# How Does the Trend History Bulk Import Tool Work

The Bulk import tool acquires data in the trend history files and also in the trend archive files and converts that to **V,Q,T** (Value, Quality, Timestamp) data which is inserted directly into Wonderware Historian’s history blocks in an efficient and timely fashion. The data will appear in Wonderware Historian in exactly the same format as it does in the Trend History files.

The Bulk Import Tool will spawn an MDAS connection using Wonderware’s HCAL API. The tool does not cache, buffer or store any data locally.

The tool will create and import the Trend tags first, followed by the subsequent data across the specified import duration. **It recommended that the import tool be used for backfilling historical data before the connector is launched. In the case where the connector has been running for some time it is imperative that the Bulk import tool be used to only import trend history up until the time the connector was first started.**

**Note: Avoid importing data across overlapping periods as this can result in unpredictable behavior.**

The tool is an executable which can be launched several times if required. **Before executing the tool it is strongly recommended that the trend history files (.hst files) are copied and duplicated in a temporary location as this will ensure that all data will be copied without the risk of one or more trend files being locked by the running SCADA system.**

**Trend Server**

**Wonderware Historian**

**HCAL API**

**Trend History Files (.hst files)**

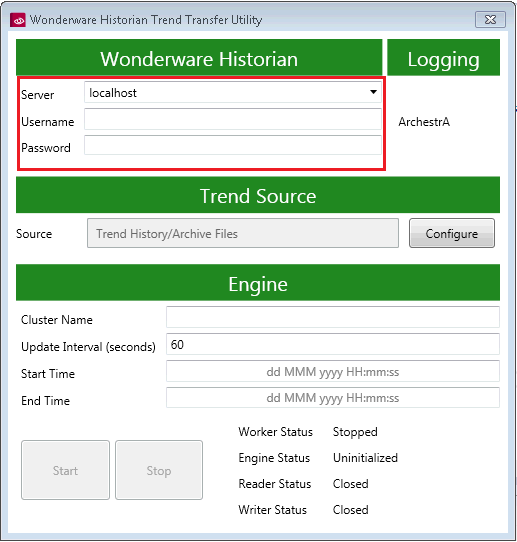
**History Blocks**

**Trend Bulk Import Tool**

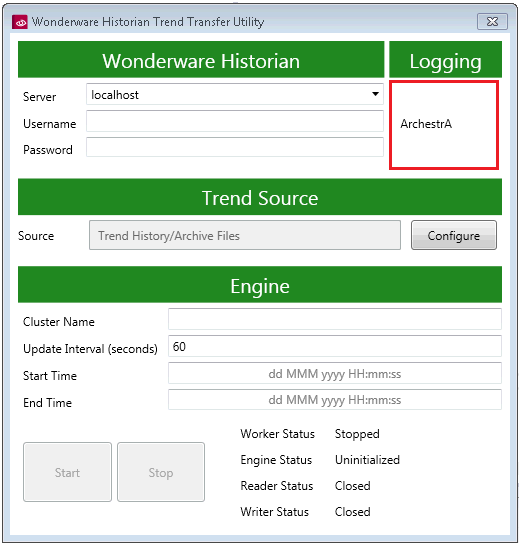
**Figure 1: High Level System Topology**

# Configuring the Trend History Bulk Import Tool

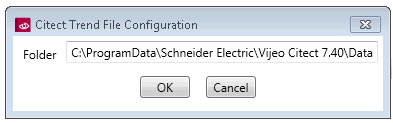
1. In the ‘Wonderware Historian’ pane enter the Wonderware Historian host name or IP address, followed by the Wonderware Historian username and password.



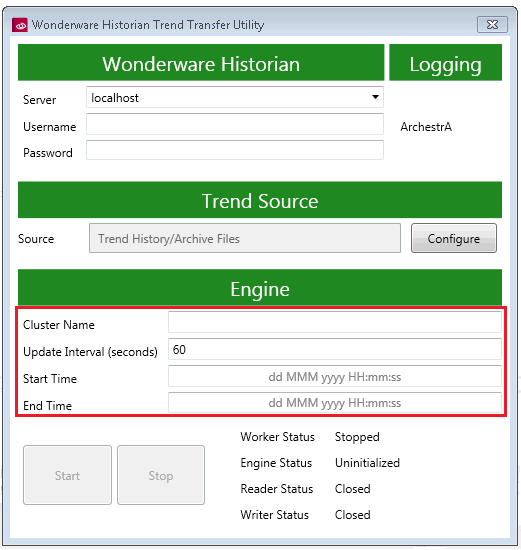
1. In the ‘Logging’ pane the ‘Archestra’ is displayed which indicates that all logging information for this tool will be captured in the log viewer of Wonderware’s SMC console.



1. In the ‘Trend Source’ pane, hitting the ‘Configure’ button will launch the ‘Citect Trend File Configuration’ window.



1. In the ‘Folder’ text field enter the path where the Trend history files or trend archive files reside. Click the ‘OK’ button.



In the ‘Engine’ pane the user can enter parameters which will configure the desired trend history backfill duration along with the user specified data acquisition rate.

1. In the ‘Cluster Name’ filter field specify the Vijeo Citect Cluster in which to import the corresponding trend history from. **Please note that you can only import one cluster at a time. Trends from every cluster must be in separate folders as the tool will not distinguish between multiple clusters. In the case where the system contains multiple clusters, the tool should be re-executed entering a different cluster and pointing to the corresponding directory.**
2. The ‘Update Interval (seconds)’ field specifies the request period for trend data migration.
3. In the ‘Start Time’ and ‘End Time’ fields enter the desired period to backfill from and to.
4. The ‘Start’ buton will initiate the trend importing process and conversely, the ‘Stop’ button will cease the trend history data acquisition.