Niagara 4.9 Release Notes

TITLE Niagara 4.9 Release Notes DESCRIPTION

Issues fixed in Niagara 4.9 Release

Release Notes not assigned a module

Canceling "Change System Passphrase" action via syssh (Ctrl+C) leaves HAREMB-1124 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.

HAREMB-

dhclient.conf: grep error message printed when daemon.properties is missing 1226

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.

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.

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.

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.

NCCB-40623 Add URL whitelist for WebStart/WebLauncher

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 niagara.webbrowser.urlWhitelist system property. See the section "Configuring the Web Browser Whitelist" in the Getting Started with Niagara User Guide for details on syntax. 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.

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.

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).

NCCB-42187 Platform WiFi Configuration view: "Help -> On View" doesn't find the help. Platform view for Wifi Configuration now correctly resolves Help->About

NCCB-47123 Niagara WebLauncher Update

Web Launcher 20.1.3 is a major upgrade from the prior version. It carries a number of bug fixes and internal library upgrades to bring it into parity with Niagara release version 4.9 and up.

How to update Web Launcher?

Web Launcher has a feature to check for updates over the internet and prompt the user when a new version is available in the cloud. However, existing version of Web Launcher has a bug that prevents a smooth update.

Users will be required to perform a fresh install by downloading the latest version from the cloud via the station web Login page. Click on the Niagara Web Launcher Installer link on the station's Web Launcher Web Page, which can be reached via the link on the Login page itself.

Once the download is successful, click on the msi file and follow the installation wizard. You do not have to uninstall the older version. The new installation will automatically update to the latest version.

NEM-682	Memory leak in ace process		
Fix memory leak in ACE when encoding ace application file.			
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.

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.

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 failed. Fixed behavior of components added to property sheet.

NEM-42861	Document change for MySQL authentication in version 8.0
Documentation	n reflects changes made for MySOL authentication in version 8.0

 NEM-45327
 Click defragAndSAveStation from a controller and you get an dialog error message that isn't translated "jaceMaintenance.defragAndSaveStationQuestion"

 Added the menuined levisores

Added the required lexicons.

IN FUVI-47777	The AccessHxProfile logs you out immediately. The Html5HxProfile should ask to confirm		
New window will appear asking for the user to log out in Standard Access Profile			

New window will appear asking for the user to log out in StandardAccessProfile.

DESCRIPTION (CONT.)

Release Notes assigned to one or more modules

NCCB- 41597	Linux Installer	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 <u>brand.id</u> was defined in brand.properties The installDirectory.defaultFolder will now be used above all other default folder values when it is available.				
NCCB- 45883	Linux Installer	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.				
NCCB- 43364	ace	Cannot view AX Point Manager view of AceEdgeNetwork Point Folder		

The AcePoin	tManager was fixed so that the	view would open on ACE point folders.			
NCCB- 30881	alarm	Alarm Portal only attempts to connect to 4911 when TLS session is chosen			
In previous v	ersions of Niagara, the Alarm P	Portal only attempts to connect to 4911 when the			
TLS session i	s chosen. This issue has been fi	ixed, as the alarm portal will now connect to an			
alarm console	e in a running station via any fo	x, or foxs port.			
NCCB- 36477	alarm	Bajaux Alarm Console does not display special characters correctly			
correctly. Thi	•	Alarm Console did not display special characters bed characters are no longer a problem in the Bajaux			
NCCB- 40814	alarm	StatusAlgorithm and StatusFaultAlgorithm display status value options {stale} and {disabled} that will not be evaluated			
is "disabled" issue has bee	or "stale". Therefore, an alarm in fixed and these status options	hms were never evaluated if a control point's status will never be raised for these status values. This have been removed from these alarm algorithms bits not in the filter are not displayed).			
NCCB- 41074	alarm, baja	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.					
NCCB- 41222	alarm	Workbench Alarm Portal Tool Running Out of Memory			
connecting to	multiple recipients in the Alar	could run out of memory and crash when m Portal Tool. This issue has been fixed, as nd crashes when connecting to multiple alarm			
NCCB- 41378	alarm	AlarmData.timezone is not preserved in supervisor database			
database in co	-	bata.timezone was not preserved in supervisor been fixed, as the timezone in an alarm record's emote alarm routing.			

NCCB- 42678	alarm	Cannot view alarm notes under bajaux Database Maintenance View
Alarm Databa	ase Management and Database	unable to view alarm notes under both the Bajaux views. This issue has been fixed, as there is now which shows the notes in each view.
NCCB- 42787	alarm	Alarm Database Maintenance commands visible to users without proper permissions
users without	proper permissions. This issue	Database Maintenance commands were visible to has been fixed, as the commands on the Alarm DB user does not have admin invoke permissions.
NCCB-448	alarm	Unacked Alarm Count is sometimes incorrect in Alarm Class
Alarm Count versions that using the Orio	property is now accurately refl- will be upgrading to 4.9 and are	ass. This issue has been fixed, and the Unacked ected in an Alarm Class. For stations on previous e experiencing similar alarm count problems while be corrected by running the maintenance command
NCCB- 39263	backup, platform, platWifi	Station based backup requires access to platform net, DHCPD, WiFi directories
of the platfor	m when a backup distribution w	ore the WiFi, 802.1X and DHCPD configurations was restored through the Backup Service of a ne platform Distribution File Install were not
NCCB- 43052	bacnet, bajaui, history, workbench	PxViewToPdf does not output up-to-date data in HistoryTables
0	nd the data should now be up-to	not include current data in History Tables. This has p-date when exporting HistoryTables into a
NCCB- 44295	bacnet	Value of cov-resubscription-interval should not be allowed to exceed 28800 seconds.
-	bject in the BACnet driver cann 8800 seconds.	not have cov-resubscription-interval property a value
		Unclear error for Bacnet enum facet range non-

