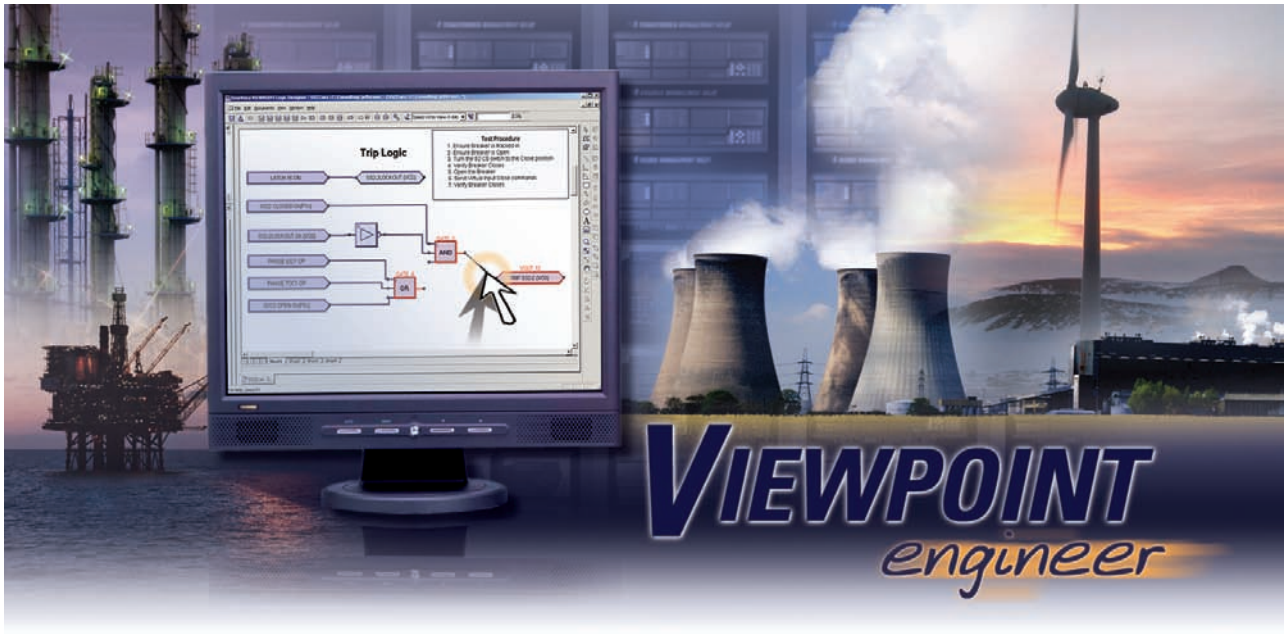


SYSTEM CONFIGURATOR AND COMMISSIONING TOOLSET

Viewpoint Engineer is a set of tools that will allow you manage, configure, and test your UR and UR^{Plus} relays at a system level in an easy to use graphical drag-and-drop environment. This software will streamline the steps required to configure devices, commission relays and manage the assets in your power system .

KEY BENEFITS

- Reduce the amount of time required to create complex logic schemes
- Configure your IEC61850 devices at a system level using a single application
- Program Remote I/O communications for multiple relays in an intuitive graphical interface
- Simplify commissioning by identifying the status of the relay logic in real-time
- Test protection relaying at a system or substation level rather than as an isolated device
- Provides a means for managing all documentation about all assets in your substation
- Decreases the number of support documents engineers require for commissioning and maintenance

KEY FEATURES

- Configure UR and UR^{Plus} relays in an intuitive Graphical environment
- Program Remote I/O relay communication settings for multiple devices in one simple step
- Evaluate the status of Flexlogic™ equations and Remote I/O messaging in real time
- Annotate UR and UR^{Plus} settings and store this documentation in the setting file
- Link support documents to the System Designer Project to create a single location for substation asset management
- Reduce integration time by automatically detecting and configuring your UR devices

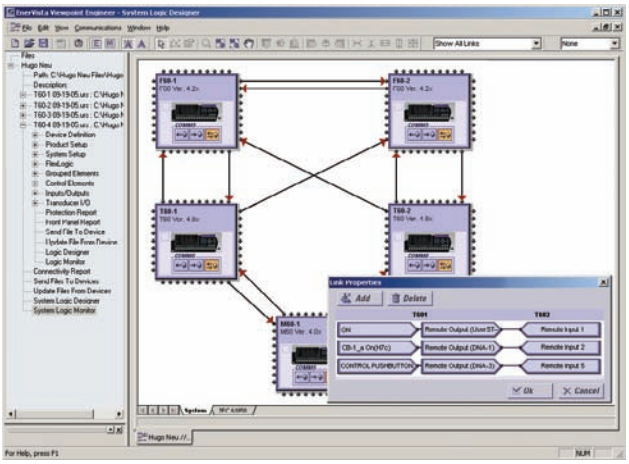
System Designer

Design Control Logic at a System or Substation Level

The System Designer allows you to inter-connect the control logic distributed across multiple UR and UR^{Plus} devices by programming Remote I/O messages in an intuitive, graphical drag-&-drop environment.

