DELTAV™

Advanced Continuous Historian

Frequently Asked Questions

OSIsoft Technology

Integrated Configuration

Scalable

History Recovery

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1. Introduction

1.1. Terminology

This white paper answers questions about the integration of an OSIsoft PI Server with the DeltaV Distributed Control System (DCS). In this document, the following terminology is used.

PI Server: the real-time data collection, archiving, and distribution engine that powers the PI System™; sold and supported by OSIsoft.

Embedded Enterprise Historian: a PI Server installed on a DeltaV Application Station and configured for use as a DeltaV DCS historian.

Integrated Enterprise Historian: a PI Server installed on a non-DeltaV PC and configured for use as a DeltaV DCS historian.

Enterprise Historian: this term is used when the question or answer is applicable to either the Embedded and Integrated Enterprise Historians.

Site PI Server: a PI Server installed on a non-DeltaV PC, at a network level above the control system, used to collect data from multiple and various data sources and distribute this data to process engineers and business users; sold and supported by OSIsoft. It is not configured for use as a DeltaV historian.

Legacy Historian: the real-time process data system historian on all new DeltaV systems from v3.3 through v7.3, which was based on PI Server technology. It was possible to keep the Legacy Historian on the Application Station during DeltaV system upgrades up to and including DeltaV v11.3.1.

DeltaV Continuous Historian: the real-time process data system historian on all new DeltaV systems from v7.4 to the present, developed by Emerson and installed on every DeltaV workstation.

Advanced Continuous Historian: a real-time process data system historian powered by OSIsoft technology, available as an optional historian on DeltaV Application Stations in DeltaV v12.3.1 and later versions.

1.2. What is the Advanced Continuous Historian?

The Advanced Continuous Historian is a new process historian option in the DeltaV system available on a DeltaV Application Station with DeltaV v12.3.1 and later releases. The Advanced Continuous Historian is powered by OSIsoft technology and is available for existing DeltaV systems that are upgrading to DeltaV v12.3.1 and for new DeltaV systems starting with DeltaV v12.3.1 or later releases.

1.3. Why was the Advanced Continuous Historian developed?

This product addresses the needs of customers that integrate their DeltaV historian into an Enterprise PI system and require both DeltaV and OSIsoft clients to do trending and data analytics. The Advanced Continuous Historian has an easy, robust connection to the Site PI Server using a Pi-to-Pi interface. Also, it provides connectivity to some of DeltaV's and OSIsoft's most popular visualization clients; details on client connectivity are covered later in this document.

1.4. Who developed the Advanced Continuous Historian?

The Advanced Continuous Historian is based on technology developed by OSIsoft. The integration of the Advanced Continuous Historian with the DeltaV system was a joint development effort between Emerson Automation Solutions (Emerson) and OSIsoft.

1.5. How do I get an Advanced Continuous Historian?

The Advanced Continuous Historian is a standard DeltaV product, sold and supported by Emerson. The Advanced Continuous Historian software is provided on the DeltaV system installation media.

1.6. Does the Advanced Continuous Historian replace the DeltaV Continuous Historian?

No, the DeltaV Continuous Historian remains the preferred continuous historian platform in the DeltaV system and will continue to be installed on each DeltaV workstation. The Advanced Continuous Historian is an option, which may be used in place of the DeltaV Continuous Historian on a DeltaV Application Station.

1.7. Does the Advanced Continuous Historian replace the Legacy Historian?

Any of the Emerson historians can replace the Legacy Historian. The DeltaV Continuous Historian is the most cost-effective replacement. The Advanced Continuous Historian is a more functional replacement for the Legacy Historian and is intended to provide a Legacy Historian migration option for the Legacy Historian customers that wish to continue using OSIsoft technology with their DeltaV system. The Enterprise Historian can also be used as a replacement if a fully-featured PI server is required. Note the Legacy Historian is only supported for use in the DeltaV system up to and including DeltaV v11.3.1.