ot "Dam ·		e Range supports only contiguous ordinal.", in place
of Range m	ust be 1-N for export to BACne	it."
NCCD		
NCCB- 40663	baja, control	Control Point output rarely fails to update with most recent input priority slot change
one was alrea this could ca control point manually cha	ady in progress while another w use the output to be stuck at an was executed due to a link, but	ble that control point executions could be skipped if vas requested. Additionally, under rare conditions, old value/status. This was not typically seen when a could occur when using the property sheet view to issue has been fixed and control point executions tions.
NCCB- 43010	baja, web	Web Start/WebLauncher cannot load tridium.com by default
niagara.webł	prowser.urlWhitelist system pro	connect to a station that does not provide the perty, the default browser whitelist is used. This <u>m.com</u> and niagara-community.com.
NCCB- 43225	baja	Operator users may see stale (or slowly changing) Component property values
browser). As property valu This defect h	a result, an operator user may l les in various component views	he station to the client (e.g. Workbench or a have noticed stale (or very slowly changing) (such as Property Sheet view) or even Px views. perator user's client session will now get proper ges.
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NCCB- 44127	baja, naxisVideo, workbench	Manually copying/saving components with reversible passwords to a BOG file will fail if the
┭┭⊥ ∠/		default value is not BPassword.DEFAULT
In previous v passwords fr password coi BPassword.I	om a station to a BOG file wou ntained in the component is reve DEFAULT This defect has been	default value is not BPassword.DEFAULT opying and saving components containing ld fail, under the following circumstances: * The
In previous v passwords fr password co BPassword.I succeed and NCCB-	om a station to a BOG file wou ntained in the component is reve DEFAULT This defect has been	default value is not BPassword.DEFAULT opying and saving components containing ld fail, under the following circumstances: * The ersible * The password has a default value other than a fixed so that the copy/save to BOG will now s will be reverted to BPassword.DEFAULT.
In previous v passwords fr password co BPassword.I succeed and NCCB- 44582 ModuleDev	om a station to a BOG file wou ntained in the component is reve DEFAULT This defect has been such reversible password values baja	default value is not BPassword.DEFAULT opying and saving components containing ld fail, under the following circumstances: * The ersible * The password has a default value other than fixed so that the copy/save to BOG will now s will be reverted to BPassword.DEFAULT.
In previous v passwords fr password cor BPassword.I succeed and NCCB- 44582 ModuleDev	om a station to a BOG file wou ntained in the component is reve DEFAULT This defect has been such reversible password values baja	default value is not BPassword.DEFAULT opying and saving components containing ld fail, under the following circumstances: * The ersible * The password has a default value other than fixed so that the copy/save to BOG will now s will be reverted to BPassword.DEFAULT. Moduledev provides insufficient logging info to diagnose problems

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.

NCCB-		Add permission
NCCB- 44726	baja	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.

NCCB-	haia			n	nCloudDriver pre	events	Workben	ch cor	nect	ions	
46565	baja			v	when maintenanc	ce has	expired				
					2						

If an authentication scheme fails to load it can prevent fox connections to remote stations. This is been resolved in Niagara 4.9.

NCCB- 23460bajaScriptbaja.NameList fails to decode a BNameList trailing semicolon	with
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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.

NCCB- 38165	bajaScript	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.

NCCB- 42923 bajaScript	Missing NSpaceScheme in BajaScript
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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.

NCCB- 35131 bajaux, hx, webEditors	When field editor doSave fails, duplicate errors are shown
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could result in		n HTML5 property sheet that exhibits a save failure gs. This issue has now been fixed and will only
NCCB- 42010	bajaux, webEditors	Update to Complex values does not show without refreshing Manager
any changes t view was relo	o that "grandchild" component	n child component using an HTML5 Manager view, would fail to update the database table until that so newly added grandchild components will cause hanged.
NCCB- 45305	bajaux, hx, webEditors	Html5HxProfile Save command is missing in mobile mode
bajaux/comm were set to Co	ands/CommandGroup would in	flatten function in the bajaux module accorrectly only include Commands whose flags een corrected, so commandGroup.flatten() without a egardless of flags.
NCCB- 37908	bql, smartTableHx	StringFilter "Must Include" option is confusingly worded
wording has a	changed from "Must Include" to	In filtering the results of the Audit History table), the "Must Match." This more closely matches the real r than a simple substring search.
NCCB- 38910	bql, webChart	Stacked bar chart does not display using Last24Hours and rollup function
displaying da	ta in the last 24 hours and last 7	certain graphs such as Stacked Bar Chart had issues days. This issue has been fixed, as start times now ast 24 hours and 7 days respectively.
NCCB- 41722	cloudSentienceConnector	Cloud Connector Last Fail Cause is insufficient and unhelpful in some cases
	nnector's Last Fail Cause now of fails to connect in certain cond	contains a more understandable error message when litions.
NCCB- 34658	control	Deadlock while moving points with DiscreteTotalizerExts in a station
DiscreteTotal	6	can occur while moving points with has been fixed, as the deadlock will no longer iscreteTotalizerExt.
NCCB- 39230	control	DiscreteTotalizerExt can rarely deadlock when being added to a station

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.

