



The Standards Based Integration Company



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## COMTRADE Utility for the OSIsoft™ PI System

### Description

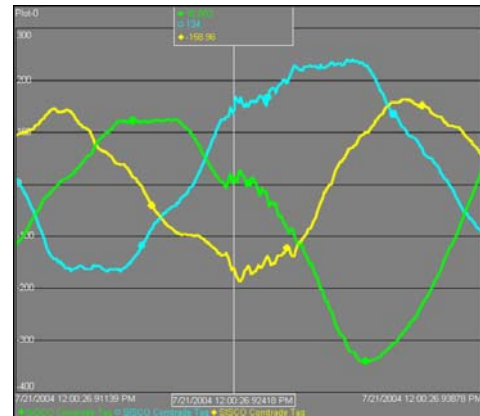
SISCO's COMTRADE Utility is now available for the PI System (PI), OSIsoft's world-leading platform for real-time performance management. The COMTRADE Utility allows digital data records from any COMTRADE file to be historized via the PI Server. The COMTRADE Utility for the PI Server will extract the data from the COMTRADE file and historize the information as an individual PI point for each channel of data or it can store the entire COMTRADE file in PI so that the original data can be reproduced for audit trail purposes.

The IEEE Common Format for Transient Data Exchange (COMTRADE) standard specifies a file format for high-speed oscillographic data on multiple data channels and is typically used to capture detailed waveform data of power system events.

Once the COMTRADE data has been historized, the information becomes available to any of the powerful data presentation and analysis functions available in the OSIsoft PI System platform. This enables the detailed event data from the COMTRADE file to be analyzed without being constrained by the COMTRADE file format.

### Benefits

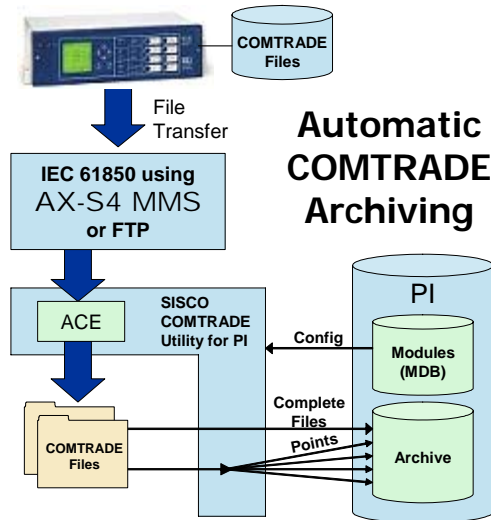
- Enables detailed power system event data from COMTRADE files to be easily historized in the PI Server for long term archiving and future analysis.
- All data is stored in the standard PI Server format allowing users to analyze and report on power system events with the powerful and flexible tools offered by OSIsoft.
- Detailed audit trail information is provided, including when the data was generated, retrieved, and archived; to help meet regulatory requirements and to more effectively evaluate historical system integrity.



High Speed COMTRADE Capture

### Features

- Implemented with ActiveX® components that are compatible with PI ProcessBook and PI Advanced Calculation Engine (ACE).
- Enables users to create their own COMTRADE applications using standard PI System tools.
- Includes an example ACE calculation that can automatically acquire and archive COMTRADE information directly from Ethernet based devices using off-the-shelf products.
- Configuration and setup is simplified using intuitive wizards that guide the user through archiving COMTRADE information.
- Configuration information is stored in the PI Module Database (PI MDB) for maximum flexibility.
- Single user and corporate licenses are available to meet the needs of both large and small organizations.



## Automatic COMTRADE Archiving

SISCO's COMTRADE Utility for PI includes a PI ACE application that can automatically retrieve COMTRADE files from Ethernet devices using either FTP or IEC 61850 via SISCO's AXS4-MMS product.

Once the COMTRADE files are on the local computer, the COMTRADE Utility for PI will extract the data from the event file and store it in the PI Server as PI tags and/or as a complete file in the PI archive so that the entire file can be retrieved intact.

The PI MDB is used to configure the PI ACE calculation with the required addressing and login information for file retrieval and for the processing of the event data into PI tags.

## COMTRADE Utility Functions

SISCO's COMTRADE Utility for the OSIsoft PI Server includes ActiveX components that provide the following functions:

- Parsing of COMTRADE 1997 based configuration files to extract the timestamps, sample rates, and tag names needed to process either ASCII or Binary COMTRADE data files.
- Creation of the Module aliases and PI tags required to archive the discrete data contained within the data files.
- Extraction of the individual data points from the COMTRADE data file and storing the data in the PI Server with accurate timestamp calculations.
- Storage of the complete COMTRADE file in the PI archive to enable recreation of the original COMTRADE data for audit trail purposes.
- Automatic acquisition of COMTRADE files from remote devices through the use of FTP or UCA/IEC 61850 protocols via AX-S4 MMS and PI ACE.
- Setup assistance wizards to guide the user in the configuration of the PI MDB.

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