1.8. How is the Advanced Continuous Historian different from a Site PI Server?

The Advanced Continuous Historian is powered by OSIsoft technology and is a fully functional, dedicated, continuous historian for a single DeltaV system. The Advanced Continuous Historian does not provide Enterprise Historian functionality like a Site PI Server, such as complete OSIsoft client connectivity. However, the Advanced Continuous Historian will provide seamless connectivity and data transfer to a Site PI Server using the Pi-to-Pi interface for those systems that require Enterprise Historian functionality.

1.9. Can I still use a PI Server with my DeltaV system?

Yes, there are several options available for using a PI Server with the DeltaV system. One option is the Embedded Enterprise Historian that was released in DeltaV v10.3 that allows you to use a PI Server on a DeltaV Application Station as the DeltaV system historian. A second option is the integrated Enterprise Historian that was released in DeltaV v12.3 that allows you to use a PI Server located on a non-DeltaV PC in your plant network as the DeltaV system historian. A third option is the use of a Site PI Server with OPC connectivity to the DeltaV system. Each of these options requires the purchase of a PI Server and DeltaV system interface from OSIsoft (or Emerson reseller) and the necessary DeltaV system licenses from Emerson.

1.10. How is the Advanced Continuous Historian different from the Enterprise Historian?

Both the Advanced Continuous Historian and Enterprise Historian use OSIsoft technology and are well integrated into the DeltaV system and are available as an optional historian platform in the DeltaV system; the primary differences are the features, functionality, and price of each platform. The Advanced Continuous Historian is built to provide features and capabilities required for a single DeltaV system historian; the Enterprise Historian is a full-featured PI server that can serve multiple DeltaV systems. The Advanced Continuous Historian is installed, locally on the control system network, on a DeltaV Application Station. The Enterprise Historian can be installed on an Application Station as the Embedded Enterprise Historian or installed on a non-DeltaV PC as the Integrated Enterprise Historian. They also differ in the types of PI clients that are allowed to connect to each. The Advanced Continuous Historian allows a limited set of PI clients to connect while the Enterprise Historian allows the full suite of PI clients to connect. For more details on the Enterprise Historian, refer to the Enterprise Historian product data sheet and the Enterprise Historian FAQ white paper available on the Emerson DeltaV documentation web site.

1.11. What is the maximum tag count of the Advanced Continuous Historian?

For DeltaV v12.3.1, the Advanced Continuous Historian can be configured with up to 30,000 parameters on a single DeltaV Application Station. For DeltaV v13.3 and higher systems, the limit is 60,000 parameters per Application Station.

1.12. What is the maximum database size of the Advanced Continuous Historian?

The Advanced Continuous Historian database size is only limited by the number of archives created and the amount of hard disk drive space available on the server, giving you the ability to access months or years' worth of on-line historical data.

1.13. What is the performance of the Advanced Continuous Historian?

The recommended scan rate is 10,000 tags per second, maximum. So if a historian has 50,000 tags the average scan rate configured for the tags should be greater than 5 seconds. The tags/items scanned-per-second-value is visible in DeltaV Diagnostics under the Continuous Historian subsystem.

1.14. Which DeltaV versions support the Advanced Continuous Historian?

The Advanced Continuous Historian is supported with the DeltaV v12.3.1 and later releases.

1.15. Does the Advanced Continuous Historian require a license?

Yes. Just like the DeltaV Continuous Historian, the Advanced Continuous Historian is licensed by the number of DeltaV parameters you want to configure for history collection. In this case, it requires an Advanced Historian license from Emerson. For new DeltaV systems, there are Advanced Continuous Historian new version licenses available in 1,000, 5,000, 10,000, and 20,000 parameter increments and these licenses can be used in any combination up to the maximum tag count (30,000 in the DeltaV v12.3.1 release and 60,000 in DeltaV v13.3 and higher).

For existing systems with a Legacy Historian or the DeltaV Continuous Historian, there are version upgrade licenses available in 250, 1,000, 5,000, and 10,000 parameter increments. An existing Legacy Historian or DeltaV Continuous Historian can be upgraded to the Advanced Continuous Historian of equal or smaller size.