NCCB- 35850cryptoCore, webGoogle Chrome will not trust self-signed certificates with IP Address for CN and SAN	N

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.

NCCB- 40871 cryptoCore	Only one TLS client connection can be opened at a time
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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.

NCCB- 44438cryptoCore, platDaemonModule signature verification in commissioning doesn't account for trust store of new jre	NCCB- 44438 cryptoCore, platDaemon
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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.

NCCB- 44919	cryptoCore, jetty, niagarad	Niagara daemon logs cipher warnings w/ Jetty 9.4

Due to updates with industry best practices, the ciphers suite support by Niagara TLS connections (niagarad, fox, web) have been updated:

- removed SHA suites from the recommended list
- added DHE suites to both recommended and supported lists
- with the addition of the DHE suites, removed DSS suites
- NOTE: Clients always use the "supported" list for backwards compatibility.
- NOTE: Servers continue to default to the "recommended" list.

Recommended Cipher Suites (13 values)

Name	Encrypti on Bits	ge	Kev	Encryption Cipher
TLS_ECDHE_ECDSA_WITH_AES_256_GCM	1 256	SHA38	ECDHE_ECD	AES_256_G
_SHA384		4	SA	СМ
TLS_ECDHE_ECDSA_WITH_AES_128_GCM	I 128	SHA25	ECDHE_ECD	AES_128_G
_SHA256	120	6	SA	СМ

TLS_ECDHE_ECDSA_WITH_AES_256_CBC _SHA384	256	SHA38 4	ECDHE_ECD SA	AES_256_C BC
TLS_ECDHE_ECDSA_WITH_AES_128_CBC SHA256	128	SHA25 6	ECDHE_ECD	AES_128_C BC
TLS_ECDHE_RSA_WITH_AES_256_GCM_S HA384	256	SHA38	ECDHE_RSA	-
TLS_ECDHE_RSA_WITH_AES_128_GCM_S HA256	128	-	ECDHE_RSA	AES_128_G CM
TLS_ECDHE_RSA_WITH_AES_256_CBC_S HA384	256	0	ECDHE_RSA	-
TLS_ECDHE_RSA_WITH_AES_128_CBC_S HA256	128		ECDHE_RSA	AES_128_C BC
TLS_DHE_RSA_WITH_AES_256_GCM_SHA	256	U	DHE_RSA	AES_256_G CM
TLS_DHE_RSA_WITH_AES_128_GCM_SHA	128	SHA25 6	DHE_RSA	AES_128_G CM
TLS_DHE_RSA_WITH_AES_256_CBC_SHA 256	256	SHA25 6	DHE_RSA	AES_256_C BC
TLS_DHE_RSA_WITH_AES_128_CBC_SHA 256	128	SHA25 6	DHE_RSA	AES_128_C BC
TLS_EMPTY_RENEGOTIATION_INFO_SCS				
TLS_EMPTY_RENEGOTIATION_INFO_SCS V				
V				
		Мала		
V Supported Cipher Suites (25 values) Name	Encrypti on Bits	Messa ge Auth Cipher	Key Exchange Cipher	Encryption Cipher
V Supported Cipher Suites (25 values)	on Bits	ge Auth Cipher	Key Exchange Cipher	Cipher
V Supported Cipher Suites (25 values) Name TLS_ECDHE_ECDSA_WITH_AES_256_GCM	on Bits	ge Auth Cipher SHA38 4	Key Exchange Cipher ECDHE_ECD	Cipher AES_256_G CM
V Supported Cipher Suites (25 values) Name TLS_ECDHE_ECDSA_WITH_AES_256_GCM _SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM	on Bits	ge Auth Cipher SHA38 4 SHA25 6	Key Exchange Cipher BECDHE_ECD SA BECDHE_ECD	Cipher AES_256_G CM AES_128_G CM
V Supported Cipher Suites (25 values) Name TLS_ECDHE_ECDSA_WITH_AES_256_GCM _SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM _SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC	on Bits	ge Auth Cipher SHA38 4 SHA25 6 SHA38 4	Key Exchange Cipher BECDHE_ECD SA BECDHE_ECD SA BECDHE_ECD	Cipher AES_256_G CM AES_128_G CM AES_256_C BC
V Supported Cipher Suites (25 values) Name TLS_ECDHE_ECDSA_WITH_AES_256_GCM _SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM _SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC _SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_CBC	on Bits ¹ 256 ¹ 128 256 128	ge Auth Cipher SHA38 4 SHA25 6 SHA38 4 SHA25	Key Exchange Cipher BECDHE_ECD SA BECDHE_ECD SA BECDHE_ECD SA BECDHE_ECD	Cipher AES_256_G CM AES_128_G CM AES_256_C BC AES_128_C BC
V Supported Cipher Suites (25 values) Name TLS_ECDHE_ECDSA_WITH_AES_256_GCM _SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM _SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC _SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_CBC _SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC	on Bits ^[256] ^[128] 256 128 256	ge Auth Cipher SHA38 4 SHA25 6 SHA38 4 SHA25 6	Key Exchange Cipher ECDHE_ECD SA ECDHE_ECD SA ECDHE_ECD SA ECDHE_ECD SA ECDHE_ECD	Cipher AES_256_G CM AES_128_G CM AES_256_C BC AES_128_C BC AES_256_C BC AES_256_C BC

