Release notes — S7 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 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.
- **A secure connection (S7CommPlus) no longer falls back to classic S7Comm after a timeout or a refused certificate**, only when the controller itself declines it. A device that connected only through that fallback now fails to connect and names the cause; set its **Maximum Protocol** to Classic if that is what it needs.

New

- **Triggered groups:** tags read together when a trigger tag changes, instead of at a fixed polling rate. The new **Subscription Poll Interval (ms)** sets how often the trigger tag is checked.
- **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:** this module's own manual, including activating, renewing and moving the licence, online and offline.

Changed

- **Faster reads over secure connections (S7-1200 / S7-1500).** Tags of non-optimized data blocks and array ranges are read in a few large requests instead of one per tag or element, and reading a few elements of a large array no longer reads the whole array.
- **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. On an S7-300 / S7-400 the browse now lists the data blocks beside the M, I and Q areas.
- **The device status is accurate:** *Connected* once reads succeed, and a paused tag group says why it is paused.
- **Request Timeout is now labelled Read Timeout**, which is what it always was. The value you set is kept.
- The module's description on the gateway says it is the build for Ignition 8.1.

Removed

- **The Max VLAN Depth setting.** It never had any effect; a value saved on an existing device is ignored.

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 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.
- **System status list and clock:** `SZL_ID=…`, `CLK` and `CLKF` are read; such a tag used to get no value at all. `MODE`, `SYS`, `USR` and `ACK:` are refused as unsupported.
- **S7-1500 controllers with firmware V4.x connect over S7CommPlus.** Every connect used to time out.
- **Secure connections (S7CommPlus) read and write correctly:** about one read in 128 no longer fails, an absolute `%DB` address no longer returns a neighbouring variable's value, string arrays are no longer misplaced, and a refused write reports each tag's own reason.
- **An array element read together with its whole array** returns that element, not its neighbour.
- **Dates and times:** negative TIME values read correctly, the day of the week of a DTL is right, and a value outside a type's range is refused instead of being written

wrapped around.

- **A read that times out or comes back short** delivers the tags whose data arrived and names the timeout in the log, instead of failing as an internal driver error with a stack trace.
- **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`.