Managing Large-Scale Security Systems in a Gaming Environment

Casino security teams are tasked with deploying and managing complex security systems that conform to strict gaming industry regulations and policies, provide evidence for fraud and criminal events, and maintain a safe environment for personnel and customers alike. In this extremely dynamic environment, managing complexity and costs must be carefully balanced with ensuring uptime of operations on a round-the-clock basis.

In addition, today’s camera resolution, retention, and uptime requirements often strain the video surveillance infrastructure. Support for higher density camera placement and real-time analytics to improve the customer and VIP experience, plus reduce risk and liability, place higher demands on the supporting IT infrastructure.

Ensuring Continuous Gaming Operations

Suspended gaming operations equate directly to lost revenue for casinos. Video surveillance plays a critical role in ensuring the uptime of pit and table operations and generation of the associated revenue. Video management systems (VMS), business services, and surveillance and security operations also protect gaming and hospitality complexes against critical liabilities that can result from data loss and image degradation.

SOLUTION BENEFITS

- **Manage Video Over its Lifecycle**
  Quantum provides a comprehensive portfolio of solutions matched to how video surveillance data needs to be managed and enriched over its lifecycle so that the optimum performance, resiliency, economics, and access time is achieved for that point in its lifecycle.

- **Reduced Risks**
  Quantum technologies ensure security and safety are never compromised due to lost access to critical video, hardware failures disrupting video recording and playback, impact to the integrity of captured video, or unauthorized access to video and other data.

- **Value for Your Investment**
  Quantum employs latest-generation industry-standard hardware and innovative software-based intelligence for longer lifecycles and the best return on investment that helps gaming and hospitality complexes stay within budget and achieve meaningful return on every dollar spent.

- **World-Class Service and Support**
  Our customers benefit from world-class pre- and post-sale services provided by our global support organization, leveraging the experience gained from servicing tens of thousands of customers around the globe.
Providing a Solid Infrastructure Foundation for Smart Casinos

Whether you're looking for an entry-level network video recorder (NVR) for a small number of surveillance cameras, a large-scale server and shared storage deployment for thousands of cameras, or a long-term archive solution to preserve critical video over the years, Quantum employs the latest in software-based intelligence and hardware technology to provide the best solution for your gaming safety and operational needs.

**VS-HCI Series.** Reliable video surveillance is critical to the operations of a casino or entertainment complex. Quantum’s VS-HCI Series designed for mission-critical environments eliminates downtime, data loss or dropped video frames, meeting the demands for 24x7x365 security operations with advanced system-level resilience, predictive health monitoring, and non-disruptive updates and system expansion.

**VS-NVR Series.** For scenarios where a simple NVR is appropriate, the Quantum VS-NVR Series offers a range of form factors, storage capacities, and performance based on the latest generation server hardware that are both easy to deploy and maintain. This includes an ultra-dense 4U 60-bay rack mount server for recording and retaining footage from hundreds of cameras for months or years.

**VS-A Series.** As casinos turn to analytics software to optimize both security and operational efficiency, Quantum’s VS-A Series provides a platform optimized for the processing requirements of today’s video analytics applications.
ActiveScale™ Object Storage and Scalar® Tape Libraries. Video retention times continue to get longer due to regulatory compliance requirements, increasing storage capacity requirements and leading to increased cost and complexity. Quantum has solutions optimized for automatically archiving video data in object storage, tape libraries, and the public cloud plus software tools that automate the movement of cold video for long-term retention and protect it from cyber and ransomware attacks.

Virtual SOC. For the casino’s Security Operations Center (SOC), the Quantum Virtual Security Operations Center delivers fully secure video streams and other security applications to any device, anytime, anywhere and overcomes the costs and complexity of managing individual physical desktops and workstations through a unified infrastructure of compute, storage and virtual desktop technology.

Quantum’s Infrastructure Portfolio: Optimized for Surveillance and Physical Security

For over 40 years, Quantum has been a leader in high-speed video capture, storage, and processing. Our global customers include the world’s largest gaming and entertainment complexes, airports, cities, transit systems, education institutions, and government agencies. By using software-based intelligence and automation, the latest industry-standard hardware, and our years of expertise in video ingest, storage, and management we’ve built a portfolio of solutions optimized for video surveillance and physical security that deliver the resilience, performance, scalability, and economics required in these unique environments.

Solutions for Gaming and Hospitality

VS-NVR Series
Cost-effective network video recording servers.

VS-HCI Series
Hyperconverged infrastructure for video recording, storage, and hosting other applications.

VS-A Series
Servers optimized for video analytics, access control, management, and more.

Shared and Archive Storage
Scale-out file storage, object storage, tape, and cloud.

Quantum StorNext®
Video Management Platform reduces storage and protection costs and manages video over its lifecycle using automated policies.

Quantum Acuity
Hyperconverged Infrastructure Software Platform in VS-HCI Series turns industry-standard servers into a resilient, scalable system of compute and storage optimized for video.

Quantum Cloud-based Analytics
The core of Quantum Distributed Cloud Services enables system admins and technical support personnel to monitor and proactively assess system health remotely.
Solutions for Gaming and Hospitality

Key Advantages

• Complete portfolio to meet the specific requirements of video at all stages of its lifecycle and environments from small to large and from remote to centralized locations.

• Performance, resilience, and density designed for demanding video surveillance, IoT, and security applications, including the latest in sensors, cameras, analytics, and incident reporting.

• Simple, centralized management of systems distributed around the gaming environment without specialized IT skills.

• Flexible scalability allows for growth without interruption as new security, video, and IT functions are deployed.

• Industry-leading archive solutions to cost-effectively address the requirements for long-term video retention.

Deep Technology Partnerships

Quantum has a long history of partnering with the leading video management, analytics, access control, and camera companies to jointly test, validate, and support mission-critical security solutions. You can deploy with confidence knowing the Quantum product you select has been validated as a total solution.

For more information about our video surveillance solutions, visit: www.quantum.com/surveillance

Quantum technology, software, and services provide the solutions that today’s organizations need to make video and other unstructured data smarter—so their data works for them and not the other way around. With over 40 years of innovation, Quantum’s end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.

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