

Issue Key	Module	Release Note
NCCB-25918	baja, hx	By default, the full stack trace of the NoSuchAgentException is now de-populated. To see the whole stack during development, enable both the 'niagara.module.dev=true' system property and the developer feature in your license.
NCCB-51320	baja, license	Users may have previously encountered heap usage issues and experienced suboptimal performance due to the presence of unused kRU features. By removing these references, we expect a noticeable improvement in the overall system performance and resource utilization.
NCCB-61594	bajaScript	Implemented additional methods on ControlPoint.js and StatusValue.js related to "value" and "status" methods in Java. These are now available in JavaScript for Format.js resolutions: ControlPoint.js - getOutStatusValue - getStatusValue - getValueWithFacets - getStatus StatusValue.js - getValueValue - valueToString - getStatusValue - getNvalue
NCCB-44689	history	When exporting a history using any of the following exporters, new export configuration properties exist for specifying the time range and delta mode (delta applies only to numeric histories): * History To Table Pdf * History To Chart Pdf * History To CSV * History To Html * History To Text *. When exported while viewing a history, the new time range and delta export settings will, by default, match the settings configured in the history view, but can be changed before continuing with the export.
NCCB-8863	modbus	Support for 64-bit doubles, signed longs, and unsigned longs has been added for the Niagara Modbus Driver. This includes the ability to configure the byte order for these at both the device and network level.
NCCB-51496	neql	The NEQL Boolean Filter now has checks to prevent a user from entering characters that are not supported or cannot be evaluated as a NEQL query.
NCCB-67259	platCrypto	Starting in 4.14, when the 'Set the certificate alias for platform, FoxService and WebService' option is selected in the Workbench Certificate Wizard, if the platform daemon version does not support using a server certificate that is passphrase-protected, the operation will be skipped, and status text will contain a message indicating that it will be

		<p>skipped. If the platform daemon version is less than 4.13, and the certificate selected to be used for the platform, Fox and Web services requires a passphrase to obtain the certificate's private key, both the updates to the platform daemon and Station Fox and Web services TLS certificate aliases will be skipped. If the remote platforms daemon version is less than 4.13, and the selected server certificate's private key is not passphrase-protected, updates will be attempted for both platform daemon and Station Fox and Web service TLS certificate aliases. If the platform daemon version is greater than or equal to 4.13, and the selected server certificate's private key is passphrase-protected, updating the daemon's TLS certificate alias will be attempted, but a status message in the Certificate Wizard output will indicate that this the selected server certificate is not supported for use for the Fox and Web Services (but will not result in a failure).</p>
NCCB-58905	rdb, webEditors	<p>BRdbmsColumnSelectionEditor now has a bajaux version. A problem with DynamicEnum.js improperly double escaping enum values was also corrected so that columnNames with special characters like '\$' can be displayed.</p>
NCCB-64327	rdb, rdbSqlServer	<p>JDBC connections to Microsoft SQL Server using the Microsoft SQL Server JDBC Driver can now use Windows Integrated Authentication to connect to SQL Server instances that use Windows Authentication mode. Refer to the Niagara 4.14 User Guide for more details on how to configure SQL Server database drivers to use this authentication mechanism.</p>
NCCB-29785	schedule	<p>Schedule selectors now have new Next Time and Next Value properties that are linked to the corresponding properties of the selected schedule.</p>
NCCB-59238	tagDictionary	<p>There is now a new "Not" condition and tag rule available in the "tagdictionary" palette. The "Not" condition accepts a single child condition and inverts(?) that child's result.</p>
NCCB-58156	weather	<p>The weather report update frequency is configurable, and the stale status can be omitted.</p>
NCCB-61996	weather	<p>The NWS Stations list has been expanded to ensure accurate and comprehensive weather data collection, addressing potential incomplete or missing information for certain locations due to its previous limitations.</p>

NCCB-62282	weather	Fixed AQI calculation to align with current EPA standards, ensuring that the displayed AQI values now accurately reflect the current air quality conditions.
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Description (cont.)

Issue Resolution

Issue Key	Module	Release Note
NCCB-62524		In previous versions, when running "grunt watch" it could fail to run in certain Niagara versions. This has been corrected in grunt-niagara 1.22+ and 2.11+.
NCCB-63102		In previous versions, the browser did not always show the correct flags for actions and topics when they were adjusted from their defaults. This has been corrected.
NCCB-65939		Subscription license options are now no longer displayed for platforms not supporting subscription licenses.
NCCB-66372		The Regenerate command is now available on cloned subscription licensed instances, allowing those to be re-registered.
NCCB-64011	Linux Installer	Previous versions of the Linux Supervisor installer could fail to detect the 'initscripts' package on AL2 environments. This has been corrected.
NCCB-65673	abstractMqttDriver, mqtt	When restarting a station, the AWS MQTT Authenticator would fail to persist the value of the certificate alias. This has been corrected.
NCCB-60425	alarm	When connected to a station using Workbench, if an ArchiveAlarmProvider is not present in a station's Alarm Service, an excessive number of synchronous Fox messages would be sent to the station to check for the presence of an ArchiveAlarmProvider, resulting in frequent performance degradation of Workbench. With this fix, the conditions under which a station will be queried for the presence of an ArchiveAlarmProvider have been narrowed, resulting in fewer Fox messages being sent and improved Workbench performance.

