Saia PCD® Supervisor
Release Notes for 4.7 update1 FixVersion

0.1 Document History

Version	Published	Comments
ENG01	2019-06-17	- First release

0.2 Trademarks

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Technical changes are subject to the state of technology.

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Issue Key	Module	Summary	Release Note
HAREMB-507		JACE-8000 defaults to factory recovery even if USB backup is present	If a user holds the backup/restore button during boot, and has a USB device mounted into the front panel USB backup/restore port, and the user does not register a keystoke via the serial terminal connection to indicate a restore is desired, previously the unit would have automatically entered the recovery process. With this release, the recovery/restore process will be aborted and the unit will continue with normal boot. If recovery is desired, no USB device can be mounted into the backup/restore port.
NCCB-32994	alarm	% symbol in point facets causes error for sms and email alarm recipients	We now scan the alarm recipient message body for possible BFormat fields and replaced them before formatting the body. This allows '%' symbols to be used in numeric values being sent to an alarm.
NCCB-38896	alarm	AlarmSourceExt AckedTransition ToNormal bit not set even when an alarm is active	When the most recent alarm to change to a Normal state is acknowledged, the AckedTransitions property ToNormal bit will now be set, even if the point is currently in an alarm condition.
NCCB-37344	bacnet	Bacnet Network does not initialize properly when installed via Application Template	Some BACnet point references and other types of references were non-functional after an application template installation, requiring a station restart to reset the references. This has been corrected.
NCCB-37863	bacnet	AMEV: Schedule &Calendar are not updating to PV of List-Of-Object-Property-References	NA
NCCB-38161	bacnet	[AMEV]TC #5.5 Alarm and Event -ACK-B: JACE fails to dynamically bind with 3rd party devices when it was down &become online	NA
NCCB-38226	bacnet	BACnet Confirmed Request max-APDU-length-accepted bit flags off-by-one	updated getMaxAPDULengthCode() to correct corner cases where we were out of bacnet spec section 20.1.2.5.
NCCB-38399	bacnet	AMEV: When Event Detection Enable is set to TRUE to FALSE, invalid event notification is received	From 4.7.110 build, when Event Detection Enable is set to TRUE to FALSE, invalid event notification will not be sent to recipients. And When Event Detection Enable is set to FALSE to TRUE then, Acked transition will be TTT, Event Message Text: "", "", "" and Event Timestamp: ANY, ANY, ANY

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Issue Key	Module	Summary	Release Note
NCCB-38454	bacnet	AMEV TC#8.4.5 : Normal timestamp reset to 'any' when loop alarm changes from normal to offnormal (HL/LL)	From: Niagara r47 update 1 build, Normal time is corrected and will not any even when component went on normal for bacnet loop, point, trendlog and event enrollment descriptor.
NCCB-38456	bacnet	AMEV: GetEnrollmentSummary - Analog Object failed to summarized for offnormal event state filter	The offnormal state filter now works in GetEventEnrollment summary.
NCCB-38457	bacnet	AMEV: GetEnrollmentSummary - Incorrect alarm priority summarizes for all objects	The alarm priority is now retrieved correctly based on the priorities set in the notification classes.
NCCB-38459	bacnet	AMEV: GetEnrollmentSummary - Acknowledgement filter 'acked' gives incorrect summary result for acked alarm	NA
NCCB-38468	bacnet	AMEV: TC #9.16.2.5: Failed with invalid tag while attempting to create an object with an object identifier	Upon passing wrong initial parameters, the creation of bacnet object fails.
NCCB-38552	bacnet	AMEV: TC#5.5.1>9.1.X1 Failed unsupported message text character set while acknowledging the alarm	Acknowledge alarm now does not fail in case of invalid character set.
NCCB-38675	bacnet	AMEV: Notification doesn't sent for IV/PIV objects	From build Niagara 4.7.110.8 build, Signed event notification with present value, dead band and exceeded limit as integer sent to recipients. Un-Signed event notification with present value, dead band and exceeded limit as long integer sent to recipients.
NCCB-38984	bacnet	AMEV: services-other error is received while writing Event Parameters for COS algorithm for multi-state objects	The change of status flags parameter in Event Parameters will be properly written to the Change of State alarm extension.
NCCB-38986	bacnet	AMEV: Reading of AckTransition of EE object with array index must throw invalid-array-index	When an array index is passed for reading the AckTransition for event enrollment object, it returns an error saying invalid array index.
NCCB-38999	bacnet	AMEV: Schedule should not accept change of datatype dynamically	Once the schedule type is accepted, the type should not be changeable through write property of # SCHEDULE DEFAULT # LIST OF OBJECT PROPERTY REFERENCES # WEEKLY SCHEDULE # EXCEPTION SCHEDULE
NCCB-39013	bacnet	AMEV: Reading Event-Timestamp of AI with array index 4, expected error is invalid-array-index	Providing array-index of 4 or above will fail with an error as 'INVALID_ARRAY_INDEX'.
NCCB-39031	bacnet	AMEV: Fails to Write deadband for Integer Value object	The dead band property for 'integer value' and 'positive integer value' are now considered to be 'UNSIGNED' and converted to 'REAL'.

