent with WEBs AX EOL date for all WEB AX Honeywell products.

Build Contents & Distribution
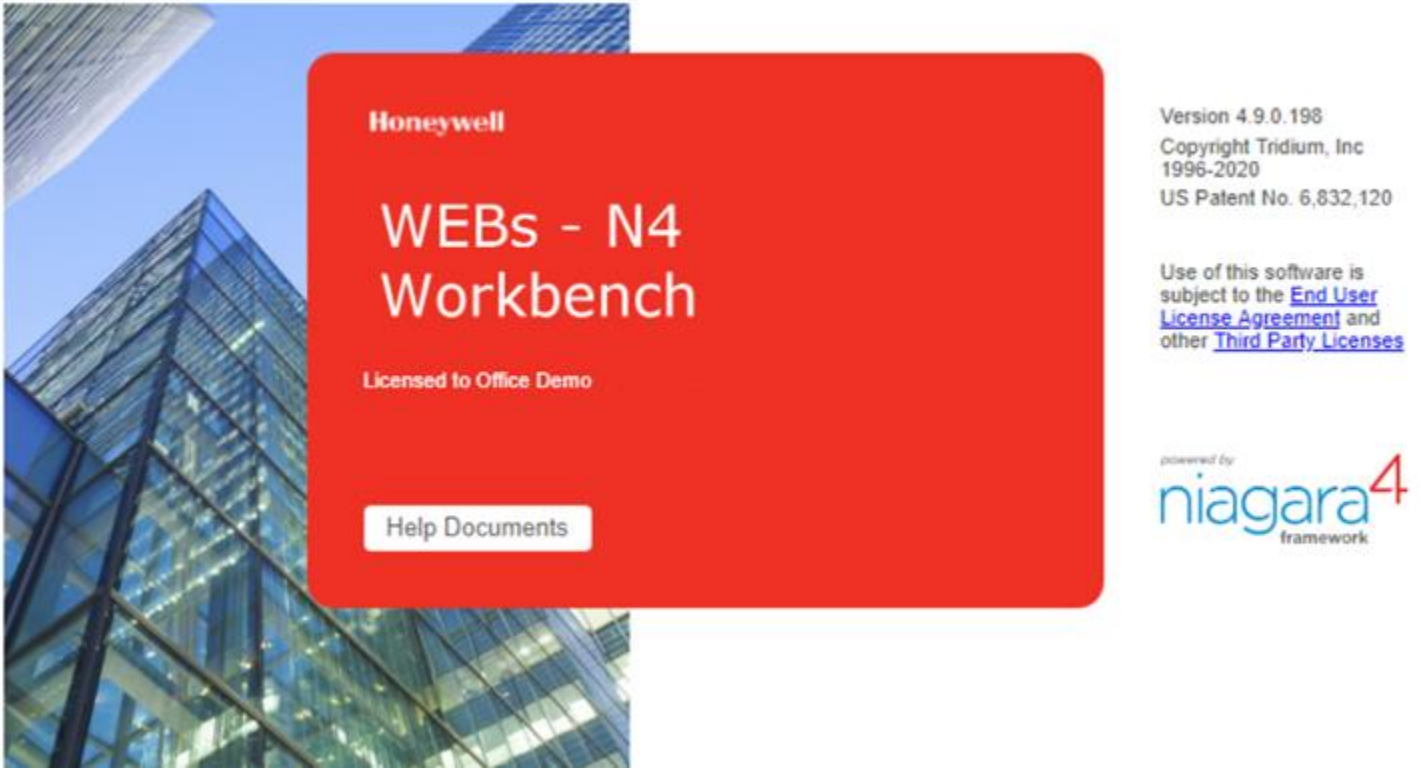
Honeywell Software Modules in WEBs–N4.9.0.198

Module	Description	Version
CIPer Model 10		
edgeIo-rt	Edge I/O driver	4.9.0.198
edgeIo-wb	Edge I/O driver	4.9.0.198
Spyder Model 5		
honlrmConfig-wb	Programmable Unitary Controller	4.9.0.2.2.0.5
honlrmConfig-rt	Library of IRM Control Components	4.9.0.2.2.0.5
honlrmAppl-rt	IRM application library	4.9.0.2.2.0.5
honlrmControl-ux		4.9.0.2.2.0.5
honlrmControl-rt	Library of IRM Control Components	4.9.0.2.2.0.5
honlrmControl-doc	Documentation module for of IRM Control Components	4.9.0.2.2.0.5

Module	Description	Version
docHoneywellSylkDevice-doc	Honeywell SpyderTool & apos;s help documents	4.9.0.1.2.38
honeywellSylkDevice-rt	Sylk device configuration module	4.9.0.1.2.38
honeywellSylkDevice-ux	UX widgets and field editors for Honeywell Sylk devices	4.9.0.1.2.38
honeywellVersionManager-rt	Helper module to manage Niagara tool version	4.9.0.1.1.6
Spyder		
airFlowBalancer		4.8.0.7
docHoneywellSpyder (PC Only)	Honeywell Spyder Tool's help documents	4.8.0.7.2.20
genericUIFramework		4.8.0.91
honeywellBacnetSpyder	'Library of control components to program Honeywell Bacnet Spyder device	4.8.0.7.2.20
honeywellLonSpyder	Library of control components to program Honeywell Lon Spyder device	4.8.0.7.2.20
honeywellSpyderTool	Library of control components to program Honeywell Spyder device	4.8.0.7.2.20
datasharing	BACnet datasharing enabler for Honeywell controllers	4.8.0.17
Stryker		
ascCommon	Honeywell Stryker controller common module	4.8.0.5.0.33
ascLon	Honeywell Stryker controller Lon modules	4.8.0.5.0.33
ascBacnet	Honeywell Stryker controller Bacnet modules	4.8.0.5.0.33
airFlowBalancer		4.8.0.7
genericUIFramework		4.8.0.91
honeywellASC	Honeywell Application Specific Controllers	4.8.0.5.0.33
honeywellAXPlatinum	Honeywell graphics images modules	4.8.0.6
honeywellAXPlatinumHR	Honeywell AX Platinum Hi-Res Graphics Library	4.8.0.5
datasharing	BACnet datasharing enabler for Honeywell controllers	4.8.0.17