NCCB-61106	alarm	Prior to this fix, the Time Range specified for Alarm queries in Database Maintenance was not being honored, causing all queries to fall back to specifying the 'Default' time range. Alarm queries for a given time range now return only those alarm records for the given time range.
NCCB-63326	alarm	This change allows Archive Alarm Providers to export cleared alarm records that are not required to be acknowledged. Prior to this change, only alarm records that had been acknowledged and whose source had return to normal or alert would be eligible for archival.
NCCB-64177	alarm	Previously if the userData file for bajaux Alarm Console option was corrupted (like zero size due to a bad file transfer), then the Alarm Console would show that there were zero alarms instead of showing the proper alarms for the console. Now, any Alarm Console option that has been corrupted will still allow the Alarm Console to load properly and the default alarm console options will be used. Other areas of userData option corruption problems were found and fixed in the Wiresheet, Manager framework, VideoStreaming, and Facets Editor.
NCCB-64700	alarm	In previous versions. the Bajaux Alarm Databaseview would incorrectly query the database twice on loading or when the TimeRange was changed. This has been corrected.
NCCB-63086	alarmOrion	The 'width' facet of OrionAlarmFacetValue's 'value' property has been increased from 512 bytes to 2048 bytes. In addition, the column of the table in the configured RDB will be altered to match the new width (at first start of station after upgrade). Before upgrading a station using the OrionAlarmService to Niagara 4.14.0, it is recommended to perform a backup of any existing databases. Once the schema upgrade has occurred, should the station need to be downgraded to a version lower than 4.14.0, the changes made by the ISchemaUpgrader must be reverted, as it is considered an unrecoverable error if an attempt is made to start a BLocalOrionDatabase and the schema version in the database is greater than the version indicated in the OrionApp.

NCCB-59405	analytics	In the ConsumptionToDemand Block, when the totalize value was set, it was observed that demand value appearing erroneous. This erroneous demand value has been fixed by identify if the value is totalized based on the presence of "hs:hisTotalized" tag. then, the correct demand value was calculated accordingly.
NCCB-62387	analytics	Now the analytics bound table correctly display facets. Facets need to be set in Definitions in AnalyticService.
NCCB-62523	analytics	Fixed the issue related to relative contribution chart. When 1 of the charts did not have data, the whole chart was not getting plotted. After the fix, the chart will plot as expected and show No Data Available for the data point without hindering the graph.
NCCB-65843	analytics	When editing an analytic value binding, the node property can be set to a relative ORD now. This has been added to use the same view for multiple components without changing the node property for each of them.
NCCB-66593	analytics	Resolved the issue with time range selection in analytics C3 chart. Users can now freely adjust time range for charts. Time range modification persist after saving changes.
NCCB-67030	analytics	Analytics charts now provide an option to set precision while exporting the charts in .csv format.
NCCB-55230	bacnet	The BBacnetReliability enumeration is updated to include latest enumeration defined in the ASHRAE 135-2020 specification.
NCCB-56952	bacnet	Previously, regardless of the trend log extension, the BACnet Logging Type property would always return "TRIGGERED". Now, for COV trend log extensions, it correctly returns "COV", and for interval-only trend log extensions, it returns "POLLED". When the trend log extension can be configured as either, if the BACnet Log Interval property is zero, Logging Type will return "COV". Otherwise, it will return "POLLED".
NCCB-57652	bacnet	Previously, when discovering points in a BACnet device, if the Min or Max Pres Value property of a remote object was less than zero, then the min or max facet of the proxy point would set to negative infinity.

		Now, these facet values will match property values that are less than zero.
NCCB-58316	bacnet	Previously, when the broadcast distribution mask of a BACnet BBMD table entry was set to the "two-hop" value ("255.255.255.255"), a broadcast forwarded from another subnet would not be broadcast on the BBMD's subnet. This has been corrected so a discovery initiated on one subnet will now find BACnet devices on another subnet when there are BBMDs on both subnets.
NCCB-58849	bacnet	As of 4.12, the BACnet driver is protocol revision 15 compliant. However, the protocol revision property on the BACnet network's local device still showed "14" and would return that value if read over BACnet. This has been fixed to show and read "15".
NCCB-60274	bacnet	Previously, when the BACnet export table contained schedule and point descriptors, a deadlock could occur at station start. This has been fixed. Also, when descriptors were associated with objects with the same parent component, removing one of those objects would not cause the descriptor to be removed. Now, when objects with the same parent or when the parent itself is removed, associated descriptors will also be removed.
NCCB-60329	bacnet	Previously, when a point transitioned from an offnormal to a fault state and then back to normal, an extra BACnet event notification would be sent for the previous offnormal state in addition to one for the transition from the fault state. Now, when transitioning back to normal, a notification will only be sent for the last offnormal or fault state.
NCCB-60580	bacnet	Previously, when the purpose ID facet was missing or blank, the certificate alias field editor in workbench would show only certificates that had no key usage extension or one set to key encipherment. The UX alias field editor would show all certificates in the key store. Now, both field editors will have the same behavior. The purpose ID facet on the BACnet/SC operational certificate alias has been changed to blank so all certificates will be shown. Key usage extensions are not required on SC certificates.

NCCB-61394	bacnet	Previously, event parameters for the signed-out-of-range and access-event types were not encoded or decoded correctly. This has been fixed.
NCCB-62980	bacnet	The BACnet Trend Log descriptor (for exporting Niagara histories) now supports reading and writing the toNormal element of the Event Message Texts Config BACnet array property. Only an empty string may be written to the toOffnormal and toFault elements of this property.
NCCB-63057	bacnet	The BACnet Analog, Binary, Multistate, Event Enrollment, Loop object now supports writing the offnormal, fault and toNormal element of the Event Message Texts Config BACnet array property. The BACnet Trend Log descriptor (for exporting Niagara histories) now supports reading and writing the toNormal element of the Event Message Texts Config BACnet array property. Only an empty string may be written to the toOffnormal and toFault elements of this property.
NCCB-63375	bacnet	Previously, BACnetDateRange values for Calendar or Schedule BACnet object properties could leave the day-of-week field unspecified when specifying other date fields of the start or end date. Likewise, the day-of-week field could be unspecified on the Start Time or End Time BACnet properties of a Trend Log object. This violated the BACnet standard so sending an unspecified day-of-week value now results in a value out-of-range error.
NCCB-63377	bacnet	For each BACnet AcknowledgeAlarm-Request received, the resulting ConfirmedEventNotification or UnconfirmedEventNotification contained the same alarm acknowledgment timestamp value. Now, those notifications are sent with timestamps set to the time that those notifications are issued.
NCCB-64009	bacnet	After transmitting CreateObject-Request with any supported object type for which dynamic creation is not supported, the device respond with error DYNAMIC_CREATION_NOT_SUPPORTED. For unsupported object type, the device respond with error UNSUPPORTED_OBJECT_TYPE.

