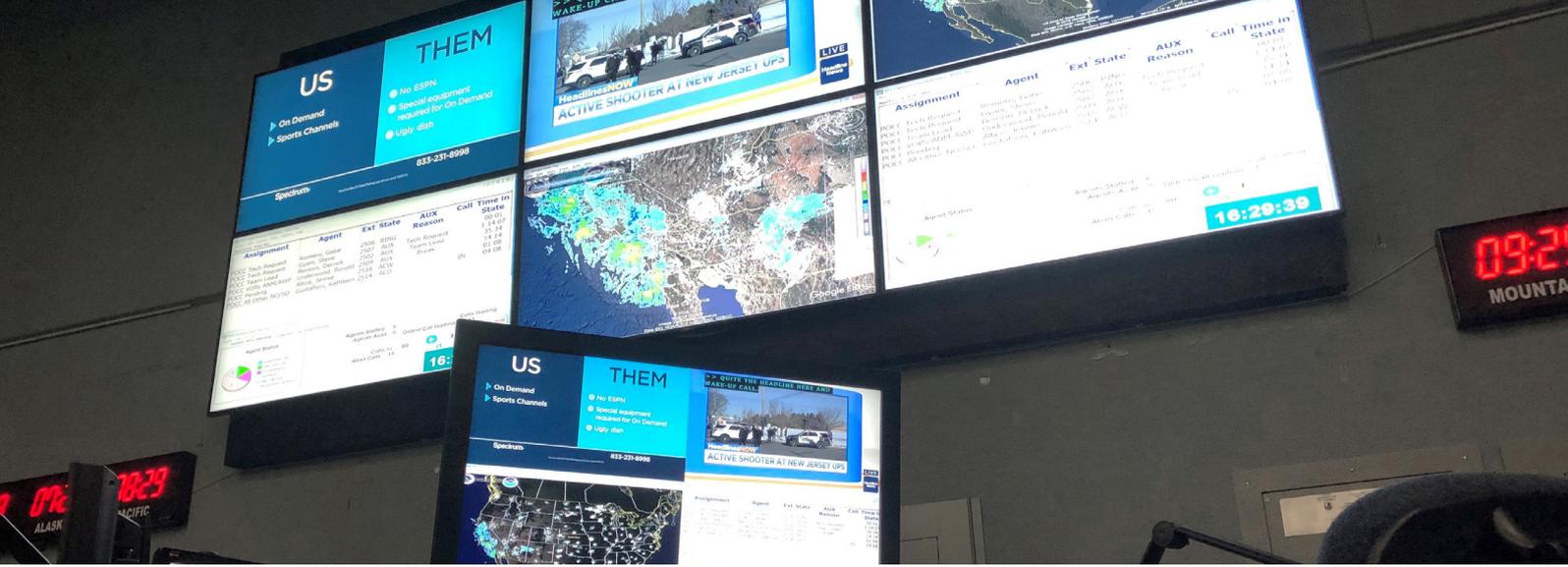WyreStorm

PACIFIC OPERATIONS CONTROL CENTER

COMMERCIAL CASE STUDY

AV Signal Distribution
Helps Reach New Heights
for Airspace Control

AV SIGNAL DISTRIBUTION HELPS REACH NEW HEIGHTS FOR AIRSPACE CONTROL