Conventions Used in this Manual

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NCCB-39048	bacnet	AMEV: Creating a Schedule object with invalid parameter throws incorrect error msg	The error message is now shown correctly as "invalid-data-type".
NCCB-39081	bacnet	AMEV: Large Analog Value - few of the valid properties doesn't listed while reading LAV	Below properties are added to optional properties Relinquish_Default Priority_Array Event_State.
NCCB-39137	bacnet	AMEV: Priority field in Event Notification of EE is not correct as per its setting	The priority value in alarm generated by event enrollment now shows correct value as defined in the alarm notification class.
NCCB-39143	bacnet	AMEV: PIV/IV/LAV - Incorrect Notification from LowLimit to Normal is received when PV is changed from LL to LL < PV < (LL + DB)	Made the 'deadband' and 'cov increment' accept UNSIGNED values irrespective of the type of present value of the descriptor.
NCCB-39192	bacnet	AMEV: PV set to default once schedule goes out of effective period	The present value will be retained when even schedule becomes ineffective. It will not revert back to 'Schedule Default'.
NCCB-39207	bacnet	AMEV: 6.4.1>7.3.2.23.6: IUT configured with Schedule didn't send the notification after warmstart	NA
NCCB-39229	bacnet	AMEV: #6.4.5 > 7.3.2.23.11.1: Schedule is not able to configure for Boolean datatype (Out-Of-Service)	From build 4.7.110.23, For a Boolean schedule writing list of object property reference, device object property reference with property type is set to out-ofservice (out-of-service is Boolean property) will update schedule data type as BOOLEAN.
NCCB-39242	bacnet	TrendLog: Irrespective of the object types Client-Cov-Increment should be made available and writable	From build Niagara 4.7.110.22.3 build, TrendLog: Irrespective of the object types (LDPOR is numeric or non-numeric) Client-Cov-Increment property is readable and writable.
NCCB-39301	bacnet	AMEV: Multistate objects Automatically Setting to 0	When the out of service flag is set to true, it does not get affected by the 'out' value.
NCCB-39304	bacnet	9.14.2.1 for object (eventenrollment, 0): AddListElement and RemoveListElement service should throw property-is-not-a-list for any EE property	From build Niagara 4.7.110.22.2 build, AddListElement and RemoveListElement service throws property-is-not-a-list for any EE property. For any other property for which EE does not support will throw UNKNOWN_PROPERTY error for AddListElement and RemoveListElement service.
NCCB-39317	bacnet	Present value in `Out Of service` extension should not be driven by point's `out` value when `out of service` flag is TRUE	The OUT value will be propagated to the 'Present Value' of OutOfService Extension only when the out of service flag is set to false.