NCCB-64111	bacnet	When the device receives ConfirmedEventNotification for event type EXTENDED and CHANGE_OF_STATUS_FLAGS, it respond with Simple ACK. The EXTENDED event type supports additionally INTEGER, CharacterString, Date, Time, BACnetObjectIdentifier choices.
NCCB-64156	bacnet	When the point's out of service extension is either enabled or disabled, it correctly updates the associated descriptor BacnetStatusFlags slot.
NCCB-64167	bacnet	Previously, when the BACnet driver became very busy, application message timeouts could be lost and prevent the re-use of transaction invoke IDs. This has been fixed so the full range of invoke IDs should remain available to client requests.
NCCB-64629	bacnet	TrendLog descriptor supports writing an unsigned value to BUFFER_SIZE property, provided BACnet user have permission for writing to trend log extension's history config component. Writing a value of $2^{32} - 1$ (a symbol to indicate that the buffer size is unknown, rather than to support that number of records) sets history capacity to unlimited Writing a value greater than $2^{31} - 1$ return a VALUE_OUT_OF_RANGE property error. Writing a value lesser than $2^{31} - 1$, sets history capacity to record count. For object creation of dynamic trendlog through BACnet-AWS, now supports customer provided BUFFER_SIZE value.
NCCB-65380	bacnet	A defect was introduced in Niagara 4.11 that would cause poll lists for the same BACnet device in the same BacnetMultiPoll bucket (fast, normal, or slow) to be executed again before all poll lists for that device were executed once. This would lead to some poll lists being executed less frequently or not at all. Points in poll lists that were never executed would eventually be marked as stale. Now all poll lists in a buckets will be executed before any poll lists are executed again.
NCCB-65605	bacnet	Previously, when a BACnet proxy point was configured for the Present Value property of a BACnet object that supports regular COV and both Use Cov and Use Cov Property were enabled in the point's tuning policy, COV Property would be used instead of regular COV. The COV Property Increment in the tuning policy would be used instead of the BACnet COV Increment of the

		<p>object. Now, under these circumstances, regular COV will be correctly used. COV Property will be continue to be used when the proxy point is configured for properties other than the Present Value. To use COV Property and the COV Property Increment in the tuning policy for the Present Value property, Use Cov in the tuning policy must be set to false.</p>
NCCB-67063	bacnet	<p>For routed BACnet alarms involving event enrollment, the alarm record associates the source by selection of the first property point of the event enrollment object found in device's point extension. For example, added three proxy points for Event_Enrollment,1 ; firstly Object_Name property, secondly Description property, thirdly Event_State property. Since Object_Name proxy point is first in database, thus the alarm source points to Object_Name proxy point.</p>
NCCB-67064	bacnet	<p>Now, instead of the source name always being the proxy point name, it will be based on the BFormat slot alarmSourceName property of EventHandler component, thus a text descriptor for the source name of an alarm received through BACnet. The format is applied to the source proxy point. This general format can be overridden by a user by adding a dynamic BFormat slot called "alarmSourceName" under BacnetProxyExt. The format too is applied to the source proxy point.</p>
NCCB-67364	bacnetUtil	<p>Previously, links to Workbench Help for components in the bacnetUtil module were not pointing at the correct location. Those links are now pointing at the relevant locations in docEngNotes.</p>
NCCB-27106	baja, webEditors, workbench	<p>In previous versions, the bajaux and bajai Composite Editors would throw an ArrayIndexOutOfBoundsException and display non-composite links. This has been corrected as long as the user has write permissions to all the component's properties.</p>
NCCB-62821	baja, workbench	<p>When navigating in Workbench, certain relative hyperlinks containing queries (such as tag-based hyperlinks in Px views) could cause the resolved ORD for the target of the hyperlink to grow on each subsequent hyperlink. For example, if you have two Px views that can hyperlink back and forth to each other</p>

		<p>via query-based relative hyperlink ORDs, like the following: neql:traverse n:child-> where n:name='AHU01' single: and then to hyperlink back to the parent Px view: neql:traverse n:parent-> single: Clicking these hyperlinks back and forth a few times would cause the ORD of the target to grow until it got too large and caused an error. Going forward, this defect has been fixed, so that an optimal ORD will be used for the target of the hyperlink, preventing the growing ORD from occurring.</p>
NCCB-63126	baja, wbutil	<p>Prior to this fix, if a non-super user with admin write access to the CategoryService attempted to change the category mappings for a virtual component, it would fail to save with an UnresolvedException on the station. This has now been fixed.</p>
NCCB-63298	baja	<p>Prior to this fix, the Collection Table view opened from a BQL query was not honoring certain contextual information when displaying the results. For example, point slot facets (like 'trueText'/'falseText') were not being honored in the displayed values. Exports of the Collection Table view to CSV, Text, Html, and PDF were also not honoring the contextual information. This has now been fixed.</p>
NCCB-63436	baja	<p>LexiconModule has always reused the lexicon when it was a different language, but when the language was the same as the platform and the country code was different, then LexiconModule created a new Lexicon when it didn't need to. This has been corrected.</p>
NCCB-63591	baja, webEditors	<p>The functions niagara.env.hyperlink, niagara.env.reload, and niagara.env.toHyperlink now all correctly return Promises when run in Workbench.</p>
NCCB-65987	baja	<p>The following new units are now available for use: In the "misc" quantity: "grains of water per pound of dry air" In a new "compressor pressure ratio" quantity: "percent per inch of water" "percent per pascal" In the "concentration" quantity: "grains per pound" In a new "kFactor" quantity: "liters per second per sqrt pascal" "cubic feet per minute per sqrt inches of water" "cubic meters per hour per sqrt pascal" In the "mass" quantity: "grain" In a new "temperature ratio" quantity: "percent per degree fahrenheit" "percent per degree celsius" Additionally, the following new unit</p>

