

vNode v.1.22.4

Release Notes

Fixes, changes and features in vNode.

Released July 13, 2026

Bootstrap (v.1.48.0)

Change	Description
Changed	Alarm History – Alarm history now tracks activations, clears, acknowledgments and shelving as individual discrete events, enabling more granular audit trails and historical analysis.
Changed	LDAP – Added diagnostic logging for instances where a user successfully authenticates via LDAP but currently has no assigned roles.
Changed	Tags – Automatically trim whitespace from tag filters prior to generating a Regular Expression (RegExp) to prevent evaluation errors.
Changed	Auth – Ensured that stored Two-Factor Authentication (2FA) data is automatically cleared whenever TOTP is removed from a user's role.
Features	Alarms – Added support for alarm shelving, allowing operators to temporarily suppress specific alarms for a defined period without permanently disabling them.
Features	API – Added callMethod management support, enabling users to invoke and manage methods directly from the modules.
Removed	API – Permanently removed the previously deprecated insertHistory client method to streamline and maintain the integrity of the API.
Fix	API – Only related source modules are now properly notified when their data model changes, preventing stale configurations and ensuring downstream modules reflect updates in real time.
Fix	Alarms – Remote alarm acknowledgment no longer hangs when processing acknowledgment requests from linked nodes.
Fix	API – Fixed generic error handling to properly allow and process any value type.
Fix	API – Fixed a bug where API requests could unexpectedly fail after prolonged system uptime.
Fix	Audit Trail – Resolved a sync issue by ensuring new sessions are properly notified about the current Audit Trail instance upon connection.
Fix	Links – Clamped remote timestamps received from links that exceed the maximum u48 integer limit to prevent potential overflow or processing errors.

Data Exporter (v.1.10.1)

Change	Description
Fix	File Uploader – Solved an issue where the file uploader could stop scanning for new files when the connection to the FTP server was unstable.

Derived Tags (v.1.10.0)

Change	Description
Changed	Help – Updated the \$.browse help text to clarify that relative paths are supported, improving discoverability for users configuring tag expressions.

Fleet Manager Client (v.1.2.4)

Change	Description
Fix	Fixed several latent defects in rarely-triggered error handling paths – including incorrect retry timing, undefined variable references, and improper resource cleanup — that could cause unexpected behavior under edge conditions but did not affect normal operation.

Historian (v.1.24.0)

Change	Description
Changed	Alarms – Added a version attribute to alarm history records to support schema versioning and forward compatibility.
Changed	Alarms – Unified alarm history events to a discrete-action row schema, standardizing how activations, clears, and acknowledgments are stored across all alarm types.
Features	Alarms – Added support for historizing alarm shelving events, allowing operators to track when alarms were shelved, unshelved, or expired over time.
Fix	Timescale – Fixed an issue where connections to databases with mixed-case names would fail.
Fix	Timescale – The offending timestamp is now logged when a bulk INSERT operation fails, making it easier to diagnose and troubleshoot data ingestion errors.
Fix	Timescale – Historian now attempts multiple locale strategies when creating a database, improving compatibility across systems with different locale configurations.

ICCP Server (v.1.0.1)

Change	Description
Features	ICCP – Introduced new ICCP server functionality to expose the data via the standard IEC 60870-6 (TASE.2) protocol.

IEC 102 Client (v.1.9.0)

Change	Description
Changed	Gateway – Transport disposal during escalation is now logged at DEBUG level instead of WARN, reducing noise in production logs where this is expected behavior.

IEC 104 Client (v.1.3.0)

Change	Description
Changed	Commands – Introduced the “Write completion COT” parameter, allowing users to define the specific Cause of Transmission (COT) required to mark a write command or interrogation as successfully completed. Users can now choose between the standard ActTerm (Activation Termination) or ActConf (Activation Confirmation).
Features	Commands – Added Select-Before-Operate (SBO) support for tag writes, enabling two-step command execution to improve safety and compliance with IEC 60870-5-104 control operations.
Features	Commands – Implemented a 15-second command timeout for instances where the client fails to receive the expected Cause of Transmission (COT).
Fix	Codec – Fixed memory leaks occurring when receiving invalid or malformed frames, improving long-term stability in noisy or unreliable network environments.
Fix	Codec – Fixed an issue where the S-Frame ACK did not correctly wrap around to 0.