TLS_ECDHE_RSA_WITH_AES_128_GCM_S HA256	128	SHA25 6	ECDHE_RSA	AES_128_G CM
TLS_ECDHE_RSA_WITH_AES_256_CBC_S HA384	256	SHA38 4	ECDHE_RSA	AES_256_C BC
TLS_ECDHE_RSA_WITH_AES_128_CBC_S HA256	128	SHA25 6	ECDHE_RSA	AES_128_C BC
TLS_ECDHE_RSA_WITH_AES_256_CBC_S HA	256	SHA1	ECDHE_RSA	AES_256_C BC
TLS_ECDHE_RSA_WITH_AES_128_CBC_S HA	128		ECDHE_RSA	AES_128_C BC
TLS_RSA_WITH_AES_256_GCM_SHA384	256	SHA38 4	RSA	AES_256_G CM
TLS_DHE_RSA_WITH_AES_256_GCM_SHA 384	256	-	DHE_RSA	AES_256_G CM
TLS_RSA_WITH_AES_128_GCM_SHA256	128	SHA25 6	RSA	AES_128_G CM
TLS_DHE_RSA_WITH_AES_128_GCM_SHA 256	128	0	DHE_RSA	AES_128_G CM
TLS_RSA_WITH_AES_256_CBC_SHA256	256	SHA25 6	RSA	AES_256_C BC
TLS_DHE_RSA_WITH_AES_256_CBC_SHA 256	256	SHA25 6	DHE_RSA	AES_256_C BC
TLS_RSA_WITH_AES_128_CBC_SHA256	128	SHA25 6	RSA	AES_128_C BC
TLS_DHE_RSA_WITH_AES_128_CBC_SHA 256	128	SHA25 6	DHE_RSA	AES_128_C BC
TLS_RSA_WITH_AES_256_CBC_SHA	256	SHA1	RSA	AES_256_C BC
TLS_DHE_RSA_WITH_AES_256_CBC_SHA	256	SHA1	DHE_RSA	AES_256_C BC
TLS_RSA_WITH_AES_128_CBC_SHA	128	SHA1	RSA	AES_128_C BC
TLS_DHE_RSA_WITH_AES_128_CBC_SHA	128	SHA1	DHE_RSA	AES_128_C BC
TLS_EMPTY_RENEGOTIATION_INFO_SCS V				
• removed SHA suites from the recommend	led list			

added DHE suites to both recommended and supported lists •

with the addition of the DHE suites, removed DSS suites •

NOTE: Clients always use the "supported" list for backwards compatibility. NOTE: Servers continue to default to the "recommended" list. ٠

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NCCB- 46584	cryptoCore, nre	CryptoCoreClientSocketFactory error handling does not properly escape IPv6 device specification
character (%) lead to the cli Mar-20 EDT]	when creating TLS client error ent failing to create the relevan	d to properly escape the IPv6 device specification r messages for failed IPv6 connections. This would t error message such as: "SEVERE [12:31:32 28- et fe80:0:0:0:bce6:3bb3:6bd9:ed06%10:5011].
NCCB- 19587	docDeveloper	docDeveloper Modules section contains errors
has been fixe	d, as a small correction was ma	eloper Modules section contains errors. This issue de to the modules section of decDeveloper encies section of the manifest.xml example.
NCCB- 39325	email	Email StartTLS has no support for TLSv1.1 or greater
		LS has no support for TLSv1.1 or greater. This ow supports TLS 1.1 and 1.2 when using startTLS.
NCCB- 40726	export, webEditors	Px view exports from browser do not work with non-slot ord schemes like hierarchy
handle, or vir		View to PDF on a non-slot ord such as a hierarchy, which prohibited its export. This issue has been correctly.
NCCB- 42917	export, file, smartTableHx	CSV exports vulnerable to formula injection
character cou accordingly. I space, which the following	ld have been interpreted as a fo Now, any cell in a table export	egan with an equals sign or other mathematical rmula by a spreadsheet program and executed that looks like a formula will be prepended by a uted. To revert back to the previous behavior, set ction=false
NCCB- 41949	exportTags	BMultiStationNamePickerFE does not coalesce duplicate selections as intended
properly coal BList of a val	esce duplicate Station name ent	MultiStationNamePicker Field Editor would not ries selected during save. This could result in a e Station names. This has now been corrected to

