HMI of the Future with Experion Orion Console and Experion Collaboration Station
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Challenges in Today’s Control Rooms

- Fatigue
- Poor Ergonomics, Lighting & Acoustics
- Lack of Mobility
- Inefficient Graphics
- Inefficient Wall Screens
- Access to Engineering & Business Information
- Inefficient Collaboration
- Aging Technology
- Inefficient Collaboration
- Inefficient Graphics
- Inefficient Wall Screens
- Access to Engineering & Business Information
- Fatigue
Orion Console Benefits

• Operators can:
  • Handle a greater scope of responsibility
  • Assess and respond faster to abnormal situations
  • More alert, comfortable and reduced stress and fatigue
55” Ultra High Definition (4K) Monitors

- Flexible layouts of displays as well as related applications and video optimizing the operators situational awareness
- Yoking single action invokes set of process and application
- Integration with alarm management, advance control, operating limits operation monitoring application data
Integrating Non-Experion Systems

• Safeview managed Microsoft Remote Desktop Protocol (RPD) Window
  – Network connected applications
  – RemoteAPP minimizes load

• Picture in picture window via external device
  – Maintains complete network isolation

• Dedicated or KVM connected monitor, keyboard and mouse
Operator Touch Panel

- 23” industrially hardened multi-touch monitor
- Innovative Experion Station software
- Primary device for data entry, navigation, and monitoring
- Content can be customized
- Faster and more intuitive than a mouse/keyboard
Operator Touch Panel

- Navigation
- Yoking, Alarm Aggregates
- Tool Bar
- Control Zone
- Displays Menu
- User Configurable Graphic
- Alarm Zone
Sit-Stand Functionality

- Actuators raise/lower work surface, screens, keyboard, mouse
- Address Health Safety and Environment (HSE) concerns around long periods of sitting
Ambient Alarm Light

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- Address Health Safety and Environment (HSE) concerns around long periods of sitting
- Optional Honeywell or customer logo
Ergonomic Design

- Design based on ergonomic best practices
- Screen viewing angle
- Location of keyboard, mouse and touchpanel
Base Unit Options

- No single point of fail
  - Redundant screens, Operator Touch Panel, computer equipment
- Sit stand operation supported
Auxiliary Equipment Units

• Fully integrated with consoles appearance, cable access
• Panel mount hardwired switches, indicators, communications, monitors, keyboards
• Larger equipment local workstation computers, network switches in unit below worksurface
Center Auxiliary Equipment Unit

Center Curved

Center Straight
End Auxiliary Equipment Unit

Left

End Right
Auxiliary Equipment Unit Turret

- Single or double turret mounted on worksurface
- Cable access to Auxiliary Equipment Unit
Lower Installation and Maintenance Costs

- Effective cable management
- Future proof designed to accommodate screen, keyboard and computer technology changes
Experion Collaboration Station
Experion Collaboration Station

• Unleash your team's knowledge – wherever they are

  – Secure access to both control system and business network information from the same screen
  – Faster resolution of routine (daily, weekly, scheduled) and unplanned situations
  – Rapid communication establishment
  – Intuitive navigation, no training needed

• Big picture decision making. Fast.
What can Collaboration Station display?

- **Process automation displays**
  - Live process data
  - Alarms
  - Engineering/Diagnostic Tools
  - Rich graphics and trends
  - Video (DVM)

- **Business information**
  - Intuition
  - Work Orders
  - Documentation
  - etc

- **Enterprise communication**
  - Audio, Video
  - Desktop sharing, Contacts
How it works

• Station on L4 business network
  – Direct L4 connection to business data
  – Accesses Experion PKS data through proven secure eServer
  – Exactly the same HMIWeb displays as the operator sees in the control room – no editing or data conversion
  – Microsoft Lync for interaction with remote users
Use Cases

• Control Room
  – Troubleshoot without interrupting the operator
  – Effective remote operations
  – Daily meetings

• Meeting Room adjacent to control room
  – Collaborate with real control system data
  – Effective communication with remote experts

• Emergency Response Room

• Lobby or access point
Orion Console and Collaborate Station
Even better in real-life come and see them in the demo room

Thank You!