Client: Pacific Operations Control Center (POCC)
Location: San Diego CA
Market: RTOC
Project Completion: October 2018
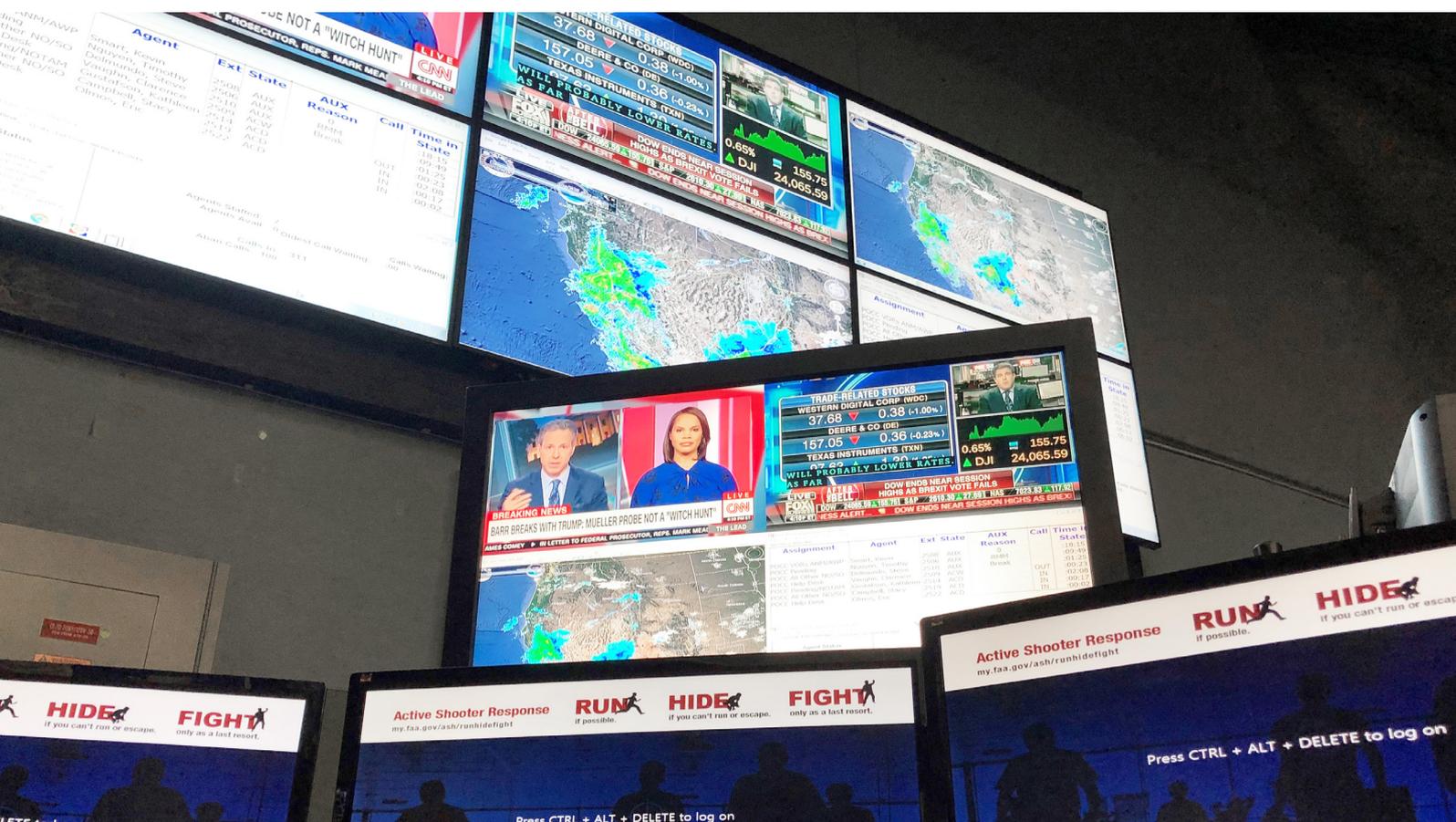**Integrator:** Federal Aviation Administration
WyreStorm Installed: NetworkHD 100/200 Series HD over 1GbE, NetworkHD Touch iPad control