Module	Description	Version
Venom		
honeywellVenomBacnetApps	Venom BACnet Spyder application library	4.8.0.7.2.20
honeywellVenomBacnet-rt	Venom BACnet Tools for Spyder N4	4.8.0.7.2.20
honeywellVenomBacnet-wb	Venom BACnet Tools for Spyder N4 workbench	4.8.0.7.2.20
honeywellVenomGraphics	Venom Graphics PX pages and images	4.8.0.7.2.20
honeywellVenomLonApps	Venom Lon Spyder application library	4.8.0.7.2.20
honeywellVenomLon-rt	Venom Lon Tools for Spyder N4	4.8.0.7.2.20
honeywellVenomLon-wb	Venom Lon Tools for Spyder N4 workbench	4.8.0.7.2.20
honeywellVenomTools-rt	Venom Tools for Spyder N4	4.8.0.7.2.20
honeywellVenomTools-wb	Venom Tools for Spyder N4 workbench	4.8.0.7.2.20
BACnet FF		
honeywellTB3026BWizard	Module for Honeywell BACnet FF configuration wizard	4.8.0.1.0.4
BACnetFFTN4-rt	Module for Honeywell BACnet FF firmware flash tool	4.8.0.1.0.4
AXWizards		
docHoneywell	Help Files for AXWizards	4.8.0.4.154.0
lonhoneywellAXWizards	Module for wizard based configuration of Honeywell devices	4.8.0.4.154.0
AXPlatinum		
honeywellAXPlatinum	Honeywell AX Platinum Graphics Library	4.8.0.6
honeywellAXPlatinumHR	Honeywell AX Platinum Hi-Res Graphics Library	4.8.0.5
themeHoneywell-ux	WEBS Brand Theme module	4.8.0.1.1.11
LonsockClient		
honLonsockClient-rt	Connect Lonsock Rni Interfaces	4.4.92.2.0.3
Honeywell Galileo		
galileoPointsUtility-ux	Galileo Points Utility for Managing Points	1.4.2582.0

Module	Description	Version
galileoPointsUtility-rt		
galileoPointListWrapper-rt	Honeywell Galileo wrapper module for Point List View	1.4.2582.0
galileoPointViewer-rt galileoPointViewer-ux galileoPointViewer-wb	Galileo Generic Point List Module	1.4.2582.0
galileoSignalR-rt	Honeywell Push Server for Niagara	1.4.2582.0
galileoSupervisor-rt	Galileo Common Supervisor	1.4.2582.0
galileoSupervisor-wb	Galileo Common Supervisor	1.4.2582.0
galileoWidgets-ux	Galileo Common Supervisor	1.4.2582.0

Brief description of Honeywell products

Spyder	The Spyder Family of controllers are for use in VAV (Variable Air Volume) and Unitary HVAC control applications. Each controller communicates via either LONWORKS® or BACnet MS/TP network communications. Each controller provides flexible, universal inputs (UI) for external sensors, digital inputs (DI), and a combination of analog outputs (AO) and digital Triac outputs (DO). The Sylk Bus is included in each controller which enables connection to other Sylk enabled devices. These controllers provide many options and advanced system features that allow state-of-the-art commercial building control. Each controller is programmable and configurable using the NIAGARA FRAMEWORK® software. To download, click the link: Spyder tool and technical documents
Stryker	Stryker LON VAV, Stryker BACnet VAV and Stryker LON CVAHU configuration tool provide many options and advanced system features that allow state-of-the-art commercial building control. Each controller is configurable using the NIAGARA FRAMEWORK® software. • CVB4022AS-VAV1, and CVB4024NSVAV1 controllers are BACnet MS/TP network devices designed to control HVAC equipment. • CUL6438SR-CV1, CVL4022AS-VAV1, and CVL4024NS-VAV1 controllers are Free Topology Transceiver (FTT) LONMARK®-certified devices designed to control HVAC equipment. To download, click the link: Stryker tool and technical documents
Venom	The Honeywell Venom Tool is provided in an effort to increase usability of the Spyder tool

	To download, click the link: <u>Venom tool and technical documents</u>
CIPer Model 10	Honeywell CIPer Model 10 is an IP-based field equipment controller powered by the Niagara Framework®. CIPer Model 10 controllers drive applications such as zone temperature control, and the operation of fan coil units, single-stage air handling units, water-source heat pumps and more. CIPer Model 10 controllers run the full Niagara stack, with 10 points of on-board IO and
	IO-R-34 expansion capability. CIPer Model 10 licensing supports three devices and 50 total points.
	To download, click the link: <u>CIPer Model 10 tool and technical documents</u>

Distribution

The WEBs-N4 Software can be downloaded from Honeywell Buildings Forum, from the link below. A license is required to use this software, which can be obtained by providing the Host ID of the PC.

<u>https://honeywellprod.sharepoint.com/teams/ecc-TheBuildingsForum/HoneywellWEBs/WEBsN4?view-path=%2Fteams%2Fecc-TheBuildingsForum%2FHoneywellWEBs%2FWEBsN4</u>

<u>For N4.9</u>

<u>https://honeywellprod.sharepoint.com/:f:/r/teams/ecc-TheBuildingsForum/HoneywellWEBs/WEBsN4/WEBs-N4.9.0.198 Software?csf=1&e=jX1PXi</u>

Hardware Compatibility – WEBs Controller

WEBs-N4.9 release software supports WEB-8000, CIPer Model 10 and Spyder Model 5 controllers.