1.16. Does the Advanced Continuous Historian require the Enterprise Historian Configuration Interface license?

No. The only licensing required for the Advanced Continuous Historian is the parameter count license.

1.17. Will my existing Legacy Historian or DeltaV Continuous Historian licenses work with the Advanced Continuous Historian?

No, the Advanced Continuous Historian requires an Advanced Continuous Historian license, which is different from the Legacy Historian and DeltaV Continuous Historian licenses. Customers that upgrade from the Legacy Historian or the DeltaV Continuous Historian will need to purchase Advanced Continuous Historian upgrade licenses, which are priced to include a credit for an existing Legacy Historian and/or DeltaV Continuous Historian.

1.18. If I upgrade from the Legacy Historian or DeltaV Continuous Historian to the Advanced Continuous Historian, can I increase the license size of the Advanced Continuous Historian?

Yes. If you want to upgrade from the Legacy Historian or the DeltaV Continuous Historian to the Advanced Continuous Historian, you can purchase an Advanced Continuous Historian in the same size as your Legacy Historian or DeltaV Continuous Historian using the Advanced Continuous Historian version upgrade licenses. If you need to add capacity to the Advanced Continuous Historian, you can purchase additional Advanced Continuous Historian new version licenses up to the maximum number of allowed parameters per Advanced Continuous Historian. By example, if your Legacy Historian is licensed for 5,250 parameters and you want to upgrade to the Advanced Continuous Historian, you can purchase up to a 5,250 Advanced Continuous Historian using the version upgrade licenses. If you want an additional 3,000 parameters of history collection in the Advanced Continuous Historian, you will need to purchase three, 1,000 parameter Advanced Continuous Historian new version licenses for a total of 8,250 parameters.

2. Architecture

2.1. Where does the Advanced Continuous Historian reside?

The Advanced Continuous Historian may be installed on any server platform approved for use as a DeltaV Application Station in DeltaV v12.3.1 and later releases.

2.2. How many Advanced Continuous Historians can I have in a DeltaV system?

You may have as many Advanced Continuous Historians in your DeltaV system as you have DeltaV Application Stations; the current DeltaV system limit is 20 Application Stations.

2.3. Can I have a DeltaV Continuous Historian and an Advanced Continuous Historian in the same DeltaV system?

Yes, you may have one or more DeltaV Continuous Historians and one or more Advanced Continuous Historians in your DeltaV system as long as they reside on separate DeltaV workstations. The DeltaV Continuous Historian is installed with the DeltaV system on every DeltaV workstation; the Advanced Continuous Historian is only installed on the Application Station. You may not have a DeltaV Continuous Historian and an Advanced Continuous Historian running on the same Application Station.

2.4. If I use an Advanced Continuous Historian, do I also need to have a DeltaV Continuous Historian in the same system?

No, use of the Advanced Continuous Historian does not require a DeltaV Continuous Historian. When the Advanced Continuous Historian is used in the DeltaV system, it is integrated into the Continuous Historian subsystem on the Application Station.

2.5. Which DeltaV historian client applications work with the Advanced Continuous Historian?

This section also applies to the Enterprise Historian for users who are curious about the client support if they expand to the Enterprise Historian product.

The following DeltaV clients are supported. Note that, unlike the DeltaV Continuous Historian, parameter statuses are not automatically included and must be added separately.

- DeltaV Live Charts
- DeltaV Mobile
- Process History View
- History Analysis
- DeltaV Operate embedded trends
- MPC Diagnostics
- MPC Operate
- MPC Operate Pro
- MPC Simulate
- MPC SimulatePro
- Adapt
- Neural
- Predict
- Predict Pro
- InSight (with the exception of report generation features.)

The following Alliance Partner clients are supported; however, they require the PI OPC Server to be installed on the Application Station. The PI OPC Server is available for purchase from Emerson (reseller)

- Informetric Systems InfoBatch
- SyTech XLReporter

The following DeltaV clients are not supported.