MCP Server (v.1.4.0)

Change	Description
Changed	Configuration – Prompt and description fields now support Markdown (MD) inputs, allowing richer formatting when defining tool and resource configurations.
Features	Authentication – Added OAuth 2.0 authentication support for the MCP server, enabling secure, token-based access control for client connections.

MCP Server (v.1.4.0)

Change	Description
Features	Session – Added a configurable session idle timeout that, upon expiration, fully releases all associated memory, preventing resource leaks in long-running deployments.
Fix	API – All date values are now processed as epoch timestamps in alignment with the new API, ensuring consistent time representation across integrations.
Fix	Session – Fixed runaway memory growth caused by MCP session leaks and login loops, improving long-term stability in deployments with high connection turnover.
Fix	Security – Normalized paths in getFilters to prevent double-slash (//) bypass vulnerabilities, strengthening access control enforcement.
Fix	Tools – Migrated the tool script selector to PickMethod for compatibility with Scripting 2.2.

MQTT Client (v.1.14.1)

Change	Description
Fix	Connection – Fixed a crash caused by a 'cb is not a function' error during publish retry, ensuring connection recovery handles callback references correctly.
Fix	Store & Forward – Solved an issue where drain messages could be lost when publish errors occur, guaranteeing Store & Forward delivery integrity under unreliable network conditions.
Fix	Store & Forward – Fixed an issue where a failure in the first folder would stall the entire drain process; all folders are now iterated independently regardless of individual errors.
Fix	Store & Forward – PersistentMap is now more durable and resilient to corruption, reducing the risk of data loss in Store & Forward storage during unexpected shutdowns.
Fix	Publisher – Fixed a deadlock that occurred when a PUBACK was not received, preventing the publisher from becoming unresponsive on unacknowledged messages.

Notifier (v.1.5.0)

Change	Description
Changed	Startup – Disabled messages and notifiers are now skipped when loading the tag model, reducing unnecessary processing during startup and configuration reloads.
Features	Performance – Optimized tag model change handling to consume significantly less RAM, improving memory efficiency in deployments with large tag models.
Fix	Message – Notifications no longer abort when an error occurs while retrieving message data, ensuring delivery attempts continue despite partial data retrieval failures.

Notifier (v.1.5.0)

Change	Description
Fix	SMPPNotifier – Fixed a custom script error that occurred when using \$.local in scripts, ensuring local variable access works correctly within SMPP notifier scripts.

OPC DA Client (v.1.9.2)

Change	Description
Fix	Tags – Updated quality evaluation to successfully handle and support 16-bit OPC DA quality values.

OPC UA Client (v.1.19.0)

Change	Description
Features	Monitored items – Added support for configuring data filters on monitored items, allowing users to reduce unnecessary data traffic by filtering updates based on timestamp changes only.
Fix	Digital certificates – Fixed an issue where the client would fail to connect when the server presented a certificate containing unsupported extension fields.
Fix	Browser – Fixed null extension objects causing encoding corruption in the byte stream, ensuring reliable serialization when browsing nodes with incomplete extension data.
Fix	Browser – Corrected a mapping error where string extension object properties were incorrectly generated as Float64 tags instead of string tags during drag-and-drop operations.

OPC UA Server (v.1.16.0)

Change	Description
Changed	UX – Updated the endpoint network interface help text to provide clearer guidance on configuring network bindings for OPC UA server endpoints.
Changed	Performance – Improved startup performance when generating the address space according to user-defined filters, reducing initialization time on large tag model.
Features	Methods – Added a browse methods action, allowing the user to discover and inspect available methods in this node.
Features	Methods – Added method folder support for grouping related methods, enabling a more organized and navigable method hierarchy in the address space.