Note: Live mode and Engineering mode feature (which was part of PLV) is not supported for WEBs controller.

Platform Requirements for WEBs Supervisor

Processor	— Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors.
Memory	— 6 GB minimum, 8 GB or more recommend for larger systems.
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).
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.

Operating System & Software Dependencies

IMPORTANT NOTE

N4.9 supports only 64-bit installations. So, installing N4.9 will generate a new host ID, if you made a 32-bit installation in the previous N4.X versions. Ensure to transfer your Niagara Workbench license from your previous 32-bit host ID to your new 64-bit host ID.

To use Lon devices with station running in Windows, use LON tunneling with JACE or use LON/IP. It is recommended to use the Echelon OpenLDV 5 Network Driver for Windows. For details refer, https://www.echelon.com/software-downloads?ele=153-0411-01B.

WEBs-N4 is supported on the following listed Microsoft Windows operating systems. The application installation includes Oracle's Java Runtime Environment (JRE) and does not depend on any other software to run.

Browser	Remarks
The "Niagara Web Launcher" need to be used for browser related activities	Refer below **Using Web Launcher with Niagara 4.9** for more details
JRE Plug-in for Browsers - applicable for WBApplet Environment	
JRE 8u5	
JRE8u60	Only a basic sanity check was performed with JRE8u60 EA build

Mobile Browser	
Safari on iOS Chrome on Android	
Operating System	
Windows 10 (64 bit) Windows Server 2016 Windows Server 2019 (64 bit) Red Hat Enterprise Linux 7.7, 8.1 (64bit)	WEBs-N4 tools (Spyder, Stryker, Venom, BACnet, AX Wizards etc.) are qualified using these listed operating systems.
Mobile OS	
iOS 12 iOS13 Android 8 Oreo Android 9 Pie Android 10.0	
Virtual Machines	
VMWare - EXSi 6.7	
Option Cards	
Dual RS-485 option card LON option 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, CCN, OPC, NDIO (IO-16), NRIO, RDBMS Drivers listed in database	

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 local host remotely for their legacy systems, need to use the Niagara Web Launcher application now.

How to install and use the Niagara Web Launcher

1. Connect the JACE or local host 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".

    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.

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

    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.

4. 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. So 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 user wants to run station discovery under Niagara network of N4.8 supervisor, user need to add udp 1911 inbound to the firewall of their system.

    For more details, refer **Discover (Fox) uses UDP multicasting** in *Niagara Drivers Guide* or follow the Niagara Help content link – *local:|module://docDrivers/doc/aStationDiscoverUdpMulticastPorts.html#aStationDiscoverUdpMulticastPorts*

Using Web Launcher with Niagara 4.9

Web Launcher 20.1.3 was recently revamped for N4.9 to include essential software dependencies up-dates along with critical defect fixes. This version of Web Launcher has Java version 8 update 252 and certificate management has been updated to work with N4.9 along with any legacy or prospective release. Prior to using Web Launcher with N4.9, 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.

For more details on the Niagara Web Launcher application usage & limitations, refer to below links on the Niagara Community. If you do not have Niagara Community access, please contact your WEBs support to download these files:

- Web Launcher limitations
- Downloading the installer
- Installing Web Launcher

Install and Upgrade:

1. Before installing WEBs image, delete the Environmental variable NIAGARA_HOME and NIAG-ARA_USER_HOME (if already available).

2. Use only "supervisor station" while creating a new station in Soft JACE.

Upgrading WEB-8000 from WEBStation-N4.8 to WEBStation-N4.9

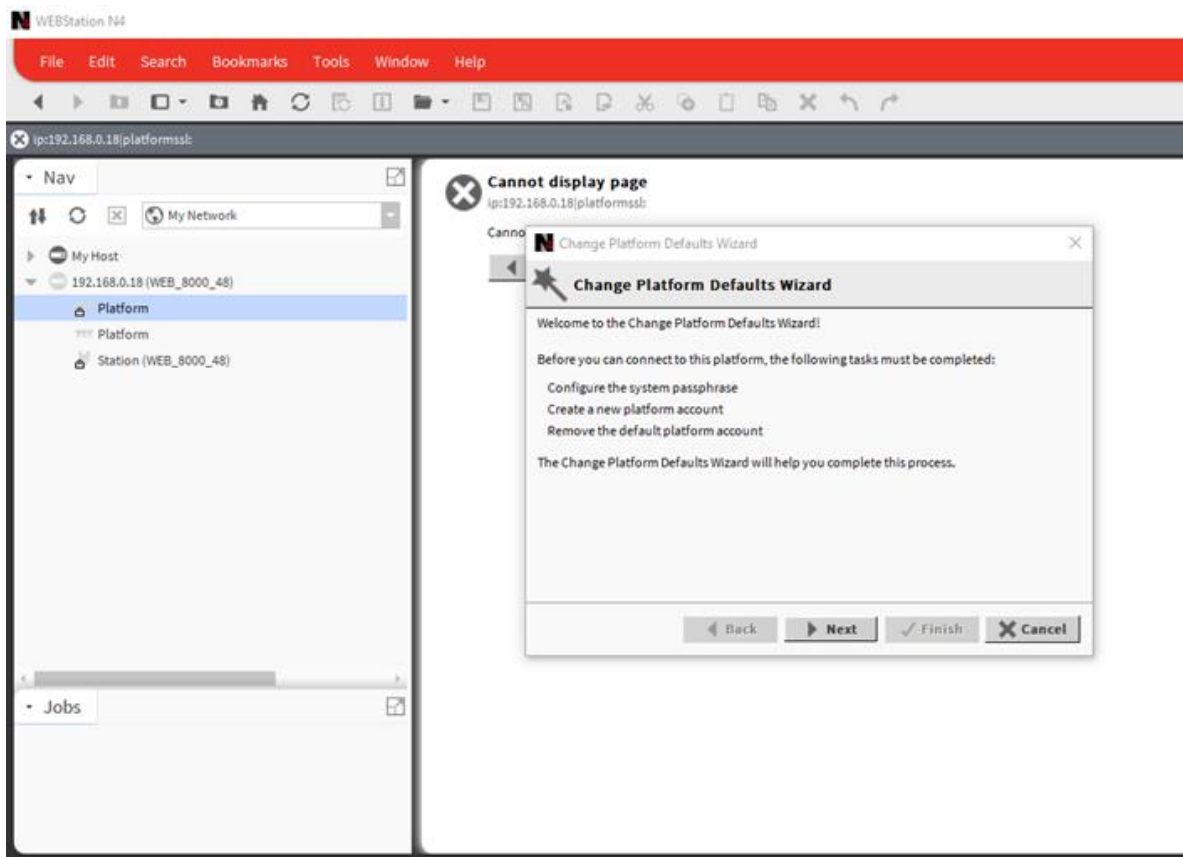To upgrade a WEB-8000 Jace from WEBStation-N4.8 to WEBSTation-N4.9, please follow the procedure below:

