

COMTRADE Utility for OSIsoft™ PI

Creating One True View

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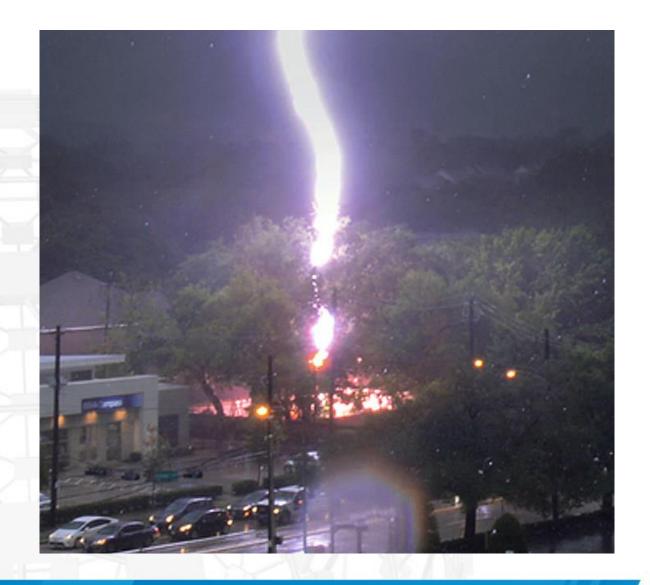
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What Is a Transient Disturbance?





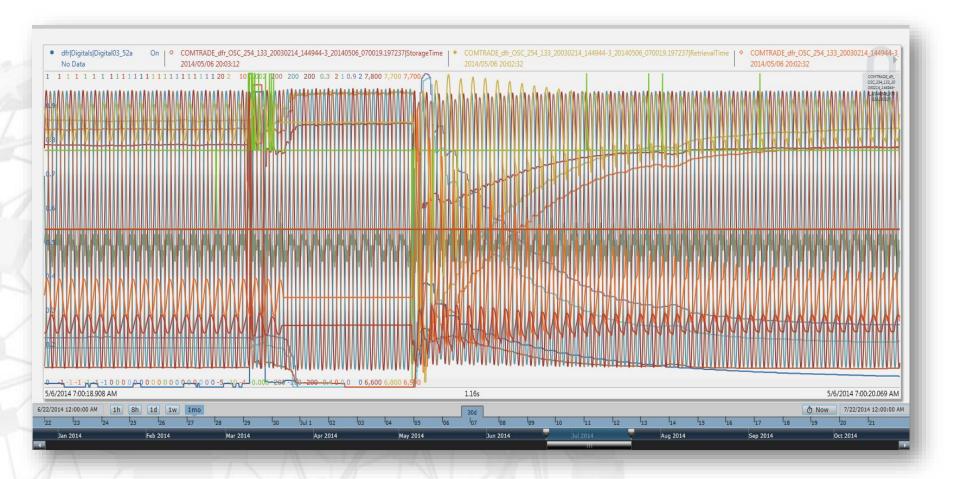
The Questions To Be Answered

- Protection Oriented:
 - » What happened?
 - » Where did it happen?
 - » Did protection operate as designed?
 - » Are changes in the design required?

- Business Oriented:
 - » What happened?
 - » Where did it happen?
 - » Did protection operate as designed?
 - » Are changes in the design required?
 - » What equipment and customers were impacted?
 - » Is this a recurring problem?

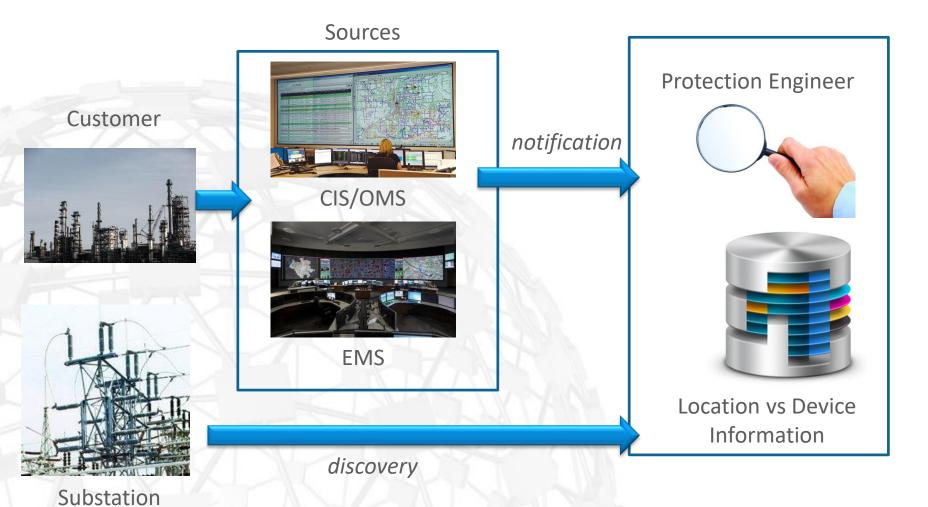


Protection Uses COMTRADE (What Happened?)