		<p>conversions are now available: Metric "percent per pascal" to English "percent per inch of water". Metric "grams per kilogram" to English "grains per pound". Metric "liters per second per sqrt pascal" to English "cubic feet per minute per sqrt inches of water". Metric "grams of water per kilogram dry air" to English "grains of water per pound of dry air". Metric "pascal" to English "inches of water". Metric "percent per degree celsius" to English "percent per degree fahrenheit".</p>
NCCB-58473	bajaScript, history	Bajascript will now provide the proper NavEvents for a New or Removed HistoryDevice.
NCCB-59823	bajaScript, uxBuilder	When multiple PopOutBindings are present on the same UxMedia page, and they go to the same ORD but with different view selections, the different view selections will now be correctly supported on every binding.
NCCB-63104	bajaScript	When filtering a SlotCursor in BajaScript, the Types of the slots' actual values will be checked, and not just the Types of the frozen slots themselves.
NCCB-63494	bajaScript, hx	Niagara 4.13 Release has a problem with attempting to hyperlink in the browser when the ord has a ViewQuery with an encoded equals sign. This includes a hyperlinking problem using the Ax History Chart Builder in the Browser. This has been corrected in Niagara 4.13U1 and higher.
NCCB-63906	bajaScript, bajai, web, webEditors	Previously, when changing the cert and password in the ux field editor in web and fox services, the certificate value reverts on save to the old value. This has been corrected.
NCCB-63997	bajaScript, uxBuilder	In previous versions of Niagara, a UxMedia Px View with an invalid nspace ORD binding, was causing the view to be stuck forever in the loading state. This has been fixed and any invalid nspace ORD binding is now logged and the Px View completes loading.
NCCB-60182	bajai	Underscore characters (_) are no longer hidden in Workbench when using the Lucid them and the Large Font option.

NCCB-61784	bajai, uxBuilder	In previous versions, the UxMedia ScrollPane would fail to make invisible child visible. This has been corrected.
NCCB-63010	bajai	UxMedia's GridPane previously had a problem with incorrectly staying invisible when its degrade behavior was set to "hide" and the user had valid permissions to the bound ord and the px page had persisted visibility=false in the px page. This has been corrected.
NCCB-64650	bajai	If a station user is set to a theme that is no longer available or valid; logging into the browser with this user, presented them with an unusable WebUI. This issue has been corrected and the WebUI will now attempt to load one of the system default themes, when the user's theme is no longer valid.
NCCB-65320	bajai, uxBuilder	Previously, if you had nested tab panes in UxMedia, the nested tab pane's content would incorrectly show up invisible when changing tabs in the top level Tabbed Pane. This has been corrected.
NCCB-65974	bajai	The JRE that comes with Niagara Supervisors and Workbench has changed from Oracle to Azul and as a result, certain font renderings like "bold Arial" and "bold Source Sans Pro" have changed slightly in how they are rendered. This may cause some Px pages to shift their layout and it may require you to review your Px pages to make sure they do not need adjustments.
NCCB-60169	bajaux	UxMedia now supports ords for Action Bindings that have been nequalized.
NCCB-60376	bajaux	In previous versions, spandrel could not insert a new element with event handlers on one of its children. This has been corrected.
NCCB-61812	bajaux	In previous versions, viewing a Web Chart and hyperlinking to a different view could change default cursor for those buttons to a pointer, this has been corrected.
NCCB-62251	bajaux	In previous versions, if you had a spandrel widget with an "onUxInitialize" attribute (or another on* attribute), then its possible that it won't work properly. This has been corrected.

NCCB-64029	bajaux	When building child Widgets (either with UxModel.jsx and the <widget /> tag, or the spandrelSrc attribute), you can build "nested" structures of container Widgets, such as a Label inside of a BorderPane inside of another BorderPane. You can also arm event handlers on those Widgets. Previously, the event handlers on the outer container Widget would be ignored, and only the inner container Widget's event handlers would apply. Now, event handlers declared by both the inner and out container Widgets will merge together so they are all applied.
NCCB-64643	bajaux	The behavior of a spandrel Widget is to mark itself modified when one of its child Widgets is modified. But this resulted in multiple MODIFY_EVENTS bubbling, so event listeners would get triggered multiple times when only one modification occurred. A spandrel Widget will now only bubble one MODIFY_EVENT (for itself) when one of its child Widgets is modified.
NCCB-66081	bajaux	Previously, if you had a validation error on the bajaux PropertySheet in workbench and you fixed it, for example correcting a value that was out of the min and max facets, it would save, but it would incorrectly show you the error dialog again. In order to make the error dialog go away you could Ctrl click the refresh button. This has been fixed and the workaround is no longer necessary.
NCCB-66158	bajaux	When changing a password, there were problems displaying the proper message when there was a problem setting a password. This has been corrected.
NCCB-12802	batchJob, provisioningNiagara	From Niagara 4.14.0.118 on missing batch job station log prints the error message "Error finding the batch log file for <job prototype> with start time of <Job start time>" instead of Nullpointer exception
NCCB-65637	batchJob, provisioningNiagara	In Niagara 4.14 Beta, the Ux Provisioning Views had trouble completing a few steps like "Install Clean Dist", "Install Software" and "Sign certificate". These problems have been corrected. As a workaround, users can use the Wb Provisioning Views.
NCCB-63561	bouncycastle, niagarad	Prior to Niagara 4.13u2 Niagara Daemon would print many "org.bouncycastle.provider" log messages to the out when making TLS connections. These filters will

		now be set to SEVERE on upgrade. Use the Platform Administration View -> Daemon Output Settings command to correct the log levels manually.
NCCB-63031	box, jetty	A potential deadlock, caused when a browser BajaScript session expires at the same time the user logs off, has been corrected.
NCCB-64855	box, hx, webEditors	Starting in Niagara 4.14 CertificateAliasAndPassword and other passwords using bajaux Field Editors can now be modified from the HxPropertySheet.
NCCB-65829	box	A potential deadlock, caused when a browser BajaScript session expires at the same time the user logs off, has been corrected.
NCCB-27290	bql, report, workbench	An incorrect BQL query configured on a BqlGrid component that causes a SyntaxException will provide a more appropriate localizable exception message. This includes queries on histories, which are not supported in BqlGrid components.
NCCB-67189	bql	In previous versions, the Bajaux Bql Builder would not show abstract and interface types. This has been corrected so that all types can be selected.
NCCB-51470	control	When adding a new DiscreteTotalizerExt to a point in Niagara from the Workbench palette, the 'Change Of State Time', 'Time Of State Count Reset', and 'Time Of Active Time Reset' property values would incorrectly default to the timestamp when Workbench was originally started. This behavior has now been fixed so that those properties initialize to the timestamp when the DiscreteTotalizerExt instance is added to the point in the station (or the timestamp when the station if first started if added offline). For an updated Workbench connected to an older versioned station, adding a new DiscreteTotalizerExt to a point in that station will result in a 'null' default timestamp value for the affected properties. In all cases, those timestamp property values will still update as applicable based on the runtime behavior of the DiscreteTotalizerExt. This fix only affects the initial (default) value of those timestamp properties when the DiscreteTotalizerExt is first added to a station.