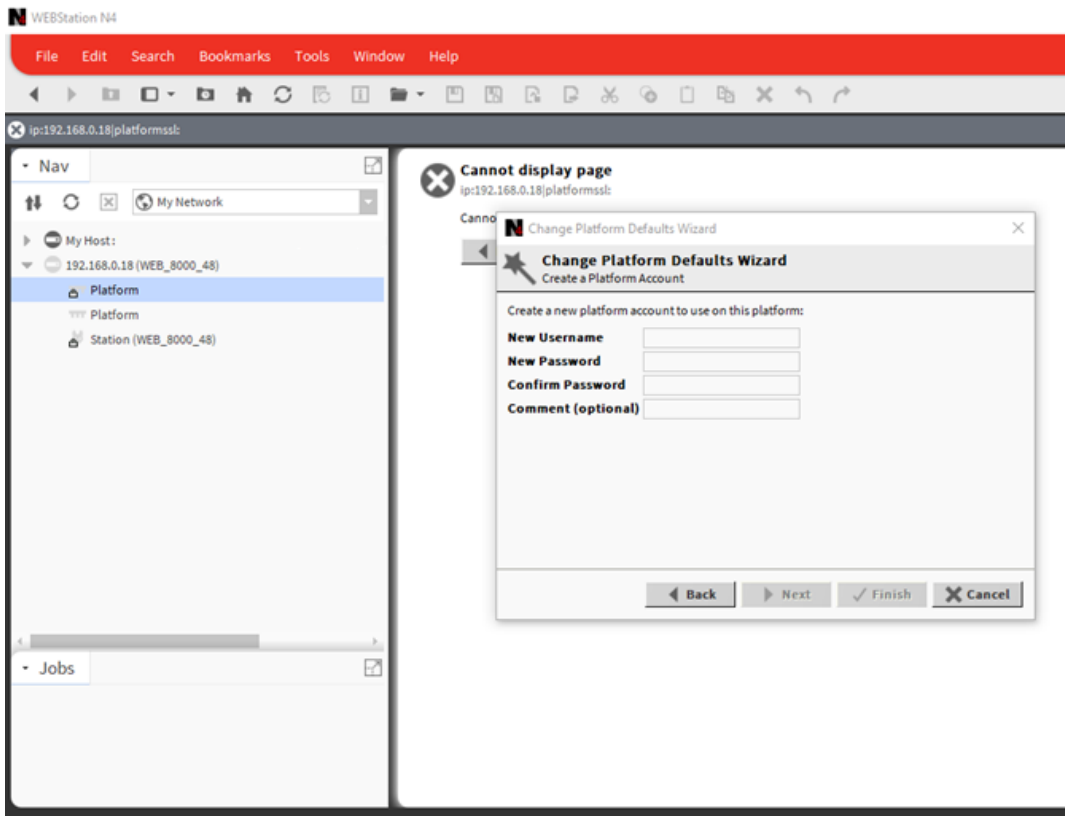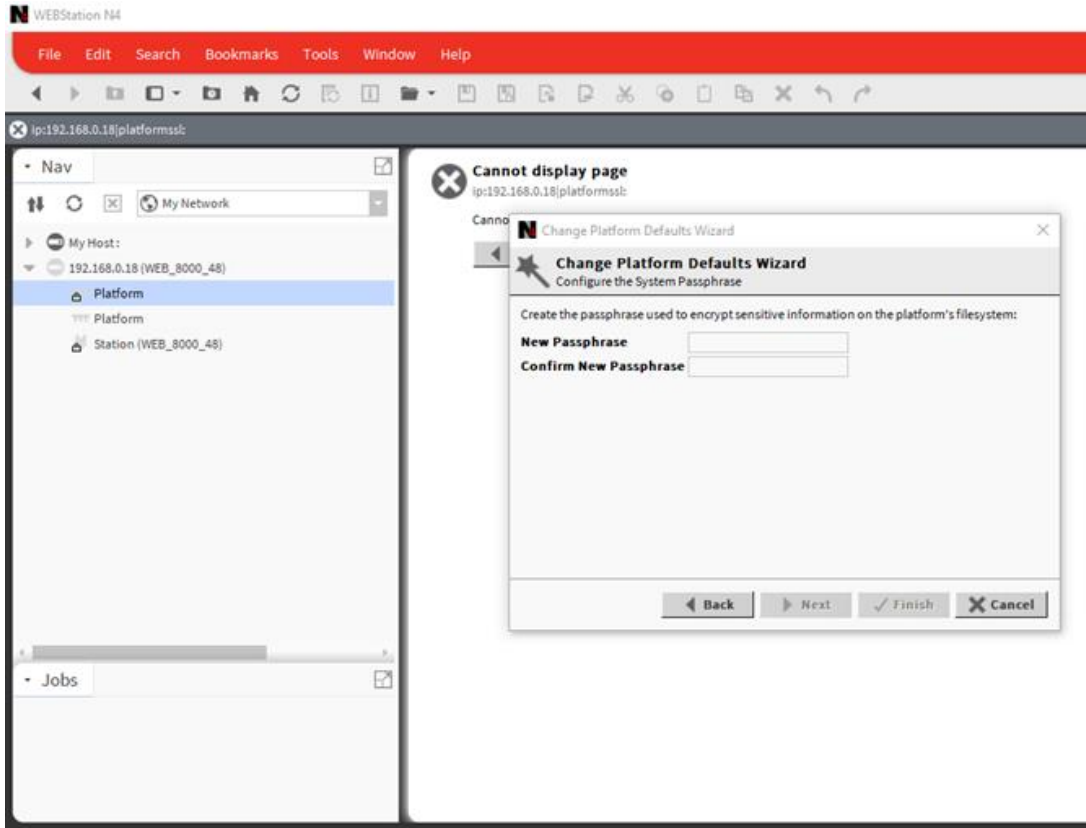1. Using the new WEBs-N4.9, connect to your WEBs N4.8 station Platform and make a station copy.
