Making Complex Workplaces Smart:

Turnkey Solutions Providing Users With Real-Time Access To All Their Systems

WEYTEC is a leading supplier of KVM-over-IP solutions for control rooms in the aviation market — specifically for air traffic control (ATC) towers (with KVM being an abbreviation for "keyboard, video and mouse"). WEYTEC solutions are increasingly finding their way into ATC towers across Europe, Asia, and the U.S.

WEY Technology AG
Dorfstrasse 57
8103 Unterengstringen
Switzerland
+41 44 751 8989
www.weytec.com
info@weytec.com

WEY Technology Inc.
21 West 39th Street, 6th Floor
New York, NY 10018
+1 212 532 3299
info.us@weytec.com

JFK International Terminal 1

WEYTEC's U.S. subsidiary, WEY Technology Inc., deployed two WEYTEC distributionPLAT-FORMs at JFK International Airport, Terminal One, in the Ramp Tower for Ground Movement Control as well as in the Security Operation Center (SOC). In both locations, WEYTEC was tasked with modernizing the workplaces to more efficiently manage daily workloads despite the cramped quarters.

In both the Ramp Tower and SOC, operators manage and ever-increasing number of information sources. WEYTEC workplaces are clearly arranged and ergonomically optimized to maximize efficiency and minimize human error.

According to an IT Manager at Terminal One, "Improving workflows for the operators and streamlining processes is not a luxury, it's an important step to ensure the security of hundreds of thousands of guests as well as colleagues here at JFK, every day."

The solution was an intelligent KVM-over-IP switching to remove all the workstations from the control room working areas and house them in secure, space-saving racks where they are centrally maintained and efficiently cooled. All sources, screens, and videowalls are controlled in real-time with a single WEYTEC multifunctional keyboard.

SkySoft-ATM also supplied workplace recording at JFK Terminal One — fully integrated with the WEYTEC distributionPLAT-FORM solution. Read more about the SkySoft recording solution below.

ultraFLEX miniPCs

The Terminal One IT staff chose WEYTEC ultra-FLEX miniPCs — high performance industrial mini PCs — each of which can drive from one to seven UHD screens. With the size of a PC plug-in card, the ultraFLEX miniPCs are stored side-by-side in a standard 19" chassis including redundant PSU. Workplaces have thus been reduced to

> *Improvements for operators in the Tower and the SOC are substantial. The noise level coming from workstation fans under the desks is gone. The rooms are quiet. Heat emissions have been reduced by about 22,000 BTU in the Tower, and 15,000 in the SOC.*

the max, with only one multifunctional keyboard and mouse at each operator desk.

Improvements for operators in the Tower and the SOC are substantial. The noise level coming from workstation fans under the desks is gone. The rooms are quiet. Heat emissions have been reduced by about 22,000 BTU in the Tower, and 15,000 in the SOC.

Instead of operating three to four keyboards, each user now has a single keyboard that indicates the active workstation and features quick access buttons to the most commonly used applications. WEYTEC keyboards accommodate all VMS, access control, fire, and other alarm systems by interacting with all these applications without adding a software layer.

Irish Aviation Authority

The Irish Aviation Authority (IAA) operates three major airports in Ireland — in Dublin, Shannon, and Cork — as well as the North Atlantic Communications Centre in Ballygirreen, County Clare, where 50+ radio officers provide communication services for the North Atlantic air corridor. Irish airspace is a crucial gateway for 90 percent of all air traffic between Europe and North America.

WEY Technology Ltd, the United Kingdom subsidiary, deployed a world premiere solution for the aviation branch based upon the networking capabilities of the KVM-over-IP matrix solution, the WEYTEC distributionPLATFORM.

This platform makes it possible to connect, switch, and distribute virtually any system to any workplace in the network: securely, latency-free, and without performance loss, even over long distances. While the systems can be located anywhere in the network, the best location is a secure, air-conditioned system room — but even at the

desks is possible, since some sources are legacy systems that cannot be moved.

Business Continuity

Shannon and Dublin are fully functioning business continuity sites. If, in a disaster situation, employees at one location were to become suddenly and unpredictably unavailable, all systems and alarms can be seen and managed from the other location.