Scripting (v.2.2.0)

Change	Description
Features	Method – Added support for Method actions in scripts, enabling users to define and invoke custom logic through callable methods from other modules.
Fix	API – Resolved a fatal error that could be thrown by the BrowseSource function during recurrent operations.
Fix	Task Management – Modified task initialization to defer startup until the first tag model is successfully received, preventing premature execution and related errors.

Siemens Client (v.1.8.2)

Change	Description
Fix	Block Sizing – Resolved an issue where block length calculations failed to account for the size of the first tag, ensuring highly accurate block boundaries.
Fix	String Reads – Fixed string read operations to properly limit the read size to the minimum value between the actual PLC content length and the configured length, preventing out-of-bounds data retrieval or malformed strings.
Fix	Error handling – Resolved an issue to prevent the module from freezing when a “function refused by CPU” error occurs simultaneously with another error.

Sparkplug Client (v.1.3.1)

Change	Description
Fix	Store & Forward – NBIRTH and DBIRTH messages sent after a Rebirth NCMD now include the latest tag values, ensuring clients receive an up-to-date device state upon reconnection.
Fix	Store & Forward – DBIRTH metric values are now refreshed when the Store & Forward drain is triggered, preventing stale values from being published during message replay.

Web UI (v.1.24.0)

Change	Description
Changed	API – Refreshed internal type definitions for the alarm API, ensuring alignment with the latest alarm data structures and improving type safety across alarm-related operations.
Changed	Realtime view – Removed the 150k tag limit in the Realtime Data table, allowing deployments with large tag counts to display all data without truncation.

Web Vision (v.1.10.0)

Change	Description
Features	Config Editor – Configured the tag property picker to automatically expand the “data” node for faster navigation.
Features	Properties Tree – Added a collapse button to the title bar to improve UI organization.
Fix	Actions – Corrected the action popup to properly display the “actions will run on execution” message immediately upon opening.
Fix	Actions – Configured reloaddataset and write actions to properly throw an error when called with empty input.
Fix	Alias – Ensured that linked inputs are properly refreshed whenever an alias configuration is changed.
Fix	Config Editor – Fixed a syntax typo (oMultiEditor corrected to onMultiEditor).
Fix	Heatmap – Ensured the hideInactiveSeries property applies immediately without requiring a full component refresh.
Fix	Heatmap – Simplified the shouldHide conditional logic and ensured the _redraw flag is respected during batch processing.
Fix	Historical – Fixed an issue to ensure visualizations reliably refresh upon receiving historical tag updates.
Fix	Input Component – Resolved an issue to preserve user typing on Input Visuals when they are located inside popup windows.
Fix	Permissions – Resolved an evaluation issue by normalizing the request path in getFilters prior to matching tagsAccess filters.
Fix	Pie Chart – Restored the missing percentage and total values within the tooltip for the Pie Chart component.
Fix	Properties Tree – Fixed a UI layout issue by properly anchoring the horizontal scrollbar to the bottom of the viewport.
Fix	WebSocket / Security – Enforced server-side permission checks on previously unprotected commands to enhance security.
Fix	Map – Ensured the “Size type” expression value is correctly coerced into a number to prevent data type or evaluation errors.
Fix	Properties Tree – Deferred the scrolling action until the help panel is fully rendered to prevent jarring UI layout shifts.
Fix	Properties Tree – Resolved a navigation issue to properly re-scroll to the active selection after the help panel animation completes during Enter key navigation.

Web UI (v.1.24.0)

Change	Description
Fix	Backup Manager – Prevented visual overflow issues in the details panel and fixed the display of its empty state.
Fix	Config Editor – Fixed a rendering issue to ensure instances properly appear in the model tree during dynamic instance list loading.
Fix	Charts – Restored the missing CSV download functionality within historical data reports.
Fix	Tags Filter – Configured the filter input to automatically trim whitespace from values to prevent unexpected search or filtering errors.
Fix	UI – Updated all tree components across the interface to properly display a horizontal scrollbar when content exceeds the visible width.

