

4.9 Release Notes (Jira)

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-41477	Security Appliance: Page over button not working for Consolidated Histories	Fixed issue in pagination of reports when the report type is selected as "Optimized" for Consolidated queries on the supervisor like the Audit and Attendance History. As a workaround in previous versions, go to the column chooser command switch the report type from "Optimized" to "Full report". Make sure to switch back to optimized after the station is upgraded to the fix version as this is more efficient for a station's limited resources.
Defect	NCCB-45883	Linux Niagara 4 installer failed to set the host ID	Previous versions of the Linux installer may have failed to create the Niagara Host ID if the installer_helper.sh was not created as executable. This has been corrected.
Defect	NCCB-41301	NiagaraStation's ping monitor does not appear to report some failed devices	Previously, the Niagara Ping Monitor could hang indefinitely due to improper handling of socket read timeouts. This issue has been resolved by properly setting socket read timeouts.
Defect	NCCB-40977	Windows Service for Niagara Daemon fails on ServicesPipeTimeout	<p>Previous versions of the Niagara Daemon on Windows Supervisor environments may have failed to shutdown in a timely fashion when stopped through the Windows Service manager, this has been corrected. You can manually stop the service (Niagara Service) through the Task Manager to ensure a timely exit.</p> <p>Previous versions of the Niagara Daemon would generate messages in the Windows Event View without a valid event code, resulting in messages with the warning "The description for Event ID 1 from source Niagara ....". This has been corrected to only display the relevant log information.</p> <p>Previous versions of the Niagara Daemon on Windows Supervisor environments may have failed to start as a service after a reboot. This has been corrected.</p>
Defect	NCCB-43082	Improve Niagara Resilience to Network Scans	Improved web service configuration to handle stresses of different types of network scanning tools. For more information on how Niagara will behave under these conditions please review the KB article Niagara 4.9+ and IT Network Scanners
Defect	NCCB-45210	Jetty Web Server on JACE-8000 locking up	Updated Jetty version and tuned appropriately for all known web server lockup issues.
Defect	NCCB-45662	Fox Weather Provider fails to update because illegal dynamic property argument	
Defect	NCCB-42883	Template Service "Bulk Deploy From Excel" does not release handle on excel spread sheet until Workbench closed / GC	When using an Excel workbook to bulk deploy a template from workbench, it was not possible to open the workbook once the deployment ran due to workbench keeping a lock on the Excel file. The file lock is now released immediately after deployment.
Defect	NCCB-18137	Lon Proxy Ext "Link Type" doesn't persist after Adding Proxy Point	In Lonworks LonPointManager linkType was force to unknown when user added new proxy points. This would override any setting user made when creating a new point.
Defect	NCCB-39092	Lon Utilities Manager Identify Service pin never times out	If user initiated a service pin action in Lonworks Utilities Manager and no service pin message was received the UI would never time out. Issue has been fixed such that appropriate timeout is observed and the execute button becomes available again.
Defect	NCCB-38281	Can not create more than 4096 Local Lon NVs in Lon Network	The maximum number of local nvs that can be supported is 4096. Added mechanisms to block adding more that this maximum and to provide an error popup when this is attempted.
Defect	NCCB-39826	DevTemplateMode shows duplicates	When using the DevTemplateMode to deploy Device templates, it was possible that a template name appeared more than once in the list of available templates. Now, the template will only appear once in the list.
Defect	NCCB-43043	License update for Edge device leads to multiple license files and station cannot start	The Upgrade Out-Of-Date provisioning step now removes existing license files that have the same brand but a lower case file name. It had been possible to end up with multiple license files on a device with the same brand, which would prevent the station from starting.

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Defect	NCCB-44706	DataRecoveryService deadlock between Nre:Engine and JobService	Previous versions of the Niagara Data Recovery Service could report a "deadlock" in the Application Director when encountering a Niagara History event for the first time. This has been corrected. An effected device will require a Niagara Station restart in order to correct the problem.
Defect	NCCB-43030	Template Editor Component Tab: Menu presented in Nav Tree is different	The Template Editor Component tab has been changed to present the full Edit menu when right-clicking on a component in the navigation tree on the left side panel.
Defect	NCCB-46905	nre.properties 256M value is not enough for default Supervisor Niagara Station	The default Java Heap size for Niagara Supervisor Stations has been increased from 256 MB to 512 MB. Please use the nre.properties file to modify this value as your installation requires.
Defect	NCCB-46584	CryptoCoreClientSocketFactory error handling does not properly escape IPv6 device specification	<p>Previous versions of Niagara may have failed to properly escape the IPv6 device specification character (%) when creating TLS client error messages for failed IPv6 connections. This would lead to the client failing to create the relevant error message such as:</p> <p>"SEVERE [12:31:32 28-Mar-20 EDT][crypto] Could not create socket fe80:0:0:0:bce6:3bb3:6bd9:ed06%10:5011]. Cause is: ".</p> <p>This has now been corrected.</p>
Defect	NCCB-46638	Cannot deploy template if it is open	There are specific conditions where a template installation initiated from the Template Sidebar drag-and-drop is not completed successfully if the template is open in the Template Editor. This situation will now result in an error dialog indicating that the Template Editor must be closed before installing the template.
Defect	NCCB-45884	set property job step fails for BWebProfileConfig with javax.baja.sys.NoSuchSlotException selectedHxTheme	The provisioning 'Set Property' step would fail if the property type was a BTypeConfig. Properties with this type can now be set through the 'Set Property' provisioning step.
Defect	NCCB-45002	Application template installation job fails for Windows Server 2019 Supervisors provisioning remote stations	When using an Excel spreadsheet for template bulk deployment or provisioning, the Excel workbook must be exported from the template being installed, and the names must match. Re-using an Excel workbook for a re-named copy of a template led to an exception during deployment. The name mismatch that generated the exception is now checked, and a deployment failure message will be issued instead.
Defect	NCCB-45467	Application Template component tab menu differs between a saved template & one being created	Fixed an issue that caused some context menu items for components in the navigation tree of the component tab of the template editor to be incorrectly disabled when editing a template file.
Defect	NCCB-41949	BMultiStationNamePickerFE does not coalesce duplicate selections as intended	Previous versions of the Niagara exportTag MultiStationNamePicker Field Editor would not properly coalesce duplicate Station name entries selected during save. This could result in a BList of a values that could contain duplicate Station names. This has now been corrected to remove duplicate selections.
Defect	NCCB-40821	Images don't show in template editor when reopened	Corrected an issue that blocked loading of some image files when editing graphics in a template.
Defect	NCCB-39263	Station based backup requires access to platform net, DHCPD, WiFi directories	Previous versions of Niagara may fail to restore the WiFi, 802.1X and DHCPD configurations of the platform when a backup distribution was restored through the Backup Service of a running station. Backups installed through the platform Distribution File Install were not affected.

