

Canary SAF Import Service Configuration

SAF_ImportService.config – resides in directory with SAF_ImportService.exe. Any changes to the configuration requires the service to be restarted.

- 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.

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.

- InputDelimiter – Character used to parse each line of data. Default value is “,”
- 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.
- SubHeaderCount – the number of rows between the header and the actual data in the file.
- Historian – Name of Historian to route data to. Default value is localhost.
- 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 datasetname is not encoded in the tag name being imported.
- 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.
- UseFileNameAsBranch – the file name without extension that will be used to name a branch in the historian.
- 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.
- TagNameOffset - Column position to be used as a tag name.

- TagNameMatch – (Used in conjunction with TagNameReplace) Allows the user to define a regular expression in order to parse column headers.
- TagNameReplace – (Used in conjunction with TagNameMatch) Allows the user to define which capture group to use as the tagname.
- ValueOffset – Column position to be for the value.
- 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.
- DateFormat – Format of date 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.
- TimeFormat - Format of time being imported if a non-standard format is used that .Net can't convert automatically.
- 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.
- DateTimeFormat - Format of datetime being imported if a non-standard format is used that .Net can't convert automatically.
- FileDate – Allows the user to define the date of the hdb file within the historian.
- StartDatePosition – For file formats that are interval-based this gives the user an initial datetime to use to calculate the timestamp of each value.
- IntervalOffset – For file formats that are interval-based this gives the user the delta between each row
- IntervalOffsetUnits – The units that are used for the interval between each row
- QualityOffset - Column position to be used for the quality.
- DataTypeOffset - Column position to be used if the data type is included with the value.

- KeepProcessedFiles – Determines if files are copied to another directory or deleted when processing is complete.
- ProcessedDirectory – Directory to copy files to when processing is complete if the KeepProcessedFiles is set to true.
- AutoCreateDataSet – Determines if SAF would create a dataset in the Historian if the dataset doesn't currently exist. Default value is true.
- AllowInsertedData – Determines if SAF will insert out of order data or if data must be received in chronological order. 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.
- NoDataValues – A comma separated list that will cause SAF to insert a no data quality for a particular TVQ if the value supplied in the file matches one of the values in the list.
- UseSystemCultureForValueParsing – This is a Boolean value that tells us to use the machine's culture instead of the invariant culture.

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>

```