

DeltaV™ RTU Connect

The DeltaV RTU Connect solution enables Emerson's RTUs and flow computers to seamlessly interface to a DeltaV network. The DeltaV RTU Connect provides wide area telemetry to the DeltaV system.

Operating and maintaining separate systems increases lifecycle costs. It was in recognition of this need that led to the development of the DeltaV RTU Connect solution. The DeltaV RTU Connect solution bridges the two systems and enables remote telemetry data to be monitored and controlled from a single system in the control room.

How It Works

DeltaV RTU Connect enables real-time data, alarms, and historical logged data to stream from the OpenEnterprise SCADA system to the DeltaV DCS system.

An application station running OpenEnterprise™ collects data from RTUs. This solution provides the integration and connectivity of field RTUs (SCADA system) with a plant DCS system using standard OPC mirror.

A second application station running the PI historical database and the plantwide event historian (PEH) provides historical as well as alarm and event data logging while maintaining RTU timestamps.

The DeltaV RTU Connect backfills data from OpenEnterprise SCADA to the DeltaV PI historian via the PI SDK client. DeltaV Operator workstations are configured to request historical data from the PI historian.



Although the DeltaV RTU Connect solution is installed on the application station, functionally the DeltaV DCS system recognizes the solution as a virtual controller (on the same level as the actual physical hardware controllers).

Key Technical Features

- Seamless bi-directional real-time communication between SCADA and DCS
- Easy-to-use configuration tool that auto-generates the DeltaV FHX file
- Centralized historical RTU data and alarms with timestamp
- Receives real-time data and alarms, and sends RTU commands
- Propagates RTU alarm configuration (limits and deadband) through to DeltaV
- Automatically backfills local RTU data in case of RTU communication loss



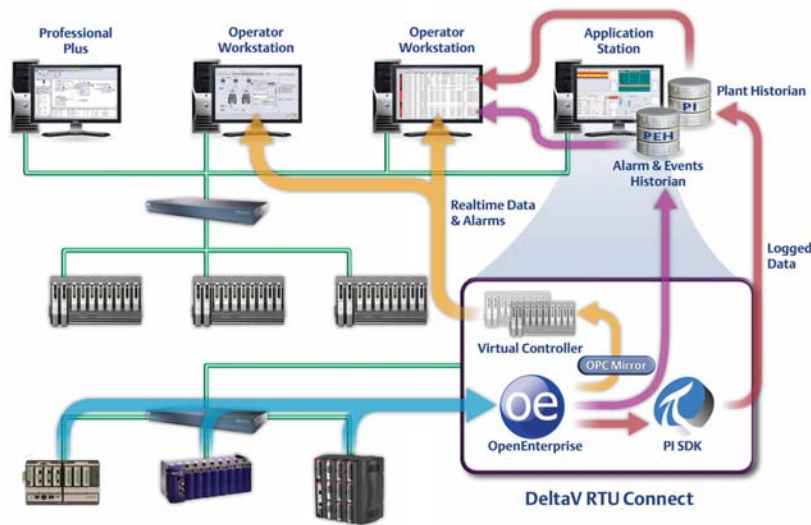
Benefits

- A single operating environment to monitor and control your entire operation
- Reduces costs associated with operating and maintaining separate systems
- Reduces complexity by eliminating the need to re-engineering displays or alarm configurations
- Allows operator agility to respond to real-time alarms
- Enables fit for purpose, low-power remote controllers (ROC, FloBoss™ and ControlWave™)
- Enhances post analysis capability via integrated alarm and event historian

Purpose

The primary intent of the DeltaV RTU Connect solution is to:

- Provide real-time bi-directional pass through between Emerson’s RTUs and DeltaV
- Generate real-time alarms as current alarms on the DeltaV operator station
- Record the historical RTU logged data to the PI historian
- Record system alarm and event data to the PEH historian



DeltaV RTU Connect Architecture

Ordering Information	Model Number
OpenEnterprise v2.83	RAS PN
App station + virtual controller + OPC DA server + ΔV licenses	PSS PN
OPC server A & E license for the plant event historian (PEH)	PSS PN
OPC mirror - 2 server license	PSS PN
PI plant wide historian license +PI SDK single client license	PSS PN



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