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Defect	NCCB-37275	Obix client authentication floods audit history	<p>Previously, Obix connections to a Niagara Obix server would result in a new session being created for each request, resulting in excessive authentication audit events.</p> <p>In 4.9, the option to allow Obix clients to re-use sessions has been added with the Allow Session Reuse property on the Obix Server, and is disabled by default. Enabling this property allows third party Obix clients that include the session cookie on subsequent requests to reuse their session, reducing the number of authentication audit events.</p> <p>In 4.10, the Allow Session Reuse property has been enabled by default, and the internal Niagara Obix client has been updated to include the session cookie on subsequent requests. The 4.10 changes introduce a breaking change to the public HttpConnection API. See "Breaking Change: HttpConnection getResponseHeaderFields method removed" for more information.</p>
Defect	NCCB-41419	Rightclick menu on Config space sometimes takes a long time to appear	Corrected an issue that sometimes caused a significant delay when invoking the context menu for the root Config component of a large station.
Defect	NCCB-44364	Sub-Template causing Null pointer exception	Corrected an issue that could result in failure to open a template for editing when that template contains a sub-template that is out-of-date.
Defect	NCCB-44366	Template drop failure will corrupt the template	Corrected an issue that could cause cryptic error messages and file corruption to a template if a sub-template was added while editing the template.
Defect	NCCB-36695	Cannot have multiple Px images with the same name in device or application template	Corrected improper handling of template files in subdirectories when file names were identical.
Defect	NCCB-45294	Closing the Certificate Wizard while generating a new certificate results in infinite NPEs	Corrected an issue that would cause repeated error messages if the Certificate Wizard was canceled while certificates were being generated.
Defect	NCCB-44186	Can't deploy template twice	Corrected an issue that sometimes produced a cryptic error message and prevented deployments of a template after one successful deployment of that same template.
Defect	NCCB-44441	Update Default TLS Level for Fox and Web in Station Templates to TLS 1.2	Starting with Niagara 4.9, new stations will default to using TLS 1.2 for both Fox and Web services.

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Defect	NCCB-44919	Niagara daemon logs cipher warnings w/ Jetty 9.4	<p>Due to updates with industry best practices, the ciphers suite support by Niagara TLS connections (niagarad, fox, web) have been updated:</p> <ul style="list-style-type: none"> <li>* removed SHA suites from the recommended list</li> <li>* added DHE suites to both recommended and supported lists</li> <li>* with the addition of the DHE suites, removed DSS suites</li> </ul> <p>Â</p> <p>* NOTE: Clients always use the "supported" list for backwards compatibility. * NOTE: Servers continue to default to the "recommended" list.</p> <p>Â</p> <p>   Recommended Cipher Suites (13 values)       Name   Encryption Bits   Message Auth Cipher   Key Exchange Cipher   Encryption Cipher     TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384   256   SHA384   ECDHE_ECDSA   AES_256_GCM     TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256   128   SHA256   ECDHE_ECDSA   AES_128_GCM     TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384   256   SHA384   ECDHE_ECDSA   AES_256_CBC     TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256   128   SHA256   ECDHE_ECDSA   AES_128_CBC     TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384   256   SHA384   ECDHE_RSA   AES_256_GCM     TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256   128   SHA256   ECDHE_RSA   AES_128_GCM     TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384   256   SHA384   ECDHE_RSA   AES_256_CBC     TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256   128   SHA256   ECDHE_RSA   AES_128_CBC  </p>
Defect	NCCB-44438	Module signature verification in commissioning doesn't account for trust store of new jre	<p>In affected versions, the Commissioning Wizard may indicate signature warnings or errors for selected modules due to the outdated system trust store on the Jace. In fixed versions, modules will be validated using the system trust store that will take affect when commissioning is complete.</p>
Defect	NCCB-42826	Ordering of services changed after application template installation	<p>Corrected the ordering of services after application template installation to match the order of the template source.</p>
Defect	NCCB-43414	Template load exception when creating application template on some stations	<p>Corrected an issue that could prevent creating a new application template from a station installed through an application template where components linked to the template configuration were removed after installation.</p>
Defect	NCCB-38307	Data Recovery Service in "Ready" state but blocks are "Reserved, Idle, Idle"	<p>Previous versions of the Data Recovery Service could enter a fault state under heavy stress during the Station save process characterized by the blocks being Reserved, Idle, Idle even though the service is in "ready" state. This behavior is now audited and corrected if it occurs.</p>
Defect	NCCB-43418	Template load exception - error in opening zip file when configuring passwords in Component tab of template editor	<p>Corrected possible template file corruption caused by passwords entered in the Component tab of the template editor. Note: passwords entered this way will not be saved in the template file.</p>
Defect	NCCB-40589	Bulk Deploy Relation link fails when used with lexicon	<p>Inbound and Outbound relations now use the localized label to find matching components during bulk deployments.</p>

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Defect	NCCB-36421	Importing a certificate with no extendedKeyUsage extensions fails with NPE	A NullPointerException was being thrown when importing a keypair/certificate combination in to the Niagara Key Store when no ExtendedKeyUsage was present. Niagara will now successfully execute the import.
Defect	NCCB-39576	Creating a Device Template generates a duplicate in Device Template Mode view	Corrected an issue causing duplicate listings for device templates in device manager views.
Defect	NCCB-41597	Linux Installer: NCCB-16541 changes install path inconsistent with install.properties	Previous versions of the Niagara installer for Linux Supervisors would not use the installDirectory.defaultFolder install.properties value if brand.id was defined in brand.properties. The installDirectory.defaultFolder will now be used above all other default folder values when it is available.
Defect	NCCB-40822	Graphics don't show in template view for ACE application templates	Corrected an issue that prevented graphics from showing in the template editor for an application template that has Edge ACE components.
Defect	NCCB-40820	Duplicate graphics files in application and station templates; edits are non-effective	Corrected an issue that sometimes prevented changes to graphics within the template editor to be deployed.
Defect	NCCB-42908	Provisioning step 'Set Property' gives an error for Property name containing 'Space'	The Set Property provisioning step can now accept a string with a space as a valid property name.
Defect	NCCB-40004	Engine Watchdog Timeout policy of "Reboot" should not be allowed, invoked on platforms that do not support reboot	Previous versions of Niagara would allow a "Reboot" Engine Watchdog Policy on platforms that did not support reboot actions (Supervisors). The System Platform Service Plugin will now only show the policy values permitted for that platform.
Defect	NCCB-42556	Unable to set platform credentials via template configuration	Device platform credentials can now be selected as configurations when creating a template. Device station (Fox) credentials were already supported as configurations.
Defect	NCCB-37341	dataRecoveryManager spy page clears its event history when it goes into fault	Previous versions of the Data Recovery Service might fail to include block contents in the spy pages when the service is in fault. This has been corrected.
Defect	NCCB-40826	Configuration slots fail to set value when Application Templates are deployed via provisioning	Bulk Deployment of templates that contained configurations for custom Types that extended from concrete BStatusValue Types (BStatusNumeric, BStatusString, etc.) could generate a ClassCastException and fail to deploy correctly. This has been fixed to allow this type of deployment.
Defect	NCCB-38305	Client TLS handshake can get stuck in an infinite loop	Previously, making a TLS connection to a server who's certificate has changed from Workbench or Station could cause the connection to hang indefinitely. This has been resolved. Workaround for affected versions is to kill the hung Workbench or Station and restart.
Defect	NCCB-23835	Cannot read groups defined in Windows Admin group	Previous versions of Niagara could fail to properly authenticate Niagara Daemon users on Windows platforms that used nested (indirect) local or domain group membership as the Niagara administrative group. Nested groups should now be supported for both local and domain groups.
Defect	NCCB-33155	Application Director and Niagara console do not handle UTF-8 characters	Previous versions of Niagara did not properly handle non-ascii text in the console.exe application by default. The default code page of the console.exe application has been updated to UTF-8 (65001). Further code page support can be obtained by using the Windows 'chcp' command.  The Application Director and Niagara Daemon Output views have been updated to properly handle non-ascii output.
Defect	NCCB-35133	device template deployment creates BFolder parent	When a bulk deploy operation needs to create a folder to contain the deployed template, it will now create the correct type of folder rather than a generic folder. This corrects problems with manager views for device driver networks and other places.
Defect	NCCB-39171	Station password allows non-ascii chars but impossible to login with it	Previously, setting user passwords through HTML5 views with non-ascii characters would cause the password to become corrupt, making login attempts with the password fail. This has been resolved.

