



Did You Know?

Proficy Historian:

Significant Architectural Improvements

(Version 9.0 and later)



Significant Architectural Changes

There are several significant architectural changes, starting in Proficy Historian 9.0, that enhance usability, configurability and maintainability.

Collector Installation, Configuration, and Management

GE Digital has dramatically improved collector installation, configuration, and management. The changes include:

- Significant simplification of the collector installation process
- Deployment of a new agent (Remote Collector Manager) on each server when collectors are installed
- New HTML5 based configuration and management application
- Ability to remotely create one or more instances of any collector via this new configuration application
- Ability to perform collector actions (e.g. start/stop, delete buffer files...) from this application
- Collectors now support compression over the wire which is useful for low bandwidth or metered connections by reducing bytes over the network by ~80%.

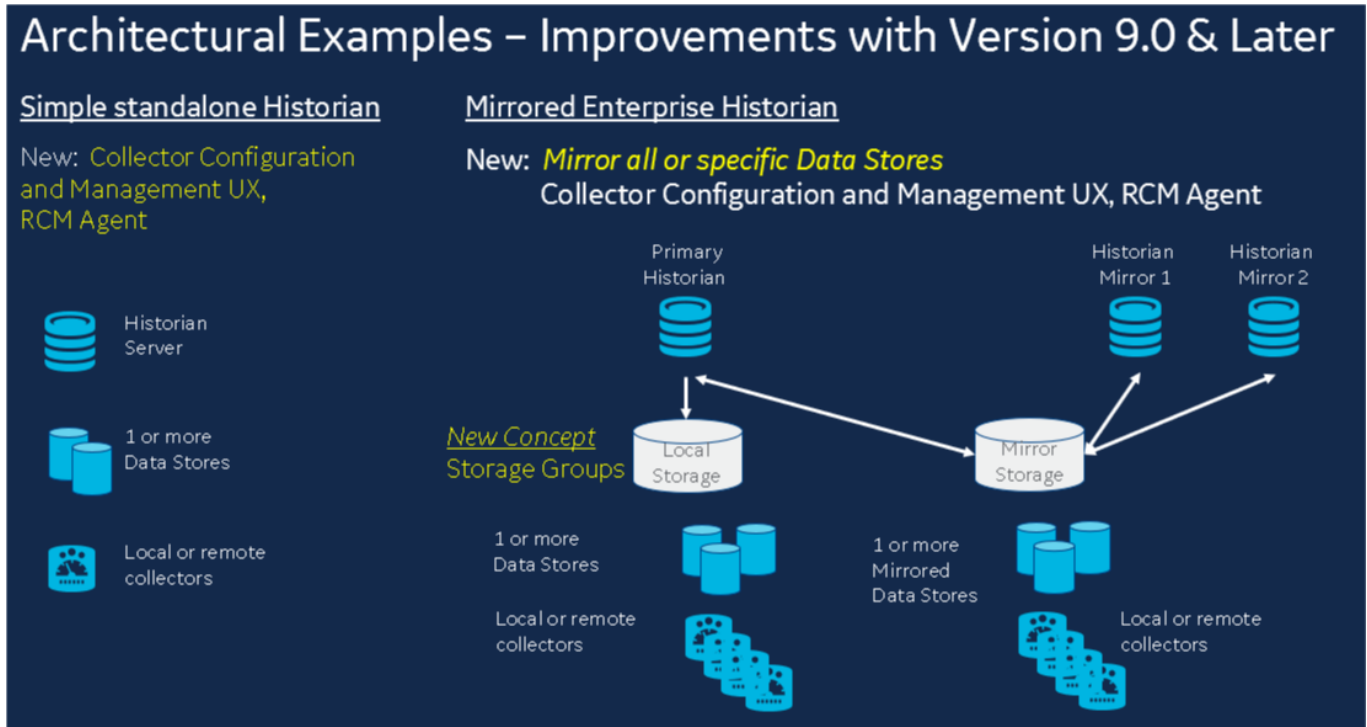
The screenshot displays the Proficy Historian Collector Management interface. The main window shows a list of collectors with columns for Collector Name, Status, Data Collection, Machine, Version, Report Rate, Overruns, Compression, and Out of Order. A context menu is open over Collector 15, showing actions like Start, Stop, Restart, Pause Data Collection, Resume Data Collection, Clear Buffer, Move Buffer, Change Destination Server, and Restart needed.

