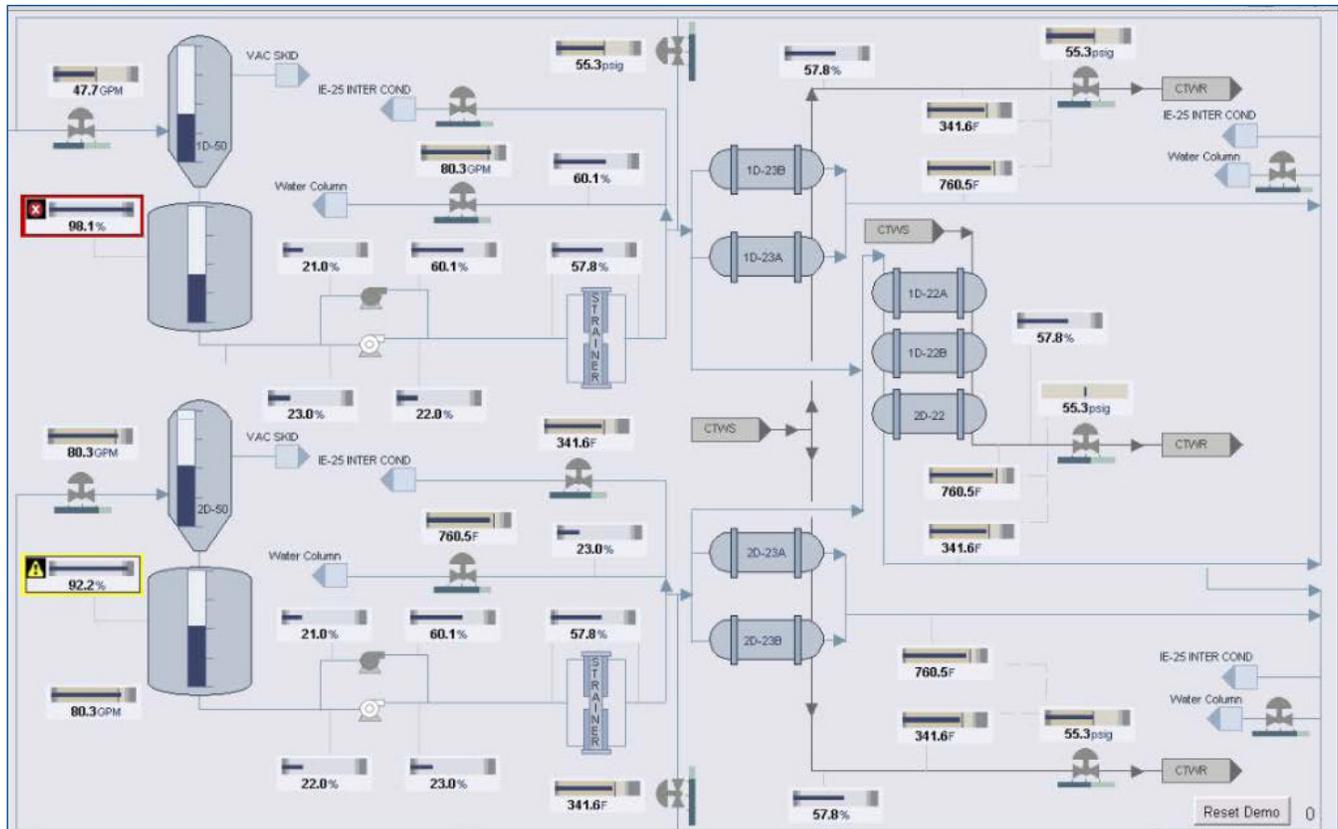# DeltaV™ Executive Portal

You can easily monitor and analyze your plant with DeltaV Executive Portal Web View.

- Securely view your process remotely through Internet Explorer

- Convert displays with minimal rework

- Easily create dashboards to view just the information you need

- Combine information from multiple systems and historians into a single view

Introduction

Do you need to remotely view DeltaV system displays, and have been wishing for a solution that is easy to maintain and keep current? Tired of relying on others to provide you with the dashboards you need? Wish you had all of the process information you needed, even from different control systems and historians?

With DeltaV Executive Portal, view your DeltaV displays, from your web browser. In addition, you can easily define your own dashboards, selecting and arranging the information you need.

DELTAV™

EMERSON™

You can also combine related real-time and historical information from multiple DeltaV systems, other control systems, and historians. DeltaV Executive Portal provides one place to view all of your process information, giving decision-making tools to people when and where they need it.