System Level Settings Configuration

- Design automation logic distributed across multiple UR and UR^{Plus} devices
- Configure Remote I/O messaging in both the Sending and Receiving devices in one simple step
- View "Virtual Wiring" communication diagrams in a manner that is similar to hard wiring schematics



Configure Remote I/O communications for multiple relays in one easy drag-&-drop step

Multiple Setting Files Created

- Configure the settings for multiple UR and UR^{Plus} devices at one time
- A separate setting file will be created for each UR device used in the System Logic Designer

Connectivity Report

The connectivity report provides a detailed report of all peer-to-peer mappings between the settings files associated with a project, including:

- IEC61850 GSSE/GOOSE and UCA2 GOOSE messaging
- Direct I/O configured between the UR relays.

The report will be generated as a PDF for simple archiving and emailing. A sparate PDF report will be generated for each UR or UR^{Plus} device

Document System Level Setting Diagrams

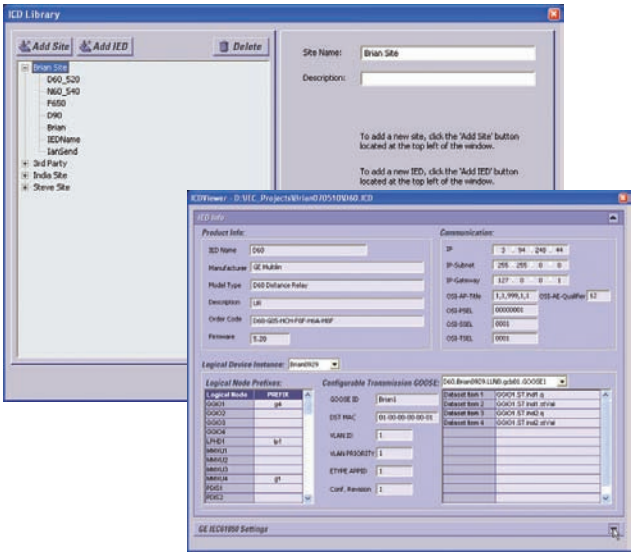
- Annotate Remote I/O System diagrams to describe Inter-Relay messaging for testing engineers
- Documentation of Remote I/O System diagram stored in a project folder for permanent archiving

Viewpoint Engineer will create a separate setting file for each UR or UR^{Plus} device that is configured in the System Designer. These setting files will contain all communication settings needed for Remote I/O communications

IEC61850 Configurator

Import ICD and Generate SCD files using a single application

The IEC61850 enables system level configuration of the communications between all IEC61850 devices.