COLLECTOR NAME	STATUS	DATA COLLECTION	MACHINE	VERSION	REPORT RATE	OVERRUNS	COMPRESSION	OUT OF ORDER
Collector 1	Running	On	G78856AS	V 5.0	0	0	5%	5%
Collector A	Stopped	Paused	G78856AS	V 5.3	0	0	2%	2%
Collector B	Stopped	Paused	G78856AS	V 5.3	2	0	0%	0%
Collector 2	Running	On	G78856AS	V 5.0	5	0	0%	0%

Enterprise Historian

Enterprise Historian now supports horizontal scalability, effectively providing users with the ability to distribute data collection and storage across any number of servers in a way that is transparent to client applications. The following architectural changes support this new capability:

- New concept, Storage locations, has been introduced. Local Storage Locations are configured on a server and house Data Stores.
- Mirror Storage locations represent data storage configured on two or more servers on which data is replicated.

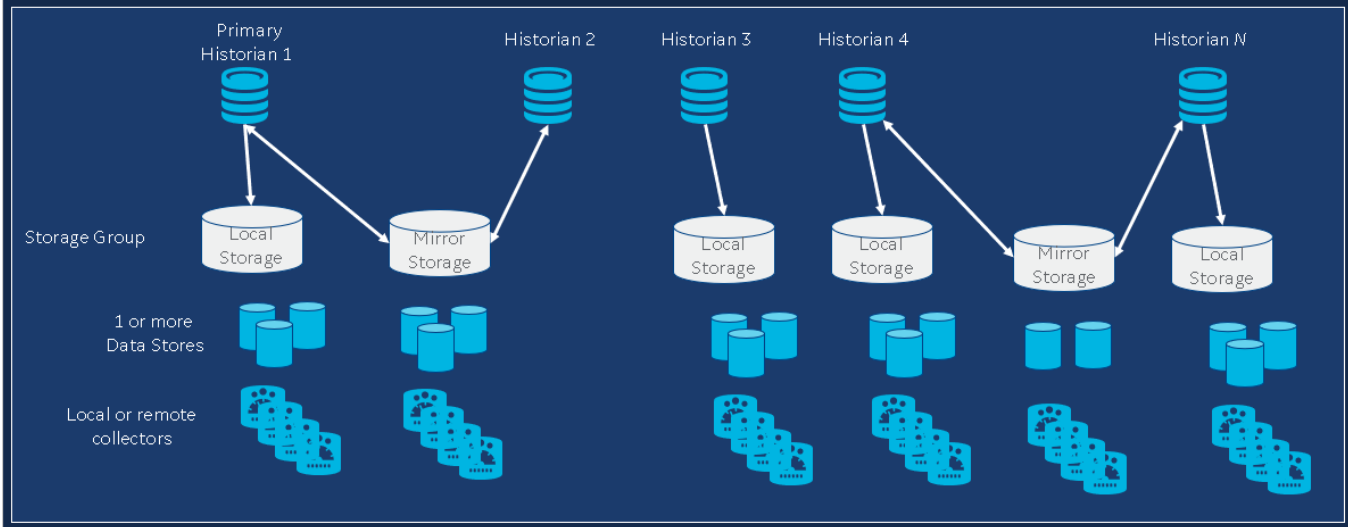


- Concept of a Historian System, composed of multiple Historian servers has been introduced
- Within a Historian System, one server must be installed using the Primary server option. This is the server which will act as the coordination point in a multi-server system. All other servers must be installed using the Mirror/Distributed node option.
- The HTML5 based application used for collector configuration includes the ability to create Historian Systems and configure Storage locations and Mirror Storage locations.

New Horizontal Scalability: Distributed Server Architecture

New: *Multiple Historian Servers – Transparent to a client application querying for data*

A Distributed Historian System



New Configuration Tools

New configuration tools are HTML5 based, requiring the installation of Historian Web Components on the server where the configuration application will be run. This can be a server on which Proficy Historian is installed, or a separate server.

GE Digital's iFIX version 6.5 includes a new HTML5-based configuration tool, which shares a common container with the new Proficy Historian configuration tools. If iFIX 6.5 is already installed, you can add the Historian configuration plug-in to the node running the iFIX application.

Note: Proficy Historian uses UAA for authentication of its web apps. This means the Historian UAA option must be installed. This is different from iFIX, which does not yet support UAA-based authentication. It is possible to install the Historian plug in on an iFIX server and point to UAA running on a different server, which might be the Historian server.

OPC UA Server

Proficy Historian 9.0 provides an optionally installed OPC UA server. This application may be installed on a Proficy Historian server or a separate machine. The Historian OPC UA server responds to OPC UA HDA and DA requests from OPC UA clients. OPC UA HDA requests return the requested tag values over the requested time period.



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