Benefits

Securely view your process remotely – on desktops or Windows tablets through the Internet. Staying current on production is only a click away with DeltaV Executive Portal — with displays that update in real-time.

Security is built-in. The DeltaV Executive Portal is view only, so there is no chance of a remote user inadvertently affecting the plant operation. You decide which users are allowed access. Windows user credentials are used for validation, allowing you to view graphics whether at the office, or anytime you are connected to your company's VPN.

DeltaV Executive Portal securely communicates with DeltaV systems using encrypted Microsoft Windows Communication Foundation (WCF) and with the client Internet Explorer web browsers using Hypertext Transfer Protocol (HTTPS) communications.

Communications set up with your DeltaV system is easy, with the Emerson Smart Firewall and pre-defined templates. For those seeking further protection, optional one-click operating system security hardening is available.

Convert displays with minimal rework, using the DeltaV Operate display conversion utility. Simply select the existing DeltaV Operate displays to convert, and import them into DeltaV Executive Portal.

Displays are ready for viewing after import. Even current DeltaV alarm status is shown. Display static shapes, real-time dynamic values, common display animations, variables, and color tables are all converted.

Imported displays are built with DeltaV Executive Portal graphics components (such as rectangles, lines, etc.), so you can modify or augment the displays in Executive Portal – there's no need to change the displays in the DeltaV system.

Create dashboards to view just the information you need with little or no training. No one better than you knows what is important to your plant operation. Easily create your own dashboards to fit what you need, using the library of pre-built display gadgets. You can also create your own gadgets in Web Studio.

Combine information from multiple systems and historians into a single view. Production personnel need to make fast, informed decisions based on current production conditions. However, critical information is often distributed throughout the plant in a variety of systems and historians.

Create additional displays for any additional process information you need, regardless if it is in a single DeltaV system, multiple DeltaV systems, a separate historian, or other control systems. Set up favorites to easily navigate to the displays and dashboards you use most.
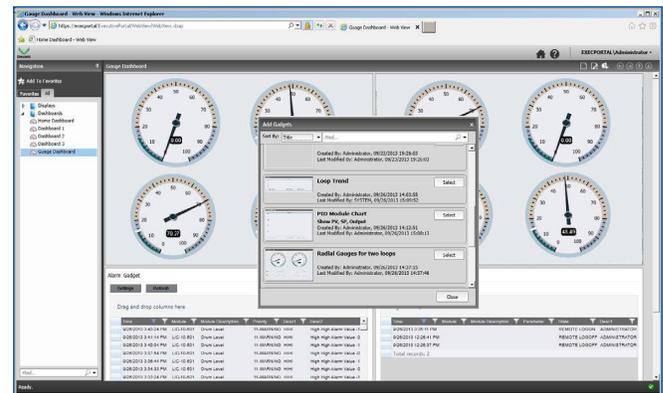
Create your own displays with DeltaV Executive Portal Dashboard Gadgets.
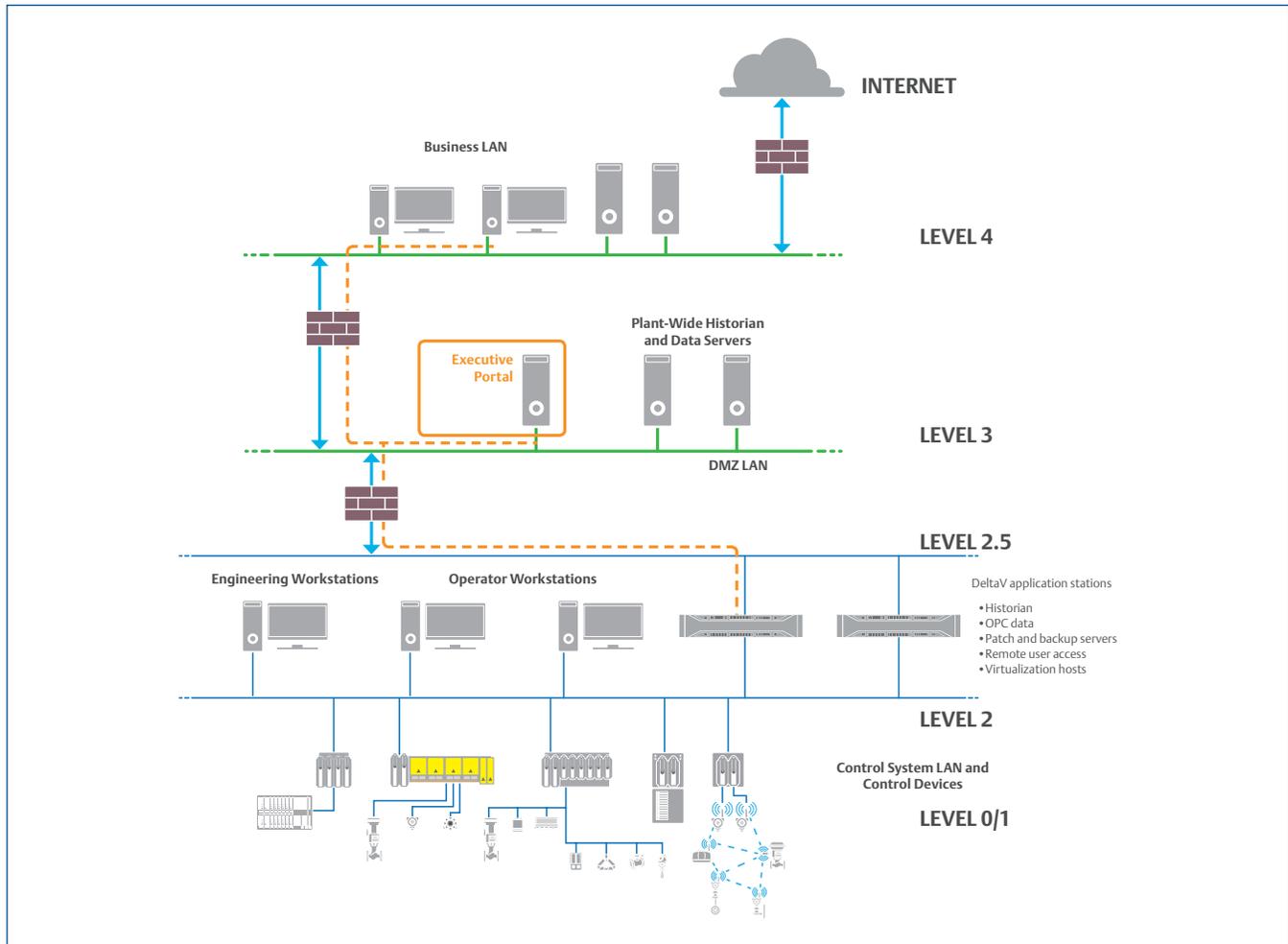
DeltaV Executive Portal installed on the DMZ for increased security.