NCCB- 37568	history	History Db Maintenance has incorrect selector labels	
This issue has		Db Maintenance contained incorrect selector labels. onsistency between the lexicon text in the browser	
NCCB- 44339	history	Min & Max Facets of Point propagate to Tolerance of History CoV Ext	
affected by th outside of the property of th numeric poin Additionally,	e min and max facets of the par maximum or minimum ranges e NumericCovHistoryExt will t: precision, showUnits, showSo	y of the NumericCovHistoryExt was adversely rent point, so that it would disregard any user entry . This issue has been fixed, as the changeTolerance now inherit the following formats from the parent eparators, and the differential form of unit. the changeTolerance property because entering a dverse result.	
NCCB- 44341	history	Deadlock while deleting histories	
-	8, a JVM deadlock can occur w will not occur when deleting his	hen deleting histories. This issue has been fixed and stories.	
NCCB- 18843	hx, web	Hx javascript files and other web resources require browser clear cache to take effect	
module resou	rces. Module image files are les	rowser cache to get new js and css files from ss likely to require a clear cache, but sometimes you c up a module image if it does change.	
NCCB- 27899	hx	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.			
NCCB- 30925	hx, themeZebra	Use of Source Sans Pro font in N4 px pages fails in browser	
viewed in a b	-	ource Sans Pro font in N4 px pages would fail wen ed and N4 px pages that contain Sans Source Pro	

NCCB- 32700	hx	HxPxBorderPanes render content incorrectly when label property is non-null
In Niagara 4.3 when viewed		BorderPane, the border would not paint correctly en corrected and the HxPxBorderPanes render
NCCB- 41974	hx	HxCollectionTable does not respect Column facets like showing seconds for Series Transform time precision
seconds for S	eries Transform time precision. Table now respects Column fac	nTable did not respect Column facets showing This issue has been fixed, as the rets like showing seconds for histories and series
NCCB- 46554	hx	Modal PopupBinding should focus on previous popup windows on second click
modal=true p providing this links to the sa	opup while remaining on the sa s functionality, but browsers like	pt to focus an existing popup if you open that me browser tab. Chrome 81 is currently capable of e Firefox may only focus on an existing Popup if it as this functionality is limited by the browser's rules
NCCB- 46806	hx, uxBuilder	Clicking on invisible Polygon no longer works
instead of can some cases, s older canvas property: "hx	was. This was done so that mouvas. This was done so that mouv vg will be a more precise rende rendering technology (or you ju	on the Fill and Stroke properties now render in svg use overs behave more similar to workbench. In ring technology than canvas, but if you prefer the st want to compare), you can set this system n also add a View Parameter of " view?svg=false" older canvas rendering.
NCCB- 43082	jetty, jettyWrapper	Improve Niagara Resilience to Network Scans
tools. For mo		e stresses of different types of network scanning will behave under these conditions please review Scanners
NCCB- 45210	jetty, web	Jetty Web Server on JACE-8000 locking up
Updated Jetty	v version and tuned appropriatel	y for all known web server lockup issues.
NCCB- 41132	jxBrowser	JxBrowser remote debugging port clashes with Karma

	ith the niagara.jxbrowser.remot	ging capability in Workbench can now be eDebuggingPort system property. It will default to
NCCB- 21386	kitPxN4svg, svg, svgBatik	svg animation issues in workbench with kitPxN4Svg
	's would stutter and not animate	xhibited multiple animation issue where animated e smoothly. This issue has been fixed, and SVG files
NCCB- 43043	license, provisioningNiagara	License update for Edge device leads to multiple license files and station cannot start
same brand b	ut a lower case file name. It had	now removes existing license files that have the l been possible to end up with multiple license files ld prevent the station from starting.
NCCB- 18137	lonworks	Lon Proxy Ext "Link Type" doesn't persist after Adding Proxy Point
	• • • •	s force to unknown when user added new proxy made when creating a new point.
NCCB- 38281	lonworks	Can not create more than 4096 Local Lon NVs in Lon Network
		be supported is 4096. Added mechanisms to block de an error popup when this is attempted.
NCCB- 39092	lonworks	Lon Utilities Manager Identify Service pin never times out
was received	-	orks Utilities Manager and no service pin message usue has been fixed such that appropriate timeout is ailable again.
NCCB- 14942	migration	N4 Migration Tool does not migrate obsolete widget in px page
page. This iss	sue has been fixed, as a BacnetV	ration Tool does not migrate obsolete widgets in px VsDeviceManager view embedded in an AX Px part, BacnetAwsDeviceManager, using n4mig.
NCCB- 42748	nCloudDriver	4.8.0.106.1: Content error when trying to access CloudNetwork
Niagara 4.8, y	you will find that the Niagara C	he Niagara Cloud Honeywell Sentience Driver with loud Network's "N Cloud Driver Device Ux 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.

NCCB- 40893	niagaraDriver	Inconsistent behavior of direct tag flags/facets/removals for Niagara proxy point fetched tags
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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. 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.

