

D-Link / Honeywell Switching and Security Solution

Solution Brief
April, 2007

Abstract

D-Link and Honeywell offer unique IP surveillance and security solutions based on proven switching technology and field-tested implementations across the globe. We combine professional services expertise, state-of-the-art networking equipment and extensive experience with high-traffic, multi-IP or analog camera implementations.

Honeywell

D-Link[®]
Building Networks for People

Demand for High-Quality, Reliable Video Drives IP Surveillance Initiatives

As video technology improves and demand for high-quality, fast frame-rate video escalates, more and more organizations are launching IP video surveillance initiatives. The technology is available, however, optimal, reliable infrastructure solutions have been difficult to come by.

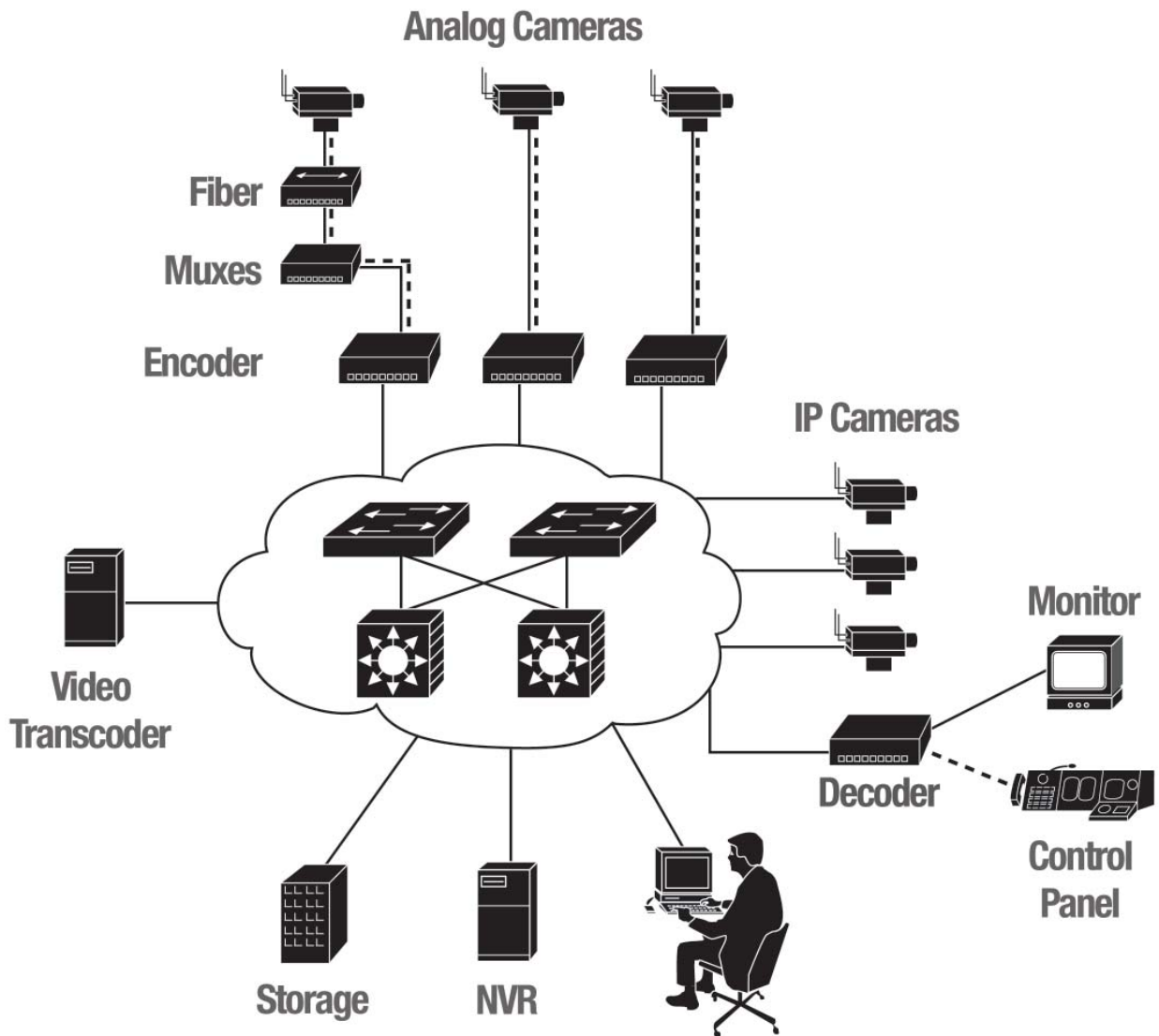
What's needed is a robust, scalable video surveillance architecture that can handle performance and reliability requirements while efficiently distributing video to multiple servers and end users.