Product Description

DeltaV Executive Portal provides the ability to securely view converted DeltaV graphics with minimal rework. It can be installed on DeltaV Application Stations, or on a PC in the Plant Local Area Network (LAN) Level 3/DMZ.

DeltaV Executive Portal is scalable, such that you can choose to view displays from a single DeltaV system, or optionally combine displays and communicate with multiple DeltaV systems.

Secure communications. Communications with control systems often become difficult to set up and require opening a variety of firewall ports. Secure Communications between DeltaV Executive Portal and DeltaV system is provided with the built-for-purpose DeltaV Communicator.

The DeltaV Communicator is installed on any DeltaV workstation that needs to communicate to DeltaV Executive Portal. It provides secure WCF communications, instead of distributed component object model (DCOM) , between DeltaV Executive Portal and the DeltaV system. This communication is used for all DeltaV information – real-time data, the DeltaV Continuous Historian, and DeltaV Event Chronicle.

DeltaV Executive Portal uses Secure HTTPS communications with the client Internet Explorer web browsers.

Whether installed on the Plant LAN or a DeltaV workstation, communications set up with your DeltaV system is easy, with the Emerson Smart Firewall and pre-defined templates. The optional one-click operating system security hardening turns off unneeded PC services.

You decide which users can view DeltaV Executive Portal. You can easily select which domain or local users have view, or DeltaV Executive Portal configuration privileges.

Executive Portal Web View. Navigating between displays in the Web View is easy, with the standard DeltaV display previous/next and replace display configuration maintained. In addition, displays can be organized into folders and each user also can define quick access to their most important displays by defining them as favorites, just like in Microsoft Internet Explorer.

Choose from one to multiple web users to concurrently view displays and dashboards from their desktops and/or Windows tablets. When a user logs off, the license is then available for another user.

When new views of the process information are needed, web users can interactively create dashboards, and don't have to rely only on the displays provided when targeted views are needed to augment the converted displays.

New dashboards are easily created using DeltaV Executive Portal gadgets. Each gadget is predefined with the choices needed – such as selecting a module for a trend chart gadget or event types for an Event Chronicle gadget.

Arrange and move the gadgets on dashboard to create just what you need.