NCCB-
45390niagaraDriver, niagaraVirtual,
webChartNuisance errors when viewing Niagara Virtual Px
views that include web charts

Prior to this fix, when viewing Niagara Virtual Px views that included web charts, the following error messages was issued in the supervisor station: 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(BNiaga
raFileDescriptor.java:268)
at
com.tridium.nd.file.BNiagaraFileImport.copyFilesFromRemoteToLoca
lSpace(BNiagaraFileImport.java:89)
at
com.tridium.nd.file.BNiagaraFileImport.doFileExecute(BNiagaraFil
eImport.java:61)
at
com.tridium.nd.file.BNiagaraFileDescriptor.doExecute(BNiagaraFil
eDescriptor.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(ThreadPoolWork
er.java:290)
```

This happened because an optional file (file:^charts/defaultOptions.chart) 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.

NCCB- 46219	niagaraDriver	Px Ord bindings containing history IDs in shorthand form don't resolve when loaded in Niagara virtual Px views
		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.

NCOD		
NCCB-	uio cons Vinturol	Virtual Px on Demand ignores view designation
41563	niagaraVirtual	for absolute Ord

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: station: |slot:/Drivers/BacnetNetwork/Floor1|view:CustomPxView

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.

NCCB- 42891niagaraVirtualSome ORDs in Niagara Virtual Px views not converted correctly	iews not

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:

- Source ORDs to other virtuals on the remote station (e.g. BACnet virtuals)
- Some relative ORDs used as a hyperlink or popup binding

• Non-slot ORDs (e.g. file ORDs) used as a hyperlink

These incorrect ORD bindings have now been fixed when loading Niagara Virtual Px views.

NCCB- 44213	niagaraVirtual, webChart	Resolving local history for Niagara virtual point broken when 4.7+ supervisor connected to 4.6 (or earlier) station

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. As a potential workaround, if all stations are at Niagara 4.7 or later, this defect does not manifest itself.

NCCB- 39043	niagarad, platDa	aemon		-	onsess	0	ses def t value	on short	custom
D ·		*** **							

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.

NCCB- 40004	niagarad, platform	Engine Watchdog Timeout policy of "Reboot" should not be allowed, invoked on platforms that do not support reboot
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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.

NCCB-		Windows Service for Niagara Daemon fails on
40977	niagarag	ServicesPipeTimeout

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. 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. 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.

NCCB-		Client TLS handshake can get stuck in an infinite
38305	nre	loop

	-	rver who's certificate has changed from Workbench
	Ild cause the connection to hang ersions is to kill the hung Work	g indefinitely. This has been resolved. Workaround bench or Station and restart.
NCCB- 39340	nre	NullFirewallProcessor consumes thread on platforms that don't use Pf based Firewall rules
	ervisor environments. This thre	Ild create an unnecessary "tFirewallProcesser" ad will no longer be created in environments where
NCCB- 41106	nre, web, workbench	Cannot download files with extended Unicode characters in content
by workbench		racters such as smileys, in files were not supported en fixed and you can now view or download files characters.
NCCB- 46905	nre	nre.properties 256M value is not enough for default Supervisor Niagara Station
		rvisor Stations has been increased from 256 MB to modify this value as your installation requires.
NCCB- 43067	nss	Security Dashboard fails to load if Niagara station client address is null
null. This issu		d fail to load if Niagara station client address is ty Dashboard has been updated to correctly handle
NCCB- 46344	nss	Missing documentation for nss:StationSecurity
issue has been accordingly.	n fixed, as the correct help guid	ntation for nss:StationSecurity was missing. This e base for the nss module has been added 'arget' on nss components should now link to the
NCCB- 36421	platCrypto	Importing a certificate with no extendedKeyUsage extensions fails with NPE
to the Niagara		when importing a keypair/certificate combination in KeyUsage was present. Niagara will now
NCCB- 45294	platCrypto	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.

NCCB- 37341	platDataRecovery	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.

NCCB- 38307platDataRecoveryData Recovery Service in "Ready" state bu are "Reserved, Idle, Idle"

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.

NCCB-	nlatform	Cannot read groups defined in Windows Admin
23835	platform	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.

	-	
NCCB-	platform	Application Director and Niagara console do not
33155	platolin	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.

NCCB-3493	provisioningNiagara	Message text field shows blank in Alarm console view when Jobs get cancelled from Provisioning Niagara
In Niagara AX versions of provisioning, alerts raised by cancelled batch jobs provided no		

message text in the alarm console. In Niagara 4 versions, the message text correctly appears.

NCCB- 42908	provisioning Niagara	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.		
NCCB- 45002	provisioningNiagara	Application template installation job fails for Windows Server 2019 Supervisors provisioning
43002		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. Reusing 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.

NCCB- 45884	provisioningNiagara	set property job step fails for BWebProfileConfig with javax.baja.sys.NoSuchSlotException selectedHxTheme
-	• • • •	d fail if the property type was a BTypeConfig. hrough the 'Set Property' provisioning step.
NCCB- 19508	pxEditor	PxEditor's BDouble editor can read but not write in the user's specified number format
the Px Editor fixed and bot) could only read numbers u	E and FloatCE (used for editing numeric properties in sing a dot for a decimal separator. This issue has been lly read numbers using the decimal separator
NCCB- 42638	rdb, rdbSqlServer	rdbms history export fails with truncation errors
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). The changes would reflect in new history export tables. 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. For SQL Server database (might have to disable the Primary key before the ALTER. Enable the Primary key after): ALTER TABLE ALTER COLUMN id BIGINT; For MySQL database: ALTER TABLE MODIFY COLUMN id BIGINT NOT NULL AUTO_INCREMENT; {quote}		
NCCB- 42043	report	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.		

