

# Redefining the DCS... Again.

DeltaV™ v14 redefines how a distributed control system should operate, making a step change in usability, efficiency, and insight. Our team has obsessed over every little detail so we can make your job easier. Your operator user experience (UX) is better than before. It makes your distributed control system (DCS) more modular and more secure than ever. And now it opens amazing possibilities for plant mobility and IIoT enablement that future-proofs your investment. With DeltaV v14, you get the most intuitive, scalable, and easy-to-use DCS ever built.

## Cybersecurity

A top priority in every release, we continue to invest in our system hardening, defense-in-depth strategy and our newly top-to-bottom certified DCS.

### Certified Cybersecurity

Our first top-to-bottom control system to be certified ISASecure SSA Level 1 and IEC 62443 compliant.

DeltaV v14 will have the ISASecure System Security Assurance certification. Level 1 certification is comprised of security development lifecycle assurance to make sure our design and code practices meet the IEC62443 standards, and the functional security assessment to verify that the DeltaV security features and functions meet the minimum requirements for Level 1 certification. DeltaV system devices are tested to make sure they can withstand attacks as per the guidelines of the ISASecure SSA certification.



### Enhanced Domain Controller Protections... and Functions

The DeltaV Domain Controller can operate out of the Professional Plus workstation. The ProfessionalPlus can be used to perform process control functions and be connected to external networks without the concerns of exposing the Domain Controller to other areas of the plant. At the same time, the Domain Controllers can be isolated and protected against cyber-attacks in a simpler format.

### Continue Hardening of DeltaV

Cybersecurity is part of every release of DeltaV and it is not different in v14. DeltaV v14 gets full support to Microsoft Credential Guard and Device Guard which prevent credential theft and workstation compromise based on O/S built-in features. DeltaV v14 gets full support to Microsoft® Credential Guard and Device Guard which prevent credential theft and workstation compromise based on O/S built-in features.

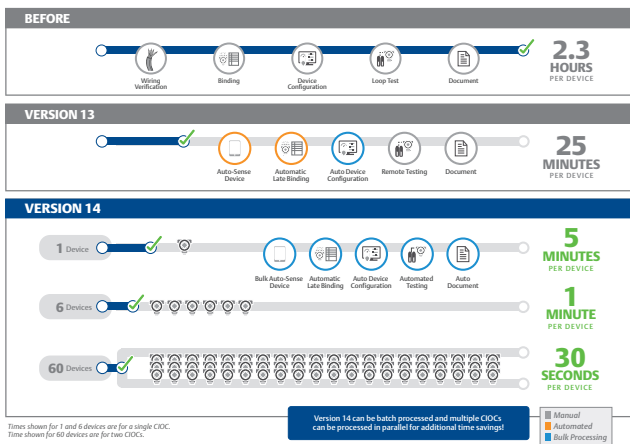


# Engineering

New features and applications focused on engineering productivity and performance.

## Commissioning Devices has never been easier – or faster.

Take device commissioning off the critical path – included in DeltaV v14 is a new commissioning application that allows you to manage the entire commissioning work flow for commissioning HART devices. There is also a new studio environment, called I/O Studio, that allows you to define device templates – imagine simply initiating a “one click” commissioning process – it’s that easy and that fast.

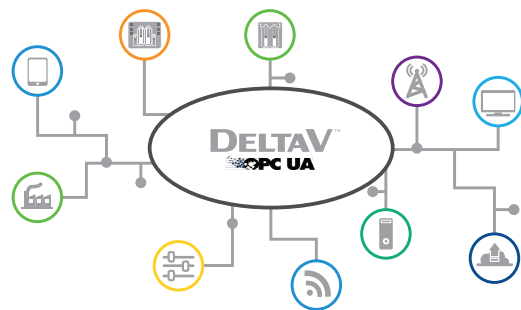


## More connected, more informed, more efficient with OPC UA.

DeltaV provides seamless integration for IIoT enabled devices by implementing OPC UA in our already comprehensive line of OPC servers. We will offer a native OPC UA server that runs on the PK Controller, Application stations and our EIOC card. This eliminates the need to use OPC Mirror when communicating directly to OPC UA servers.