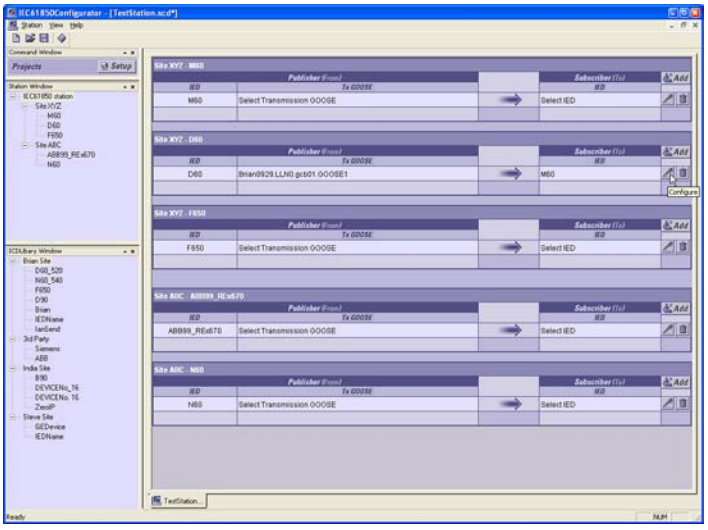


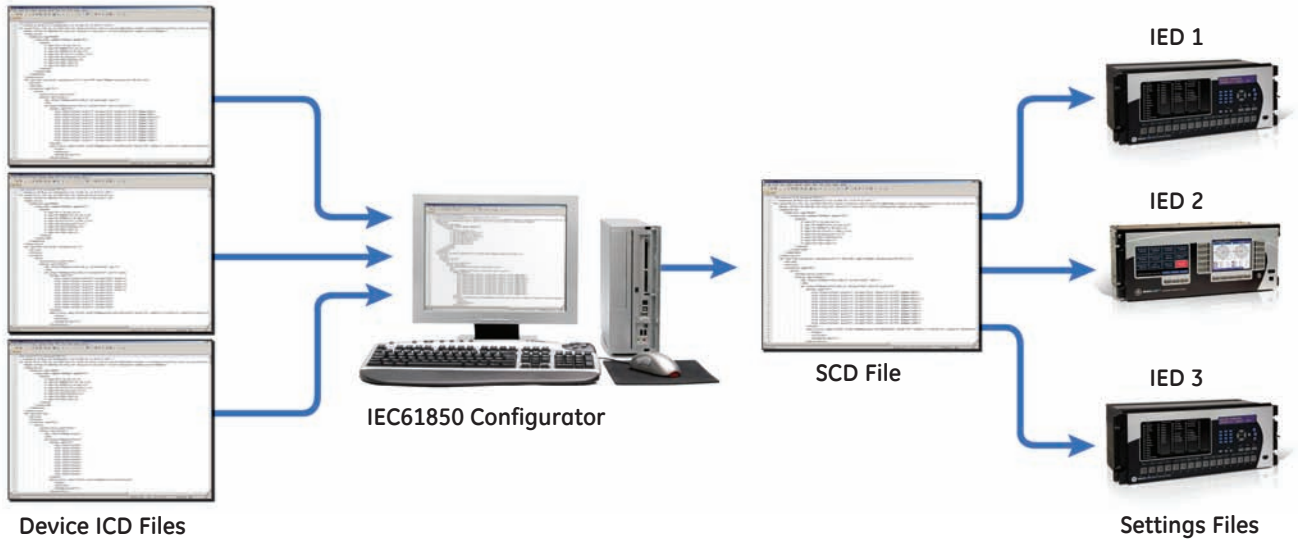
Importing ICD Files

- Import ICD files from any IEC61850 Compliant device
- Create a library of ICD files, organized by device location, device type, or project
- View file information in an easy to understand ICD viewer

Create SCD Files

- Organize files by creating projects. Project files contain all subnet communication parameters as well as the associated device ICD files
- Configure the communications between relays by having the IED's subscribe to the appropriate transmission GOOSE messages
- The saved project becomes the SCD file needed to generate the GOOSE reception settings files for the IED's in the system





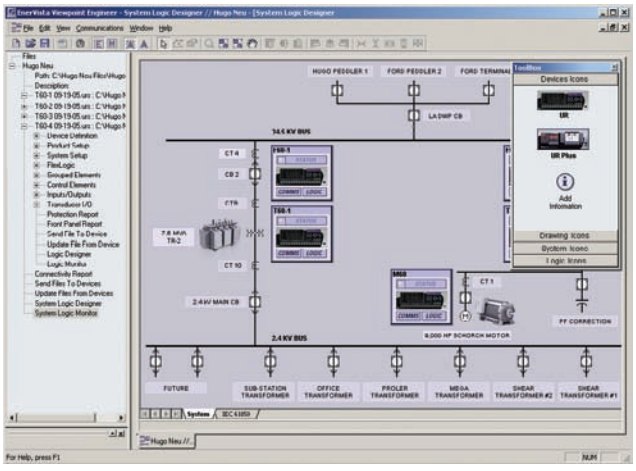
Asset Manager

Manage all Assets in Your Substation or Power System

The Asset Manager will provide you with a tool to archive and manage critical information about any asset in your substation. All information in your power system can be stored in a Project Folder that can be shared between engineers and act as a single repository for any information required for your installed equipment.

Central Link to all Critical Information

- Create a Project folder that will act as a single location to reference all information about equipment in a substation
- Create an intuitive layout and navigation interface for your project by importing existing schematics or using the drawing tools provided
- Link documents, drawings, or setting files for all substation equipment into the project for complete system asset management
- Launch directly from the Asset Manager into the System Designer or Graphical Flexlogic™ Designer for programming your devices



Create a Project that will identify, document, and archive information about all assets in your substation (relays, breakers, t ransformers etc.)

Graphical Flexlogic™ Designer

Design Flexlogic™ with Drag-&-Drop Ease

Simplify the process of creating complex control logic for substation automation in your UR and URPlus relays to perform functions such as advanced tripping, reclosing and transfer schemes.