NCCB-46383	converters	Fixed the issue where number conversion links to baja: double resulted in unnecessary loss of precision. They are accurately represented when converted to baja: double. This improvement ensures that calculations and comparisons using baja: double maintain their precision.
NCCB-65651	driver, nSnmpp	Previously, the retry count for drivers was shared across all networks. This meant that one network could reset the retries of another network's Ping Monitor which prevented proper alarm generation when the network's retry count was greater than 0. This has been corrected.
NCCB-63481	email	Prior to this fix, if an exception occurred which caused the SMTP Transport to be disconnected (such as a SocketTimeoutException) while attempting to send an email, the subsequent retry attempt would not be attempted, and the messages in the queue would be discarded without being retried. This fix addresses such cases by detecting that the transport has been disconnected, and any attempts to send messages from the queue would be aborted, and be resumed during the next polling cycle.
NCCB-63558	email	Prior to this fix, enqueueing email messages to a BOutgoingAccount's persistence directory from a BEmailRecipient or Program Object would cause an unhandled AccessControlException. This unhandled AccessControlException has been addressed by allowing ValueDocEncoder to create the temporary files to store email messages when an email has been enqueued from components in protection domains other than 'email-rt'.

Description (cont.)

NCCB-64592	entsec	The Axis request URL in the Video driver now supports the latest Axis version 11.0+ cameras.
NCCB-61215	fox	Nuisance SEVERE-level messages in Station logging regarding an InvalidChannelException now only appear in FINE-level messages, so that they don't cause unnecessary spam.

NCCB -65675	fox	<p>Prior to this fix, Niagara virtuals could load direct relation slots whose endpoints may not resolve at the supervisor level. These unresolvable direct relation slots on Niagara virtuals could prevent other activities, including hyperlinks to views on Niagara virtuals. With this fix in place, direct relation slots will be ignored on Niagara virtuals so that they don't interfere with Niagara virtual use cases. The direct relation information will still be included in the SystemDb (when used) for any data indexed from the remote station in order to support NEQL queries against the SystemDb that reference such direct relations. It also supports tag-based bindings in virtual Px graphics.</p>
NCCB -65544	gauth	<p>In 4.13 version of Niagara, if the forceSecretReset property of a user's Google Authenticator was set to true, the user would not be able to login via the web on embedded platforms and would receive a cryptic error message. This has been resolved in Niagara 4.14. Please note that this property is not currently supported for fox logins.</p>
NCCB -63249	help	<p>Previously, an invalid search result would show up as "quicksearch.html". This has been corrected and will no longer be in the results for common key words like "test" or "Widget".</p>
NCCB -64170	help	<p>When Viewing bajadoc, the existing Expand All and Collapse All commands are added to the toolbar for easier access. When a user clicks these commands, the last command used will be saved to the user help options. Refresh remembers expand all and/or collapse all. The following keystroke accelerators have been for these two states: <code>commands.bajadoc.expandAll.accelerator=Alt+E</code> <code>commands.bajadoc.collapseAll.accelerator=Alt+W</code></p>
NCCB -58470	history	<p>When attempting to resolve a history ORD that contained a history device name or history folder name that didn't exist in the station, the ORD would previously [incorrectly] resolve to the base of the ORD. For example, an ORD such as "ip:host foxs: history:/nonExistentHistoryDevice" would incorrectly resolve to the base ORD (the "ip:host foxs:" part in this example). Now such ORDs will result in an UnresolvedException (error) indicating</p>

		that the history device or history folder cannot be found.
NCCB -63254	history, rdb	HistoryId is now added to all exported BHistoryRecords (including Audit and Security History records) when a RDB is configured with an export mode of ByHistoryType. Prior to this change, when exporting history records to a RDB configured with an export mode of 'ByHistoryType', the HISTORY_ID column was only created for instances of BTrendRecord.
NCCB -63256	history, rdb	When a RDB is configured with an export mode of 'By History Type', during export, the presence of the HISTORY_ID column is checked for in existing tables. If it does not already exist, it is created (with a default value of an empty string). Prior to Niagara 4.13.2, the HISTORY_ID column was only added to History tables for instances of Trend Records (which excluded instances of Security Audit Records, Audit Records, etc) and when exporting non-Trend Record history records to a RDB configured with an export mode of 'By History Type', the HISTORY_ID column was expected to be present, and if absent, caused failure of exports. With this change, if existing database tables for non-Trend Record histories contained records, these old records will continue to not be viewable through the Rdb Archive History Provider, since they will not contain the appropriate HistoryId value in the HISTORY_ID column (however, these records will still be present in the relational database). In order to have these records become available via the Rdb Archive History Provider, these records will need their HISTORY_ID column's value manually updated in the relational database with the correct HistoryId.
NCCB -64168	history	In previous versions, the bajaux History Database view could have trouble rendering correctly without an extra browser refresh. This has been corrected.
NCCB -64763	httpClient	The default=true flag has been removed from the AX Http Client Point Manager. Third party modules will now be able to create a custom manager view for http client points as the default view.
NCCB -36471	hx	HxPx and UxMedia ImageButton now properly support pressed images on primary touch devices like phones. ImageButton also now ignores "mouse over" images on