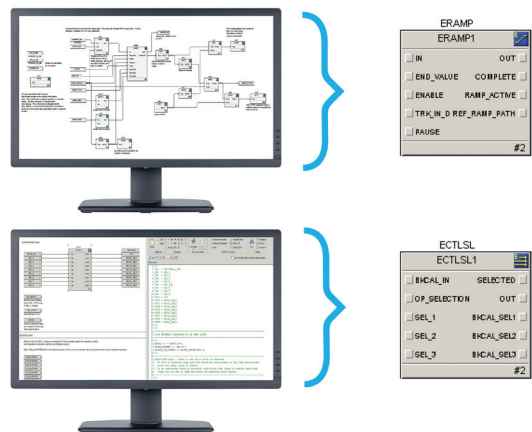
Benefits of OPC UA include:

- Providing information from the field to your enterprise
- Improved security and firewall friendly
- Large and scalable capacity
- Easy path to migrate from OPC Classic applications
- No need for OPC Mirror



## More Efficient Engineering with New Function Blocks

DeltaV v14 will be introducing two new function blocks, providing powerful and efficient functionality that is easy to create and maintain. The enhanced ramp and enhanced control selector function blocks were designed collaboratively with our project execution teams to replace dozens of function blocks and hundreds of lines of code required in typical custom, configured solutions. This results in functionality that meets all of your needs with reduced engineering time and controller load.



## Hardware Enhancements

Our new PK Controller brings industry-first features that deliver scalability and versatility. DeltaV v14 brings more I/O flexibility, a distributed solution for CHARMs and a refreshed look to our M-series hardware.

### PK Controller – Powerful Standalone. Easily Integrated.

The PK Controller brings ground-breaking innovation and technology that is powerful standalone for small units and easily integrates into a plant-wide DCS. With faster logic execution, built-in native Ethernet ports and native device protocols, the DeltaV PK Controller addresses a wide variety of applications and system sizes. The fit-for-purpose controller enables you to have a single native database and system allowing you to shorten project schedule and accommodate late changes.

- The newest controller in the DeltaV family
- A new way to automate large plants with skid units
- A fit-for-purpose method of using DeltaV in smaller control applications
- A simplified method of controlling Ethernet devices within your plant
- OPC UA and Ethernet protocols
- Works with all I/O (M-series, S-series, CIOCs, WIOCs, CSLS and SLS1508)
- Multiple sizes (100, 300, 750, 1500 DSTs) Combines control capabilities of controller with Ethernet device integration of EIOC



### New Design. Higher Performance. More Versatility.

The M-series is here to stay. To simplify the deployment of Electronic Marshalling and Wireless field devices in existing installations we have decided to allow CHARMs and Wireless devices to be assigned to M-series controllers. This enables you to utilize Wireless I/O and Electronic Marshalling without having to purchase an S-series controller.



**12 CHARM I/O Junction Box:** Now, you can take CHARMS closer to the field. Small enclosures with up to 12 CHARMs can be installed closer to field devices, further reducing wiring and overall installation costs. It joins Emerson's portfolio of pre-engineered solutions including the CHARM I/O Cabinets and CHARM I/O Junction Boxes to save engineering time and reduce risk.



## Operations Enhancements

Delivering a new operator interface enhancing the operations experience, and get a DeltaV process data directly to your mobile device.

### DeltaV™ Live – A modern, built-for-purpose operations experience that makes graphics design easy.

DeltaV Live provides a world-class operations experience, designed for today's high-performance operator requirements. The highly-customizable Human Machine Interface (HMI) is our first to natively support HTML5 - laying the foundation for universal, cross-platform graphics that are easy to design and configure.

A new graphics studio simplifies graphics configuration that increases productivity and removes reliance on scripting for common tasks. Experience single-click access to graphics, built-in hierarchical navigation, directories, and other applications.



## The Operations at Your Fingertips – Virtually Anywhere.

DeltaV Mobile enables you to view real-time process values, trends, alarms, historians, KPIs and other key data from your mobile device. Collaborative features make it easier to streamline workflows for managers and engineers to share critical information for enhanced business results.



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