Hyper Historian Express
Differences Between Hyper Historian and TWX64

APPLICATION NOTE

October 2015

Description: Introduction to Hyper Historian Express, and a guide its differences from TrendWorX64 Logger and Hyper Historian standalone.
General Requirement: General understanding of logging data and databases.

Introduction

Hyper Historian Express is the new data historian included in the ICONICS GENESIS64 and MobileHMI installations as a replacement for the TrendWorX64 Logger. This allows the leveraging of the Hyper Historian engine for high performance data logging whilst offering an easy upgrade path to full Hyper Historian. The ICONICS AnalytiX installation provides an install of the full version of Hyper Historian.

For more information on how to configure and use Hyper Historian Express, please see the *Hyper Historian – Quick Start* Application Note.

Differences from TrendWorX64 Logger

Hyper Historian Express has the following features that TrendWorX64 Logger does not have:

- MergeWorX support for importing data
- Can provide Snapshot logs in a Hyper to Hyper setup
    - Requires full Hyper Historian to utilize
- High Performance Logging
- Binary File Format
    - Instead of SQL Database Logging
- Archiving Support (Reattach archived files)

This allows flexibility to start using Hyper Historian Express initially, upgrading to full Hyper Historian at a later date if required.

Differences between Hyper Historian Express and Hyper Historian

Hyper Historian Express utilizes the Hyper Historian engine for data logging, however there are some restrictions on the additional functionality provided by full Hyper Historian. The following are unsupported options which will not be shown or will be disabled in the Hyper Historian configurator in Workbench for Desktop.

Hyper Historian Express does not support:

- Redundancy
- Hyper to Hyper Support
- Performance Calculations
- Aggregate Types (Pre-defined)
- Swinging Door Filtering on incoming data
- Standalone Installation and Licensing
- Remote Collectors
- Azure Cloud Installation/Collector
- Input Expressions

Licensing Differences between Hyper Historian Express and Hyper Historian

Hyper Historian Express utilizes a different license model to Hyper Historian, wherein any tags logged are counted as GENESIS64 tags, and not Hyper Historian tags. Hyper Historian Express has a limit on the number of tags that it will allow to be logged, regardless of the size of the purchased GENESIS64 tag count. This limit is 5000 tags, the full Hyper Historian installation is limited only on the purchased license size.

The Hyper Historian provider will need to be configured to utilize the correct license model for the license installed on the machine.

For example, on a machine with Hyper Historian Express installed and a license which has Hyper Historian Standard enabled, the Hyper Historian Express will run in Demo Mode. The same situation will occur in the inverted scenario.

When installing your system, it is recommended to setup the License Model option before doing any further configuration to avoid unnecessary confusion.

Upgrading to Hyper Historian from Hyper Historian Express

To upgrade from Hyper Historian Express, take the following steps:

1. Change the Hyper Historian Express license to a Hyper Historian Standard or Enterprise license.
    a. Optionally instead it is possible to add a Hyper Historian Standard or Enterprise license onto the existing license.
2. Run the Hyper Historian installation from the Hyper Historian DVD.
3. Once that installation is complete, the same configuration database that was used by the Hyper Historian Express will continue to function.

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