Pacific Operations Control Center in San Diego, California is a Federal agency (part of the Federal Aviation Administration) that is responsible for maintaining the equipme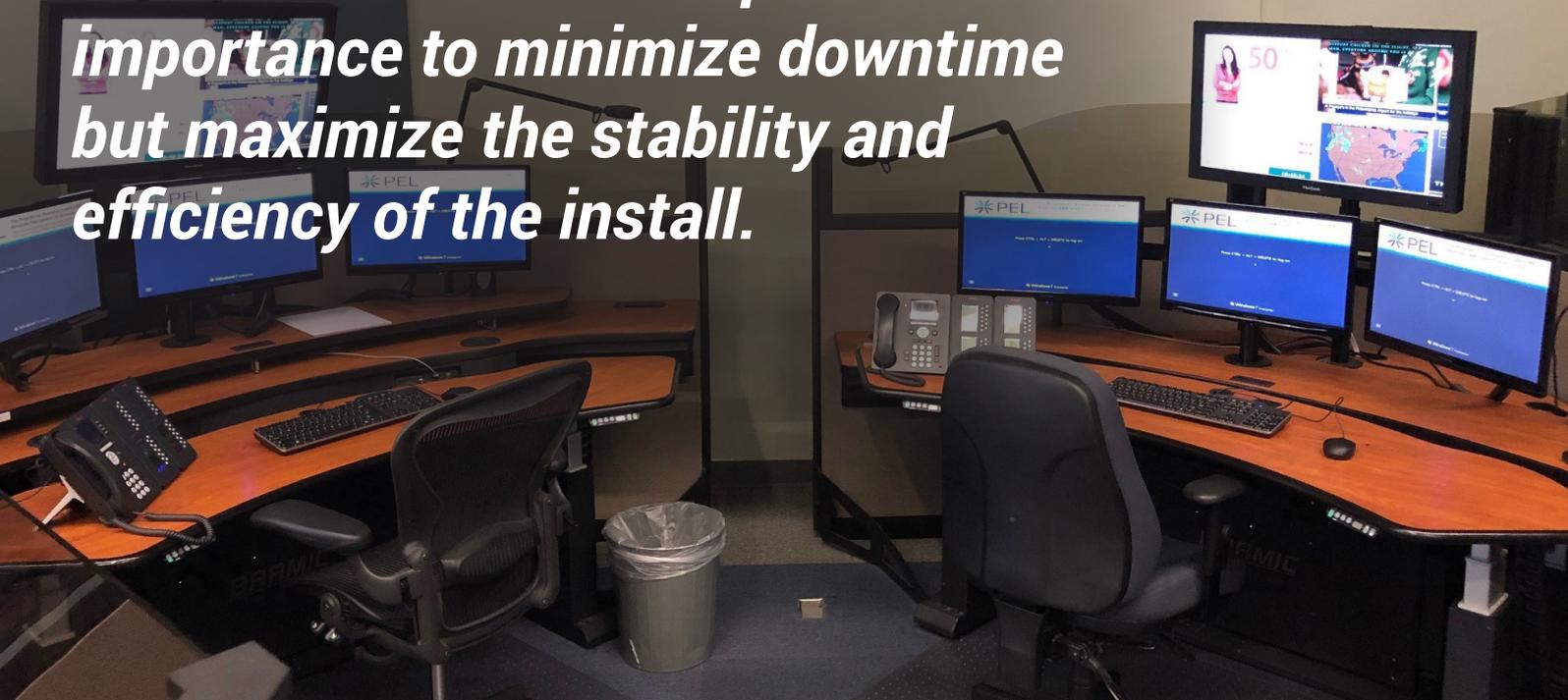nt and services in the NAS (National Airspace System). The unit is operational 24/7 and is responsible directly to the flying public, so having an AV solution that is reliable, scalable and easy to understand was of the utmost importance.

There were three main goals that had to be met with this installation. First, an aging video system that was beginning to fail and crucially needed to be replaced. In addition, an existing 2x2 video wall was due to be upgraded and furthermore, they needed a system that was easy to install and easy to maintain on site by the System Administrators at the POCC.

The FAA are a national authority who regulate all aspects of civil aviation including air traffic management. The POCC engaged with the FAA to determine and implement the most effective way to solve problems that could arise in a face-paced, airspace control center.

Due to the fast-paced nature of the POCC it was of upmost importance to minimize downtime but maximize the stability and efficiency of the install.