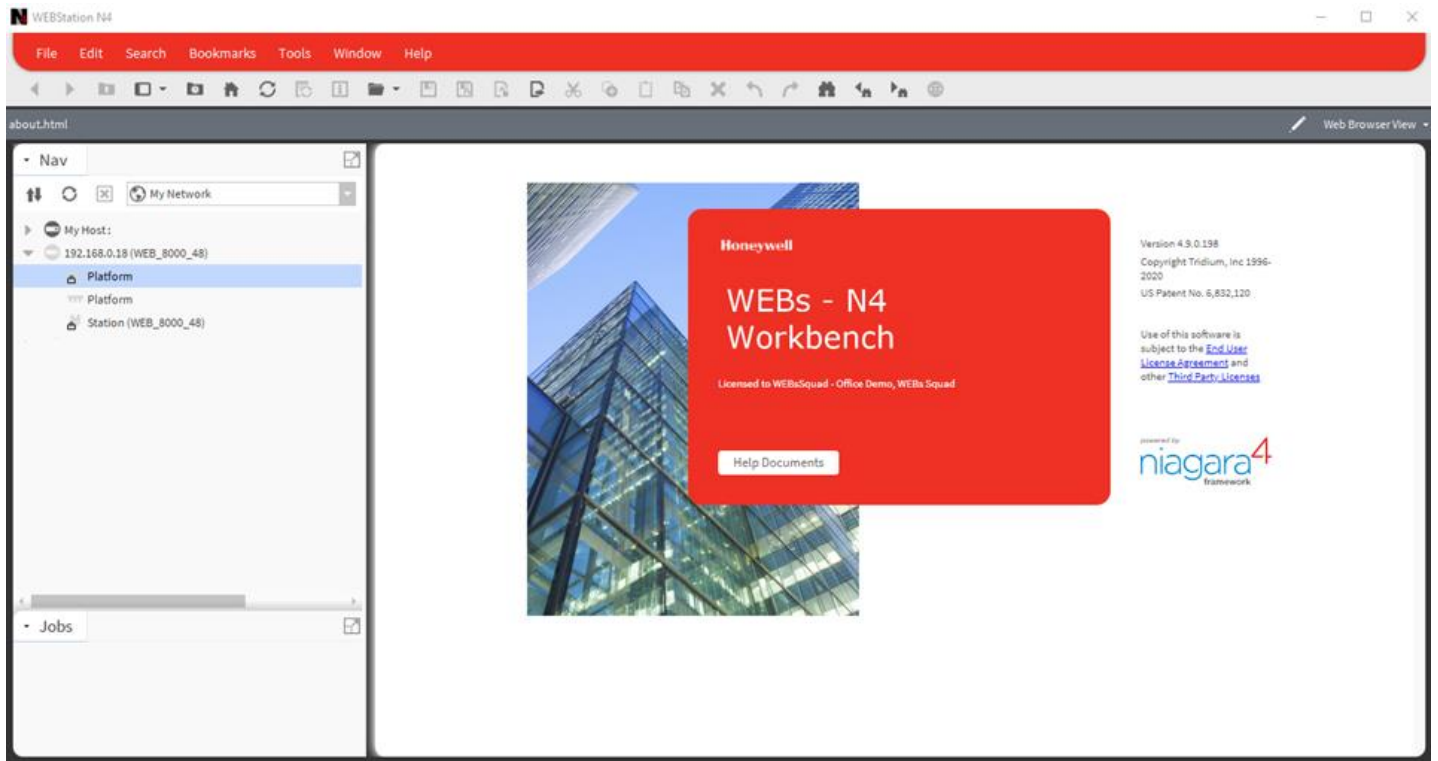
2. Go to Distribution File Installer and install the qnx-jace-n4-titan-am335x-clean.dist file.
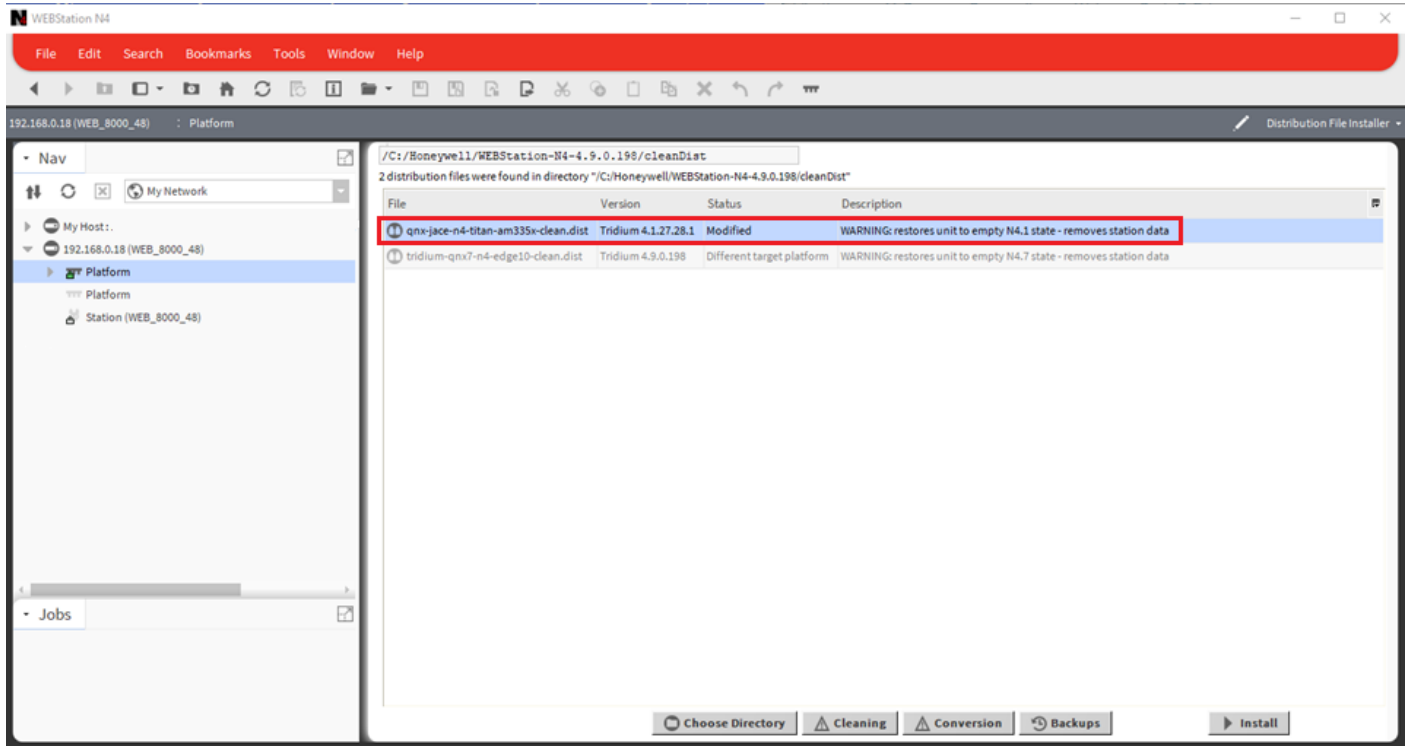