- DeltaV Reporter
- History Web Service
- DeltaV OPC History Server
- DeltaV Web Server

The following DeltaV clients are supported in DeltaV v13.3 and higher but are not supported in DeltaV v12.3.1.

- History Analysis
- DeltaV Operate embedded trends

Other third party client connections need to be evaluated on a case-by-case basis. Generally speaking, if the third party client is a competitor to OSIsoft, it will not be allowed. If the user needs such a client, the Enterprise Historian must be used.

2.6. Which OSIsoft PI client applications work with the Advanced Continuous Historian?

The following PI clients work and are provided on the DeltaV media.

- PI DataLink (limit of 10 connections)
- PI Manual Logger (limit of 2 connections)
- Pi-to-Pi (limited to this Advanced Continuous Historian connecting to a PI Server)

The following PI clients work, but must be purchased separately from OSIsoft (or Emerson reseller).

- PI ProcessBook (limit of 10 connections) - Retired.

Other PI client applications such as PI Coresight are not available for use with the Advanced Continuous Historian. These other PI client applications must be used with one of the approved Enterprise Historian options or a Site PI Server. The Advanced Continuous Historian with PI-to-PI provides seamless connectivity to a Site PI Server, making it easy to use these other PI client applications with DeltaV system data collected in a Site PI Server.

2.7. If I use an Advanced Continuous Historian, do I also need to have a Site PI Server connected to the Advanced Continuous Historian?

No, use of the Advanced Continuous Historian does not require a Site PI Server.

2.8. Does the Advanced Continuous Historian automatically collect DeltaV parameter status information?

No. The Advanced Continuous Historian does not automatically configure and collect the parameter status with the value like the DeltaV Continuous Historian.

2.9. I have an existing Legacy Historian in my DeltaV system. Can I continue to use the Legacy Historian or do I have to upgrade to the Advanced Continuous Historian?

You can continue to use the Legacy Historian up to and including DeltaV v11.3.1. In DeltaV v12.3, the option to keep the Legacy Historian is removed. When you upgrade to DeltaV v12.3 or later releases, you have to replace the Legacy Historian with another continuous historian platform. The Advanced Continuous Historian provides another continuous historian upgrade option in DeltaV v12.3.1 in addition to the option to upgrade to the DeltaV Continuous Historian or to one of the Enterprise Historian options.

2.10. Can I send data from the Advanced Continuous Historian to a Site PI Server on my plant LAN?

Yes, the Advanced Continuous Historian allows seamless connectivity to a Site PI Server using the PI-to-PI Interface available with the Advanced Continuous Historian. If a Site PI Server is available, seamless connectivity to the Advanced Continuous Historian is possible using the PI-to-PI interface on the DeltaV installation DVD.

3. Installation

3.1. Where do I install the Advanced Continuous Historian?

The Advanced Continuous Historian is installed on the DeltaV Application Station.

3.2. Is the Advanced Continuous Historian installed with the DeltaV system software?

For DeltaV v12.3.1, the Advanced Continuous Historian is delivered on the DeltaV media but must be installed separately from the DeltaV system software. For DeltaV v13.3 and later releases, the Advanced Continuous Historian is installed with the DeltaV system software on each DeltaV Application Station – no separate installation required. The Advanced Continuous Historian simply requires a parameter scale-up license to activate the history collection.

3.3. What DeltaV PC hardware is required for the Advanced Continuous Historian?

The Advanced Continuous Historian may be installed on any server that is approved for use as a DeltaV Application Station.

3.4. What operating systems does the Advanced Continuous Historian require?

The Advanced Continuous Historian may be installed on any operating system that is approved for use as a DeltaV Application Station.

3.5. Can I run other applications on the same DeltaV Application Station that is running the Advanced Continuous Historian?