NCCB-	report	Labels layout incorrectly when added to	
44061	-	ReportPane	
		d labels showing multi-line texts with word wrap,	
		layout, but rather only after the ReportPane had	
been resized.	This has been corrected, so the	text wraps correctly on first layout.	
NCCB-	una a sut	html grid table right click Go To links to individual	
44132	report	components	
subject of the user will now	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.		
NCCB- 45115	report, webEditors	Html5 Grid Table sorts incorrectly so its sorting should be disabled	
above those i		rting incorrectly, as values in the 100s would appear orting has now been disabled on the HTML 5 Grid avior.	
NGCD			
NCCB- 40843	saml	SAML authentication cannot handle encrypted attributes	
issue has been handle encry	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.		
	1		
NCCB- 44753	saml, webEditors	PopOutCommand does not maintain complex/slot settings when building the popped-out editor	
When buildin	ng an editor, fe and feDialogs no	ow allow value to be passed in along with complex	
and slot. The	specified value will be loaded i	nto 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, getComplex() and getSlot() will now return the correct values.		
NCCP		Wah Sahadular aummary tab daga rat work - "	
NCCB- 40100	schedule	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 getSummary 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.			
	nd the WebScheduler summary	tab should now render and function accordingly.	
	nd the WebScheduler summary	tab should now render and function accordingly.	

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:

{code} 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 {code}

This warning was purely a nuisance in this scenario, but has now been suppressed under such conditions to avoid further disruption.

NCCB- 41088	seriesTransform	Series Transform chart on Px view cannot be refreshed after changing parameters of transform graph nodes		
loaded in a bi nodes sourcir even with a ro Transform ch any changes t	rowser, a subsequent change many or it would not be immediately efresh of the browser. It require art data on the Px view in the b	was embedded on a Px view and that Px view was ade to any of the parameters of the transform graph reflected in the Px view's Series Transform chart, ed a logout/login (new session) to update the Series prowser. This defect has now been fixed, such that ph nodes are immediately picked up by a simple		
NCCB- 41477	smartTableHx	Security Appliance: Page over button not working for Consolidated Histories		
in previous vo "Optimized" to the fix vers	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.			
NCCB- 35133	template	device template deployment creates BFolder parent		
now create th	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.			
NCCB- 36695	template	Cannot have multiple Px images with the same name in device or application template		
Corrected im	Corrected improper handling of template files in subdirectories when file names were identical.			
NCCB- 39122	template	Not able to do Export Configs on template in module		
action is not a	an option when right-clicking o	plate is in the templates folder, the Export Configs n a template that is in a module, This issue has been is available for module templates.		

NCCB- 39576	template, workbench	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.
NCCB- 39826	template	DevTemplateMode shows duplicates
	ed more than once in the list of a	y Device templates, it was possible that a template available templates. Now, the template will only
NCCB- 40589	template	Bulk Deploy Relation link fails when used with lexicon
Inbound and during bulk d		localized label to find matching components
NCCB- 40820	template	Duplicate graphics files in application and station templates; edits are non-effective
Corrected an deployed.	issue that sometimes prevented	changes to graphics within the template editor to be
NCCB- 40821	template	Images don't show in template editor when reopened
Corrected an	issue that blocked loading of sc	ome image files when editing graphics in a template.
NCCB- 40822	template	Graphics don't show in template view for ACE application templates
	issue that prevented graphics fr mplate that has Edge ACE com	om showing in the template editor for an aponents.
NCCB- 40826	template	Configuration slots fail to set value when Application Templates are deployed via provisioning
from concrete	e BStatusValue Types (BStatus)	d configurations for custom Types that extended Numeric, BStatusString, etc.) could generate a ctly. This has been fixed to allow this type of
NCCB- 41419	template, workbench	Rightclick menu on Config space sometimes takes a long time to appear
	issue that sometimes caused a sonfig component of a large stat	ignificant delay when invoking the context menu ion.

NCCB- 42556	template	Unable to set platform credentials via template configuration
-		w be selected as configurations when creating a template. are already supported as configurations.
NCCB- 42826	template	Ordering of services changed after application template installation
Corrected th the template	-	after application template installation to match the order of
NCCB- 42883	template	Template Service "Bulk Deploy From Excel" does not release handle on excel spread sheet until Workbench closed / GC
to open the	workbook once the dep	bulk deploy a template from workbench, it was not possible loyment ran due to workbench keeping a lock on the Excel mmediately after deployment.
NCCB- 43030	template	Template Editor Component Tab: Menu presented in Nav Tree is different
-	-	b has been changed to present the full Edit menu when right- igation tree on the left side panel.
NCCB- 43414	template	Template load exception when creating application template on some stations
through an a		nt creating a new application template from a station installed ere components linked to the template configuration were
NCCB- 43418	template	Template load exception - error in opening zip file when configuring passwords in Component tab of template editor
		rruption caused by passwords entered in the Component tab ords entered this way will not be saved in the template file.
NCCB- 44186	template	Can't deploy template twice
	-	produced a cryptic error message and prevented deployments eployment of that same template.
NCCB- 44364	template	Sub-Template causing Null pointer exception

	issue that could result in failure o-template that is out-of-date.	to open a template for editing when that template	
NCCB- 44366	template	Template drop failure will corrupt the template	
