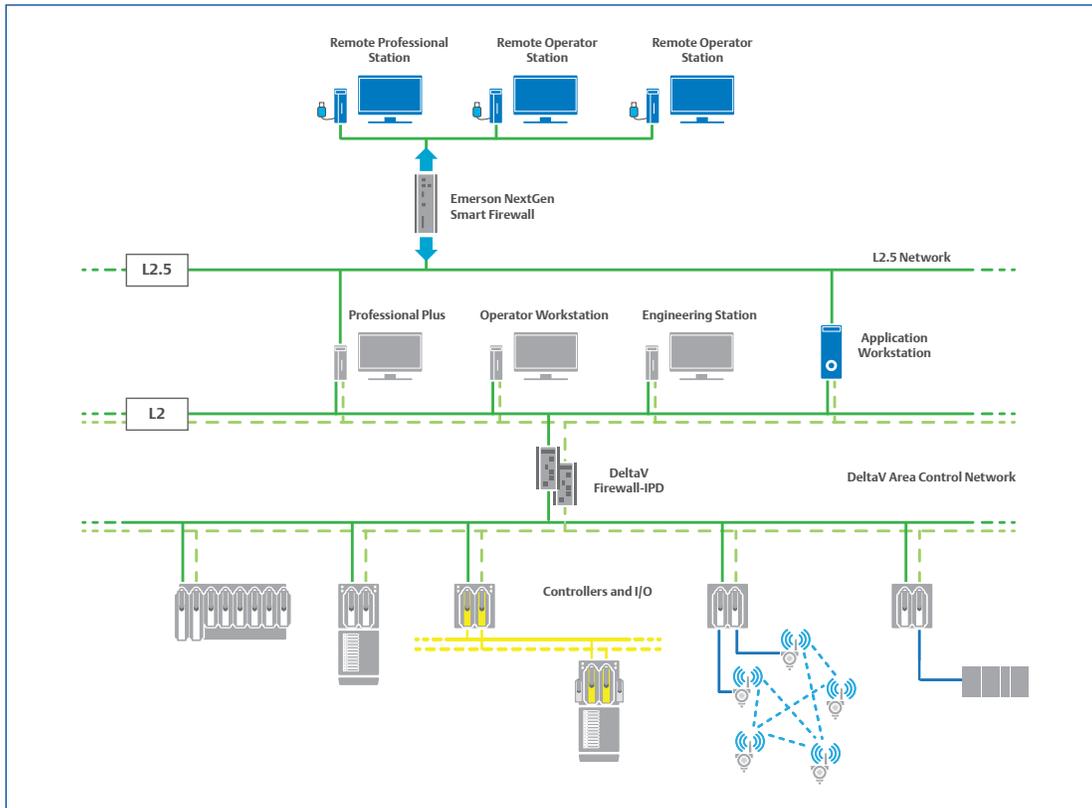# DeltaV™ Remote Access Service

With DeltaV™ Remote Access Service, you can locate operator and engineering workstations on a remote network.

- 24/7 Remote Operator Consoles

- Dedicated Remote Engineering Stations

- Extend Operations over lower-speed communications links

Introduction

DeltaV™ Remote Access Service (RAS) allows you to locate full-function DeltaV operator and engineering workstations in locations remote from the DeltaV system. Engineers can configure and troubleshoot DeltaV systems from their desktops or other remote locations with a direct LAN connection to the DeltaV system. Full Operator Interface capabilities are provided to workstations on the plant LAN or other remote locations—and over lower-speed communications such as satellite and microwave links.

With DeltaV RAS you can now set up the optimum network for both control and engineering to meet the specific needs of your facility and your process.

Benefits

24/7 Remote Operator Consoles. Operate and diagnose your process from locations outside your DeltaV control network: it's possible to manage and monitor your process from remote locations. From remote workstations you can even switch the workstation between multiple DeltaV systems of the same versions. Use dedicated operator workstations or load DeltaV software on an existing computer, and your operators can be located wherever they need to be and still manage your process.

Dedicated Remote Engineering Stations. Now you can configure and troubleshoot your system from your desktop. Just install DeltaV workstation software on your existing computer and all the configuration functions become available from your desktop over the network. Maintain your configuration, run diagnostics, build displays and help the operators troubleshoot the process without traveling out to the control room.

Extend Operations over lower-speed communications links. Connect a remote operator workstation over satellite or microwave access. DeltaV RAS provides the flexibility to operate your plant from your internal network or hundreds of kilometers away using standard communications hardware.