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Defect	NCCB-39043	UpdateSshdMessage uses default daemonsession.timeout value, fails on short custom values	Previous versions of Niagara Workbench might report a session timeout error when enabling SSH on a remote embedded platform if they were using daemonsession.timeout values of < 10 seconds. This has been corrected.
Defect	NCCB-39340	NullFirewallProcessor consumes thread on platforms that don't use Pf based Firewall rules	Previous versions of the Niagara Station would create an unnecessary "tFirewallProcessor" thread in Supervisor environments. This thread will no longer be created in environments where it is not required.
Defect	NCCB-35850	Google Chrome will not trust self-signed certificates with IP Address for CN and SAN	A defect has been addressed that resulted in an incorrect subject alternative name entry being created when submitting an IP address instead of a DNS name. Newly created certificates will now create the proper subject alternative name entry with the appropriate general name type.
Defect	NCCB-46554	Modal PopupBinding should focus on previous popup windows on second click	kitPx:Popups in HxPx Media will now attempt to focus an existing popup if you open that modal=true popup while remaining on the same browser tab. Chrome 81 is currently capable of providing this functionality, but browsers like Firefox may only focus on an existing Popup if it links to the same host as the current station, as this functionality is limited by the browser's rules on interacting with "cross-origin objects".
Defect	NCCB-27899	Polygon with value binding and hyperlink has incorrect "hitbox" in html profile	HxPx Shapes and Paths now render in svg instead of canvas. This was done so that mouse overs should behave more similar to workbench. In some cases, svg will be a more precise rendering technology than canvas, but if you prefer the older canvas rendering technology (or you just want to compare), you can set this system property: "hx.graphics.canvas=true". You can also add a View Parameter of " view?svg=false" to your URL to any HxPx View to view the older canvas rendering.
Defect	NCCB-47613	non-superuser cannot expand or view services in station via browser	In 4.9 BETA, non-super users without superuser could not access the Service from an HxProfile, this has been corrected.
Defect	NCCB-37908	StringFilter "Must Include" option is confusingly worded	When using a StringFilter (for example, when filtering the results of the Audit History table), the wording has changed from "Must Include" to "Must Match." This more closely matches the real behavior, or represents a pattern match rather than a simple substring search.
Defect	NCCB-2483	Chinese Language characters are not supported in Workbench Console	In previous versions of Niagara, Chinese Language characters were not supported in the Workbench Console. This issue has been fixed and the embedded workbench console now supports showing UTF_8 characters like Chinese Letters.
Defect	NCCB-32700	HxPxBorderPanels render content incorrectly when label property is non-null	In Niagara 4.8, when a Label was added to a BorderPane, the border would not paint correctly when viewed in a browser. This issue has been corrected and the HxPxBorderPanels render content correctly when the label property is non-null.
Defect	NCCB-23460	baja.NameList fails to decode a BNameList with trailing semicolon	The baja.NameList fails to decode a BNameList with a trailing semicolon. This issue has been fixed and the trailing semicolon for the NameList no longer causes problems when entered. Additionally, the NameList now also ignores leading and trailing whitespaces.
Defect	NCCB-27850	Intermittent error when changing facets slot of any point	While viewing an HTML5 Property Sheet, when the facets of a slot changed simultaneously with the value of that slot, an error message was sometimes displayed requiring the page to be refreshed. This often occurred when editing the facets of a point that was constantly changing such as a Ramp or SineWave. This issue has been fixed accordingly and the intermittent error is no longer issued when changing facets slot of any point.
Defect	NCCB-19508	PxEditor's BDouble editor can read but not write in the user's specified number format	In previous versions of Niagara, DoubleCE and FloatCE (used for editing numeric properties in the Px Editor) could only read numbers using a dot for a decimal separator. This issue has been fixed and both editors can now successfully read numbers using the decimal separator appropriate to the current locale.

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Defect	NCCB-40625	Bajaux BacnetDate field editor does not display localized day of week	In previous versions of Niagara, the BacnetDate bajaUX editor did not support localization. This issue has been fixed and users can now select or edit BacnetDate in their local language accordingly.
Defect	NCCB-41530	CircularGauge does not honor unitConversion point facet	In Niagara 4.8, the CircularGauge does not honor the unitConversion point facet. This issue has been fixed and the Circular Gauge now presents the properly converted tick marks when the unitConversion point facet is used.
Defect	NCCB-30925	Use of Source Sans Pro font in N4 px pages fails in browser	In previous versions of Niagara, the use of Source Sans Pro font in N4 px pages would fail when viewed in a browser. This issue has been fixed and N4 px pages that contain Source Pro font now render correctly in web browsers.
Defect	NCCB-37568	History Db Maintenance has incorrect selector labels	In previous versions of Niagara, the History Db Maintenance contained incorrect selector labels. This issue has been fixed and there is now consistency between the lexicon text in the browser and workbench history modules.
Defect	NCCB-35863	Exporting histories to a chart file does not relativize any points with histories	In previous versions of Niagara, exporting chart files with relative ords contained therein would not correctly save the data. This issue has been fixed and exporting charts with relative ords now works correctly along with when saving chart files that contain n:history tags and points with history extensions.
Defect	NCCB-33228	WebChart fails to load when encountering invalid units	In previous versions of Niagara, the WebChart failed to load when a point or history had a custom Unit which wasn't in the Unit.xml database. This issue has been corrected and custom unit.xml symbols now properly display on the bajaux PropertySheet of NumericWritables.  As a workaround for previous version of Niagara, the unit.xml can be modified to include those missing units.
Defect	NCCB-27051	Numerics/NumericEditors in Workbench Bajaux views does not respect user locale Numeric Formatting	Workbench bajaux Number editors did not respect workbench locale changes. This issue has been fixed and Numerics, along with Number editors in Workbench bajaUX views will now display based on the locale set.Â Â
Defect	NCCB-21386	svg animation issues in workbench with kitPxN4Svg	In previous versions of Niagara, SVG files exhibited multiple animation issue where animated looping SVG's would stutter and not animate smoothly. This issue has been fixed, and SVG files now render correctly.
Defect	NCCB-40726	Px view exports from browser do not work with non-slot ord schemes like hierarchy	When operating in a browser, exporting a PxView to PDF on a non-slot ord such as a hierarchy, handle, or virtual ords was causing an error which prohibited its export. This issue has been fixed, as PxViews exports are now working correctly.
Defect	NCCB-42043	html grid table ignores BCompGridColumn ord property for BSingleQueryRow	In previous versions of Niagara, the HTML Component grid displayed incorrect values for query templates with columns that contain slot references. This issue has been fixed, and the HTML Component grid now displays the correct values, while respecting the slot ords in each column.
Defect	NCCB-39494	Boolean history does not plot the data left and right of first and last values in time range	In previous versions of Niagara, WebCharts did not load data before and after the range request, which left areas on the graph unfilled despite the presence of data beyond the specified range. This issue has been fixed and the WebChart will load in one record past and before the range to visualize the data trend when records are available.
Defect	NCCB-36477	Bajaux Alarm Console does not display special characters correctly	In previous versions of Niagara, the Bajaux Alarm Console did not display special characters correctly. This issue has been fixed, as escaped characters are no longer a problem in the Bajaux Alarm Console details dialog.
Defect	NCCB-39692	Webchart boolean History unable to change time period	In previous versions of Niagara, you could not add a query to the ord of a WebChart on a Px page. This issue has been fixed, and you can now successfully add a query to the ord such as time period.