DeltaV Executive Portal includes predefined dashboard layouts and gadgets such as for the Event Chronicle and history, so that Web users can quickly start creating their own dashboards. When needed, you can create gadgets specific to your process in Web Studio, starting with the predefined gadgets, or creating brand new ones. Once created, gadgets are available for everyone to use in Web View.

DeltaV display conversion. Your displays are converted using the DeltaV Executive Portal display export utility. The utility is run from DeltaV Operate – Configure mode.

DeltaV Executive Portal provides a whole new level of information to personnel around the plant. Since DeltaV displays are converted, instead of needing to be manually recreated, DeltaV displays can have up to 10 times more data values and animations, as compared to other web displays.

This provides remote users with a very complete view of current process conditions, however, this additional display complexity can impact display performance.

If you need to touch up your converted displays, or want to only include the information needed for remote viewing, you can use Web Studio - there's no need to modify your DeltaV Operator displays and convert them again.

Web Studio can also be used to both modify converted displays and create new displays, such as to include tables with relevant Event Chronicle information, charts, bar graphs, and pie charts with DeltaV Continuous Historian information or to add other relevant information.

DeltaV Executive Portal display export utility also makes it easy for you to know if any of the converted displays have been modified in DeltaV Operate since the last conversion.

Many of the displays are converted, including:

- Static display components (such as shapes, colors) and bitmaps
- Real-time dynamic values
- Common display animations
- Local and global display variables
- Local and global color tables
- Animated bitmaps used for alarm indication
- Standard display navigation between displays
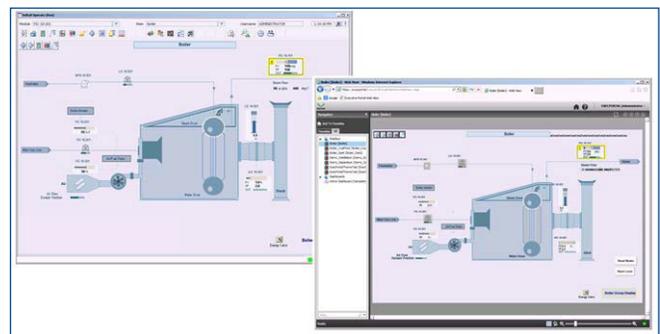
Convert DeltaV displays and keep up to date on process operations.

Some DeltaV display components are not converted. This includes:

- History controls – Embedded trends referencing the DeltaV Continuous Historian are not converted. New trend charts can be added to the displays in Executive Portal.

- Batch controls – Are not converted and do not have equivalent controls in DeltaV Executive Portal. Unit-specific batch information in the graphics does convert.

Batch Controls are not converted.

- Alarm summary controls – Are not converted and do not have equivalent controls in DeltaV Executive Portal. Prioritized user alarms in graphics do convert.

- Display scripts – Display scripts, such as context menus, buttons for popups, custom scripts, etc., are not converted. Simple logic can be added to displays in Executive Portal using structured text.

Combine Related Information. DeltaV Executive Portal can also access a variety of data sources relevant to your operations. You can bring together related real-time information from other control systems, and key historical information stored in enterprise historians, using OPC.

This information can be added to converted DeltaV displays, or to new DeltaV Executive Portal displays, providing you a single view to all of your related process information.

Historical information can be combined with DeltaV historical information in charts and graphs.

DeltaV Executive Portal can access the following data sources:

- OPC.NET/DA - access real-time control systems and PLCs

- OPC DA classic - access real-time control systems and PLCs

- OPC.NET/Historical Data Access (HDA) - access continuous historians

- OPC HDA classic HDA - access continuous historians

- DeltaV Real-time - access DeltaV information for DeltaV converted graphics

- DeltaV Event Chronicle – access Event Chronicle information

PC Specifications. DeltaV Executive Portal is optimized for concurrent Web clients. This is achieved by distributing much of the display processing to the clients, instead of performing all of these tasks on the server.

This minimizes the impact that the additional DeltaV Executive Portal Web View users have on each other.

Since DeltaV Executive Portal clients are responsible for a portion of the display call-up processing, the client PC performance can affect display call-up times, along with the server.

