Release notes — CtrlX Driver for Ignition 8.1

Deutsche Fassung: RELEASE_NOTES.de.md

What changes for you when you install a new version of this module: new features, changed behaviour, what was removed and what was fixed. This includes changes in the ToddySoft Connect ctrlX driver inside the module. Every item is described in full in the manual (*Version history* and the sections it points to).

1.3.0 — 2026-11-13

Built on ToddySoft Connect 1.3.0.

Before you upgrade

- **Ignition 8.1.33 or later is required** (Java 17). On older 8.1 releases Ignition refuses the install. Upgrade Ignition first.
- **Date and time tags have new value types.** DATE and DATE_AND_TIME are DateTime values; TIME and LTIME are milliseconds; TIME_OF_DAY and LTIME_OF_DAY are milliseconds since midnight. Check scripts and bindings that use them.
- **The licence agreement has changed**, so Ignition asks you to accept it again.

New

- **Triggered groups:** tags read together when a trigger tag changes, instead of at a fixed polling rate.
- **Licence diagnosis on the gateway:** why a device is or is not licensed, with a report to send to support.
- **An expired licence keeps working for its 30-day grace period**, and the gateway names its end date. Until now an expired licence was reported as corrupted and refused at once.
- **Installing or upgrading the module needs no gateway restart** on Ignition 8.1.
- **Manual:** activating, renewing and moving the licence, online and offline; what to do when two licence keys for this module are active on one gateway.

Changed

- **Verify SSL is on by default** for new devices, as in the driver. A ctrlX with its factory certificate is reached by pinning that certificate under **Pinned Certificate Fingerprints**, not by switching verification off.
- **Tag addresses are accepted with and without a leading `/`** (`plc/app/…` as Bosch writes it, `/plc/app/…` as the browse offers it). An address the controller refuses fails that tag alone, not its whole group.
- **Faster polling.** Reading many tags in one poll takes about a third of the time it did.
- **Faster, lighter browsing.** Nodes that cannot have children are no longer asked for them, and a browse no longer starts a thread per node on the gateway.
- **Browsing:** an array is one folder named with its index range (for example `arr[0..9]`) holding its elements, an array of structures a folder per element. Existing tags keep their item paths and keep working.
- **Nodes the controller does not let you write are browsed as read-only.** Until now every node was offered as writable.
- **Errors carry the controller's own explanation** in the gateway log (for example *Node is write protected in the current run state*) instead of an HTTP status.
- **The device status is accurate:** *Connected* once reads succeed, and a paused tag group says why it is paused.
- The module's description on the gateway says it is the build for Ignition 8.1.

Fixed

- **Licence:** a valid licence is no longer reported as *corrupted* after a gateway start, nor when Ignition delivers it while the gateway is running. The licence itself no longer appears in the gateway or audit log.
- **Writes the controller refuses fail in Ignition**, with the reason as the status. They used to be reported as successful.
- **Tag quality:** a tag not read yet, or whose last read failed, no longer reads 0 with Good quality.
- **Time values:** LTIME reads in milliseconds (it read in nanoseconds). Writes to LTIME, TIME_OF_DAY and unsigned integer tags (UDINT, UINT, USINT) reach the controller in its own unit; they were refused or written a million times too large.
- **A fraction written to an integer node is refused** instead of being cut off and reported as written.
- **A time stamp the driver cannot decode is a failed read**, no longer the current time with Good quality.
- **Browse queries of the form `/motion/**`** browse that subtree; they returned nothing.
- **With Verify SSL off, the gateway log names every certificate the controller presents** (a ctrlX CORE presents two), so a device pinned as advised connects every time, not only most of the time.
- **The Password field is masked.**

- Removing the last tag of a tag group no longer leaves the device in *Connection Lost*.
- A device no longer fails to start with `NoClassDefFoundError: …/PlcDeviceSetup`.