SAF_ImportService.config

Resides in directory with SAF_ImportService.exe. Any changes to the configuration requires the service to be restarted.

- FileDependency When set to True this requires the collector to process files one at a time. It implies that there is some dependency between the files. Default value is False and should only be set to True in unique situations.
- Interval Frequency, in number of seconds, files are processed. Default value is 10.
- InputDirectory Directory location that the service will monitor for files being placed. Multiple directories may be defined if there is data being imported from multiple sources with different file formats.
- NumberOfTasks Controls the number of tasks utilized when FileDependency is set to False. Default value is 12.

SAF_Import.config

Required for each directory being monitored and must reside in each directory. Any changes to the configuration requires the service to be restarted.

- AllowInsertedData Determines if SAF will insert out of order data or if data must be received in chronological order. Default value is true.
- AutoCreateDataSet Determines if SAF would create a dataset in the Historian if the dataset doesn't currently exist. Default value is true.
- AutoWriteNoData Determines if SAF will insert a no data quality for each tag when a session disconnects. Default value is false.
- BranchOffset Column position to be used as a branch name while building a tag name.
- BranchPosition Row/Column offset of the name to be used as a branch name while building a tag name.
- DataSet Name of dataset to route data to in the Historian. DataSet or DataSetOffset are required if dataset not encoded in tag name being imported.
- DataSetOffset Column position to be used as the dataset name while building a tag name.
 - DataSet or DataSetOffset are required if the dataset name is not encoded in the tag name being imported.
- DataTypeOffset Column position to be used if the data type is included with the value.
- DateFormat Format of date being imported if a non-standard format is used that .Net can't convert automatically.
- DateOffset Column position to be used for the date. Can be used in conjunction with the TimeOffset parameter if date and time are located in separate columns. Otherwise the TimeStampOffset parameter would be used when date and time are combined in a column.
- DateTimeFormat Format of datetime being imported if a non-standard format is used that .Net can't convert automatically.
- DefaultIntervalOffset Default interval between each row for file formats that are interval-based but don't specify the interval as a column on each row. The time between each sample is assumed to be consistent.
- EngUnitReplace (Used in conjunction with TagNameMatch) Allows the user to define which capture group to use as the Eng Units property.
- FileDate Allows the user to define the date of the hdb file within the historian.
- HeaderCount Number of rows to skip when reading a file to either get to the beginning of the data for row-based processing or to the record layout for table-based processing.
- Historian Name of Historian to route data to. Default value is localhost.
- InputDelimiter Character used to parse each line of data. Use the word "tab" to indicate a tab delimiter. Default value is ","
- IntervalOffset For file formats that are interval-based, column position of the interval or delta between each row
- IntervalOffsetUnits The units (seconds or minutes) that are used for the interval between each row.

- KeepProcessedFiles Determines if files are moved to another directory or deleted when processing is complete.
- NoDataValues A comma separated list of specific values that will instruct SAF to insert a no data quality for a particular TVQ.
- PostProcessRegex (Used in conjunction with TagNameMatch) Determines if the TagNameMatch regular
 expression will be run against the tag name before or after the dataset and branch have been prepended.
- ProcessedDirectory Directory to copy files to when processing is complete if the KeepProcessedFiles is set to true.
- PropertyNames –Define a comma separated list of tag property names to correspond to the list of PropertyOffsets.
- PropertyOffsets –Define a comma separated list of column offsets for tag property values. Each entry may contain a range such as 2-10.
- QualityOffset Column position to be used for the quality.
- StartDatePosition For file formats that are interval-based this gives the user an initial date to use to calculate the timestamp of each value.
- StartTimePosition For file formats that are interval-based this gives the user an initial time to use to calculate the timestamp of each value.
- SubHeaderCount –The number of rows between the header and the actual data in the file.
- TagNameMatch (Used in conjunction with TagNameReplace) Allows the user to define a regular expression in order to parse column headers.
- TagNameOffset Column position to be used as a tag name.
- TagNameReplace (Used in conjunction with TagNameMatch) Allows the user to define which capture group to use as the tagname.
- TagOffsets Used in table-based processing to define a comma separated list of column offsets for tag names. Each entry may contain a range such as 2-10 or may be encoded as 2-* for files with varying number of columns.
- TimeFormat Format of time being imported if a non-standard format is used that .Net can't convert automatically.
- TimeOffset Column position to be used for the time. Can be used in conjunction with the DateOffset parameter if date and time are located in separate columns. Otherwise the TimeStampOffset parameter would be used when date and time are combined in a column.
- TimeStampOffset Column position to be used for the date and time. Can be used if date and time are located in the same column. Otherwise, the DateOffset and TimeOffset parameters would be used when date and time are in separate columns.
- UseFileNameAsBranch The file name without extension that will be used to name a branch in the historian.
- UseSystemCultureForValueParsing This is a Boolean value that tells us to use the machine's culture
 instead of the invariant culture.

- UTCTimestamp Determines if the datetime provided is in UTC or a local time format. Default value is False.
- ValueOffset Column position to be used for the value.
- UnixTimestampOffset Column position to be used for the date and time that is held in a Unix timestamp format. It can be a 10 digit(unix epoc). 13 digit (unix epoc + millisecond), 16 digit (unix epoc + microsecond), or 19 digit (unix epoc + nanosecond). Note that nanoseconds are rounded to the nearest microsecond.

Sample Config

```
<Settings>
       <InputDelimiter>,</InputDelimiter>
       <HeaderCount>1</HeaderCount>
       <Historian>OSCAR</Historian>
       <DataSet>ImportSample</DataSet>
       <TagNameOffset>0</TagNameOffset>
       <ValueOffset>2</ValueOffset>
       <TimestampOffset>1</TimestampOffset>
       <QualityOffset>4</QualityOffset>
       <DataTypeOffset>3</DataTypeOffset>
       <NoDataValues>#VALUE!, </NoDataValues>
       <KeepProcessedFiles>True</KeepProcessedFiles>
       <ProcessedDirectory>C:\SAF Import\Completed</ProcessedDirectory>
       <AutoCreateDataSet>True</AutoCreateDataSet>
       <AllowInsertedData>True</AllowInsertedData>
</Settings>
```