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61850 AVENUE TOOLSET

61850 Avenue Client tool ● 61850 Relay Simulator ● GOOSE toolset ● Sampled Values toolset ● 61850 ICD Editor ● 61850 File Transfer Tool

61850 Avenue Client tool - an intuitive software tool for the newest IEC communication standard applicable to protection and control of power systems.

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n me 1.0.62351.4.3.1 (C

View of connection parameters of the selected server.

127.0.0.1

1.1.1.999.1

Default

Enabled

TLS CA certificate: D:\1.Projekty\5.IN TLS own certificate D:\1.Projektv\5.IN TLS private key D:\1.Projekty\5.IN

Mechanism Name 1.0.62351.4.3.1 (C

Certificate private | D:\1.Projekty\5.IN

1.1.1.999

D:\1.Projekty\5.IN

3782

-- Demo [127.0.0.1]

□ Remote OSI Parameters

OSI Session Selec 0001

OSI Transport Sele 0001 □ Substation Configuration

TLS authentication Required

OSI Presentation § 00000001

8 2 ↓ 🖻 ■ Main

Address

AE Qualifier Application ID

IFD name

Use TLS

Password Certificate

AE Qualifier

Application ID

RCB Indexing

SCI. File Name ☐ Transport Layer Security

TLS private keyph ■ Authentication

☐ Local OSI Parameters

Application Timeou 10 Max. MMS Frame: 65280

Max. MMS Service 1

Max. MMS Service 1

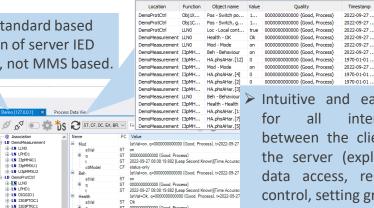
OSI Presentation § 00000001

OSI Session Selec MM1

TLS authentication mode TLS authentication mode, required or optional IEC 61850 standard based presentation of server IED data model, not MMS based.

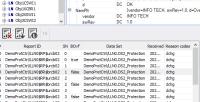
EN LLNO
LN LPHD1

Dedicated window for viewing process data values selected by the tool user.



Intuitive and easy GUI interactions between the client and the server (exploration, data access, reporting, control, setting groups).

10:15:...



(vendor=INFO TECH, swRev=1.0, d=Overcurrent protection I>, configRev=1.0, IdNs=IEC 61850-7-4:20078)
INFO TECH

atCtrl/Obi1CSWI1.Pos

on: 1 ID: De

Client

10:16:27:35* Demo [127:00:1] Report [Reference="DemoProtCht/LLN0.urcb02"; RptiD="DemoProtCht/LLN0.BPP\$urcb02"; OptRids="[SequenceNumber, Report TimeStamp, ReasonForInclusion. 10:16:27:367 Demo [127:00:1] Report [Reference="DemoProtCht/LLN0.brcb02"; RptiD="DemoProtCht/LLN0.BPRStorcb02"; OptRids="[SequenceNumber, Report TimeStamp, ReasonForInclusion.

Supports IEC 61850 Edition 1. Edition 2 and the newest Edition 2.1.

Supports secure client-server communication based on TLS and ACSE.

Server Simulation of protection relay with IEC61850 server INFO TECH IED Name: Demo

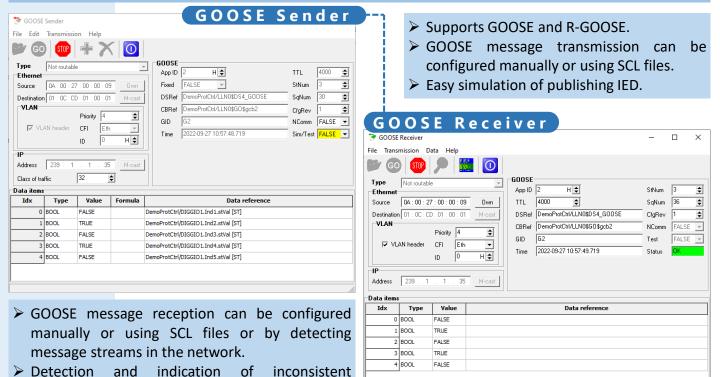
61850 Relay Simulator - simple overcurrent protection relay with IEC 61850 server interface.