Event Location Determination





(2) – Analyze event







(3) – Correct any problems (4) – Archive



Sources of disturbance information

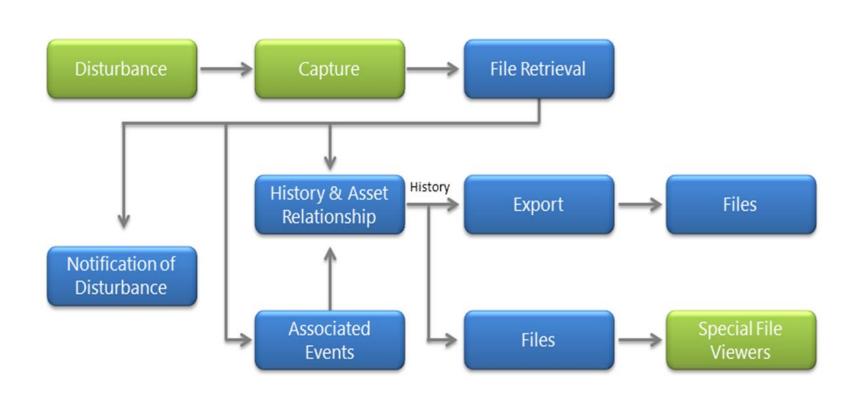
Current Process Needs Improvement

- Event notifications need automation
- Business questions not answered
 - » Were any high value assets impacted?
 - » How many events could have impacted an asset?
 - » What customers were impacted?
 - » Is this a recurring pattern?
- No single view of how the system is operating