After consulting with Rob Maguire and Walter Boyle at the POCC, a solution using WyreStorm's NetworkHD 100/200 Series HD video over IP powered by H.264 technology was selected. As an award-winning electronics manufacturer of high-quality HD and 4K distribution and control products at the forefront of digital technology, WyreStorm arguably leads the industry as a HDBaseT specialist. However, over the past 4 years the company has rapidly become a leader in AV over IP technologies with its NetworkHD line offering solutions for pro AV applications using the low bandwidth H.264 platform.

Due to the fast-paced nature of the POCC it was of upmost importance to minimize downtime but maximize the stability and efficiency of the install. By using some of the current infrastructure and incorporating the NetworkHD AV over IP system along with the addition of two new Cisco SG3000-28PP Gigabit PoE switches, this allowed for a very fast and cost-efficient way to modernize a rock-solid system.

6x WyreStorm NetworkHD NHD-100-TX and NHD-200-TX encoders were installed to carry signals from 2 satellite TV boxes, 3 PC's and a 'media' input for DVD and streaming content and encode them to H.264 data streams. These streams are transmitted through the existing infrastructure to 42x WyreStorm NHD-210-RX and NHD-220-RX decoders.

At the center of the system is an impressive, modern 3x2 video wall that is the focus point for the operations floor. It allows to show a variety of content in real time and the ability to span multiple displays. In addition, the installation consists of 22x individual displays at each of the suites and 10x large displays in each of the staff offices.

The briefing room has also had its own AV injection with an impressive 2x2 video wall that is powered by 4x WyreStorm NetworkHD NHD-210-RX decoders.

With the high volume of output zones, a control solution was required to easily switch the content to the desired areas. By using the award-winning free NetworkHD Touch control app installed on an iPad device, control is as simple as drag 'n' drop which allowed staff to understand and use successfully within minutes. All inputs appear in 'real time' at the bottom of the tablets screen, allowing a user to drag their chosen input and drop it to any configured output zone, individual screen or pre-configured video wall layout.
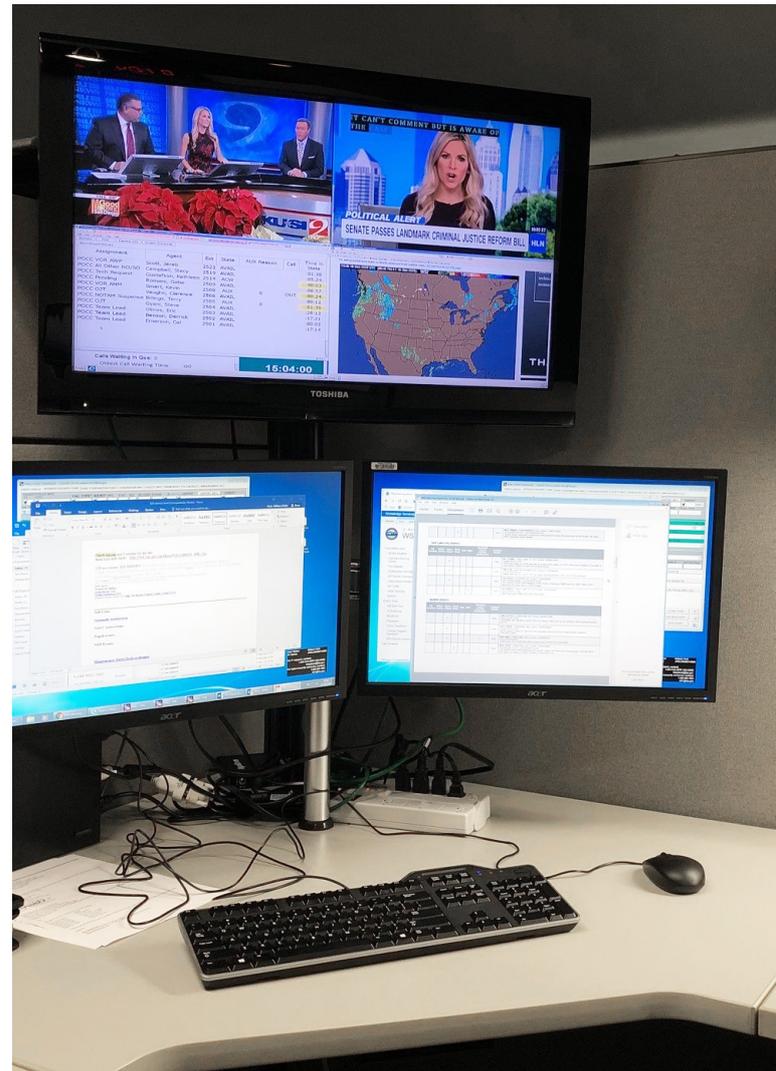
With full HD routed to the video wall as well as individual screens in every area of the facility, the install at Pacific Operations Control Center makes for a rock-solid AV solution.