- Representative set of IEC 61850 models and services.
- Intuitive and easy GUI for simulation of single bay operation.
- Freeware.

Server IP: 0.0.0.0 Server Port: 3782 MAC: 00:50:56:C0:00:08 Edition: 2.1 ResvTms attribute: yes Owner attribute: no Use TLS: yes ACSE authentication: yes Overcurrent protection I> (M)-START O TRIP RTRIP UL1 = 15000 DI2 UL2 = 15000 DI4 UL3 = 15000 DI5

GOOSE toolset:

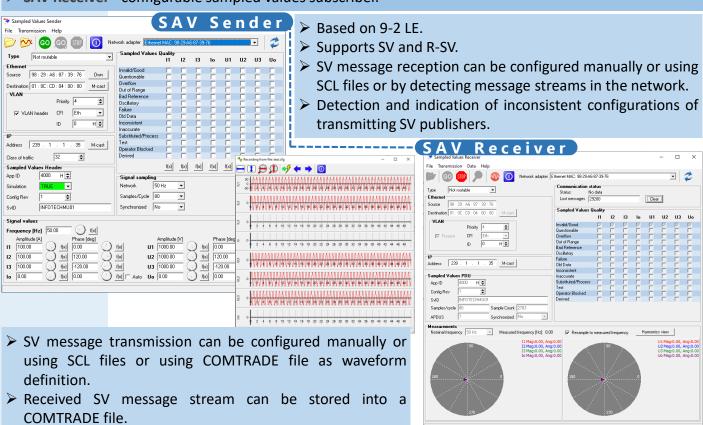
➤ GOOSE Sender - GOOSE Publisher with configurable transmission parameters of GOOSE messages. GOOSE Receiver - configurable GOOSE Subscriber.



Sampled Values toolset:

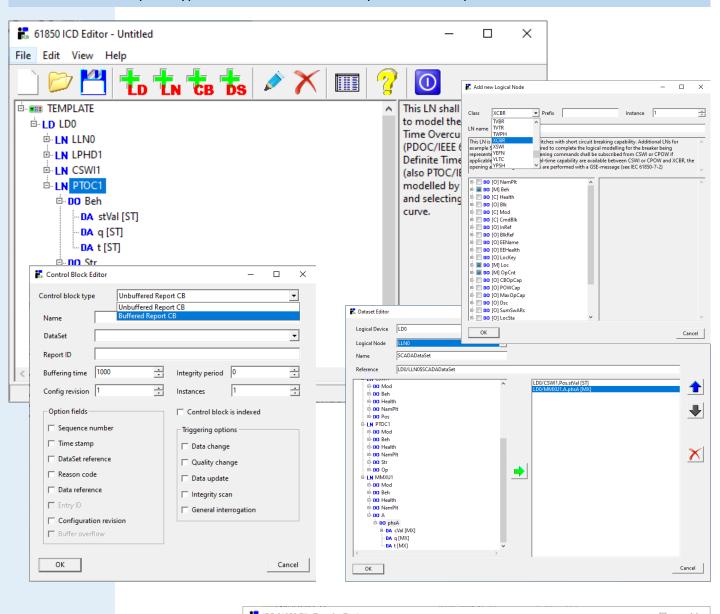
- > SAV Sender configurable publisher of message stream with sampled values.
- SAV Receiver configurable sampled values subscriber.

configurations of transmitting GOOSE publishers.



61850 ICD Editor - a tool to create and modify SCL files.

- Supports IEC 61850 Edition 1, Edition 2 and the newest Edition 2.1.
- Supports also the related standards for Wind Power, DER, Hydro.
- Supports definition of ICD file with the use of standard defined and private LNs, DOs, DAs.
- > Includes ICD file content verification.
- Allows to create prototypes of IEDs to be simulated prior to development.





Easy GUI based on file exchange between two file folders.