Product Description

DeltaV Remote Access Service (DeltaV RAS) runs on the ProfessionalPLUS Station or the Application Station. DeltaV RAS provides real-time operating and diagnostic data to remote workstations to support the DeltaV Operate operator interface and diagnostic applications.

With DeltaV RAS the ProfessionalPLUS Station or Application Station can serve a dedicated, redundant remote network and have a separate connection to the L2.5 network. This allows you to develop a robust, secure remote network for your operator consoles while still providing your engineers configuration functions from their desktops.

As the remote stations do not directly sit on the DeltaV system, any computers used for the remote stations must meet the specifications for DeltaV Operator Workstations.

Remote workstations are physically connected to the ProfessionalPLUS Station or Application Station through dedicated network card(s).

The ProfessionalPLUS RAS Server supplies operating data to up to two remote workstations while the Application Station RAS Server can supply operating data to 10 remote workstations. With up to seven Application Stations running DeltaV RAS, the system will support up to 72 remote stations. In case of a failure, the remote workstation can switch to a different RAS server to get operating data, without shutting down the interface.

Remote Stations can be used for engineering functions as well. When dedicating remote stations for engineering, the system will support up to 60 concurrent engineering applications open at one time. This is equivalent to approximately 10 concurrent engineering stations. This includes both local and remote engineering stations.

Remote Stations can be used for the same functions as local Operator, Professional and Maintenance Stations. From the remote workstations you can set up your system using the DeltaV Explorer, configure and troubleshoot controller modules using Control Studio and build operator displays and trend charts for use on other workstations. A remote, view-only workstation is created by setting up the DeltaV security for each user of the view-only workstation so they do not have security privileges to make operating or engineering changes.

DeltaV RAS servers supply operating data to remote workstations. To access additional functions, including engineering and history, a direct connection to the remote network is required. A direct connection to the remote network is needed from the ProfessionalPLUS for engineering functions. The remote workstations can also access the DeltaV Continuous Historian and batch functions on high bandwidth networks or via a direct connection to dedicated Application Stations that are co-located with the remote workstations.

Performance and Integrity

Performance of the remote workstation is highly dependent on the connection type. With a dedicated network (no connection to the L2.5 network or other external networks such as L3 or DMZ) the performance of all functions is comparable to a directly connected DeltaV workstation. For an L3/DMZ network, Satellite or other wireless communications, the performance can be affected by speed of communications, type of communications link, and network traffic.

Communications integrity can be impacted by high network traffic and poor communication connections. In wireless communications, atmospheric conditions can impact speed of response and loss of communications. A dedicated network without a connection to the L3/DMZ network provides a high level of integrity. An open network with general business network traffic, satellite, modem, microwave, wireless or other connections all provide a medium level of integrity.

Support

Full support will be provided for a dedicated remote network, all Emerson standard supplied computer, and software that is supplied by or certified by Emerson. For any communications problems on a non-dedicated network (e.g., L3/DMZ network, satellite, etc.), customer supplied computer, or software that has not been installed or certified by Emerson; Emerson will provide technical support to the best of its ability until it is determined that the issue is caused by conditions outside the control of Emerson or that the issue is caused by equipment supplied by others.

DeltaV Live is not supported with DeltaV Remote Access Services.

Ordering Information

Description	Model Number
DeltaV RAS for ProfessionalPLUS, 2 Remote Stations	VE2151S002
DeltaV RAS for Application Station, 5 Remote Stations	VE2237S005
DeltaV RAS for Application Station, 10 Remote Stations	VE2237S010

Related Products

- **Application Station Software Suite.** Integrate your DeltaV system with 3rd party systems and applications on a DeltaV workstation. Includes a scalable DeltaV Continuous Historian and DeltaV OPC Data Access server.

- **Maintenance Station Software Suite**. Centralized system and device maintenance, including device calibration, device and hardware alerts and diagnostics on a DeltaV workstation.

- **Operator Station Software Suite.** Centralized operations and diagnostics on a DeltaV workstation.

- **Professional Station Software Suite.** Centralized operations, engineering, and diagnostics on a DeltaV workstation.

- **ProfessionalPLUS Station Software Suite.** Centralized operations, engineering, configuration database, and diagnostics on a DeltaV workstation.

- **DeltaV Remote Client.** Remotely connect to your DeltaV system using thin-client technology.

Related Hardware Products

- **DeltaV Workstation Hardware.** Select from a variety of PC and server hardware, tested, and preloaded with DeltaV software.

Prerequisites

- RAS must be selected during the installation of the ProfessionalPLUS and/or Application Stations used as RAS servers.

- Remote workstations must be running a Microsoft O/S that is compatible with the installed version of DeltaV.

- DeltaV Live is not supported with DeltaV Remote Access Services.

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