On completion of the project, both Rob & Walter are overwhelmingly impressed with WyreStorm products, services and support. "WyreStorm is an excellent company. The design and support team are incredibly helpful and responsive. They helped us tremendously with the overall system design and checked in multiple times as installation began."

When asked if they plan to use WyreStorm again in the future, Rob and Walter proceeded to say; "Yes, we highly recommend WyreStorm for video distribution and have recommended it to our units within the FAA".

PACIFIC OPERATIONS CONTROL CENTER
AT A GLANCE

Video Wall - Operations Floor

6x NEC MultiSync® C551 LCD 55″ Value Large Format Displays

6x WyreStorm NetworkHD NHD-210-RX HD over IP decoders

Video Wall - Briefing Room

4x Dell E5515H LCD 55″ Large Format Displays

4x WyreStorm NetworkHD NHD-210-RX HD over IP decoders

Staff Offices

10x NEC MultiSync® C551 LCD 55″ Value Large Format Displays

10x WyreStorm NetworkHD NHD-220-RX HD over IP decoders
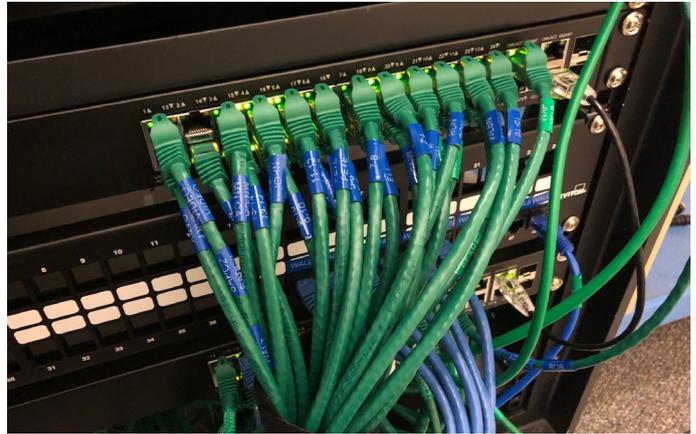
Individual Suites

22x ViewSonic CD3225 LCD monitors

22x WyreStorm NetworkHD NHD-220-RX HD over IP decoders

Sources

2x Dish Satellite Boxes

3x Personal Computers

1x Media Player

AV Distribution

1x WyreStorm NetworkHD NHD-000-CTL Controller

3x WyreStorm NetworkHD NHD-100-TX HD over IP encoders

3x WyreStorm NetworkHD NHD-200-TX HD over IP encoders

1x WyreStorm NetworkHD NHD-000-RACK

1x iPad Mini for NetworkHD Touch App Control

2x Cisco SG300-28MP 28-port Gigabit PoE+ Managed Switch

ABOUT THE INSTALLER

Rob Maguire & Walter Boyle are senior level System Administrators working for the Pacific Operations Control Center (FAA) in San Diego, CA. The POCC provides strategic and tactical management of the National Airspace System (NAS) infrastructure while serving as the focal point in maintaining an efficient and safe air transportation system for the flying public. Rob and Walter administer, develop, deliver and support information technology (IT) systems and services to this technical operations organization.

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