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Defect	NCCB-42900	WebChart csv export includes pre and post records	When in data zoom view, the view will extend beyond the first or last data point when there is a record before or after the data on the graph. This provides a visual representation of the data trend, but when exporting the chart to csv, it would not include the data shown in that view. This issue has now been fixed, as csv chart exports now exclude pre and post records based on the targeted date range.
Defect	NCCB-35131	When field editor doSave fails, duplicate errors are shown	In the previous versions of Niagara, saving an HTML5 property sheet that exhibits a save failure could result in multiple, duplicate error dialogs. This issue has now been fixed and will only display one error dialog for a save failure.
Defect	NCCB-35061	HTML5 in web browsers can fail to load due to Web File cache corruption on first load	In previous versions of Niagara, while operating in a browser and loading the first page since a station restart, if you had pressed the "stop" button in your browser then the "web file cache" can frequently get corrupted (especially if loading from JACEs). This error results in missing javascript and css code, which can prevent future page loading attempts. This issue has been now been corrected in Niagara 4.9.  To workaround this issue in older builds, however. go to this spy "spy:/webFileCache/vFileWebCache", click clear therein and then clear your browser cache accordingly. This should regenerate the proper javascript and css without an additional station restart.
Defect	NCCB-43377	feDialogs incorrectly validates non-root widgets	If additional Widget validations are located inside the main Widget, the OK button continues to flash as enabled even though it has actually been disabled, as the webEditor's feDialogs.js was incorrectly validating more than just the main widget. This issue has been corrected and the webEditor's feDialogs.js is now correctly validating more than just the main widget.
Defect	NCCB-42678	Cannot view alarm notes under bajaux Database Maintenance View	In previous versions of Niagara, users were unable to view alarm notes under both the Bajaux Alarm Database Management and Database views. This issue has been fixed, as there is now have a command in the alarm details dialog which shows the notes in each view.
Defect	NCCB-38910	Stacked bar chart does not display using Last24Hours and rollup function	In past releases, when rollup was turned on, certain graphs such as Stacked Bar Chart had issues displaying data in the last 24 hours and last 7 days. This issue has been fixed, as start times now round up to the top of the hour / day for the last 24 hours and 7 days respectively.
Defect	NCCB-44268	Web Scan Result " Internal Server Error (trailing slash on '/login/' request)	In previous versions of Niagara, placing a trailing slash after login while attempting to login to a station host via a web browser caused an HTTP 500 error. This issues has been fixed, as a trailing slash placed after login, for example <host>/login/, will not redirect the user to the login page. Additionally, a trailing slash placed after login will now display an HTTP error 404 along with a "Not Found" message.
Defect	NCCB-40849	HTML5 User Manager allows simultaneous editing of Authenticators of incompatible types	When using the HTML5 User Manager to edit multiple users at once, and those users do not all share the same Authenticator type, then editing of the Authenticator will be disabled for that group of users. Only individual users, or groups of users with the same Authenticator type, will allow you to edit their Authenticators.  The HTML5 Abstract Manager Framework has been updated so that any {{MgrColumn}} instances that throw an error from {{coalesceRows()}} or {{getConfigFor()}} will show a generic "cannot edit" message, just the same as the AX version.  The {{mgr.typeColumn.cannotEdit}} key in the {{webEditors}} lexicon is now {{mgr.cannotEdit}} and applies to all non-editable {{MgrColumn}} instances, not just those for Types.

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Defect	NCCB-43462	UxManager Table does not use display names	HTML5 Manager Views now match the behavior of the existing bajaUI Manager views and show the display name of a component in the Name column. Both Managers continue to show the slot name when in edit mode.
Defect	NCCB-39555	Predefined chart displays can show incorrect time periods	Multiple preexisting issues were resolved through this defect;  When loading a predefined chart, if the Data Zoom or Time Zoom was active while switching time ranges, some of the data would not show up on the chart unless it was manually zoomed in. The ToolTip was not displaying when the sampling could not be turned off due to too many points being located therein. Axis that were previously locked would persist as unlocked regardless of user interaction.
Defect	NCCB-41106	Cannot download files with extended Unicode characters in content	In previous versions of Niagara, unicode characters such as smileys, in files were not supported by workbench or browser views. This has been fixed and you can now view or download files with content that contains extended unicode characters.
Defect	NCCB-32983	HTML5 SlotChooser fails to load if either source or target has no linkable slots	In previous versions of Niagara, an exception was issued if no slots were available for linking when using "link-mark", "link-to" or "link-from". This issue has now been fixed and no longer throws an exception if no slots are available for linking.
Defect	NCCB-42917	CSV exports vulnerable to formula injection	When exporting a table to CSV, a cell that began with an equals sign or other mathematical character could have been interpreted as a formula by a spreadsheet program and executed accordingly. Now, any cell in a table export that looks like a formula will be prepended by a space, which will prevent it from being executed.  To revert back to the previous behavior, set the following system property:  <pre> {code} niagara.export.preventCSVInjection=false {code} </pre>
Defect	NCCB-44753	PopOutCommand does not maintain complex/slot settings when building the popped-out editor	When building an editor, <code>{{fe}}</code> and <code>{{feDialogs}}</code> now allow <code>{{value}}</code> to be passed in along with <code>{{complex}}</code> and <code>{{slot}}</code> . The specified value will be loaded into the editor and they will reject if the given value is not the correct Type for the slot.  When using the "pop-out" on a row in a Property Sheet for a custom editor, <code>{{getComplex()}}</code> and <code>{{getSlot()}}</code> will now return the correct values.
Defect	NCCB-44582	Moduledev provides insufficient logging info to diagnose problems	ModuleDev info logging has been improved to assist developers in diagnosing problems with their <code>moduledev.properties</code> configuration.
Defect	NCCB-44132	html grid table right click Go To links to individual components	In Niagara 4.8, the "Go To" hyperlink on a Component Grid context menu was redirecting to the subject of the cell, instead of the subject associated with row. This issue has been fixed, and the user will now be correctly redirected to the row's subject while behaving similar to the row double click function.
Defect	NCCB-41974	HxCollectionTable does not respect Column facets like showing seconds for Series Transform time precision	In prior versions of Niagara, the HxCollectionTable did not respect Column facets showing seconds for Series Transform time precision. This issue has been fixed, as the HxCollectionTable now respects Column facets like showing seconds for histories and series transform columns.
Defect	NCCB-42923	Missing NSpaceScheme in BajaScript	In prior versions of Niagara, resolving an nspace Ord via a browser client (bajaScript) would result in the server side to an unmounted station component that cannot be used in Bajaux views. Resolving an nspace Ord via bajaScript that resolves to the local, or remote component space, is now supported in Niagara.

