Emerson and OSIsoft agreement delivers DeltaV’s Advanced Continuous Historian powered by OSIsoft Technology

Presented by

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Introduction

• Emerson and OSIsoft have been long term partners in providing embedded historian and enterprise-wide data infrastructure technologies to Emerson customers.
• Emerson and OSIsoft have recently entered into a new agreement that enables DeltaV customers to use embedded OSIsoft technology in the DeltaV system as the Advanced Continuous Historian.
• The Advanced Continuous Historian provides real-time data and historical context to the DeltaV system enabling operational awareness and real-time decision making for mission critical process control.
• Additionally, this new agreement has resulted in joint product development designed to automatically configure points and easily build PI Asset Framework structure(s) and PI Event Frames triggers to provide tight integration and an automatic configuration experience between the Advanced Continuous Historian and a Site PI Server. DeltaV customers can easily and securely aggregate data from the DeltaV system to a Site PI Server that provides real-time visibility to the plant floor environment outside of the secure process control network.
DeltaV Historian Timeline

- DeltaV Historian
- Intellution Historian
- Legacy Historian (only available on Application Stations upgraded from DeltaV v7.3 and earlier)
- DeltaV Continuous Historian
- Embedded Enterprise Historian
- Integrated Enterprise Historian
- Advanced Continuous Historian

DeltaV versions:
- DeltaV v1
- DeltaV v2
- DeltaV v3.3
- DeltaV v4
- DeltaV v5
- DeltaV v6
- DeltaV v7.4
- DeltaV v8
- DeltaV v9
- DeltaV v10.3
- DeltaV v11
- DeltaV v12.2
- DeltaV v12.3.1
OSIsoft and Emerson Partnership

- Long-term multi-year agreement
- Embedded OSIsoft Technology in DeltaV (OEM)
- Provides path forward for existing DeltaV Legacy Historian customers
- Extends the use of embedded OSIsoft Technology to new DeltaV systems
- Improves connectivity between PI and DeltaV systems
- Increases DeltaV system historian options
Advanced Continuous Historian Architecture

Available in DeltaV v12.3.1 and later
Advanced Continuous Historian Details

- A new DeltaV historian platform based on embedded OSIsoft historian technology
- Integrated into DeltaV engineering, operations, and security applications
- Improves DeltaV historian performance and on-line data storage capacity
- Provides seamless integration with a site PI Server
- Available as an option on the DeltaV Application Station
- For new DeltaV systems and DeltaV system upgrades
Advanced Continuous Historian Configuration

All other ACH configuration is the same as the other historian options.
Advanced Continuous Historian Connectivity

PI System Domain
- Other PI Interfaces
- Other PI Clients and applications
- Site PI Server
- PI ProcessBook
- PI Coresight
- PI DataLink

DeltaV System Domain
- DeltaV data collection
- DeltaV configuration
- Advanced Continuous Historian
- PI to PI
- DeltaV client
- PI DataLink*
- PI Manual Logger*

*Limited use
Advanced Continuous Historian Licensing

**Installed Base Systems**

Version upgrade licenses:
1. Customers given credit for existing historian licenses
2. Available up to the equivalent size of the existing legacy historian or DeltaV CH
3. Sold in 250, 1k, 5k, and 10k parameter increments up to 30k

**New Systems**

New version licenses:
1. Available for new systems and scale up of ACH from existing legacy historian or DeltaV CH
2. Sold in 1k, 5k, and 10k parameter increments up to 30k
Additional DeltaV system historian options using OSIsoft technology
Embedded Enterprise Historian

Available in DeltaV v10.3 and later
Integrated Enterprise Historian

Available in DeltaV v12.3 and later

Operator Stations must be on Enterprise Historian network to view historical data

Operator Stations must be on Enterprise Historian network to view historical data
Site PI Server: Real-time Data Transfer

Available in all DeltaV versions

Operator Stations must be on Enterprise Historian network to view historical data

Site PI Server

PI Interface for OPC

DeltaV OPC DA Server

Operator Stations

DeltaV Client

Operator Stations

DeltaV Client

DeltaV OPC Client

Available in all DeltaV versions

User Stations

Plant LAN
# DeltaV Historian Feature Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>DeltaV CH</th>
<th>ACH</th>
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<th>Site PI</th>
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<tbody>
<tr>
<td>Well integrated into DeltaV</td>
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<td>Uses DeltaV security model</td>
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<td>Sold by Emerson</td>
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<td>Supported by Emerson</td>
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<td>Lowest cost system historian solution</td>
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<td>Parameter status collection with value</td>
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<td>Seamless connectivity to site PI Server</td>
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<td>Non-DeltaV data collection</td>
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<td>Large on-line storage capacity</td>
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<td>Large tag count</td>
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<td>PI client application access</td>
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<td>Multiple DeltaV system solution</td>
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Legend: ⬤ High, ⬤ Medium, ⬤ Low
Seamless, Enterprise-wide Data Visibility
Example Emerson Enterprise Application: Energy Management

See inside your plant with an energy lens

- Gain better insight into energy consumption and loss
- Turn energy data into actionable information
- Achieve site-wide energy performance targets
Advanced Continuous Historian Documentation

• Product Data Sheet

• FAQ White Paper

• OSIsoft product details
  – http://www.osisoft.com/software-support/products/Products.aspx
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THANK YOU