Release notes — IEC 61850 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 IEC 61850 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.

First release of this module.

Before you install

- **Restart the gateway after installing or upgrading the module.** Install it through **Install or Upgrade Module**; a `.modl` file copied into `user-lib/modules` is not loaded.
- **Ignition's OPC UA module must be installed and running.** Without it Ignition does not load this module and names the missing module in a warning.
- **The IED must accept an MMS association from the gateway** on TCP port 102. Check that the gateway is an allowed client and that a client slot is free.
- **Most IEDs accept the module's association defaults.** An IED configured otherwise lists the values it expects in its SCD file or its configuration tool.
- **Controls need the IED's permission:** remote operation allowed (local/remote switch at remote) and, where the IED checks one, the originator.
- **Licence:** without a licence the module runs in Ignition's two-hour trial, which can be reset as often as needed. A licence comes as an Ignition licence key with an activation token; activating it on the gateway, online or offline, is all there is to do. There is no licence file and no licence setting in the device form.

New

- **An IEC 61850 MMS client for Ignition:** for protection relays, bay controllers, meters and gateways in substations and distribution networks. GOOSE, Sampled Values and TLS are not offered.

- **The IED's data model in the tag browser, read from the IED itself.** No SCD or ICD file is needed. The tree follows the model (logical device, logical node, data object, data attribute); **Browse Scope** narrows it to one logical device or node on a large IED.
- **Every attribute is typed as the IED declares it**, and its access follows its functional constraint: status and measured values are read-only, settings and configuration are writable.
- **Arrays:** an array attribute is a folder with a read-only tag per element, a multi-dimensional array nested folders down to its elements, an array of structures a folder per element.
- **Control objects are operated with their own control model.** Write the value to the object's `Oper` tag; the module selects first, operates and waits for the command termination as the object's model requires, read per object from the IED (all four control models). An originator identity can be set. A control the IED refuses fails the write, with the IED's reason (for example interlocking or a selection held by another client).
- **Values from report control blocks** (setting **Use Report Control Blocks Where Available**, off by default): an attribute one of the IED's free report control blocks covers updates as soon as it changes, with the IED's own time stamp and with every change. Attributes no free block covers stay polled at their tag group's rate, and the gateway log names them.
- **A lost connection turns every tag Bad**, and the device reconnects on its own; report control blocks are enabled again after the reconnect.
- **The association settings can be adjusted** to an IED that expects other values (AP titles, AE qualifiers, selectors, TSAPs, MMS limits). A refused association names the layer that refused it.
- **Discover Devices:** the gateway finds IEDs by connecting to each address of a network on port 102, and only after you press **Probe addresses**. Each IED is listed with the vendor, model and revision it reports. Ranges of up to 1024 addresses, across routed networks too.
- **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.
- **Manual** in English and German, including activating, renewing and moving the licence, online and offline.