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Issue Key	Module	Summary	Release Note
NCCB-39358	bacnet	AMEV: Event Enrollment object is throwing error while writing Event Parameters for COS algorithm with unsigned value	From build Niagara-4.7.110.23.53 build, Event Enrollment object writing Event Parameters for COS algorithm with unsigned value for remote Multistate value/output /input objects will SIMPLE ACK response for alarm values within in range.
NCCB-39363	bacnet	AMEV: Incorrect calculation of sequence number during Read Range Service	The sequence number will paginate from first record itself when reference count is negative.
NCCB-39529	bacnet	AMEV: Trend log object get deleted while changing the descriptor from one type to another using LOPR	From build Niagara 4.7.110.22.8 build, change will LOPR will not delete the Trend log object, and will TL extension will be removed from older point.
NCCB-39550	bacnet	AMEV: Not able to write the 'null' value for Schedule Default	NULL is now writable for 'schedule default' property of Numeric. Boolean, Multi state and Character string schedule types.
NCCB-39567	bacnet	Event notification not received upon 'BUFFER READY'.	Event notification is now received upon 'BUFFER READY'.
NCCB-19575	chart, history, hx	Workbench View Widget: History Chart Builder fails to build chart for Hx web profiles in w	you will now be able to use AX chart builder component in PX pages and they will resolve correctly in the web view.
NCCB-38480	history	History can force expensive resize operation if not properly closed, delaying station restarts	Prior to this fix, if a station was not shutdown gracefully (e.g. using station kill or power loss), upon the next station restart, it was possible for histories with a full policy set to roll to have to perform an expensive resize operation in order to stay at the configured capacity. Since this could affect multiple histories, station startup was delayed waiting for these expensive resize operations to complete. This has now been resolved, so that the histories can more efficiently trim themselves under such conditions and free up the station startup process to run quicker.
NCCB-36114	hx	Value Binding in Hx Tabbed-Pane now prevents entire HxPx page from loading	If you have a TabbedPane with ValueBindings on it, then the HxPx page of that view stopped rendering in Niagara 4.4R. This has been corrected.
NCCB-39792	jxBrowser	Chromium Vulnerability CVE-2019-5786	JxBrowser has updated to 6.23.1 due to CVE-2019-5786 and provided a fix in Chrome 69.0.3497.12. https://jxbrowser.support.team-dev.com/support/discussions/top-ics/9000049628 Users are encouraged to update to a Niagara version with this fix to prevent being affected by this severre vulnerability.

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Issue Key	Module	Summary	Release Note
NCCB-36629	niagaraVirtual	Backups in Slot Paths don't translate properly in on-demand Px Graphics for Niagara Virtuals	In cases where you had a subordinate station (e.g. JACE) reporting to a supervisor and you had enabled the on-demand Px Graphics for Niagara Virtuals, if the subordinate station contained Px graphics that utilized relative SlotPath ORD bindings with backups ("../"), when that graphic was subsequently translated /loaded in the supervisor upon accessing the Niagara virtual component, those backups would not be translated properly and the virtual ORD bindings in the Niagara Virtual Px graphic would not display properly. This was particularly frustrating when you used the 'Relativize Ords' command in the Px Editor (or in template creation), as it could automatically create backups in SlotPath ORD bindings, thus leading to this downstream problem. This defect has now been fixed so that these ORDs will properly translate and display in on-demand Niagara Virtual Px graphics (only requiring the supervisor station to be upgraded).
NCCB-39191	rdb	rdbms history export fails if source historyConfig contains additional frozen slots	In the BRdbmsHistoryExport. makeMetaTemplate() method we have set a static field list that will be added to the history export meta table columns regardless of what properties are contained in BHistory-Config. This will allow for extensions of the BHistoryConfig class to be used more widely with RdbmsExport.
NCCB-39585	rdbSqlServer	rdbSqlServer database does not support dynamic port discovery	to enable dynamic port discovery with the rdbSqlServer, assuming that dynamic ports are enabled on the server side, set the port number to 0 and add a property in the Extra Connection Properties like 'instance-Name='.
NCCB-39167	saml	SAMLAuthenticationScheme cannot handle signed response with EncryptedAssertion	Previously, SAML authentication would fail when the IDP sends responses with encrypted assertions and message-level signatures. This has been corrected.
NCCB-36113	seriesTrans-form, web-Chart	Provide options to remove line gaps and remove hidden gaps by default	Web Chart now defaults to no longer creating a Gap in the data, when there is a hidden Trend Record, Null status, or non-finite value like +inf. If you like this behavior, a new chart setting has been added to return this gaps to their previous behavior, just set 'Show Data Gaps' to 'Yes'. By default, gaps from start flags will still be shown, but these can now be turned off by changing the chart setting 'Show Start Trend Gaps' to 'No,.