		primary touch devices like phones. This allows the pressed image to properly show up when touched.
NCCB -62331	hx	In previous versions, the BHxNavContainerView (used with views like file folders) would not localize the "object" count. this has been corrected.
NCCB -62968	hx	In previous versions, any tag-based hyperlink was likely to fail in the browser. This has been corrected.
NCCB -66561	jsonToolkit	The JSON Alarm recipient now has an internal queue which buffers incoming alarm records, with an engine cycle between the processing of each alarm. Additionally, the caching of alarm record property values and the process of generating the new JSON string for that record are synchronized. These changes prevent overlapping requests from corrupting the cached data, and from loss of alarm record data in the recipient. Note: Upgrade from 4.10u8 to any release version of 4.11 or 4.12 will not be possible after adding a JsonAlarmRecipient, as this change introduces bog file changes that will be incompatible and will result in bog file warnings on station startup.
NCCB -61420	jxBrowser	Add support for future WebLauncher releases with JxBrowser 7.30.3 or higher, to allow DefaultWbProfiles to use JxBrowser for WebWidgets. Without these patches, then WebLauncher should gracefully fall back to JavaFx Browser.
NCCB -30186	kitPx, uxBuilder	In Previous versions, the UxMedia Bound Label would ignore line feeds for the Summary property. This has been corrected (only in UxMedia).
NCCB -32905	kitPxHvac	Some images have been updated from the old Powered by Niagara logo to the newer Niagara 4 logo.
NCCB -56160	mbus	Previously, it was possible for the M-bus TCP/IP driver to lose connection with a meter if the connection with the meter was closed in an unexpected way. This has been fixed so the driver will attempt to reopen the connection when detected.
NCCB -64313	modbus	For 4.14 beta, the bajaux Modbus New Point Command didn't match the bajai version for the allowable

		addresses on some writable points. This has been corrected.
NCCB -47400	modbusCore	Previously, a Modbus client device with active poll config entries would cause a "poll device timeout" info log to appear repeatedly on removal from the network. This issue has been fixed.
NCCB -47165	modbusTcp	Previously, if a problem was encountered with a modbus device, the severe log would not include details about which device address there was issues with. This has been updated to include the device address in order to make debugging easier.
NCCB -31198	nSnmP	Previously, the nSnmP driver would send responses based upon the send config of the network. This would either use the port specified in the send config or in most cases would send to a pseudo random port due it being configured to do so. This has been fixed to send response from the receive port 161 unless specified otherwise.
NCCB -45048	nSnmP	Previously, the SNMP Table view of a `nSnmP:SnmpTable` would display values as numeric that in Niagara might have a different representation such as an enum. This has been corrected and the type displayed in the table will now match the respective type seen in the property sheet.
NCCB -62571	nSnmP	Previously, if a user tried to use a directory with MIB files containing errors that are auto imported (ex. RFC1155, SNMPv2), workbench would crash trying to import the invalid files. This issue has been addressed and workbench will now provide the user with error messages for parsing errors with the files.
NCCB -64503	nSnmP	Previously, the web manager views of the nSNMP driver manager views were a view option; however, this automatically generated view for nSNMP is not sufficient and the manager views should be custom built for the web as they are in workbench. Due to this, these auto manager views have been disabled to avoid confusion.
NCCB -64858	nSnmP	Previously, it was possible for nSnmP to order columns incorrectly / omit some table columns based upon the structure of the underlying MIB file. Additionally, this

		issue could lead to an <code>ArrayIndexOutOfBoundsException</code> . This issue has been addressed and should now display correctly.
NCCB -61232	ndriver, webEditors	In previous versions, the <code>bajaux AutoManager</code> (used with most <code>ndriver</code> networks in the browser) was ignoring discovery preferences. This has been corrected.
NCCB -64002	ndriver	<code>NDriver</code> used to encounter deadlock if the last fragment was received at the same time as the transaction timeout.
NCCB -65064	net	Previously if a library didn't provide the host name but instead provided the <code>InetAddress</code> of a server it was attempting to connect to, no authentication information was returned. The <code>NiagaraProxyAuthenticator</code> has been updated to properly handle requests that use an address instead of a host name.
NCCB -59651	niagaraDriver	In previous versions, the <code>Ux Niagara Point Manager</code> would fail to show errors in browser when invalid <code>bql</code> query is used. This has been corrected.
NCCB -65790	niagaraDriver, niagaraVirtual	When using <code>Niagara Virtual Px</code> graphics, if you had a remote <code>Px</code> graphic against a <code>NiagaraStation</code> in a remote <code>NiagaraNetwork</code> on a subordinate station (or against a non-virtual descendant of that <code>NiagaraStation</code>), when navigating to the virtual <code>Px</code> representation of that graphic on a supervisor station, it would fail to load in 4.13. This has now been fixed so that those virtual <code>Px</code> views will load correctly, regardless of where they are located in the remote station.
NCCB -64839	niagaraVirtual	The translation of <code>Px ORD</code> bindings to virtual form (and re-routing to the <code>SystemDb</code> for any tag-based <code>Px ORD</code> bindings containing <code>NEQL</code> queries) for <code>Niagara Virtual Px</code> wasn't detecting the possibility that an <code>ORD</code> binding could contain multiple (chained) <code>NEQL</code> queries. The translation was fixed so that <code>ORD</code> bindings containing multiple <code>NEQL</code> queries will now be correctly re-routed to the <code>SystemDb</code> when viewed in a <code>Niagara Virtual Px</code> view.
NCCB -64681	nre	The <code>JSON-java</code> library within the <code>nre.jar</code> has been upgraded to the `20231013` version. Although this library is in a <code>com.tridium</code> package (<code>com.tridium.json</code>),