Web Vision (v.1.10.0)

Change	Description
Changed	Tag Picker – Updated the component to display the full alias path whenever an alias is selected.
Changed	Config Editor – Extracted the selectMethod utility and added full support for multiselect functionality.
Features	Distributed WebVision – Introduced a new distributed architecture allowing visualization workloads to be shared across multiple Web Vision instances while maintaining a single point of access, delivering massive scalability.
Features	Components – Introduced the new DataSetTable component.
Features	Alarms – Integrated a dedicated shelving alarm table within the main alarms table, utilizing a splitter panel for improved workspace management.
Features	Actions – Added new event actions specifically designed for managing alarm shelving.
Features	Actions – Added the action() function to enable asynchronous access to event action outputs.
Features	Methods – Added new functionality to call methods exposed by other modules, along with a new “Call Module Method” action in the Config Editor.
Features	Config Editor – Introduced the \$ scope variable to easily expose event data within expressions.
Features	Performance – Significantly improved the performance and efficiency of tag subscriptions.
Features	Historical Subscriptions – Optimized routing by directing historical subscriptions specifically to the discovered node rather than broadcasting to all nodes.

Web UI (v.1.24.0)

Change	Description
Changed	Config Editor – Dropdowns with no available values now display instead of appearing blank, improving clarity when a field has no selectable options.
Changed	Config Editor – Optimized asynchronous loading management within dropdown menus to provide a smoother user experience.
Changed	Config Editor – Extracted the shared selectMethod utility to add full multiselect support.
Changed	Alarms – Cleaned up the codebase by removing obsolete and unused historical-mode legacy code from the shelved alarms grid.
Changed	Alarms – Aligned the wording in the history “Details” column with the standard terminology used across WebVision.
Changed	ConfigEditor – Enabled displaying the output value inside the input field for asynchronous dropdown selections.
Changed	UX – Enhanced transparency by adding a visual loading state indicator when a redundancy certificate is being generated.
Changed	Views – Configured dropdown lists to properly render an empty selection option within sub-level menus as well.
Changed	Permissions – Tightened authorization security by explicitly requiring Config Editor write permissions to execute the GET_RSA command.
Features	Config Editor – Improved performance when deleting template instances, reducing the time and resource overhead in configurations with a large number of instances.
Features	Alarm shelving – Added alarm shelving support to the WebUI, allowing operators to shelve and unshelve alarms directly from the interface.
Features	Config Editor – Introduced a new native method picker control field.
Features	Config Editor – Implemented automated migration workflows for template instances utilized inside instancelists.
Features	Config Editor – Added support for rendering contextual help text within groups.
Features	CSR – Upgraded the Certificate Signing Request (CSR) generation tool to automatically bundle and download the associated private key alongside the CSR in a single .zip file.
Features	Security / UX – Added a convenient hold-to-reveal password toggle button to both the login screen and change password popups.
Fix	Config Editor – CSV instance lists can now be exported and imported with entries marked as “result only” (such as lccpServer DataSetMember).
Fix	Config Editor – Fixed an error that occurred when loading more than 10 elements of an array instance list in a CSV with nested instances.

OPC UA Server (v.1.16.0)

Change	Description
Features	Methods – Browse methods auto-creation handles the full Scripting type matrix, ensuring all supported input and output argument types are correctly mapped when methods are automatically generated.
Fix	Digital certificates – Fixed a crash that occurred when the server certificate contained unknown or unsupported extension fields.
Fix	Digital certificates – Fixed an error that prevented certificates from being displayed when the server had no valid endpoints configured.

