



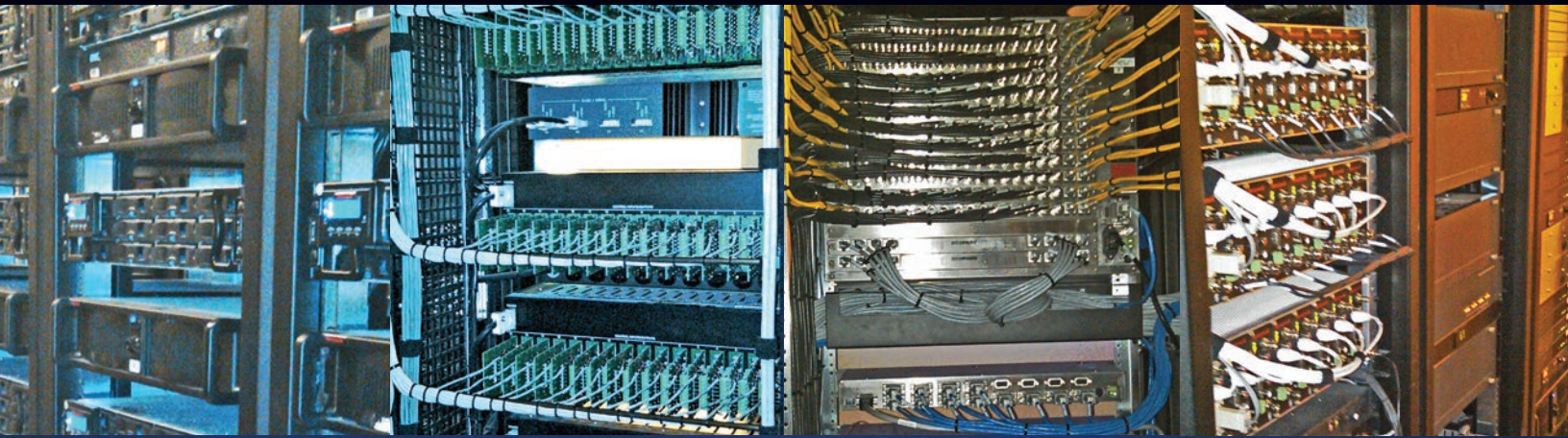
## Site

Located between the Bellagio and Monte Carlo Resorts on the famed Las Vegas Strip, the City Center complex was one of the largest privately funded construction projects completed in U.S. history. The 67 acre complex features three non-gaming luxury hotels: the Mandarin Oriental, the Harmon Hotel and the Vdara Hotel & Spa, as well as the Veer Towers residential buildings and Crystals, a 500,000 square-foot retail and entertainment district. The centerpiece of the complex is the 61-story, 4,004-room Aria Resort & Casino, with 10 bars and lounges and a 150,000 square foot gaming space featuring 145 table games and 1,940 slot machines. The complex additionally includes a 6,900 car parking garage and several support structures including Clark County Fire Station #32. The City Center complex is a joint venture between the MGM Mirage™ and Infinity World Development Corporation.

## Challenge

The first challenge was to select a system integrator that presented the best value offering, including technical competence, design capabilities, quality control procedures, technical certifications, project management processes and logistics planning. NAV was their choice due to the scope of the project; working directly for the owner rather than under the General Contractor and coordinating several sub-contractors. MGM Mirage, as a collection of resort-casinos, residential living and retail development spaces, needed a standardized surveillance platform for all MGM properties to ensure best quality performance and sophisticated functionality and to protect their technology investments. The measurement criteria they established for the standardized platform included system functionality, product reliability, gaming code compliance and scalability. NAV directed selection of the enterprise system which would be implemented first at the City Center complex.





## *Solution*

NAV collaborated with Honeywell to provide products for evaluation, along with a custom-designed hybrid solution which included a combination of over 3,700 Honeywell video and Grandeye 360° cameras, multiple matrix systems spread across seven different head-end locations with monitoring in six separate monitor rooms, six different access control rooms tying together approximately 300 controlled doors, management control, and a fiber backbone tying all properties together.

To ensure project efficiency, NAV developed a local team led by five different project managers. All racks, enclosures and integrated systems were built at NAV's local facility in a controlled environment. This process allowed NAV to conduct extensive testing and quality control prior to delivering the equipment and kept on-site rework to a minimum. It also helped to ensure that the build was consistent with the technical specification and that the commissioning was executed to NAV operation standards while meeting a very tight timeline.

The hybrid camera selections provided management with the best of both technologies, and the Enterprise system provided versatile features such as simultaneous record, playback and viewing of live or recorded material, internal and external redundancy, and back-up and advanced networking capabilities. NAV's design/build solution met all of the criteria established by MGM Mirage and in doing so, utilized the technology required to help make the security and surveillance operation more efficient. The project was delivered on time and on budget for the casino opening.