	issue that could cause cryptic er was added while editing the ten	rror messages and file corruption to a template if a nplate.	
NCCB- 45467	template	Application Template component tab menu differs between a saved template &one being created	
		u items for components in the navigation tree of the correctly disabled when editing a template file.	
NCCB- 46638	template	Cannot deploy template if it is open	
drag-and-droj situation will	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.		
NCCB- 41508	wbapplet, web	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		
NCCB- 35061	web	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.			
NCCB- 37275	web	Obix client authentication floods audit history	
created for ea allow Obix cl	ch request, resulting in excessivients to re-use sessions has been	bix server would result in a new session being ye authentication audit events. In 4.9, the option to added with the Allow Session Reuse property on 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. 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.

NCCB-	h	nCloudDriver prevents Ux Views when
46700	web	maintenance has expired
expired licens		bad if its associated module has as an internal error, on. UI views no longer fail to load during such appropriately logged.
NCCB- 33228	webChart, webEditors	WebChart fails to load when encountering invalid units
custom Unit v unit.xml sym	which wasn't in the Unit.xml da bols now properly display on th or previous version of Niagara,	art failed to load when a point or history had a tabase. This issue has been corrected and custom the bajaux PropertySheet of NumericWritables. As a the unit.xml can be modified to include those
NCCB- 35863	webChart	Exporting histories to a chart file does not relativize any points with histories
•	ly along with when saving char	en fixed and exporting charts with relative ords now t files that contain n:history tags and points with
NCCB- 39494	webChart	Boolean history does not plot the data left and right of first and last values in time range
which left are This issue has	as on the graph unfilled despite	did not load data before and after the range request, e the presence of data beyond the specified range. will load in one record past and before the range to
NCCB- 39555	webChart	Predefined chart displays can show incorrect time periods
if the Data Zo not show up o when the same	on the chart unless it was manual point the chart unless it was manual pling could not be turned off d	rough this defect; When loading a predefined chart, while switching time ranges, some of the data would ally zoomed in. The ToolTip was not displaying ue to too many points being located therein. Axis unlocked regardless of user interaction.

NCCB- 39692	webChart	Webchart boolean History unable to change time period
		ot add a query to the ord of a WebChart on a Px now successfully add a query to the ord such as
NCCB- 42900	webChart	WebChart csv export includes pre and post records
record before trend, but whe	or after the data on the graph. The exporting the chart to csv, it been fixed, as csv chart export	nd beyond the first or last data point when there is a This provides a visual representation of the data would not include the data shown in that view. This is now exclude pre and post records based on the
NCCB- 27051	webEditors, workbench	Numerics/NumericEditors in Workbench Bajaux views does not respect user locale Numeric Formatting
been fixed an		espect workbench locale changes. This issue has er editors in Workbench bajaUX views will now
NCCB- 27850	webEditors	Intermittent error when changing facets slot of any point
with the value refreshed. The such as a Ran	e of that slot, an error message vis often occurred when editing	when the facets of a slot changed simultaneously was sometimes displayed requiring the page to be the facets of a point that was constantly changing been fixed accordingly and the intermittent error is of any point.
NCCB- 32983	webEditors	HTML5 SlotChooser fails to load if either source or target has no linkable slots
when using "l		n was issued if no slots were available for linking rom". This issue has now been fixed and no longer for linking.
NCCB- 38344	webEditors	Views that check the current user do not work if username has special characters
username, cer editable by th station, so thi	tain editors would incorrectly of e user. (Attempting to edit thes s did not represent a privilege e	user with spaces or other special characters in the display roles and permissions that were not actually e roles and permissions would still fail on the escalation.) This has been corrected, so any roles and lit will be hidden or marked readonly.

NCCD		UTML 5 Lloss Manager allows simultaneous		
NCCB- 40849	webEditors	HTML5 User Manager allows simultaneous editing of Authenticators of incompatible types		
When using t share the sam group of user allow you to o updated so th getConfigFor mgr.typeColu	e Authenticator type, then editing s. Only individual users, or grouedit their Authenticators. The H at any MgrColumn instances the () will show a generic "cannot e	it multiple users at once, and those users do not all ng of the Authenticator will be disabled for that ups of users with the same Authenticator type, will TML5 Abstract Manager Framework has been at throw an error from coalesceRows() or edit" message, just the same as the AX version. The Editors lexicon is now mgr.cannotEdit and applies to		
NCCB- 41530	webEditors	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.				
NCCB- 43377	webEditors	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.				
NCCB- 43462	webEditors, workbench	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.				
NCCB-2483	workbench	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.				
NCCB- 44501	entsec	Adding a badge is not triggering replication		
Entsec builds 4.9.0.4 and earler had issue in replicating the newly added badges to a person. This issue is fixed in the later builds.				
NCCB- 45317	entsec	4.9 Entsec Profile can fail to load page when custom navigation node includes special character		

NCCB- 45329	entsec, entsecHx	Go to AlarmHistory then click Purge Config, you get an empty dialog.		
The purge config dialog box on the Alarm History reports shows with the capacity in the alarm service				
NCCB- 45331	entsecHx	On the dialog on Personnel Changes, the "Target" filter has bad lexicon keys		
Target lexicons in the Additional personnel filter can be localized				
NCCB- 41217	webEditors	HTML5 Property Sheet leaks memory during navigation		
Property She	et could hang in memory, car	erty Sheet to another, the instance of the previous using a memory leak over time. This has been cleared from memory after navigation.		