Release notes — S7 Driver for Ignition 8.3

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

- **Restart the gateway after installing or upgrading the module.**
- **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:** a Licence card in the device form shows 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.
- **Discovery when Ignition runs in Docker**, through the ToddySoft discovery agent on the host.

- **Manual:** this module's own manual, including activating, renewing and moving the licence, online and offline; installation steps and menu paths for Ignition 8.3.

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, a multi-dimensional array nested folders (until now it was missing), 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.
- **Discover Devices is faster on a gateway with several network interfaces**: one search window covers all of them, instead of one window per interface.
- **The device status is accurate:** *Connected* once reads succeed, and a paused tag group says why it is paused.
- **Ignition refuses to load the module without its OPC UA module**, with a warning naming it, like Ignition's own drivers, instead of failing with an error.
- The module requires the released Ignition 8.3.0 or later, and its description says it is the build for Ignition 8.3.

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.
- **Discover Devices lists each controller once**, not once per network interface of the gateway, and shows the order number also for CPUs that refuse a quick second connection.
- Removing the last tag of a tag group no longer leaves the device in *Connection Lost*.