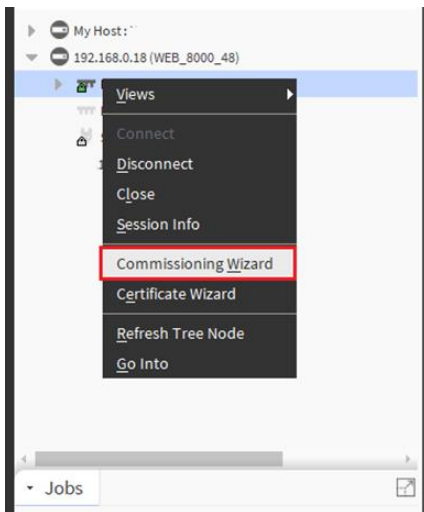3. Connect to the WEB-8000 Platform.
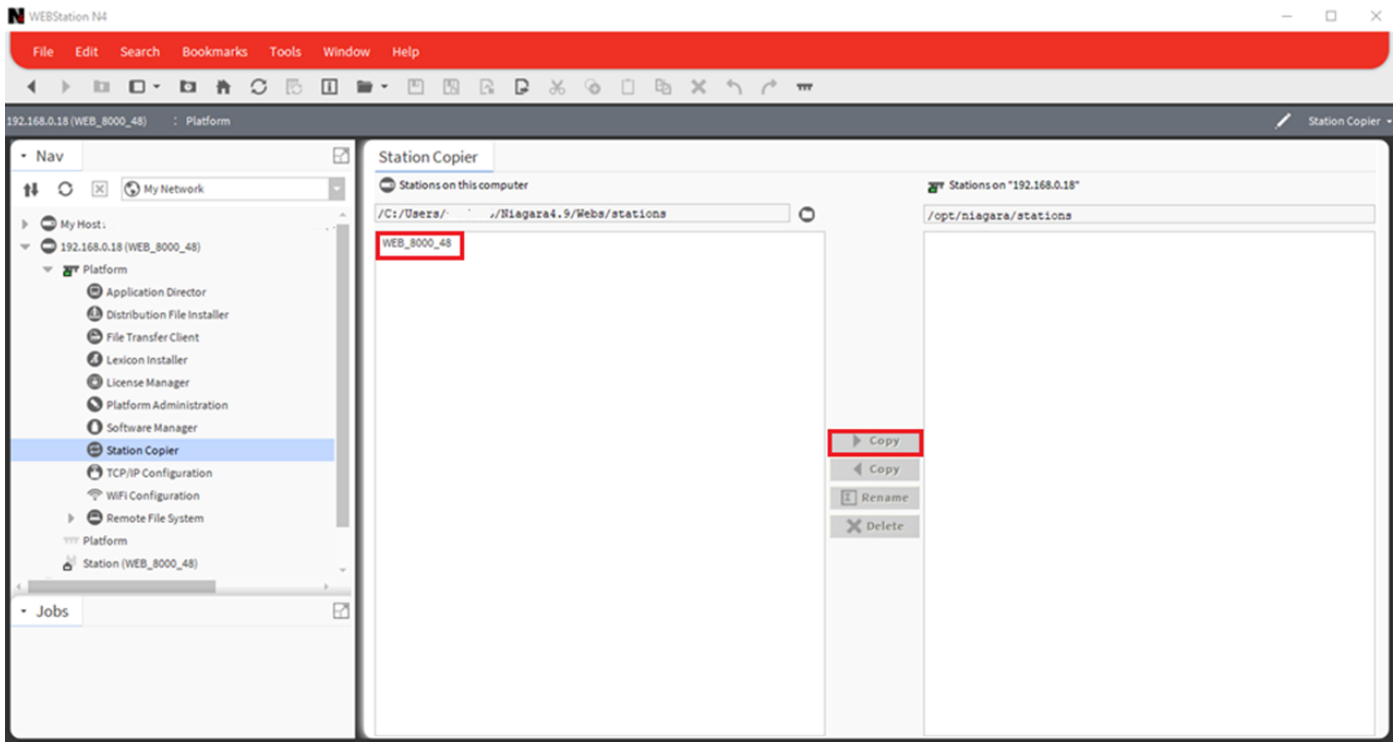
4. Update the Passphrase and Platform credentials.