For best performance, the following PC specifications are recommended:

- Server - 16GB Memory E5-2620 0 @2.0GHz (such as Dell server T620)

- Client – 2 GB Memory, i7-3770 @3.40GHz (such as Dell 7010) or 2Duo 2 Core @ 2.2GHz (such as Latitude D630)

For example, with the recommended PC specifications, the boiler display shown on page 4 would typically open and have real-time data within 5 seconds.
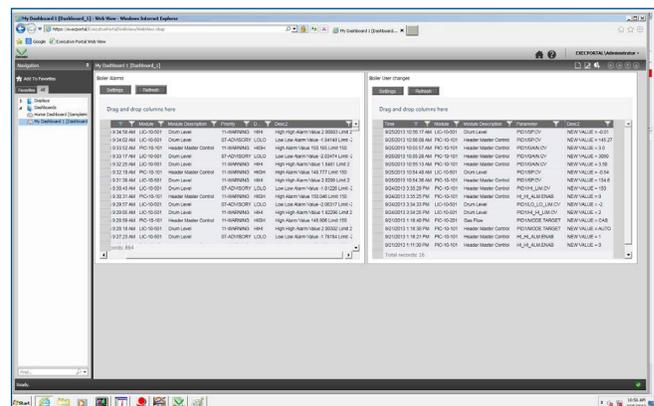
DeltaV Execuitve Portal with DeltaV Alarms and Event history.

Localization

DeltaV Executive Portal works with non-English versions of the DeltaV system. DeltaV Operate graphics that have been developed in other languages will convert to Executive Portal and Web View interface is translated into the following languages:

- French

- Russian

- Chinese

- Japanese

Compatibility and Sizing

DeltaV Executive Portal server can be installed on the following DeltaV Workstations*
▪ DeltaV v11.3.1 Application Stations
▪ DeltaV v12.3.1 Application Stations
▪ DeltaV v13.3.1 Application Stations

DeltaV v10.3.1 systems are supported for communications, but DeltaV Executive Portal must be installed on a PlantLAN or DMZ server, due to operating system limitations.

DeltaV Executive Portal server can be installed on the following operating systems
▪ Microsoft Windows 7 Professional SP1 (32-bit and 64-bit)
▪ Microsoft Server 2008 Standard SP2 (32-bit)
▪ Microsoft Server 2008 R2 SP1 (64-bit)
▪ Microsoft Server 2016
▪ Microsoft Windows 10

DeltaV Executive Portal Web View clients can be used with the following Windows operating systems*
▪ Microsoft Windows XP
▪ Microsoft Windows Vista
▪ Microsoft Windows 7
▪ Microsoft Windows 8
▪ Microsoft Windows 8 (Including Microsoft Surface Pro Tablet, Classic UI. Excludes Surface RT)
▪ Microsoft Windows 10

Operating systems must support Microsoft XBAP technology.

DeltaV Executive Portal Web View clients can be viewed using
▪ Microsoft Internet Explorer v8 and v9 (32 bit only)*
▪ Microsoft Internet Explorer v10** and v11**

* The Internet Explorer v8 and v9 64-bit are not supported.
** Enhanced Protected Mode is not supported on Internet Explorer v10 and v11.

Ordering Information

Description	Model Number
DeltaV Executive Portal – 1 DeltaV System Bundle Required DeltaV Executive Portal base components: One (1) Web View session, one (1) Engineering Seat, and one (1) DeltaV Data Connection Bundle. Select add-on licenses below.	VFEP1SYS
Up to 100 additional Web View Sessions Consumed when a Web View client is open in Internet Explorer. Multiple windows from the same user require multiple sessions. Counted on a concurrent basis.	
■ 1 Web View Session	VFEP1WV01
■ 5 Web View Sessions	VFEP1WV05
■ 10 Web View Sessions	VFEP1WV10
■ 25 Web View Sessions	VFEP1WV25
■ 50 Web View Sessions	VFEP1WV50
■ 100 Web View Sessions	VFEP1WV100
Up to 5 additional Engineering Seats Consumed only when Web Studio or Navigator is in use. Admin Center and User Manager do not consume a license. Counted on a concurrent basis.	
■ 1 Engineering Seat	VFEP1ES01
■ 2 Engineering Seats	VFEP1ES02
■ 5 Engineering Seats	VFEP1ES05
Up to 12 Additional Data Connections Consumed by each data connection to another data source, such as an OPC Server.	
■ 1 DeltaV Data Connection Bundle (includes 3 data connections – 1 Real-time Data Connection, 1 Historical Data Connection, and 1 DeltaV Historical Alarms and Events Data Connection)	VFEP1DVIS
■ 1 OPC Real-time Data Connection	VFEP1ISDA01
■ 5 OPC Real-time Data Connections	VFEP1ISDA05
■ 1 OPC Historical Data Connection	VFEP1ISHD01
■ 5 OPC Historical Data Connections	VFEP1ISHD05
■ 1 DeltaV Event Chronicle Historical Alarms and Events Connection	VFEP1ISEC01
■ 5 DeltaV Event Chronicle Historical Alarms and Events Connections	VFEP1ISEC05