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-45115	Html5 Grid Table sorts incorrectly so its sorting should be disabled	In Niagara 4.8, HTML-5 grid tables were sorting incorrectly, as values in the 100s would appear above those in the range of 20-to-99. This sorting has now been disabled on the HTML 5 Grid Tables to match the existing Workbench behavior.
Defect	NCCB-44061	Labels layout incorrectly when added to ReportPane	In Niagara 4.8, when a ReportPane contained labels showing multi-line texts with word wrap, the text would not wrap correctly on the first layout, but rather only after the ReportPane had been resized. This has been corrected, so the text wraps correctly on first layout.
Defect	NCCB-45305	Html5HxProfile Save command is missing in mobile mode	When the <code>{{flags}}</code> argument was undefined, the <code>{{flatten}}</code> function in the <code>bajaux</code> module <code>{{bajaux/commands/CommandGroup}}</code> would incorrectly only include Commands whose flags were set to <code>{{Command.flags.ALL}}</code> . This has been corrected, so <code>{{commandGroup.flatten()}}</code> without a <code>{{flags}}</code> argument will include all Commands regardless of flags.
Defect	NCCB-40100	WebScheduler summary tab does not work on virtual schedules	In previous versions of Niagara, the WebScheduler Summary tab failed to load correctly, as the schedule <code>getSummary</code> RPC was missing a parameter that was causing this behavior. This has been fixed, and the WebScheduler summary tab should now render and function accordingly.
Defect	NCCB-43052	PxViewToPdf does not output up-to-date data in HistoryTables	In Niagara 4.8, the PxViewToPdf export did not include current data in History Tables. This has been fixed, and the data should now be up-to-date when exporting HistoryTables into a PxViewToPdf .
Defect	NCCB-39628	WebLauncher does not support 4K monitors like wb.exe	WebLauncher does not scale well when viewed in High DPI displays. This issue has been fixed, and there is now a batch script available as part of the Web Launcher install directory, which sets the necessary properties on the executable/s to support High DPI displays.
Defect	NCCB-41508	Web Launcher fails when WebService Applet Module Caching set to User	In previous versions of Niagara, setting the applet cache type in the WebService to "User" caused Web Launcher to fail. This has been fixed and Web Launcher should load the station successfully.
Defect	NCCB-40623	Add URL whitelist for WebStart/WebLauncher	<p>By default, WebStart and WebLauncher can no longer be used to directly navigate to arbitrary Web addresses . The only way to directly load external URLs in WebStart is by entering a whitelist in the station's system property for <code>niagara.webbrowser.urlWhitelist</code> system property. See the section "Configuring the Web Browser Whitelist" in the Getting Started with Niagara User Guide for details on syntax.</p> <p>If there are hyperlinks between stations and they are in each other's whitelists, then consider that you may still want to open a different WebLauncher or Webstart instance when you get to their login pages, as this ensures the modules that are loaded are specific to the station you are viewing.</p>
Defect	NCCB-46700	nCloudDriver prevents Ux Views when maintenance has expired	In prior versions of Niagara, the UI fails to load if its associated module has as an internal error, expired license or if it's a incompatible version. UI views no longer fail to load during such conditions and all associated errors are now appropriately logged.
Defect	NCCB-46806	Clicking on invisible Polygon no longer works	HxPx Shapes and Paths that have "Null" set on the Fill and Stroke properties now render in svg instead of canvas. This was done so that mouse overs behave more similar to workbench. In some cases, svg will be a more precise rendering technology than canvas, but if you prefer the older canvas rendering technology (or you just want to compare), you can set this system property: <code>"hx.graphics.canvas=true"</code> . You can also add a View Parameter of <code>" view?svg=false"</code> to your URL to any HxPx View to view the older canvas rendering.