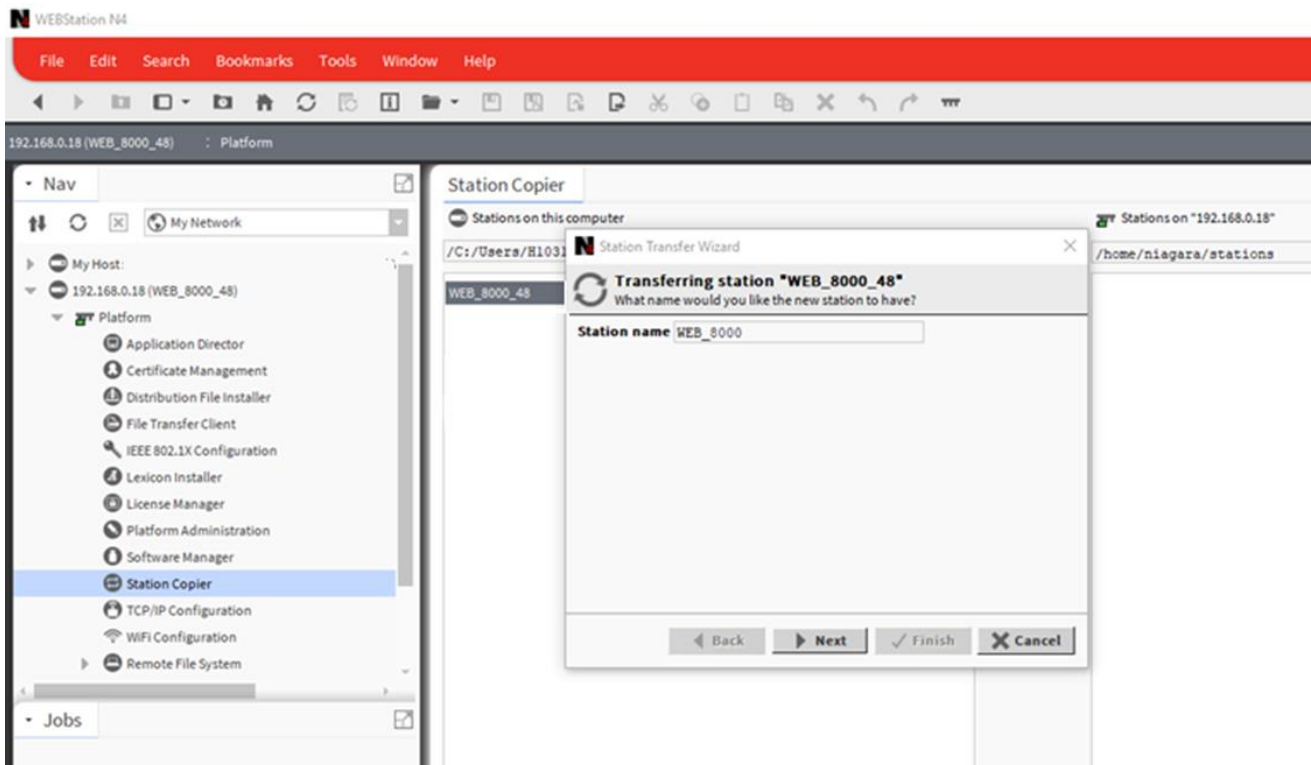
5. Reconnect the WEB-8000 Paltform.
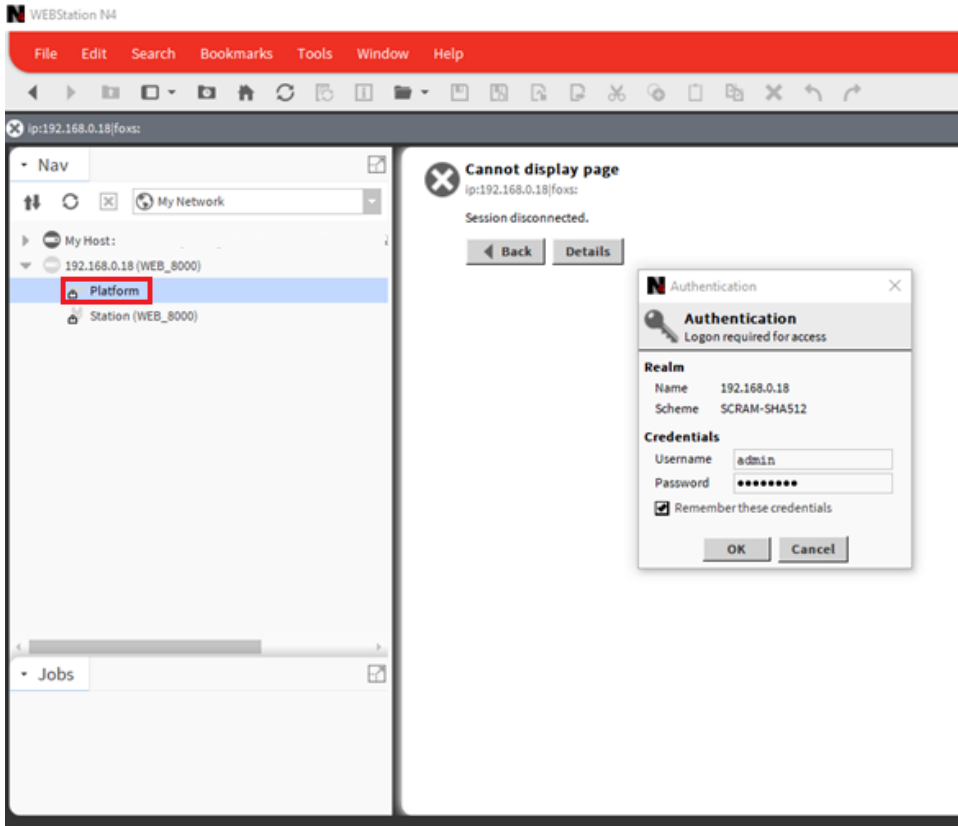
6. Right click on the Platform to select Commissioning Wizard.