Yes, it is technically possible to run other applications on the same DeltaV Application Station that is running the Advanced Continuous Historian. However, it is recommended that initially no other applications are run on the Application Station until the Advanced Continuous Historian is running and collecting data and the Application Station loading is known. Once you determine the load on the Application Station when it is running just the Advanced Continuous Historian, and it appears there are adequate PC resources available, you can add other applications one at a time up to the point where the recommended loading of the Application Station is reached.

3.6. If I upgrade to the Advanced Continuous Historian from the Legacy Historian or the DeltaV Continuous Historian, can I preserve my historical data?

Yes. The DeltaV system documentation includes instructions on how to migrate historical data from the Legacy PI historian and the DeltaV Continuous Historian. For more details, refer to the DeltaV Continuous Historian Upgrade Planning Guide on the DeltaV website.

3.7. Is the Advanced Continuous Historian available for installation on new DeltaV systems?

Yes, the Advanced Continuous Historian may be installed on new or upgraded DeltaV systems. If the Advanced Continuous Historian is installed on a new or upgraded system, ensure that you have the appropriate licenses for the Advanced Continuous Historian.

4. Configuration and Operation

4.1. How do I configure the DeltaV system to use the Advanced Continuous Historian?

The Continuous Historian Properties dialog (launched by right-clicking the Continuous Historian subsystem on the DeltaV Application Station) contains a new configuration option to enable use of the Advanced Continuous Historian. Once this option is selected, you configure the Advanced Continuous Historian just like you configure the Legacy Historian or DeltaV Continuous Historian - drag the desired areas to the Continuous Historian subsystem, configure DeltaV parameters for history collection, and download the Continuous Historian subsystem.

4.2. When I add/delete/modify a history tag in the DeltaV system, are the changes updated in the Advanced Continuous Historian?

Yes. When you add/delete/modify a history tag from DeltaV Explorer or Control Studio, you simply download the changes to the Advanced Continuous Historian. This is the same process as with the DeltaV Continuous Historian and Legacy Historian.

4.3. Can I access Advanced Continuous Historian data in an Excel spreadsheet?

Yes. The Advanced Continuous Historian includes 10 licensed copies of the OSIsoft PI DataLink utility that allows you to read historical data from the Advanced Continuous Historian into an Excel spreadsheet on a DeltaV or non-DeltaV PC. You do not need a separate license for PI DataLink as these licenses are included with the Advanced Continuous Historian, but you must have a licensed copy of Microsoft Excel. PI DataLink is manually installed from the DeltaV installation DVD.

4.4. Can I add manually collected data to the Advanced Continuous Historian?

Yes. The Advanced Continuous Historian includes two licensed copies of the OSIsoft PI Manual Logger utility that allows you to add post-dated, manually collected data to the Advanced Continuous Historian database. You do not need a separate license to use PI Manual Logger as these licenses are included with the Advanced Continuous Historian. PI Manual Logger is manually installed from the DeltaV installation DVD.

4.5. Can I programmatically add data to the Advanced Continuous Historian?

No. The Advanced Continuous Historian does not provide an API or service to programmatically add data. All data must come from the DeltaV runtime or PI Manual Logger client. If a programmatic interface is required, the user should consider the Enterprise Historian.

4.6. How do I manage the Advanced Continuous Historian archives?

The Advanced Continuous Historian includes the PI System Management Tool (SMT) which is used for managing the Advanced Continuous Historian archives. PI SMT is a set of easy-to-use tools that allow you to perform the necessary Advanced Continuous Historian administration tasks, such as view, configure, backup, restore, and move archives.

4.7. How many Advanced Continuous Historian archives can I have?

The Advanced Continuous Historian is installed with three, 256 MB archives. The Advanced Continuous Historian is configured by default to automatically create new archive files when the existing archives are full, preventing inadvertent loss of data. With the automatic creation of archives enabled, you must monitor available disk space for the archives. If there is not enough disk space to create the new archives, the Advanced Continuous Historian overwrites data in the old archives. Alternatively, you can disable this feature and manually create the number of archives required to meet your on-line storage needs. When the initial archives created by the Advanced Continuous Historian installation are full, the manually created archives are used to store new data.

