



Did You Know?

Proficy Historian:
Extract, Transfer, Load (ETL)

Introduction

Moving data between Historians is normally performed with Proficy Historian Collectors. Most Proficy Historian Collectors (all but the Calculation and File Collectors) provide a connected, streaming data transfer mechanism.

However, in applications where a consistent connection is not possible or not cost effective, periodic file-oriented data transfer is the preferred approach.

Historian ETL provides customers with a comprehensive set of file-oriented data Extraction, Transfer, and Loading tools to facilitate applications such as:

- Data transfer via radio or low bandwidth cellular connection
- Data transfer where there is no connectivity (write to and read from portable media)
- Data transfer for periodic connectivity applications (for example ships coming into port)
- Data transfer across a one-way secure connection such as a Data Diode
- Data migration of OSI Pi data to Proficy Historian
- Extract data for importing into other applications
- Importing data from other applications

Use Case Example from a Proficy Historian User



ETL Capabilities

The Historian ETL tools can be used independently or together depending on the use case.

Extract

Historian ETL provides data extraction to file applications for:

- Proficy Historian Time Series Data
- OSI PI Time Series Data
- Proficy Historian Alarm and Event data

These Extraction applications include dead band compression as well file compression (ZIP), so data transfer size is minimized.

Transfer

FTP and BITS based solutions for moving files between servers. Customers may also use their own mechanism for moving files from the source system to the destination server.

Load

An efficient ingestion service for loading data files into Proficy Historian. This service monitors an incoming file directory, unzips, and processes the files.

| Extract | Transmit | Load |
|---|--|---|
| <p>Configurable data exporter supporting:</p> <ul style="list-style-type: none">• Historian Time Series Data• Historian A&E Data• OSI PI Data <p>Exported Files are Zipped for efficient transmission</p> | <p>Configurable FTP and BITS based file movement between source and destination</p> <p>Data Diode products (such as OWL) can be used for secure one way data transmission to meet cyber requirements in Power and Water applications</p> | <p>Efficient data ingestion engine loads data files from one or many source systems</p> |



About GE

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