7. After the commissioning is finished, connect the WEB-8000 Platform and go to Station Copier.
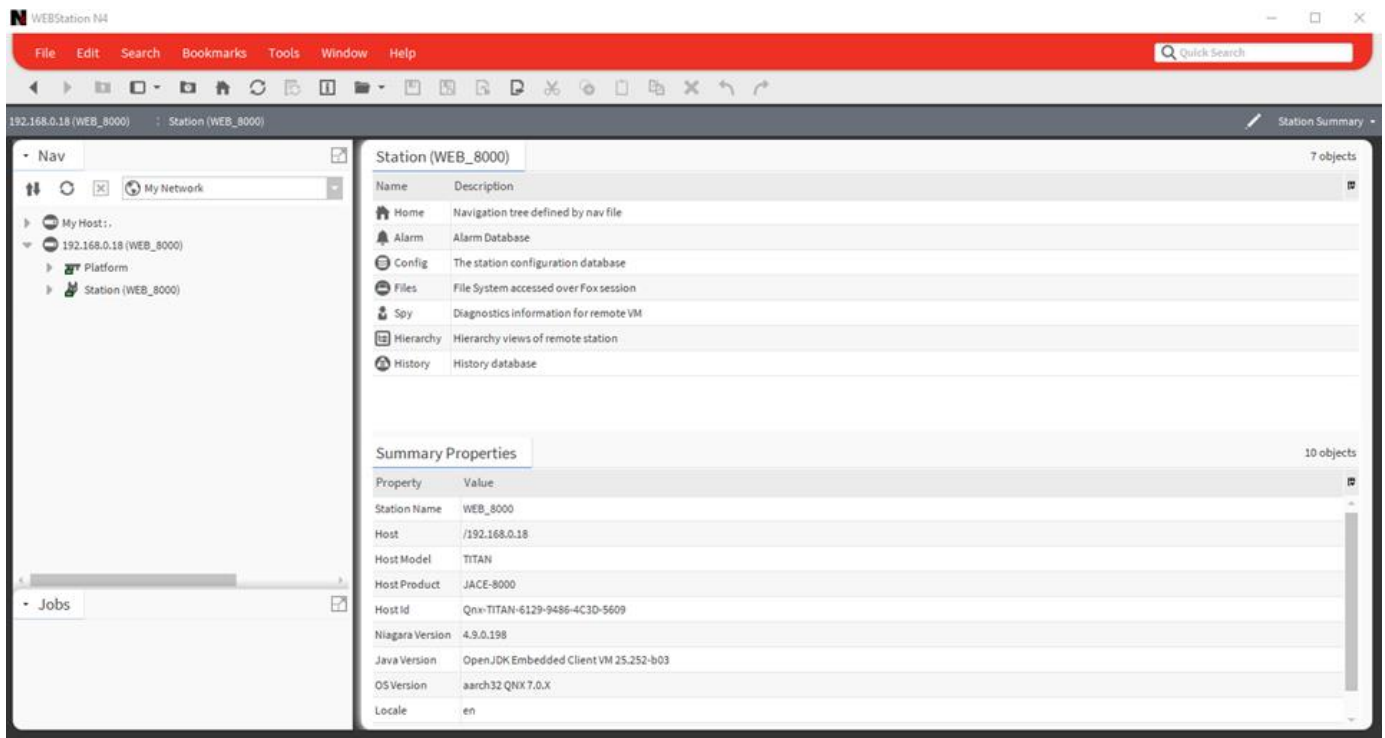

8. Copy the WEB-8000_48 station you made a copy of.

9. After the station is restarted, verify everything is operating as normal.

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 WEB-Station-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	These folders have to be deleted manually.

Limitation

- When user creates a new station on WEBs-N4.8, the EaglehawkNX.ntpl template vendor name displayed as "CentraLine" instead of "Honeywell". This limitation does not impact the functionality or operation on WEBs-N4 workbench.