



# SISCO COMTRADE Utility for Disturbance Analysis

Providing a Unified Enterprise View of Power System Disturbances

## At-A-Glance

### Solution Type

- › Transient Disturbance Capture
- › Power Quality
- › Condition Based Maintenance

### Regions Available

- › Global

### Industries

- › Solution primarily applied for Transmission & Distribution
- › Also applicable for Power Generation and any industry where power quality monitoring and analysis is desired.

### Features & Benefits

- › Automate event acquisition
- › Generate event notifications
- › Integrate event data with operational data
- › Relate events to assets
- › Exchange synchrophasor information with other (non-PI) systems

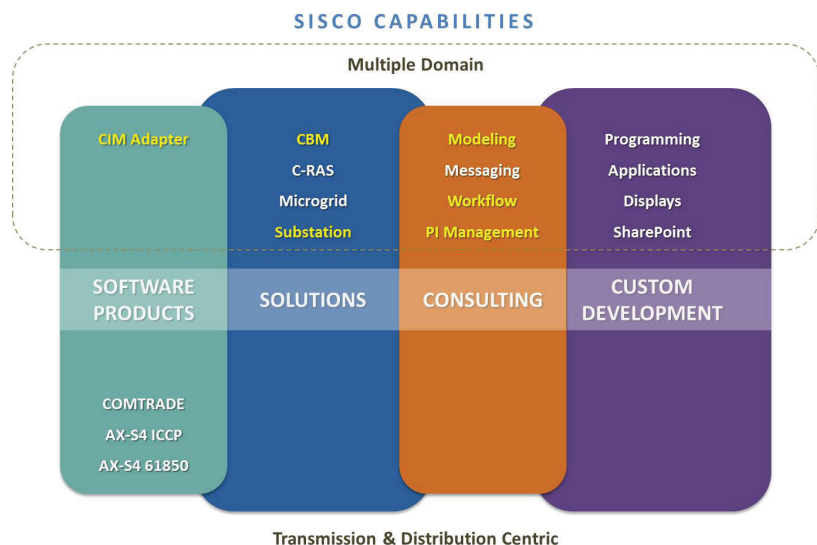
### Implementation Requirements

- › SISCO COMTRADE Utility and PI System with Asset Framework (AF), Notifications, and Event Frames.

## BUSINESS CHALLENGES

Electrical power transients and power quality issues emerge instantly and disappear as quickly. As a result, SCADA systems and operations can not capture detailed event data. Without access to this data, companies cannot respond immediately to events or understand the impact of events on assets.

The COMTRADE Utility from SISCO automatically detects the creation of transient disturbance information. It then acquires and stores this information with high fidelity in the PI System so the PI System becomes a permanent centralized repository of integrated event and operational data, giving an enterprise one “true” view of the system.



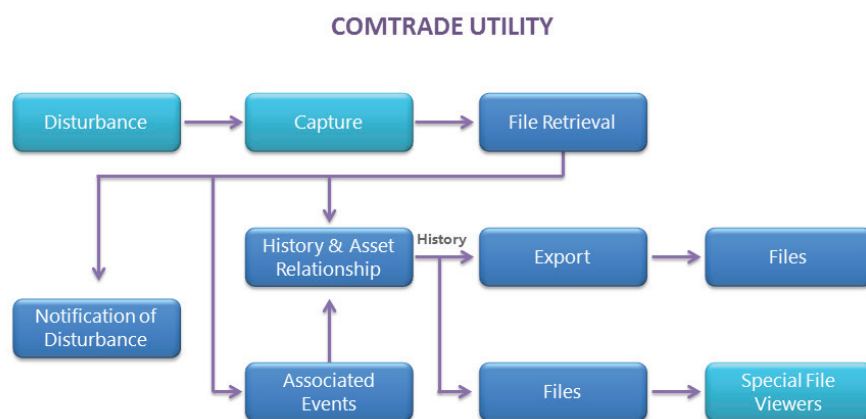
## BUSINESS IMPACTS

The SISCO COMTRADE Utility reduces the time needed to acquire disturbance information so companies can be more efficient and effective in resolving problems. Relevant business users can receive real-time notifications of events and perform immediate analysis. Within Asset Framework, disturbance data is associated to the impacted assets so event information can be utilized for CBM analysis and asset lifetime calculations.

## SOLUTION APPROACH

The SISCO COMTRADE Utility automatically acquires industry standard disturbance COMTRADE and PQDIF files from customer devices. It creates a representation of the events in the PI System's Event Frames. Event Frames are then used to create a centralized repository that archives disturbance files for a permanent record of the events for future analysis. Once the information is acquired, the COMTRADE Utility uses PI System capabilities to generate notifications for newly detected events, backfill information, and correlate the event to assets using Asset Framework (AF). The information from the files can even be used to create and populate new or existing PI Tags.

The source of disturbances can be any device or repository that supports COMTRADE or PQDIF files. These devices are typically Digital Fault Recorders (DFRs), protection relays, and meters. The detected events (i.e. Event Frames) are then automatically associated to impacted assets within AF so that events to be analyzed on an asset basis instead of disturbance source basis. By capturing event data in this context, events can be used as part of condition-based maintenance programs or asset lifetime calculations.



## ABOUT THE PARTNER ECOSPHERE

The OSIsoft Partner EcoSphere provides a collection of third-party services, applications, and technology to help customers maximize the value of the PI System.

Explore more solutions and the OSIsoft Partner EcoSphere at: [partners.osisoft.com](https://partners.osisoft.com).



## FOR MORE INFORMATION

The SISCO COMTRADE Utility provides the capability to capture, integrate, and analyze information that you need today, what you may need tomorrow, and what you don't yet know you may need in the future.

To find out more about this solution, visit [www.sisconet.com](http://www.sisconet.com) or contact [info@sisconet.com](mailto:info@sisconet.com) to schedule a demo and discussion.