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## LiveData Historian

LiveData Historian archives real-time data, easily, efficiently, and securely. Designed as a LiveData RTI Server application, LiveData Historian enables decision makers and analysts to recreate and diagnose any event precisely, to analyze cumulative data patterns, and to improve forecasts. It offers an affordable, open-systems solution, enabling any organization to receive and record data simultaneously.

Data flows are dynamic and continuous. Organizations need to know both past and present data, what was where, when. LiveData Historian captures the instant-by-instant condition of large, widely-distributed networks of real-time data points, and stores that information for effortless retrieval.

A point-and-click user interface makes it easy to select the data elements to archive, and to specify time resolution and duration. Time series resolution can be exceptionally fine (less than 1 millisecond). High-performance software supports simultaneous archiving of tens, thousands, or even hundreds of thousands of points.

LiveData Historian makes it easy for users to access, analyze, and act upon historical data, utilizing the user's choice of applications. LiveData Historian is the comprehensive solution for securing, sorting, and filing continuous data from multiple sources.

### Features of LiveData Historian

**Exceptional data acquisition.** LiveData Historian can filter data from limitless sources, manipulating data flows in real time. Historian takes full advantage of LiveData's core data acquisition and virtualization capabilities provided by the LiveData Real-Time Integration (RTI) Server.

**Graphical user interface.** Setup of archives is quick and easy, with the point-and-click selection of data elements, frequency of data capture, and duration of archival period.

**Efficient time-series aggregation and archiving.** LiveData Historian addresses efficiency requirements posed by continuously flowing data. Data managers can vary archival parameters, selecting time resolution as fine as 1 millisecond or less. Minimize disk storage by storing only data values that change. Folder tree structure can spread across multiple disks. Data points from a given duration can be stored in a single file.

**Interoperates with LiveData Dashboard.** The LiveData Dashboard enables LiveData Historian to display historical data graphically and in tabular form. It incorporates results from third-party or custom Business Intelligence applications used to assess historical data.

**Standards-based data access.** LiveData Historian supports standard SQL access and portal-based querying. An ODBC driver and SOAP interface enable programmatic access by any third-party application. SQL extensions support specification of time-series parameters, including start time, stop time, interval, standard and customized aggregation functions.

**Standards-based data storage structure.** LiveData Historian utilizes the open, standard file format adopted by the U.S. government at the National Center for Supercomputing, HDF5. LiveData's data storage structure is readily understandable by third-party applications.

**Efficient data storage, high availability.** Advanced data compression techniques support affordable storage solutions utilizing RAID, SAN, and NAS. High availability solutions can be configured with the storage solution of choice.

**Flexible scalability.** LiveData Historian will scale to support networks of more than 100,000 active points – enabling new, sensor-based applications not feasible in the past.

**Data security features include a cryptographic seal option.** Provides verifiability that data has not been tampered with or changed.

## Requirements

LiveData Historian requires the LiveData RTI Server running on Microsoft Windows 2000, XP, 2003 or Linux. Industry standard PC hardware is supported; processor speed and memory requirements vary with data archival requirements.

## About LiveData

LiveData, Inc. is the leading innovator of smart integration technology, addressing the real-time data, application, and process integration needs of mission-critical operations. LiveData solutions continuously monitor, synthesize, and respond to highly complex, multi-faceted processes, spanning hundreds to tens of thousands of devices, diverse protocols, systems, and databases. Customers include Fortune 1000 energy companies and utilities, manufacturers, leading health care institutions, and state and local governments. Founded in 1991 and headquartered in Cambridge, Massachusetts, LiveData is privately held.