

# Ignition 8.x Compatible Release Notes

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Cirrus Link recommends our Customers always thoroughly test new module versions in a test environment before releasing to production.

- **Color Code:** Bug Fix, Feature/Enhancement, Optimization

## Cirrus Link Modules for Ignition v4.0.2 - October 11, 2019

- General (All Modules)
  - Security improvements
  - Added validation to ensure passwords can not be null, empty, or only whitespace
  - Added ability to delete certificates from configurations
  - Updated all existing password/secret configuration fields to use the "enter twice" validation
  - Various minor bug fixes
- MQTT Distributor
  - Add support for spaces in ACL topics
- MQTT Engine
  - Added support for updating/changing incoming tag datatypes
  - Added 'Hostname Verification' setting to optionally enable TLS hostname verification
  - Added support for configuring which Tag properties get filtered/ignored on incoming publishes
  - Improved tracking of BIRTH/DEATH counts
  - Fixed Custom Namespace support for periods (".") in MQTT topics, now interpreted as folder separator in the resulting tag path
  - Fixed "Online Nodes" dataset initialization error
  - Fixes for handling legacy quality types
- MQTT Transmission
  - Replaced "Default Transmitter" with new "Example Transmitter" and associated example Tags.
  - Made the publishing of UDT definitions in BIRTH messages configurable
  - Added 'Last Refresh' Tag to denote time of last Refresh button click
  - Added 'Refresh Required' Tag to denote if an MQTT Transmission refresh is required/needed
  - Added protection against configuring the same History Store setting on multiple Transmitters
  - Added 'Hostname Verification' setting to optionally enable TLS hostname verification
  - Added support for configuring which Tag properties get published
  - Fixed publishing of derived tags, OPC tags, and other indirect types
- AWS Injector
  - Added support for configuring which Tag properties get published
- Azure Injector
  - Added support for configuring which Tag properties get published
- Google Cloud Injector
  - Added support for configuring which Tag properties get published
- IBM Cloud Injector
  - Added support for configuring which Tag properties get published
- Opto22 groov EPIC and SNAPPAC Driver
  - Added scanner refresh control Tag

## Cirrus Link Modules for Ignition v4.0.1 - June 19, 2019

- AWS Injector
  - Fixed support for auto-detected Edge Nodes in tag trees
  - Various tag path handling fixes
  - Various UDT fixes
  - Improvements to handling of null values
  - Added Agent record validation in Web UI configuration
- Azure Injector
  - Fixed support for auto-detected Edge Nodes in tag trees
  - Various tag path handling fixes
  - Various UDT fixes
  - Improvements to handling of null values
  - Added Agent record validation in Web UI configuration
  - Fixed publishing of NBIRTH messages for Event Hubs
- Google Cloud Injector
  - Fixed support for auto-detected Edge Nodes in tag trees
  - Various tag path handling fixes
  - Various UDT fixes
  - Improvements to handling of null values
  - Added Agent record validation in Web UI configuration
- IBM Cloud Injector
  - Fixed support for auto-detected Edge Nodes in tag trees
  - Various tag path handling fixes
  - Various UDT fixes
  - Improvements to handling of null values
  - Added Agent record validation in Web UI configuration
- MQTT Distributor
  - None
- MQTT Engine
  - Fixed online status info tags to denote the proper values

- Added support for Ignition7/Transmission to publish to Ignition8/Engine with quality code translations
  - Fixed multiple tag write issues
  - Various tag path handling fixes
  - Fixed issues with property merging in MQTT Engine
  - Various UDT fixes
  - Fixed typing of JSON tags in custom namespaces
- MQTT Transmission
  - Improved Transmitter field validation in the Web UI configuration
  - Added support for multiple tag paths in a single Transmitter configuration
  - Added support for additional topic tokens to be published via special char sequence in a Sparkplug Device folder
  - Fixed multiple tag write issues
  - Fixed support for auto-detected Edge Nodes in tag trees
  - Fixed issue that could result in Transmitter Threads running after Transmission shutdown
  - Various tag path handling fixes
  - Various UDT fixes
  - Improvements to handling of null values
  - Fixed connected Server URL info tag handling
  - Added sorting of UDT definitions to ensure proper order for creation of UDTs
  - Added batching and caching components to improve performance
  - Fixed alias support
  - Improvements to Disk-backed history stores
- Opto22 groov EPIC and SNAPPAC Driver
  - None

#### Cirrus Link Modules for Ignition v4.0.0 - May 13, 2019

- AWS Injector
  - Initial port to Ignition8
- Azure Injector
  - Initial port to Ignition8
- Google Cloud Injector
  - Initial port to Ignition8
- IBM Cloud Injector
  - Initial port to Ignition8
- MQTT Distributor
  - Initial port to Ignition8
- MQTT Engine
  - Initial port to Ignition8
  - Known issues
    - Throughput is not as good as it was in Ignition 7 compatible modules
- MQTT Transmission
  - Initial port to Ignition8
  - Removed default transmitter and now seed a default transmitter with the same functionality as the old default transmitter
  - Added support for multiple tag paths to a single transmitter
  - Added custom property to 'exclude tags' from payloads
  - Added custom property to specify which tags changes events will be stored in store and forward cache
  - Known issues
    - Throughput is not as good as it was in Ignition 7 compatible modules
- Opto22 groov EPIC and SNAPPAC Driver
  - Initial port to Ignition8
  - Improved tag writing throughput working with massive tag lists and during episodes of congested writes
  - An initially scanned floating point value of Not-A-Number (NaN) is better handled
  - Scanner waits for acceptance of tags before publishing data
  - Duplicate tag definitions are prevented
  - In extreme cases, 32- and 64-bit integer values may have erratically updated