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-43010	Web Start/WebLauncher cannot load tridium.com by default	When using Web Start or Web Launcher to connect to a station that does not provide the <code>{{niagara.webbrowser.urlWhitelist}}</code> system property, the default browser whitelist is used. This default whitelist now allows access to tridium.com and niagara-community.com.
Defect	NCCB-44742	Information Disclosure in Web Socket	In prior versions of Niagara, any server side error as a result of decoding a BOX message passed on more details to the user than was necessary. This is fixed now so that the user will only see a generic error message in the event of a failure decoding a BOX message. If Show Stack Trace is turned on in the Web Service, the full stack trace will be sent to the browser, but not shown to the user.
Defect	NCCB-38344	Views that check the current user do not work if username has special characters	When logged in via the HTML5 profile, as a user with spaces or other special characters in the username, certain editors would incorrectly display roles and permissions that were not actually editable by the user. (Attempting to edit these roles and permissions would still fail on the station, so this did not represent a privilege escalation.) This has been corrected, so any roles and permissions you do not have the ability to edit will be hidden or marked readonly.
Defect	NCCB-41132	JxBrowser remote debugging port clashes with Karma	The port used by JxBrowser's remote debugging capability in Workbench can now be configured with the <code>{{niagara.jxbrowser.remoteDebuggingPort}}</code> system property. It will default to port 9222 if not specified.
Defect	NCCB-18843	Hx javascript files and other web resources require browser clear cache to take effect	HxProfiles no longer require clearing your browser cache to get new js and css files from module resources. Module image files are less likely to require a clear cache, but sometimes you may need to clear your browser cache to pick up a module image if it does change.
Defect	NCCB-42010	Update to Complex values does not show without refreshing Manager	When adding a child component with its own child component using an HTML5 Manager view, any changes to that "grandchild" component would fail to update the database table until that view was reloaded. This has been corrected, so newly added grandchild components will cause the database table to update when they are changed.
Defect	NCCB-38165	BajaScript can fail to start in IE on an intranet site	When WebSockets were enabled, BajaScript would sometimes fail to start in Internet Explorer when loaded from an intranet site due to Internet Explorer switching to Compatibility Mode, where WebSockets are not supported. This has been resolved so that it will fall back to HTTP polling when in Compatibility Mode. Note that this will adversely impact performance, so it is advised to configure Internet Options to disable Compatibility Mode for BajaScript sites.
Defect	NCCB-41722	Cloud Connector Last Fail Cause is insufficient and unhelpful in some cases	The CloudConnector's Last Fail Cause now contains a more understandable error message when the connector fails to connect in certain conditions.
Defect	NCCB-42748	4.8.0.106.1: Content error when trying to access CloudNetwork	If you use the 2018.5 or 2018.6 versions of the Niagara Cloud Honeywell Sentience Driver with Niagara 4.8, you will find that the Niagara Cloud Network's "N Cloud Driver Device Ux Manager" view will generate a content error upon attempting to load. This is corrected in the 2019.1 version of the driver, which is the preferred version to use with Niagara 4.8 installations. For an affected system, you can use the regular Cloud Device Manager view.
Defect	HAREMB-1249	WiFi client mode system memory loss	When running wifi in client mode, the io-pkt networking stack would leak small allocations of memory in the bind loop. The io-pkt package has been updated to correct this memory leak.
Defect	NEM-682	Memory leak in ace process	Fix memory leak in ACE when encoding ace application file.
Defect	NEM-697	ACE crashes if MultiVibrator period set to 0	Setting the ACE multivibrator period to 0 would crash the ACE engine. Multivibrator was changed to block user from entering invalid period.
Defect	NCCB-43364	Cannot view AX Point Manager view of AceEdgeNetwork Point Folder	The AcePointManager was fixed so that the view would open on ACE point folders.

Issue Type	JIRA ID	Summary	Release Notes
Defect	NEM-765	Force Order fails on ACE app if component added in AX Property Sheet	Adding ACE components to the property sheet instead of wiresheet did not correct create annotations needed to position the component. This also cause forceOrder to faile.  Fixed behavior of components added to property sheet.
Defect	NEM-738	The object ids of child AceComponents not assigned in offline adds	Added mechanisms to ensure object ids assigned to child components if pasting a tree of components to an offline ACE application.
Defect	HAREMB-1124	Canceling "Change System Passphrase" action via syssh (Ctrl+C) leaves keyboard input hidden	In prior versions of Niagara, issuing a ctrl+c command during the Serial Shell "Change System Passphrase Utility" would result in the serial shell no longer echoing characters to the screen when typed. This has been corrected.
Defect	HAREMB-1226	dhclient.conf: grep error message printed when daemon.properties is missing	Prior versions of Niagara might print the following message when booting the EDGE 10 device:  "grep: cannot open file '/home/niagara/daemon/daemon.properties' (No such file or directory)"  This message is no longer printed. The presence of this message was not the cause of any further error and should not be interpreted as a configuration problem with the device.
Defect	NCCB-42187	Platform WiFi Configuration view: "Help -> On View" doesn't find the help.	Platform view for Wifi Configuration now correctly resolves Help->About
Defect	NCCB-45069	Unclear error for Bacnet enum facet range non-contiguous	The fault now shows the proper cause "State Range supports only contiguous ordinal.", in place of "Range must be 1-N for export to BACnet."
Defect	NCCB-44295	Value of cov-resubscription-interval should not be allowed to exceed 28800 seconds.	Trend Log Object in the BACnet driver cannot have cov-resubscription-interval property a value greater than 28800 seconds.
Defect	NCCB-37939	Hanging connection pool with Orion Alarm Service	Changes have been made to explicitly close open resources using automatic resource management. A new spy OrionCursorManager is available under sysManager (along with OrionSessionManager), which enables the ability to spy on the open and closed cursors. To access the new spy, use the following steps: i. Turn on FINE LOGGER for œorion.cursorManagerœ ii. Restart the Station iii. Monitoring: go to the station's spy "spy:/sysManagers/orionCursorManager". There could be a few open cursors/sessions/connections that stay open for active threads. Look for resources open for a prolonged time.
Defect	NCCB-19587	docDeveloper Modules section contains errors	In previous versions of Niagara, the docDeveloper Modules section contains errors. This issue has been fixed, as a small correction was made to the modules section of decDeveloper correcting a module part name in the dependencies section of the manifest.xml example.
Defect	NCCB-41074	BFormat result for normalTime/lastUpdate on Alarm Record is missing seconds	In previous versions of Niagara, a BFormat result for normalTime/lastUpdate on an Alarm Record is missing seconds. When using BFormat to display time values of an Alarm Record, only the timestamp field was displayed with seconds. This issue has been fixed, as the normalTime, ackTime, and lastUpdate are now displayed with seconds.
Defect	NCCB-40843	SAML authentication cannot handle encrypted attributes	In previous versions of Niagara, SAML authentication cannot handle encrypted attributes. This issue has been fixed and a user with the SAMLAuthenticationScheme can now be configured to handle encrypted attributes. This allows users to be configured where attributes are passed to the station, from the IdP, encrypted.Â

