Release notes — S7 Web API 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 S7 Web API 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.
- **The licence agreement has changed**, so Ignition asks you to accept it again.
- **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.

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.
- **Diagnostic lists say when they were cut short:** `$diag:buffer` and `$diag:alarms` carry three variables in their folder, `#list-truncated`, `#list-entries-omitted` and `#list-entries-available`.
- **Manual:** this module's own manual, including activating, renewing and moving the licence, online and offline.

Changed

- **Idle connections are renewed quietly.** A SIMATIC controller closes an idle connection after a few seconds; the driver now reopens it under the same session before the next request, without logging in again, and no longer writes an error with a stack trace to the gateway log each time.
- **Browsing:** an array is one folder holding its elements, an array of structures a folder per element. Existing tags keep their item paths and keep working.
- **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.
- **A lapsed session recovers.** After a few minutes without reads, every tag of a device could read *access denied* until the gateway was restarted. The driver now logs in again by itself.
- **Integer tags can be written**, and values are read in the variable's declared type (an INT as INT, a TIME as a duration). Until now no integer tag could be written at all.
- **Writes the PLC 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. When the connection breaks, the tags turn Bad instead of keeping their last values as Good.
- **Large reads:** reading about a thousand tags at once no longer fails on the S7-1200 and S7-1500, and a large answer from an S7-1200 G2 no longer fails every tag in it.
- **Sessions:** a connection lost while idle no longer leaves its session behind on the controller, which could use up all of its session slots; a login refused because they are all taken now says so, instead of asking you to check the password.
- **An address the driver cannot read** fails on its own, no longer together with every other tag in the same read.
- **Dates and times:** a TIME or DATE outside its range is refused before it is sent, and writing a whole DTL or DATE_AND_TIME is refused with a hint to write its members; LDATE, LTIME_OF_DAY and LDATE_AND_TIME read correctly.
- **Password fields are masked** (Password, Trust Store Password).
- 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`.