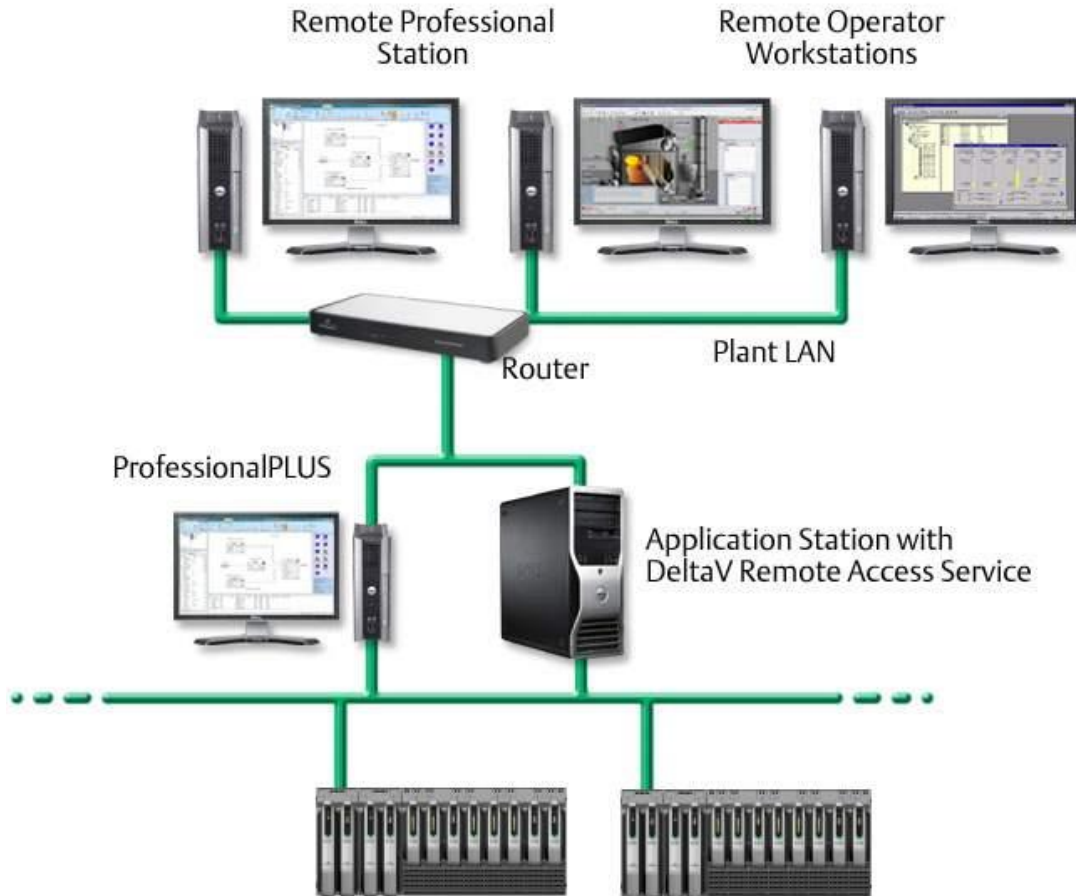


# DeltaV Remote Access Service



*With DeltaV Remote Access Service, you can locate operator and engineering workstations on your plant LAN.*

- 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: now 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—easy!

**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 plant LAN. 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 plant LAN 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 also have a separate connection to the plant LAN. 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 Control Studio Online, 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. In order to access additional functions, including engineering and history, a direct connection to the remote LAN is required. A direct connection to the remote LAN is needed from the ProfessionalPLUS for engineering functions. The remote workstations can also access the DeltaV Continuous Historian and batch functions through direct connections to the separate Application Stations running these applications.

### Performance and Integrity

Performance of the Remote Client is highly dependent on the connection type. With a dedicated Control LAN (no connection to the Plant LAN; the performance of all functions is comparable to a directly connected DeltaV workstation. For a Plant LAN, 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 control LAN without a connection to the plant LAN provides a high level of integrity. An open plant LAN with general business network traffic, satellite, modem, microwave, wireless or other non-LAN connections all provide a medium level of integrity.

### Support

Full support will be provided for a dedicate remote control LAN, all Emerson standard supplied computer, and software that is supplied by or certified by Emerson Process Management. For any communications problems on a non-dedicated Control LAN (e.g. PlantLAN, satellite, etc), customer supplied computer, or software that has not been installed or certified by Emerson Process Management; Emerson Process Management 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 Process Management or that the issue is caused by equipment supplied by others.

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.

To locate a sales office near you, visit our website at:  
[www.EmersonProcess.com/DeltaV](http://www.EmersonProcess.com/DeltaV)  
 Or call us at:  
 Asia Pacific: 65.777.8211  
 Europe, Middle East: 41.41.768.6111  
 North America, Latin America: +1 800.833.8314 or  
 +1 512.832.3774

For large power, water, and wastewater applications contact Power and Water Solutions at:  
[www.EmersonProcess-powerwater.com](http://www.EmersonProcess-powerwater.com)  
 Or call us at:  
 Asia Pacific: 65.777.8211  
 Europe, Middle East, Africa: 48.22.630.2443  
 North America, Latin America: +1 412.963.4000

© Emerson Process Management 2009. All rights reserved. For Emerson Process Management trademarks and service marks, go to:  
<http://www.emersonprocess.com/home/news/resources/marks.pdf>.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the design or specification of such products at any time without notice.