In short, operators in Dublin can see and control everything in Shannon, and vice versa. This unique WEYTEC solution enables the IAA to leverage staff expertise on a 24/365 basis across multiple sites.

A further benefit is that all system alarms are visually and acoustically projected onto videowalls. This ensures that alarms are never missed at any of the locations and enhances team collaboration for fault management procedures.

Commercial Airports Across Switzerland

And, back in WEYTEC's HQ country, KVM-over-IP switching and workplace optimization solutions permeate air traffic control towers at commercial airports across Switzerland. More than 20 controller positions have been outfitted with WEYTEC multifunctional keyboards and fully redundant IP switching between remoted sources.

Desks feature a single keyboard and mouse to manage all systems and sources in real-time. Mouse switching allow users to switch intuitively and easily between systems — also, when systems are in different networks, simply by dragging a mouse from one screen to another. Controllers are enthusiastic about the benefits of controlling multiple sources in an ergonomic ATC cockpit environment.

> *First-class components, state-of-the-art manufacturing techniques, and Swiss workmanship guarantee the flawless quality of WEYTEC products and solutions. Global orientation and local presence are the secrets of WEYTEC's success.*

Careful attention is paid to deployment of compatible solutions across airports, so ATC towers eventually can be networked. Redundancy also is integrated into the design, with dual power supplies in all the racks and a one-receiver-per-screen policy, to completely minimize the risk of outages.

WEYTEC smartVISUAL

Commercial airports also need videowalls in a variety of settings, from air traffic management and airport security to baggage claim operations. Large screen displays from WEYTEC are designed for 24/7/365 environments and combine superior picture quality with outstanding design.

Video walls are based on LED panels, LED rear-projection, or LCD screen technology. The smartVISUAL solution transforms an entire display environment into an integrated visual workspace with a boundless pixel area. Customers can freely place, scale, and arrange sources across any of their screens, at their desks, or on shared video walls.

Workplace Recording from SkySoft and WEYTEC

SkySoft is WEYTEC's strategic partner and the world market leader for ATC recording with the SkyRec BlackBox solution. The SkyRec BlackBox hardware is manufactured by WEYTEC in Switzerland. Although it can be deployed as a stand-alone solution, it is fully integrated in WEYTEC distributionPLATFORM solutions.

Recorded multimedia workplace data (keyboard, mouse, screen, audio,) can be quickly and intuitively retrieved, reconstructed, and replayed for incident analysis, evidence, training, and educational purposes.

WEYTEC Solutions and Professional Services Portfolio

WEY Solutions are tailored to client needs and are based upon a unique product portfolio. Control room solutions contain products from seven WEYTEC product houses including workplace optimization with WEYTEC's flagship smartTOUCH keyboard, KVM-over-IP collaboration and remotization, ultraFLEX miniPCs, smartVISUAL, workplace recording, and third-party system integration and management.

The world's smartest keyboard, the smartTOUCH, features customized keypads to interact directly with key applications as well as an interactive touch screen to drag and drop sources and screens across the desktop.

WEYTEC's value proposition also includes a full suite of customer-oriented professional services, from Project Management, Consulting, Product Development, and Production to Training, Installation, and Field Support.

The WEY Group

The WEY Group. a Swiss-based global information technology company, specializes in the transmission, control, distribution, and display of real-time data for trading floors and command and control rooms around the world. WEYTEC makes it possible to switch and distribute all information sources in any combination to an unlimited number of desks, video walls, and screens — in real time.

For over 30 years, WEYTEC has been a one-stop supplier that develops and manufactures virtually all its products and solutions in-house. First-class components, state-of-the-art manufacturing techniques, and Swiss workmanship guarantee the flawless quality of WEYTEC products and solutions. Global orientation and local presence are the secrets of WEYTEC's success.

WEY's international structure results from projects around the world and includes 11 entities in Switzerland, Italy, Germany, the United Kingdom, the U.S., India, Singapore, Taiwan, Australia, and Hong Kong. Through a network of local sales and service partners, WEYTEC is active in a total of 45 countries.

In New York City, WEY Technology Inc. has served financial services and control room marketing communities since 2003. ■

WEYTEC

Do it smart.

SMΔRT CONTROL ROOMS

for ATC, ATM and airport security

www.weytec.com