4.8. Is the Advanced Continuous Historian available on a DeltaV Simulate Multi-Node system?

No, the Advanced Continuous Historian is not available on a Simulate Multi-Node system.

5. Migration

5.1. How do I upgrade my existing Legacy Historian to an Advanced Continuous Historian?

During the upgrade to DeltaV v12.3 and later releases, the option to keep the Legacy Historian is removed from the DeltaV Upgrade Wizard and the Legacy Historian will be uninstalled during the upgrade. Although the Legacy Historian is uninstalled, the Legacy Historian archive files will be preserved in case you want to migrate the archives to the Advanced Continuous Historian. After the DeltaV upgrade, you will install the Advanced Continuous Historian on your DeltaV Application Station from the DeltaV media. You will also need to purchase the Advanced Continuous Historian version upgrade licenses and reconfigure the Continuous Historian subsystem to use the Advanced Continuous Historian.

5.2. If I upgrade my existing Legacy Historian to an Advanced Continuous Historian, will I lose my existing historical data?

No, you can upgrade the Legacy Historian to an Advanced Continuous Historian and preserve your historical data by manually migrating your Legacy Historian data. Instructions on how to migrate the Legacy Historian data is provided in the DeltaV Continuous Historian Upgrade Planning Guide and referenced in the DeltaV system documentation.

5.3. If I upgrade my existing Legacy Historian to an Advanced Continuous Historian, will I need to reconfigure the DeltaV parameters for history collection?

In terms of historian configuration, when you upgrade the Legacy Historian to an Advanced Continuous Historian you will only need to reconfigure the Continuous Historian subsystem to use the Advanced Continuous Historian on the DeltaV Application Station and then download the subsystem. Your existing history collection configuration will be sent to the Advanced Continuous Historian.

5.4. Can I replace my existing DeltaV Continuous Historian with an Advanced Continuous Historian?

Yes, if you have a DeltaV Continuous Historian running on a DeltaV Application Station you can replace it with an Advanced Continuous Historian, as desired. You will need to purchase the Advanced Continuous Historian version upgrade licenses and reconfigure the Continuous Historian subsystem to use the Advanced Continuous Historian instead of the DeltaV Continuous Historian.

5.5. Can I replace my existing DeltaV Continuous Historian with an Advanced Continuous Historian, will I lose my existing historical data?

No, you can replace the DeltaV Continuous Historian with an Advanced Continuous Historian and preserve your historical data by manually migrating your DeltaV Continuous Historian data. Instructions on how to migrate the DeltaV Continuous Historian data is provided in the Continuous Historian Upgrade Planning Guide and referenced in the DeltaV system documentation.

5.6. If I replace my existing DeltaV Continuous Historian with an Advanced Continuous Historian, will I need to reconfigure the DeltaV parameters for history collection?

In terms of historian configuration, when you replace the DeltaV Continuous Historian with an Advanced Continuous Historian you will only need to reconfigure the Continuous Historian subsystem on the DeltaV Application Station to use the Advanced Continuous Historian and download the subsystem. Your existing history collection configuration will be sent to the Advanced Continuous Historian. Note that once you have reconfigured and downloaded the Continuous Historian subsystem to use the Advanced Continuous Historian, the DeltaV Continuous Historian processes continue to run but are no longer collecting data. On the next reboot of the Application Station, the DeltaV Continuous Historian processes will not start.

5.7. If I replace my existing DeltaV Continuous Historian with an Advanced Continuous Historian, can I switch back to the DeltaV Continuous Historian?

If you replace your existing DeltaV Continuous Historian with an Advanced Continuous Historian and you want to revert back to the DeltaV Continuous Historian, you can do this by simply reconfiguring the Application Station to use the DeltaV Continuous Historian and downloading the Continuous Historian subsystem. The DeltaV Continuous Historian will be configured and the historian data collection processes will begin collecting data. The Advanced Continuous Historian will stop collecting data but will remain on the Application Station. The DeltaV historian client applications, like Process History View, will start using the DeltaV Continuous Historian.

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