The SISCO COMTRADE Utility for OSIsoft PI™ provides the solution



The Solution: COMTRADE Utility for OSIsoft PI™



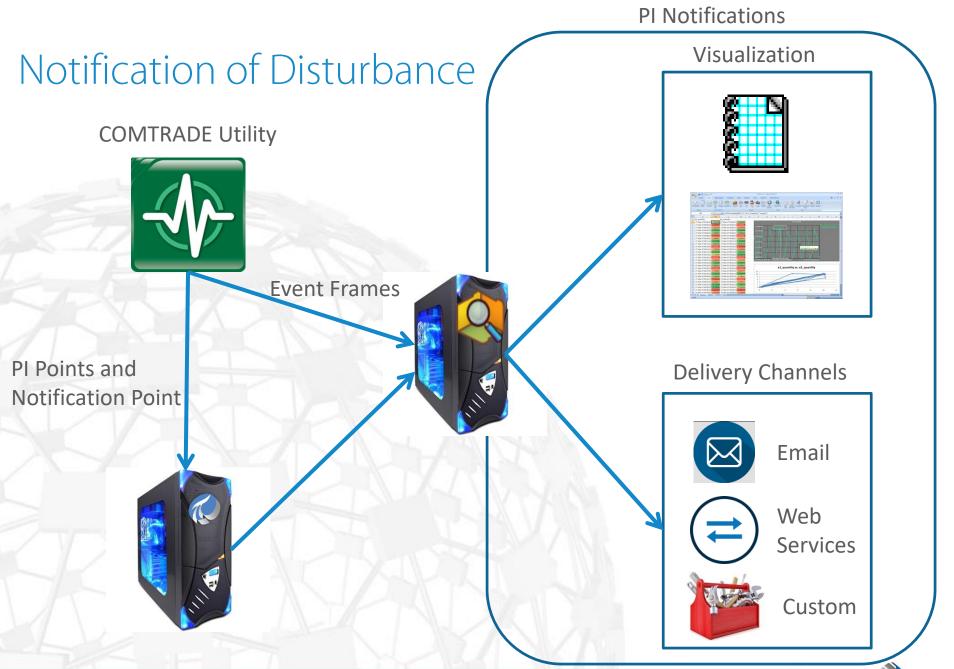


COMTRADE Utility: File Retrieval

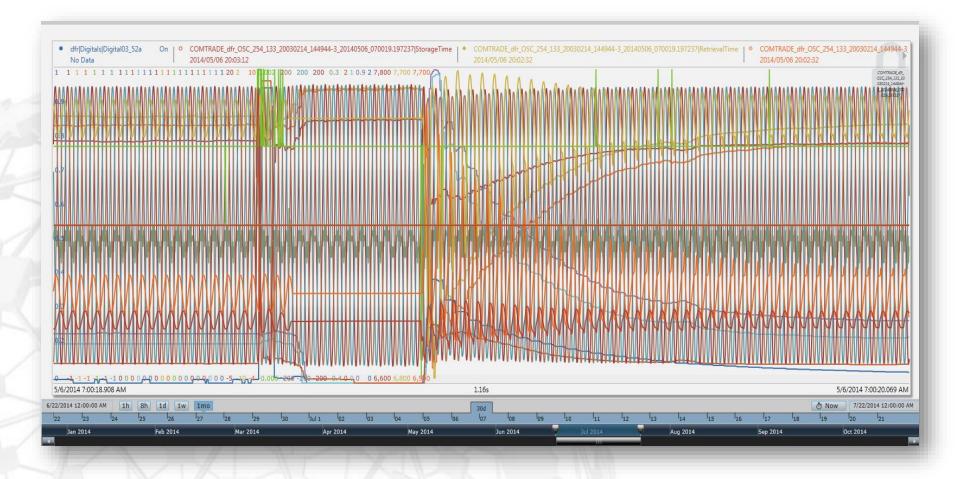
- Retrieval Methods
 - » FTP
 - » IEC 61850
 - » Local File Access

- File Formats
 - » COMTRADE
 - » COMTRADE (zipped)
 - » PQDIF (power quality)





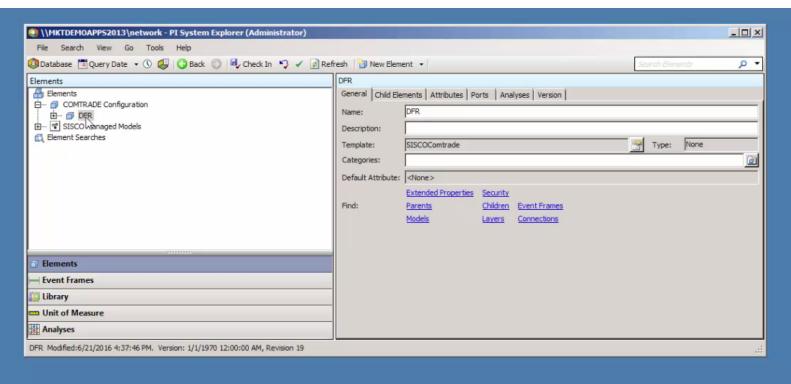
Only SISCO Enables the PI "True View"



Disturbance data and SCADA data are integrated in the same PI tags



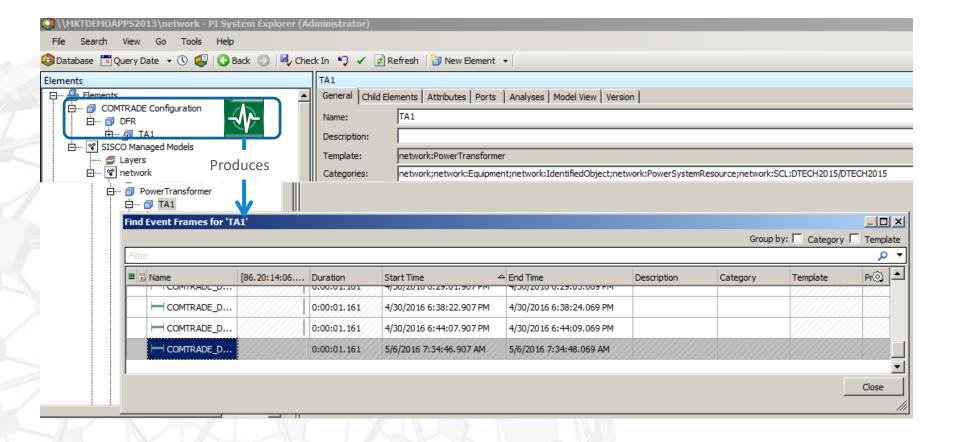
Event Frame Stores Raw Files



Allows for a central archive, post event retrieval, and post even analysis



Using for Correlation of Events to Assets





Export

The Use Case:



Able to export any PI Tag into COMTRADE format for exchange and playback



COMTRADE Utility Allows:

- One 'true view' of the system to be created
- Efficiency in locating and notification of disturbances
- A centralized repository for disturbance files
- Disturbances to be correlated with assets that could have been affected





Thank You

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