		<p>there are some changes that all developers might want to know about: * If you parsed a long decimal, it will now be returned as an E notation string if the number of leading zeros is greater than 5. * Other changes can be viewed here on the Java-JSON Releases page: [https://github.com/stleary/JSON-java/releases]</p>
NCCB-63081	nss	Added hooks to BISecurityDashboardItemProvider to allow a provider to declare itself disabled and show an appropriate item on the dashboard in that case.
NCCB-63602	opcUaClient	OPCUA Client discovery failed to render nodes with empty displayName in the discovery pane.
NCCB-66010	opcUaClient	Previously, it was possible for the OPCUA client to discover multiple instances of the same node in the same level of a device leading to duplicates in what is discovered. This has been fixed to remove duplicate nodes.
NCCB-63059	orientSystemDb	For certain supported Linux environments, depending on particular installation settings, the Orient System Database selection could fail to startup due to an AccessControlException. This defect has now been resolved.
NCCB-37894	pdf, report	PDF reports generated from a station or supervisor running on Windows will include the page number and timestamp that are completely visible in the header and footer of each page.
NCCB-64292	platCrypto, web	A new system property (niagara.web.excludeRootCAFromCertChainForSigAlgs) has been introduced to allow specification of a ';' separated list of signature algorithms that are used to determine if a certificate chain's root certificate should be excluded when presented to a client during a TLS handshake. If this system property is not explicitly defined, the implied value is a list containing a single signature algorithm - SHA1withRSA. To always include the full certificate chain during a TLS handshake, this system property can be set to an empty string.
NCCB-66116	platCrypto	Resolves an issue in the Certificate Wizard that caused certificate signing and installation failures when generating a certificate signing request/installation into

		a remote platform's UserKeyStore when the server certificate's Private Key was password protected.
NCCB -67334	platCrypto	In previous versions, if you signed a server certificate and attempted to import it into the Local Cert Store of the bajaux Certificate Manager, it would not show the "global" password checkbox as an option. Also, the bajaux pem viewer would incorrectly show the ca if the pem file was manually re-ordered so the ca was the first cert in the pem file. These issues have been corrected so the order is correct and the checkbox is now available. The only time you do not get a "global" password for the local Cert Store is when the certificate you are importing has been set to a CA or a Code Signing certificate.
NCCB -62852	platDaemon	The "plat" command now documents the "secure" option for all available commands.
NCCB -64942	platform	Previously saving the JACE-9000 (and some NPSDK devices) TCP/IP configuration could fail with a NullPointerException if the device did not enable IPv6. This has been corrected.
NCCB -66502	platform	Previously Workbench clients operating in the Turkish (tr) locale could previously fail to make a Niagara Daemon platform connection to a Linux Supervisor or embedded device with "Unknown SCRAM type" message.
NCCB -66903	platform - Install API	The plat fileput command line tool incorrectly prompted the user to "Apply OS Update (y/n)" even when the remote device did not support OS part management. This has been corrected.
NCCB -63568	program	In the 4.13 release of Niagara, the Program Module Builder would fail to build program modules do to an access control exception. This has been corrected in 4.13u1 and 4.14.
NCCB -65066	provisioningNiagara , uxBuilder	In 4.14 beta, deletion and reordering changes to Job steps in the Ux Provisioning Views would not be saved. This has been corrected.
NCCB -65965	provisioningNiagara	Corrected an issue associated with the provisioning generate certificate job step that was not including the

		subject alternative name extension in the generated certificate
NCCB -65966	provisioningNiagara	Corrected an issue with the provisioning sign certificate job step. The job step now uses the user provided password to encrypt private key while signing the certificate.
NCCB -65968	provisioningNiagara	Fixed an issue with the provisioning set certificate alias job step which was failing to set the FoxCert alias and password properties. The fix includes updating the web, fox and platform services with the configured alias and passwords.
NCCB -62873	report	When the value retrieved from the station is a dash character, the bajaux Grid Table will correctly apply status coloring to that table cell.
NCCB -64603	saml	A new "Include Query Params In Destination" boolean property has been added to the SAML Authentication Scheme. When this new property is set to true, any query parameters included in the "IdP Login Path" property value will be added to the 'Destination' attribute in the SAML AuthnRequest. When false (default), any query parameters in the "IdP Login Path" property value will be ignored for the corresponding 'Destination' attribute in the SAML AuthnRequest.
NCCB -64810	saml	The edit dialog for Station Service Providers in the Circle of Trust now correctly shows fields for both the signing certificate and the encryption certificate.
NCCB -66115	saml, samlEncryption	In prior versions, SAML authentication schemes configured with samlDecrypter only supported certificates encrypted with the global certificate password. Certificates encrypted with individual passwords are now supported.
NCCB -58915	schedule	Audit entries were not being properly recorded on the supervisor side when schedules were modified via Niagara virtuals. There were audit entries on the subordinate station side in such cases. Going forward, audit entries for modifications to schedules via Niagara virtuals will also be recorded on the supervisor side in addition to the subordinate side.

NCCB -62472	schedule	In previous versions, the Html5 Schedule could sometimes incorrectly complain about an event time which could have been deselected or deleted. This has been corrected.
NCCB -62943	schedule	Prior to this fix, if the "In" property of a schedule was the target of a link, going to the Scheduler view(s) and saving could cause the "In" property value to be incorrectly reverted to a prior value, thus driving an incorrect output value. This defect has now been resolved so that saving changes in the Scheduler view(s) will not impact the value of the "In" property (whether that property is linked or not).
NCCB -62165	seriesTransform	Series transforms for large data sets would sometimes include "NaN" results at the beginning or end of the results table due to a rounding error when generating the time interval for the transformed data. This has been fixed to generate a more consistent time interval.
NCCB -63974	seriesTransform	Inserting a Composite Node after a Rollup or Aggregate Node in a Series Transform graph no longer throws an exception due to a null nested table.
NCCB -65793	synthetic	It is possible for Workbench to detect exceptions when connecting to a station where a new module was installed and components from that new module have been added to the station. If the workbench does not have this module installed, exceptions could occur if the station was not restarted after module installation and workbench is attempting to generate synthetic components from the missing value types. After this fix, these exceptions should no longer occur and the workbench should successfully generate synthetic types as needed.
NCCB -60231	tagDictionary	Previously, if any tag groups on a component could not be resolved, the edit tags dialog would not show any of the component's direct or implied tags. Now, an error dialog alerts the user about these unresolved tag groups, the tag groups are listed in the error dialog's details section, and the edit tags dialog will show the direct and implied tags that can be resolved.
NCCB -60991	tagDictionary	Spy remote page was not loading if there is any unresolved relation present in the component. This