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Issue Key	Module	Summary	Release Note
NCCB-24007	tagDictionary	NEQL search on inbound implied relation is not returning any results	Previously, an implied relation such as n:parent would handle its outbound relation and the inbound complementary relation, n:child in this example. This prevented NEQL searches using the inbound relation from returning all results without resorting to poorly performing workarounds. Now, the implied relation handles both the inbound and outbound versions of itself and searches involving relations are accurate and performant.
NCCB-36696	template	Cannot have px files outside of default location in application template	Application templates now preserve and install most files in the station user home directory.
NCCB-37377	template	Application Templates: Web-charts are not loading on PX view after installing an Application Template	Application templates now preserve and install most files in the station user home directory.
NCCB-37934	template	Cannot deploy template with I/O	Templates with Input configurations could sometimes throw an IndexOutOfBoundsException when deploying the template to a station. Please note that templates currently restrict output link connections to BControlPoint instances. If a different component type is desired for the output link connection, connect it to a control point of the appropriate type and tag the control point so the template bind hints will pick it up.
NCCB-38086	template	Backport NCCB-36696 and NCCB-37377 to Niagara 4.7 U1	Application templates now preserve station files of all types in their original location.
NCCB-38151	template	Bulk Deploy fails input links	In some cases the Bulk Deploy process would not resolve template input slots declared in the Excel worksheet. The result could be undefined input links, which would show up in the Template Manager view on the station's Template Service.
NCCB-36209	wbapplet, web	Loading WebWidget in Webstart can show re-login and cause module download corruption	When loading a WebWidget in Webstart for the first time in a session, it may sometimes show the login page instead of your web widget. If this happens or the WebService is restarted during your connection, any new module or lexicon resources will be downloaded and stored incorrectly. This has been corrected. If you suspect your module resources have been corrupted, make sure to delete this directory so the modules can be downloaded corrected: C: \Users\\AppData\Local\niagara\ n4applet_

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Issue Key	Module	Summary	Release Note
NCCB-33156	webChart	WebChart: scaling should ignore min/max facets by default and provide options to use them	WebChart will no longer look at a point facets for 'min' and 'max' by default. If you prefer this behavior, there is now a chart option for "Facets Limit Mode" that defaults to "off" but can also be set to 'inclusive' (the old behavior) or 'locked' which will force the min and max to those values. In all of these settings, 'chartMin', 'chartMax' facet keys can be used as a higher priority substitute to 'min' and 'max'. Even if the "Facet Limit Mode" is 'off' this can be overridden for specific series if a facet key of 'chartLimitMode' is supplied with the corresponding values of 'inclusive' or 'locked'. If you are not using a chart file to load a WebChart, then there used to be no way to preset any options. Now you can change the default options; there is now a WebProperty that called "defaultOptions" that can be modified on a px page and defaults to "file:^charts /defaultOptions.chart". Even when not on a px page, non-chart files will load their options from this file if it exists and the user has permissions to view it. This includes the ability to change all options, so even the default time range can now be changed.
NCCB-37564	wiresheet	Wiresheet will not load if two components share more than one link and the source slot of one link is hidden	Previously if a wiresheet wire was hidden, it would cause a NullPointerException to be thrown if the wiresheet was displayed.

This has been fixed so that the exception is no longer thrown, and the connecting wire is simply not displayed. |

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A   Contact

Saia-Burgess Controls AG
Bahnhofstrasse 18
3280 Murten
Switzerland

Phone...................................... +41 26 580 30 00
Phone support......................... +41 26 580 31 00
Fax.. +41 26 580 34 99

Email support: .... support@saia-pcd.com
Supportsite: .... www.sbc-support.com
SBC site: .... www.saia-pcd.com

International Represetatives &
SBC Sales Companies: .... www.saia-pcd.com/contact

> ! *Saia Burgess Controls Technical Support are only able to provide support for Saia PCD® Supervisor and the Saia Burgess Controls driver features described in this manual. They are unable to provide support for 3rd party drivers and undocumented aspects of Saia PCD® Supervisor's operation.*

Technical Publications
Please send any comments on this or any other Saia Burgess Controls technical publication to **support@saia-pcd.com**.

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