Each component of the architecture – cameras, converters, encoders, switches, cabling, disk arrays and management software – needs to work in concert to deliver consistently reliable results.

Implementation needs to be fast, and the system has to work right the first time. Most organizations that rely on video have no room for error when transitioning systems.

Honeywell-D-Link Advantages

- Tested and proven in a wide range of challenging environments
- Reliable - 99.999% uptime
- Simultaneous delivery of multiple live streams to multiple clients without significant bandwidth spikes
- Replace aging, labor-intensive VHS systems
- Eliminate manual review and back-up processes
- Scalable – easily and flexibly add equipment, users and performance upgrades
- Consistency and proven reliability
- Comprehensive support – from the edge of the network to the core



Multicast based IP security solution

Honeywell and D-Link Offer Ideal Solution

Standardized Multicasting Minimizes Costs

D-Link and Honeywell designed a turnkey IP Surveillance solution for these kinds of scenarios. We work together, using Honeywell's security and surveillance design experience and D-Link's network routing products and expertise.

Large enterprises across the globe – from government institutions and high-security venues to casinos and college campuses – use our proven system to capture thousands of streams of multicast video – with 99.999% uptime.

We devised a video multicasting method for failing over video encoders to a standby server in the event of planned or unplanned server maintenance issues. Multicast allows video to seamlessly switch to the standby servers.

The D-Link-Honeywell solution solves the multi-stream management problem without over-engineering the infrastructure. It's an elegant, industry-standard solution that minimizes costs and is easy to implement.

End-to-End Solution Delivers Consistency and Flexibility

The D-Link / Honeywell IP Video Surveillance and Security architecture is an end-to-end solution that delivers unparalleled video quality and network performance. It's essentially a hardware-software-professional services solution that combines CCTV or IP cameras, encoders/decoders, digital output and a robust D-Link switching infrastructure based on the xStack line of switches.

The solution supports thousands of streams of video at varying quality and frame rates. For example, the system can provide 30 frames per second for 30 days on one server and 5 fps for 120 days on another. One customer manages 1,536 streams of real-time, high resolution video. The system delivers 6,144 Mbps of video and data to more than 40 servers and 20 clients.

The D-Link / Honeywell solution is easily expandable, and enables organizations to standardize on one platform and support thousands of high-quality cameras.

One Switch for Multi-Site Architectures

By standardizing on one switch – like the D-Link xStack DGS-3324SR – organizations can simplify implementation and flexibly scale the solution as needs require. While mixing multiple switches introduces complexity and limits performance capability, a single-platform solution allows us to provide consistent results, easily modify the architecture and simplify ordering and design processes.

Our experience shows that a standardized approach is best, and the D-Link switches work optimally with Honeywell's highest end solutions. They easily support complex enterprise infrastructures and/or standalone networks.

Performance and Value

Honeywell manages tens of thousands of cameras worldwide with D-Link Layer 3 multicast switches. They chose D-Link because of performance and reliability advantages. However, pricing played a role, as well. Switches with comparable design, performance and features often cost 50% to 100% more. The savings helps them pass along compelling value to their customers while providing state-of-the-art equipment and field-tested success.

Support

Honeywell and D-Link provide comprehensive support and training to ensure implementation and usability success. Both organizations offer worldwide support, professional services and training for IT settings, as well as security organizations that are not heavily focused on IT infrastructures. We have extensive experience launching solutions for a variety of organizational structures.

For more information about how D-Link and Honeywell can help you launch a successful surveillance system or upgrade an existing system, please contact us.

You can reach D-Link at 1-888-XSTACK1, or visit www.dlink.com

You can reach Honeywell at 1-800-796-CCTV, or visit www.honeywellvideo.com