

# iOps Workspace Solution

- Improve operator effectiveness and enable entire operations team to make better decisions faster
- Integrate multiple data sources across control and enterprise networks into a single workspace
- Create individualized operator experience that can be quickly adapted to changing conditions
- Improve control room ergonomics and reduce safety risks



*Emerson's iOps Workspace Solution combines unique visualization software with advanced technical furniture to create an optimal operating environment that reduces operator strain, control room clutter and monitor/keyboard/mouse sprawl.*

## Introduction

The name of the game in today's process environments is Do More With Less. Organizations are experiencing increased retirement, skilled worker shortages, difficulty attracting bright young talent and employees less willing to work in dull, dirty, dangerous and distant environments. As a result, today's operators are being asked to handle an increased number of control and safety systems, process and enterprise applications, remote operations, training simulations and security – all from a control room cluttered with multiple workstations, monitors, keyboards and mice. The mental and ergonomic strain is draining efficiency in the control room and adding safety risk.

What's needed is a simpler operator workspace that integrates multiple inputs from across the process and enterprise into a single console – one that can be tailored to the individual operator's preferences. A console that has one keyboard, one mouse and a flexible user interface that can be customized based on operating conditions.

## Benefits

**Improve operator effectiveness and enable entire operations team to make better decisions faster:** Emerson's iOps Workspace Solution is based on the principles of iOps, or integrated operations. iOps is the integration of people, work processes and technology that delivers safer and more financially optimized operations. iOps is enabled by the use of ubiquitous real time data, collaborative techniques and multiple sources of expertise across disciplines, organizations and geography.

By giving the operations team a safer, more advanced, more connected iOps environment, organizations can improve operator effectiveness while reducing fatigue and human error. And operators can handle more information with less physical and mental strain. That's a sure recipe for success.

**Integrate multiple data sources across control and enterprise networks into a single workspace:** Today’s operators are being required to monitor and manage an increasing number of applications that are spread out across various levels of multiple networks. Because of security requirements, many of these applications must be accessed from separate workstations, adding to the physical demands placed on the operator.

The iOps Workspace Solution changes all this by combining all input sources into a single, virtual workspace – integrating only at the presentation layer. This gives the operations team a common operational picture while providing secure access across multiple domains. Operators are physically separated from the back-end systems that host the content, keeping the systems compliant with governmental regulations and corporate requirements.



**Create individualized operator experience that can be quickly adapted to changing conditions:** Using unique features of the state-of-the-art visualization software, operators can create perspectives by arranging displays from multiple applications or signals into logical views. These perspectives in turn can be combined into layouts. Both perspectives and layouts can be saved for instant recall upon log in.

Layouts are generally set up with a work area for more active or important sources, and peripheral areas for monitoring or less active sources. With just one click, the operator can call any source into the work area – reducing navigation time and greatly improving the overview of any situation. The operator can then interact with this source while maintaining an overview of the other applications still present in the peripheral vision. This provides a more ergonomic and intuitive way of working, contributing to lower stress levels and better decision making.

**Improve control room ergonomics and reduce safety risks:** Control rooms are the hub of operations for multiple systems and applications, for everything from control to site surveillance. Many of these systems and applications require their own workstation, monitor, keyboard and mouse. The aggregated result is a control room cluttered with an abundance of heat-generating machines that the operator must tend to individually.



Even under normal operating conditions, interacting with all these systems can be exhausting, and time consuming. Now imagine the same scenario in an emergency situation, with the operator moving from one workstation to another, logging into each one, and copying to a notepad information that’s needed on a different computer across the room. Not exactly the most efficient, and safest, way to work.

The iOps Workspace Solution puts an end to this scenario. With a single workspace, keyboard and mouse, the operator can now monitor and manage multiple systems and applications without moving his chair or dealing with numerous keyboards and mice. Plus, the ergonomically designed console offers a sit-stand environment much more conducive to healthy working conditions.



## Service Description

The iOps Workspace Solution consists of hardware, software and services and comes in three standard configurations. It can also be customized for your specific needs.



The hardware includes:

- Advanced technical furniture from Vertiv and Evosite
  - Three configurations that can be purchased as is, or customized to your specifications
  - Height-adjustable electric sit-stand settings
  - Theater version also has adjustable electric forward-backward desk settings and synchronized large monitor height settings for maintaining position relative to desk height
  - Spacious, high-pressure laminate 24/7 desk work area
- Thin clients, servers and encoders from Barco®
  - Enterprise class administration server
  - Enterprise media server, capable of processing and redistributing up to 64 channels of streaming video
  - Small and large thin client appliances for HD and 4K UHD monitors
  - Signal encoders for processing input sources
  - Network routing switch; the Cisco 3650 switch is recommended
  - Rack mount kits for encoders and appliances

- Monitors from Dell and Planar
  - 24” and 27” Dell HD monitors, depending on configuration
  - 58” Planar 4K UHD monitor, depending on configuration

The software includes:

- State-of-the art visualization software from Barco, providing
  - Single “integrated at the glass” pixel space for viewing, monitoring and interacting with multiple sources and systems from across the process and enterprise
    - Supports up to 16 HD equivalents simultaneously
  - Customizable, intuitive user interface that integrates viewing and control over standard IP networks
  - Access to control and safety systems like DeltaV and DeltaV SIS, historians, IP cameras, information systems, closed circuit TV, IT networks and more

The services include:

- Project execution services from Emerson
- Installation and setup services from Emerson and/or Barco Certified OpSpace Partners (BCOPs)
- Software configuration services from BCOPs
- Annual software care coverage and maintenance services from BCOPs

As with any device used for control, it’s recommended this solution be used with appropriate backup.

To learn more, contact your local Emerson sales office or representative, or visit [www.emerson.com/en-us/contact-us](http://www.emerson.com/en-us/contact-us).



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