4.9 Release Notes (Jira)

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-40814	StatusAlgorithm and StatusFaultAlgorithm display status value options {stale} and {disabled} that will not be evaluated	In previous versions of Niagara, the status values "disabled" and "stale", were available as options on StatusAlgorithm and StatusFaultAlgorithm (part of the StatusAlarmExt in the alarm palette), but the corresponding alarm algorithms were never evaluated if a control point's status is "disabled" or "stale". Therefore, an alarm will never be raised for these status values. This issue has been fixed and these status options have been removed from these alarm algorithms using an Integer facet named "filter" (status bits not in the filter are not displayed).
Defect	NCCB-39122	Not able to do Export Configs on template in module	In previous versions of Niagara, when a template is in the templates folder, the Export Configs action is not an option when right-clicking on a template that is in a module, This issue has been fixed and the "Export Configs" menu option is available for module templates.
Defect	NCCB-40893	Inconsistent behavior of direct tag flags/facets/removals for Niagara proxy point fetched tags	<p>Prior to this fix, if a Niagara proxy point was duplicated and modified with a different Point Id (to reference a different remote point) using the Niagara Point Manager view, then any previously fetched direct tags (such as the "n:history" tag) that were persisted on the original point would be duplicated to the new point, but those tags would never be updated (or removed if they didn't apply to the new referenced remote point). Even invoking the 'Force Update Niagara Proxy Points' would not remedy these persisted, fetched tags.</p> <p>This problem has now been fixed, so that persisted, fetched tags will be updated on such duplicated points, and edits using the Niagara Point Manager view itself will no longer incorrectly modify any slot flags or facets that were applied to the direct tag properties.</p>
Defect	NCCB-14942	N4 Migration Tool does not migrate obsolete widget in px page	In previous versions of Niagara, the N4 Migration Tool does not migrate obsolete widgets in px page. This issue has been fixed, as a BacnetWsDeviceManager view embedded in an AX Px page can now be converted to its N4 counterpart, BacnetAwsDeviceManager, using n4mig.
Defect	NCCB-41378	AlarmData.timezone is not preserved in supervisor database	In previous versions of Niagara, the AlarmData.timezone was not preserved in supervisor database in certain instances. This issue has been fixed, as the timezone in an alarm record's alarm data is no longer overwritten during remote alarm routing.
Defect	NCCB-41222	Workbench Alarm Portal Tool Running Out of Memory	In previous versions of Niagara, Workbench could run out of memory and crash when connecting to multiple recipients in the Alarm Portal Tool. This issue has been fixed, as Workbench no longer runs out of memory and crashes when connecting to multiple alarm recipients.
Defect	NCCB-39325	Email StartTLS has no support for TLSv1.1 or greater	In previous versions of Niagara, email startTLS has no support for TLSv1.1 or greater. This issue has been fixed and the Email Service now supports TLS 1.1 and 1.2 when using startTLS.
Defect	NCCB-42787	Alarm Database Maintenance commands visible to users without proper permissions	In previous versions of Niagara, the Alarm Database Maintenance commands were visible to users without proper permissions. This issue has been fixed, as the commands on the Alarm DB Maintenance view are now hidden when the user does not have admin invoke permissions.
Defect	NCCB-3493	Message text field shows blank in Alarm console view when Jobs get cancelled from Provisioning Niagara	While using provisioning in Niagara AX versions, alerts raised by cancelled batch jobs did not provide corresponding message texts in the alarm console. This issue has been fixed and the message text appears accordingly.
Defect	NCCB-30881	Alarm Portal only attempts to connect to 4911 when TLS session is chosen	In previous versions of Niagara, the Alarm Portal only attempts to connect to 4911 when the TLS session is chosen. This issue has been fixed, as the alarm portal will now connect to an alarm console in a running station via any fox, or foxs port.

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-40871	Only one TLS client connection can be opened at a time	In previous versions of Niagara, TLS client connections with long timeouts could prevent other TLS client connections from being established. This issue has been fixed, as the timeouts no longer prevent the establishment of other TLS client connections.
Defect	NCCB-44127	Manually copying/saving components with reversible passwords to a BOG file will fail if the default value is not BPassword.DEFAULT	<p>In previous versions of Niagara, manually copying and saving components containing passwords from a station to a BOG file would fail, under the following circumstances:</p> <ul style="list-style-type: none"> <li>* The password contained in the component is reversible</li> <li>* The password has a default value other than BPassword.DEFAULT</li> </ul> <p>This defect has been fixed so that the copy/save to BOG will now succeed and such reversible password values will be reverted to BPassword.DEFAULT.</p>
Defect	NCCB-448	Unacked Alarm Count is sometimes incorrect in Alarm Class	<p>In previous versions of Niagara, during certain conditions, it was possible for the Unacked Alarm Count to be incorrect in the Alarm Class. This issue has been fixed, and the Unacked Alarm Count property is now accurately reflected in an Alarm Class.</p> <p>For stations on previous versions that will be upgrading to 4.9 and are experiencing similar alarm count problems while using the OrionAlarmService, the errors can be corrected by running the maintenance command in the Database Maintenance view.</p>
Defect	NCCB-40663	Control Point output rarely fails to update with most recent input priority slot change	In previous versions of Niagara, it was possible that control point executions could be skipped if one was already in progress while another was requested. Additionally, under rare conditions, this could cause the output to be stuck at an old value/status. This was not typically seen when a control point was executed due to a link, but could occur when using the property sheet view to manually change an input slot's value. This issue has been fixed and control point executions now function as expected during such conditions.
Defect	NCCB-44339	Min & Max Facets of Point propagate to Tolerance of History CoV Ext	<p>In Niagara 4.8, the changeTolerance property of the NumericCovHistoryExt was adversely affected by the min and max facets of the parent point, so that it would disregard any user entry outside of the maximum or minimum ranges. This issue has been fixed, as the changeTolerance property of the NumericCovHistoryExt will now inherit the following formats from the parent numeric point: Â precision, showUnits, showSeparators, and the differential form of unit.</p> <p>Additionally, a Min Facet of 0 was added to the changeTolerance property because entering a negative value would cause an unexpected adverse result.</p>
Defect	NCCB-41538	Suppress nuisance warning when systemDb-rt not installed: "Could not update missing default search scope properties"	<p>Prior to this fix, during station startup when the systemDb-rt module was not installed on the platform (atypical for supervisors, but typical on JACEs), the following nuisance warning would be displayed in the station console:</p> <pre style="text-align: center;">{code}</pre> <p>WARNING [16:31:04 03-Jun-19 EDT][search] Could not update missing default search scope properties. Users will need to manually update them under the SearchService</p> <pre style="text-align: center;">{code}</pre> <p>This warning was purely a nuisance in this scenario, but has now been suppressed under such conditions to avoid further disruption.</p>

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-45390	Nuisance errors when viewing Niagara Virtual Px views that include web charts	<p>Prior to this fix, when viewing Niagara Virtual Px views that included web charts, the following error messages was issued in the supervisor station:</p> <pre> {code} SEVERE [07:49:18 16-Jan-20 EST][niagara.file] Unable to copy remote file:^charts/defaultOptions.chart to local file:^nstations/jace/charts/defaultOptions.chart java.io.IOException: Could not find Remote File: file:^charts/defaultOptions.chart at com.tridium.nd.file.BNiagaraFileDescriptor.createAllFiles(BNiagaraFileDescriptor.java:268) at com.tridium.nd.file.BNiagaraFileImport.copyFilesFromRemoteToLocalSpace(BNiagaraFileImport.java:89) at com.tridium.nd.file.BNiagaraFileImport.doFileExecute(BNiagaraFileImport.java:61) at com.tridium.nd.file.BNiagaraFileDescriptor.doExecute(BNiagaraFileDescriptor.java:198) at auto.com_tridium_nd_file_BNiagaraFileImport.invoke(AutoGenerated) at com.tridium.sys.schema.ComponentSlotMap.invoke(ComponentSlotMap.java:1891) at com.tridium.sys.engine.EngineUtil.doInvoke(EngineUtil.java:62) at javax.baja.sys.BComponent.doInvoke(BComponent.java:1258) at javax.baja.util.Invocation.run(Invocation.java:47) at javax.baja.util.ThreadPoolWorker\$WorkerThread.run(ThreadPoolWorker.java:290) {code} </pre> <p>This happened because an optional file (<code>file:^charts/defaultOptions.chart</code>) did not exist on the remote (subordinate) station. Since the file is optional and (often) not expected to exist, this error message was a nuisance. This problem has now been fixed so that the optional file will not cause unnecessary file import errors.</p>
Defect	NCCB-39230	DiscreteTotalizerExt can rarely deadlock when being added to a station	<p>In previous versions of Niagara, a deadlock can occur when adding a DiscreteTotalizerExt to a point in a running station. This issue has been fixed, as deadlocks no longer occur when adding extensions to a point in a running station.</p>
Defect	NCCB-34658	Deadlock while moving points with DiscreteTotalizerExts in a station	<p>In previous versions of Niagara, a deadlock can occur while moving points with DiscreteTotalizerExts in a station. This issue has been fixed, as the deadlock will no longer occur when moving a point that contains a DiscreteTotalizerExt.</p>
Defect	NCCB-44341	Deadlock while deleting histories	<p>In Niagara 4.8, a JVM deadlock can occur when deleting histories. This issue has been fixed and the deadlock will not occur when deleting histories.</p>