		defect is fixed and the spy remote page is loading properly now and also showing the unresolved relation.
NCCB -62971	tagDictionary	Prior to this fix, if any tag dictionary contained a bad tag rule that had an error when evaluated, it would prevent the generation of all implied tags for any station component. This defect has now been fixed so that any bad tag rules will be ignored and not prevent the generation of implied tags on station components.
NCCB -65316	tagDictionary	In previous versions, the Bajaux Tag Manager would not show details for certain tag groups (like ones that are implied). This has been corrected.
NCCB -36691	template	This fix reduces the time it takes to load the Template Manager view in workbench when connected to a station that has a large number of deployed templates.
NCCB -58966	template	When a template contains subtemplates, and the main template is upgraded, configuration values should be preserved, including those that set values inside a subtemplate. If a template is upgraded and is nested inside another template, it is best practice to open the main template in the Template View and upgrade them in the Subtemplates tab, then upgrade the main template in deployed stations. If the main template configurations set values of an upgraded subtemplate, those configurations will be removed in the main template and will need to be replaced in the Configuration tab prior to upgrading the station. This should allow configurations to be preserved on the station, even if they have been modified from the default values.
NCCB -63093	template, templateBulk	Running an Update Template or Application Configuration job step in a provisioning job will no longer fail for component templates when there is no Parent Component Slot Path entry in the configuration Excel file.
NCCB -63237	template	When template configurations are moved up or down in the Template Configuration Editor, the export of the template configurations to Excel will preserve the reordered configuration positions without having to restart workbench prior to export.

NCCB -59415	themeLucid, webEditors	In previous versions, Chrome and Firefox would have odd drawing artifacts in themeLucid for some of the underlined commands in bajaux Managers. This has been corrected.
NCCB -58383	uxBuilder	Various Bajaux views are now properly registered on their bajai counterparts. This will allow a bajaux replacement for a bajai view. Some common examples are the Bacnet Managers and Aarm database views.
NCCB -63006	uxBuilder	In previous releases, the Animated enabled property was not respected in UxMedia for the initial page load. This has been corrected.
NCCB -62313	videoDriver, xprotect	Updated product documentation and user guide to detail that cameras streaming HTTPs in Milestone must have a certificate signed by a root CA certificate in the browser's trust store.
NCCB -65038	videoDriver	As per customer needs, The Mouse Down Widget now works in the browser view of the Ux page. The mouse down widget will now be supported only for Ux media as part of Niagara release/4.14. This defect prevented the widget from loading in the browser for Ux media, the resolution now allows the widget to load and work as intended in the browser for Ux media pages.
NCCB -59741	wbutil	When the highest configured category is Category 7, Role Manager and Category Browser will now correctly show the auto-generated Category 8.
NCCB -63225	weather	In previous versions, the AQI "Very Unhealthy" Color did not match its specified color. This has been corrected.
NCCB -60047	web	Prior to this change, when the WebStart/Web Launcher applet parameter for the 'user' was being written to the servlet response, the BUser's name property's value was being used. In cases where the username starts with a numeric character, the name property's value is Slot-Path escaped while being added to the UserService. This caused the username being written out to the applet parameters to not match the expected Slot-Path un-escaped name, resulting in login failures. This has been addressed by ensuring that the

		username is Slot-path escaped when written to the servlet response.
NCCB -62330	web	When logging out from a browser session, the Confirm Logout dialog now supports extended Unicode characters, so these characters can be safely included in the "web.logout.confirm.message" lexicon entry.
NCCB -62355	web	When in the Html5HxProfile, following tag based hyperlinks should no longer cause the URL to keep getting bigger and result in an exception.
NCCB -15424	webChart	In a Web Chart with more than one series showing, right-clicking and removing the same series twice quickly will no longer cause the wrong series to be removed.
NCCB -60663	webChart	Relative Chart files now properly display stored color and chart type for saved series in Niagara Network points and any BOrdList property.
NCCB -61402	webChart	In previous versions, a station side export the ChartWidget with too many different units would incorrectly show a warning popup that could not be removed. This has been corrected.
NCCB -25609	webEditors	bajaux Manager views, such as User Manager, will now respond to reorder events by re-sorting the table.
NCCB -58471	webEditors	When adding unparented TreeNodes to a TreeTableModel, as in Manager discovery models, the spacing will now be correctly calculated when expanding those nodes.
NCCB -58619	webEditors	In previous versions, the browser Manager Discovery table was stretched too wide, this has been corrected.
NCCB -58835	webEditors	Added flag leftJustify: (boolean) is set to true by default. This flag will: (1) left-justify all the columns and the last visible column of the table will 100% width (2) Make the table 100% width , so the table will no longer work inline.
NCCB -59665	webEditors	In previous versions, the bajaux OrdChooser double-click-to-select would not respect OrdType=handle option. This has been corrected.

NCCB -61105	webEditors	When all side bars are disabled in the HTML5 Hx Profile, the browser's Back button will return you to the first loaded ORD with one click instead of requiring two clicks.
NCCB -62478	webEditors	In previous versions, the radix=16 facet would incorrectly be ignored and we would show non-hexidecimal numbers in bajaux Manger views. This has been corrected.
NCCB -62965	webEditors	Previously, when Using the Bajaux User Manager and creating a user without modifying the password field, an error would show but the user would still be created. Now you are no longer able to create that user until the password strength requirements are met.
NCCB -65622	webEditors	In 4.14 beta, the bajaux Ord Chooser may take up to 8 seconds to load after a station restart so it can query the station for its modules. On this first attempt, it also may not display the module space contents correctly (files inside of folders may be missing on the field editors first one). Now, the additional delay will only occur if the user expands the "My Modules" Nav Node and this delay should only happen once per station restart. When the My modules is expanded, it should no longer have problems with not displaying the proper contents.
NCCB -66015	webEditors	The OverrideRelTime Editor was fixed in the HTML5 views, as previously it would show the maxDuration value rather than the duration value if maxDuration had been set.
NCCB -67171	webEditors	In previous versions, the Http Client Device managers didn't subscribe deep enough so the manager did not make changes correctly. In 4.14 beta, bajaux manager batch edits would only show the changes for the first row, this has been corrected.