



Case Study: Government

Charlotte-Mecklenburg Police Department

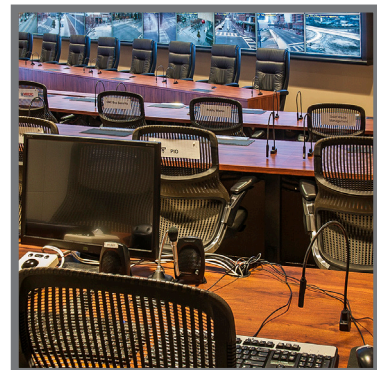
The Charlotte-Mecklenburg Police Department's Command Center Gets an AV Upgrade in Advance of 2012 Democratic National Convention

The Charlotte-Mecklenburg Police Department (CMPD) has a long history of excellence born out of a commitment to making Charlotte, North Carolina one of the safest large cities in the United States. Through a range of innovative crime prevention, community intervention and enforcement strategies, the CMPD is working to reduce crime, increase safety, and develop proactive, long-term solutions to crime problems and challenges faced by the more than 800,000 city and county residents within their jurisdiction.



From an integrator's perspective,
Biamp's product lines and software perfectly addressed
CMPD's unique audio/visual situation.

—Joe Semmelman, CTS
ClarkPowell Senior Account Representative



THE CHALLENGE

In advance of the 2012 presidential election, the city of Charlotte was chosen to host the Democratic National Convention. The event was the first nominating convention of a major party ever held in North Carolina, and it was projected to draw over 35,000 delegates and visitors. To ensure that the appropriate level of security, surveillance, and operations communications were in place, CMPD needed a complete audio/video solution that evenly distributed sound across the Command Center for weekly briefings and camera monitoring. The Command Center also required a full mix-minus design for voice reinforcement.

Though designed specifically for the Democratic National Convention, the new CMPD Command Center needed to be functional and appropriate for everyday meeting and presentation use beyond the event.



The new system is easy to use and incredibly reliable — allowing us to really focus on keeping our community safe.

—Major Stephen Willis
Charlotte-Mecklenburg Police Department



THE SOLUTION

While Dean Harris of Integrated Design Solutions acted as the consultant and system integrator, ClarkPowell of Winston-Salem, North Carolina designed and built the Command Center with two adjoining conference rooms—one for the chief of police and the other for general meeting purposes. An Audia® system was chosen as the solution to CMPD's challenge because it provided the ability to customize the I/O configuration and scale to the appropriate size for the room, while simultaneously allowing for future flexibility in the system.

Using the family of Audia products to their fullest, ClarkPowell tied all three rooms together with one large digital matrix switching system, with video conferencing capabilities in each room. The Command Center has a 3x10 (0.9m x 3m) video wall made up of ultra-slim bezel LCD displays and is equipped with 28 microphones specifically designed for use with true mix-minus audio systems.



SYSTEM SPECIFICS

Components:

- (3) AudiaFLEX
- (3) IP-2 Dual-Channel Mic/Line input Cards
- (16) AEC-2HD Dual-Channel Wideband Acoustic Echo Cancellation Input Cards
- (1) TI-2 Dual-Channel Telephone Interface Card
- (6) OP-2e Dual-Channel Mic/Line Output Cards

While simultaneously allowing for future flexibility within the system, this dynamic AudiaFLEX installation allows for a customizable I/O configuration and appropriate scale for the size of the rooms. With up to 24 inputs and outputs available on each AudiaFLEX chassis, CMPD will be able to easily scale their system as their future growth requires.

FLEXIBILITY AND CONTROL ENABLE SUCCESS

Because ClarkPowell designed a solution comprised entirely of Audia products, the system was quicker and easier to install than a system with components from multiple manufacturers. The greatest strengths of the installation were the sheer flexibility and scalability of the solution. CMPD will regularly program the system for a variety of different functions that use mixed-minus voice lift. Meeting the needs of the large space and multi-function environment was critical to making this installation affordable and flexible over the long term.

ABOUT BIAMP SYSTEMS

Biamp Systems is a leading provider of innovative, networked media systems that power the world's most sophisticated audio/video installations. The company is recognized worldwide for delivering high-quality products and backing each product with a commitment to exceptional customer service.

The award-winning Biamp product suite includes the Tesira® media system for digital audio networking, Audia® Digital Audio Platform, Nexia® digital signal processors, Sona™ AEC technology and Vocia® Networked Public Address and Voice Evacuation System. Each has its own specific feature set that can be customized and integrated in a wide range of applications, including corporate boardrooms, conference centers, performing arts venues, courtrooms, hospitals, transportation hubs, campuses and multi-building facilities.

Founded in 1976, Biamp is headquartered in Beaverton, Oregon, USA, with additional engineering operations in Brisbane, Australia. For more information on Biamp, please visit www.biamp.com.

“Thanks to ClarkPowell and Biamp, we have a multi-purpose audio solution that will last us a very long time.”

-Major Stephen Willis
Charlotte-Mecklenburg Police Department