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-42638	rdbms history export fails with truncation errors	<p>In previous versions of Niagara, the rdbms history export would frequently fail with truncation errors. This issue has been fixed and users will have an option to use Bigint data type for the index column of the history tables by setting the system property (niagara.rdb.useBigintDataTypeForIdColumn).</p> <p>The changes would reflect in new history export tables.</p> <p>For existing tables, if the ID index value is out of the range of the int data type (max 2,147,483,647), the DBA needs to manually alter the table to modify the column type to BIGINT.</p> <p>^</p> <p>{quote}For SQL Server database (might have to disable the Primary key before the ALTER. Enable the Primary key after):</p> <pre>ALTER TABLE &lt;table_name&gt; ALTER COLUMN id BIGINT;</pre> <p>For MySQL database:</p> <pre>ALTER TABLE &lt;table_name&gt; MODIFY COLUMN id BIGINT NOT NULL AUTO_INCREMENT;</pre> <p>{quote}</p>
Defect	NCCB-44213	Resolving local history for Niagara virtual point broken when 4.7+ supervisor connected to 4.6 (or earlier) station	<p>Starting in Niagara 4.7, if a Niagara virtual point was sourced from a remote station at Niagara version 4.6 (or earlier back to Niagara 4.2) and the history for that virtual point was already imported to the local station, then upon opening the web Chart view on that virtual point it would not locate the local history to display. Instead, it would revert to an empty chart. This regression defect has now been fixed, so that it will find the local history to view when the Chart view is opened for a Niagara virtual point.</p> <p>As a potential workaround, if all stations are at Niagara 4.7 or later, this defect does not manifest itself.</p>
Defect	NCCB-43067	Security Dashboard fails to load if Niagara station client address is null	<p>In Niagara 4.8, the Security Dashboard would fail to load if Niagara station client address is null. This issue has been fixed, as the Security Dashboard has been updated to correctly handle stations that have a null address.</p>
Defect	NCCB-46344	Missing documentation for nss:StationSecurity	<p>In previous versions of Niagara, the documentation for nss:StationSecurity was missing. This issue has been fixed, as the correct help guide base for the nss module has been added accordingly. Additionally, using 'Guide on Target' on nss components should now link to the correct documentation location.</p>
Defect	NCCB-42891	Some ORDs in Niagara Virtual Px views not converted correctly	<p>In previous versions of Niagara, some ORD bindings in Niagara Virtual Px views were not converted correctly from their source ORDs in the Px view on the remote station. In particular, the following weren't being converted properly:</p> <ul style="list-style-type: none"> <li>* Source ORDs to other virtuals on the remote station (e.g. BACnet virtuals)</li> <li>* Some relative ORDs used as a hyperlink or popup binding</li> <li>* Non-slot ORDs (e.g. file ORDs) used as a hyperlink</li> </ul> <p>These incorrect ORD bindings have now been fixed when loading Niagara Virtual Px views.</p>
Defect	NCCB-46565	nCloudDriver prevents Workbench connections when maintenance has expired	<p>If an authentication scheme fails to load it can prevent fox connections to remote stations. This is been resolved in Niagara 4.9.</p>

Issue Type	JIRA ID	Summary	Release Notes
Defect	NCCB-46219	Px Ord bindings containing history IDs in shorthand form don't resolve when loaded in Niagara virtual Px views	Prior to this fix, when viewing Niagara Virtual Px views that contained embedded (saved) history web chart files or web charts with history ORD bindings in shorthand form (e.g. "^" history ID form), they would not resolve correctly. This has now been fixed so that such Px views will load correctly on both the remote station and the local station. If you had previously viewed/imported a remote (saved) web chart file, after upgrading, you may need to invoke the 'Reload Virtual Px Views' action on the Niagara Virtual component and clear the browser cache (or JxBrowser cache if running in Workbench) in order to see the corrected chart in the Niagara Virtual Px view.
Defect	NCCB-44726	Add permission "enableContextClassLoaderOverride" to MANAGE_EXECUTION group	The Niagara Permission Group MANAGE_EXECUTION has been updated to allow modules to request enableContextClassLoaderOverride permissions which are checked in code by the security manager. For more details, refer to the 'Requesting Permissions' developer documentation.
Defect	NCCB-41563	Virtual Px on Demand ignores view designation for absolute Ord	<p>Prior to this fix, on-demand Niagara virtual Px files would not respect a view designation in the source Px file when using an absolute ORD. For example, the below absolute ORD would work for a hyperlink in a Px view in a source station, but when it was loaded into a supervisor via an on-demand Niagara virtual Px file, the view selection would be stripped off (the "view:CustomPxView" part) and it would instead hyperlink you to the default view:</p> <pre style="text-align: center;"> {code} station: slot:/Drivers/BacnetNetwork/Floor1 view:CustomPxView {code} </pre> <p>This defect has now been fixed so that it will preserve the view selection. Furthermore, if the view selection is a hard-coded view (non-Px) that is not supported against a Niagara virtual representation of the component in the supervisor, it will continue to route to the default view selection from the on-demand Niagara virtual Px.</p>
Defect	NCCB-41088	Series Transform chart on Px view cannot be refreshed after changing parameters of transform graph nodes	Prior to this fix, if a Series Transform chart was embedded on a Px view and that Px view was loaded in a browser, a subsequent change made to any of the parameters of the transform graph nodes sourcing it would not be immediately reflected in the Px view's Series Transform chart, even with a refresh of the browser. It required a logout/login (new session) to update the Series Transform chart data on the Px view in the browser. This defect has now been fixed, such that any changes to the underlying transform graph nodes are immediately picked up by a simple refresh of the browser on the Px view.
Defect	NCCB-43225	Operator users may see stale (or slowly changing) Component property values	Prior to this fix, when logged into a station as an operator user, certain component property change events could skip getting sent from the station to the client (e.g. Workbench or a browser). As a result, an operator user may have noticed stale (or very slowly changing) property values in various component views (such as Property Sheet view) or even Px views. This defect has now been fixed so that the operator user's client session will now get proper notification of all relevant component changes.
Defect	NCCB-40909	Data is not rendering correctly from algorithm with Sliding Window and COV History Extension	EnumSchedule output is handled as part of this defect and appropriate Enum value can be used for the Algorithm Blocks (Sliding Window and other Functional Blocks).