Simplified Control Logic Creation

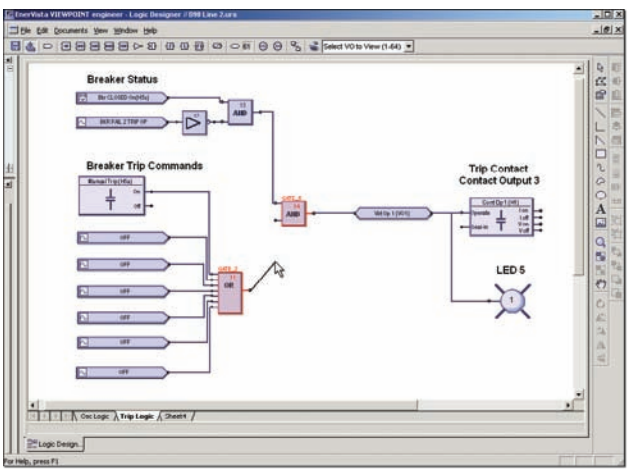
- Create FlexLogic™ with drag-and-drop ease
- Connect outputs of Flexlogic™ equations directly to contact outputs and LEDs
- Configure logic over multiple worksheets to keep logic structured and organized

Documentation of Settings

- Annotate control logic with documentation and graphics
- Store all settings documentation directly in UR and URPlus setting files

Powerful Intuitive Complier

- Optimizes Flexlogic™ equations to use as few lines as necessary
- Detects and alerts user of errors and problems in Flexlogic™ design



Design and document UR control logic in one intuitive application

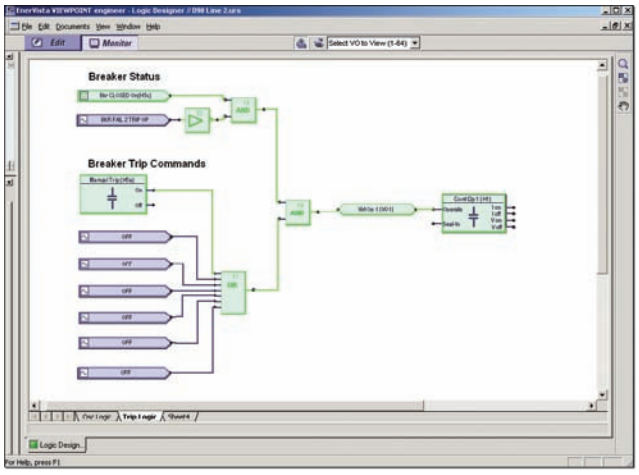
Logic Analyzer

Real-Time Feedback of Flexlogic™ Status

When connected to your UR or URPlus relays, Viewpoint Engineer will provide real-time feedback of the status of the Flexlogic™ inputs, logic gates, timers, latches and outputs for every equation in the relay.

Simplified Troubleshooting

- Follow the operation of your UR relay through each step of the Flexlogic™ equations
- Detect problems in wiring or programming by viewing the status of all inputs in one screen
- Determine which inputs are causing each logic gate to be asserted
- Identify the logic that is causing the relay to not act as expected



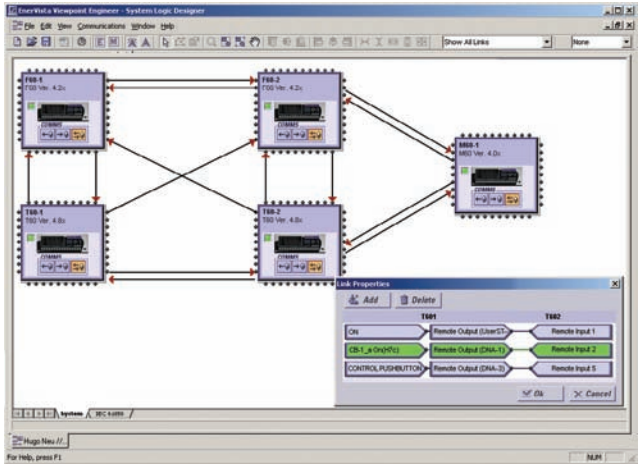
Relay internal logic represented visually to simplify commissioning and troubleshooting

Real-Time Feedback of Peer-to-Peer Message Status

Connecting Viewpoint Engineer to the local area network allows you to receive real-time feedback of the status of Remote I/O messages from both the relay sending the message and the relay receiving the Remote I/O message.

Simplified System Troubleshooting

- Determine the status of all Remote I/O messages sent to other devices in the network
- Verifies that Remote I/O signals are received and interpreted correctly by the intended devices
- Reads settings from UR and URPlus devices on the network and automatically creates a Remote I/O System Diagram
- Analyzes the settings in all UR and URPlus devices and verifies correct programming between sending and receiving devices



Analyze the status of Remote I/O messages from both the Sending and Receiving devices in Real- Time

Viewpoint Engineer Software Selection Guide

	*	*	*	
VPE				EnerVista™ Viewpoint Engineer
	1			Single License
	5			5 Pack
	10			10 Pack
	50			50 Pack
				No System Designer
		S		System Designer Option/IEC61850 Configurator
				Standard 1 Year Updates
			G1	Additional 1 Year Updates