Redundancy Agent (v.1.3.0)

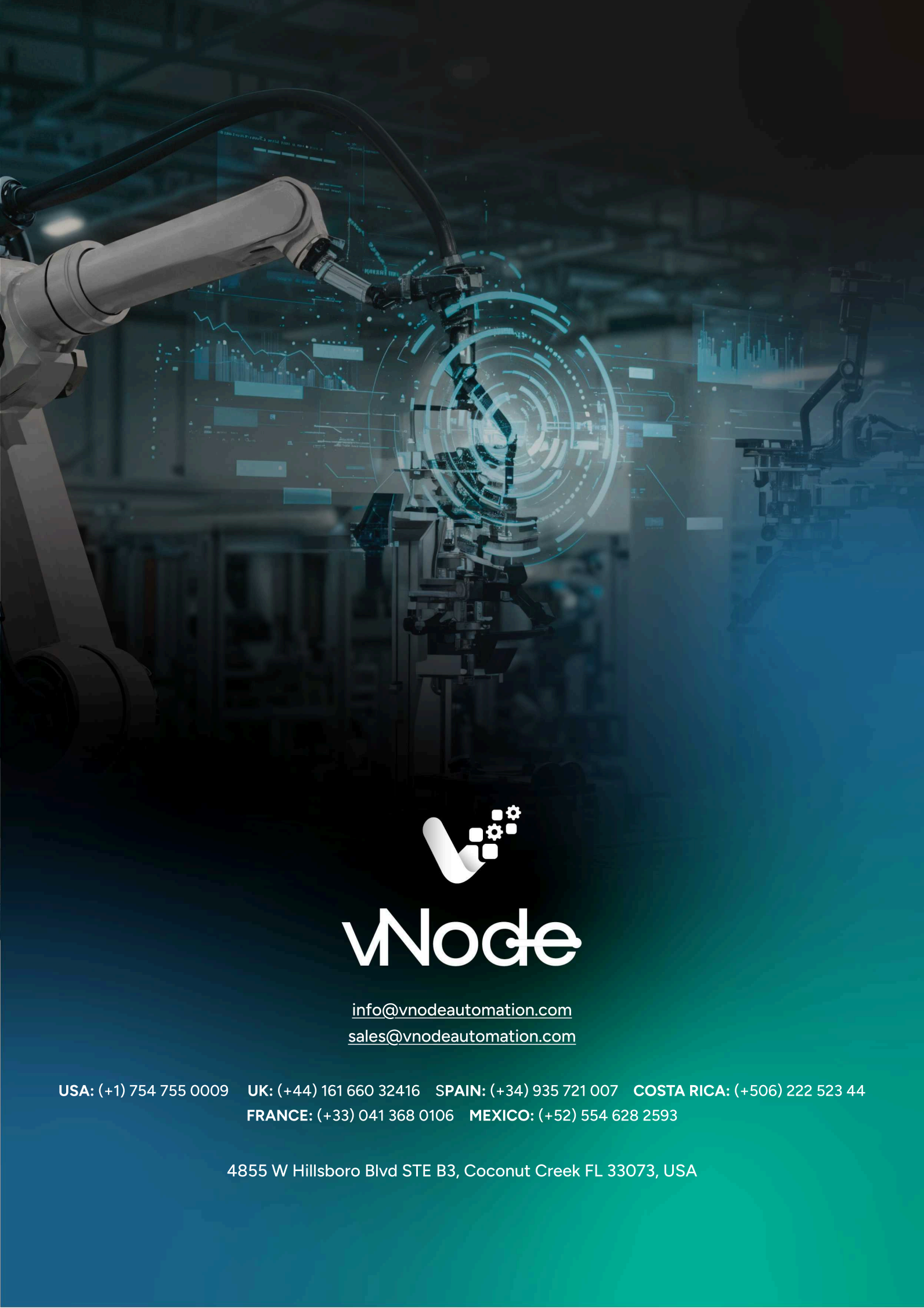
Change	Description
Features	Connection – Added a connection timeout mechanism to proactively detect and handle stale or unresponsive servers.

REST API Client (v.1.12.1)

Change	Description
Fix	Connection – Added an insecureHTTPParser option to enable connectivity with non-conformant HTTP servers that send malformed or non-standard HTTP responses, improving interoperability in environments with legacy or third-party devices.

REST API Server (v.1.9.1)

Change	Description
Fix	Data Processing – Fixed an issue to ensure dates are properly converted to Unix epoch format during processing.
Fix	Permissions – Fixed an issue to ensure dates are properly converted to Unix epoch format during processing.



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