Whitepaper

WEYTEC SOLUTIONS

make complex workplaces smart.

Smart workplaces reduce complexity and foster workflow efficiency to enhance the performance of operators in command and control rooms.

1 Efficient and Ergonomic Control Rooms

High performance control rooms are efficient and ergonomic. The room is quiet and comfortable because no PCs are located there. Connectivity solutions are used to house all information sources in a secure systems room where they are efficiently maintained and cooled. Each desk features multiple monitors and a single high-tech keyboard with a built-in touch screen. The keyboard is used to switch intuitively and quickly between systems and screens. Operators always have the overview on a video wall installed at the front of the room.

Free Seating

Desk Layout

2 Collaboration and Free Seating

Operators need to share multiple systems and information sources. Collaboration solutions ensure that any operator can access and control any information system in the network, depending on his/her user rights profile. Operators often assume multiple roles which may change from day to day. Effective solutions ensure that operators can take on different roles and access all relevant systems and sources from any desk. Free seating means that operators can sit anywhere, collaborating within ad hoc teams according to the situation at hand.

3 Workplace Architecture

The solution connects all the systems to a dedicated IP-based KVM (keyboard, video, mouse) network which runs in parallel to client LANs. Computers are connected using standard hardware interfaces and cable infrastructure. Collaboration solutions can connect virtually any source, sub-system, third party system and peripheral device, regardless of its location or platform. Connectivity is completely non-intrusive, working without software installations and without regard to PC operating systems or hardware versions. Customers can add, delete, upgrade and replace systems at will without any changes to the workplace architecture.

4 User Experience with a Multifunctional Keyboard

In high stress environments, operators need to concentrate on core processes without the distraction of switching clumsily between different systems and screens. User experience solutions reduce the user interface to a single multifunctional device and create the ultimate cockpit environment. The integrated touch screen

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is used to move effortlessly between PCs and monitors, operate key applications, stream video, configure and activate presets. Customized keypads optimize workflows, intelligent sensors enhance security and save energy. Operators have personal snap-in key panels so that they can share desks but still enjoy hygienic working conditions. Numerous other value-added features include mouse switching and cross-computer clipboards.

smartTOUCH Keyboard

Always keep the overview

5   Video walls

Modern control rooms are incomplete without video walls. They need to be designed for 24/7 operations, fully integrated and directly controllable from any operator workplace with a multifunctional keyboard, using programmable presets or the touch screen to freely place, scale and move sources across the video wall landscape. The solution fully integrates the broadest variety of video sources such as TV tuners and video cameras.

Alarming

Business Continuity across sites

6   Incident Management

Incident management solutions are designed to streamline workflows during critical incidents and for routine tasks. Customized solutions capture events and trigger alarms upon reaching defined performance thresholds. Immediate attention is drawn to alarms that are visualized on video walls or broadcast over loudspeakers. Operators can respond quickly and correctly to events using customized keypads on their multifunctional keyboards. They can also control building technology from the comfort of their desks, opening and locking doors, raising and lowering window blinds and adjusting temperatures with their keyboard. In short, incident management solutions integrate and coordinate the interplay between third party applications and operators using a multifunctional keyboard.

7   Business Continuity

In times of terror attacks and natural catastrophes, command and control rooms are considered critical infrastructure that warrant extra protection. Business continuity solutions protect organizations against loss of premise, loss of staff and loss of IT resources. Disaster recovery solutions can be designed across multiple sites to avoid disruptions of service and ensure full performance, availability and functionality from any location.

8   Mini PCs

When space is limited but customers need high performance, low power PCs for demanding multi-screen environments, high end mini computers are the answer. Mini PCs drive up to seven screens supporting ultra-high 4K resolutions and can be housed in standard 19" chassis in the server room.

9   Workplace Recording

Capturing the situation operators experience at any given moment can be crucial. Workplace recording solutions record, archive, reconstruct and replay synchronized multimedia environments, including voice, video, screens and mouse movements. Workplace recording solutions satisfy legal requirements and are used for incident analysis, reporting and training purposes.

utraFLEX miniPCs

Centralized Server Room

10   In the Server Room

Server rooms are security and climate controlled spaces which centralize, house and efficiently cool computers. This protects IT assets from unauthorized physical access and eliminates tampering, theft and (optional) access to USB ports, reducing an organization's vulnerability to malware, stolen data, manipulated PCs and cyber-attacks. Installations, Moves, Adds and Changes are performed extremely efficiently and without outages at the desks.

11   Technical Furniture

High performance workplaces call for ergonomic technical furniture. Desks designed for 24/7 work environments include adjustable table tops which are raised and lowered to accommodate personal preferences. Rails and brackets support up to ten screens and a personal video wall. The construction integrates LAN infrastructure and cabling, and provides space for components which connect to remote computers and the WEYTEC distributionPLATFORM.

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