



## IP Video Surveillance

### Solution Summary

#### At A Glance

- This paper demonstrates a high performance IP video surveillance solution that can be deployed to address major challenges affecting customers today
- The solution delivers a scalable and reliable network infrastructure with proven interoperability and optimized performance
- It's ideal for many industries such as retail, transportation and logistics, banking, manufacturing, education, government, city surveillance and more

#### Benefits

- Proven interoperability that simplifies the process of integrating hardware and software from multiple vendors
- Optimized performance that results in a reduction in bandwidth requirements
- High-end scalable solution from front to back
- Superior reliability

#### The Gear List

- [PROMISE Vess<sup>®</sup> A2000 Series](#)
- [Samsung Techwin<sup>®</sup> WiseNet III HD Cameras](#)
- [Milestone XProtect<sup>®</sup> Enterprise](#)
- [Allied Telesis<sup>™</sup> PoE Switch](#)
- [Brand-Rex<sup>®</sup> High Performance 10G Cabling](#)
- [Eaton<sup>®</sup> UPS](#)

### Streamlining the Deployment of IP Video Surveillance Solutions



*A Proof of Concept (PoC) of a high-performance IP video surveillance solution that simplifies the integration process for a scalable, reliable infrastructure for mid-size to large scale deployments.*

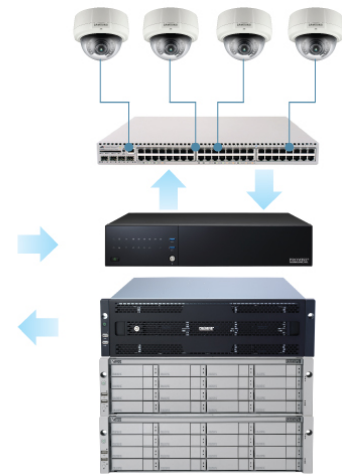
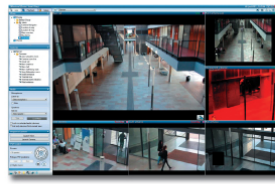
#### The Growing Importance of Video Surveillance

A growing number of organizations and companies around the world require high-performing video surveillance solutions to protect their assets and interests from ever-evolving security threats. Governments, schools, corporations and small-to-medium businesses (SMBs) require solutions that will meet their security needs today and into the future and they need to achieve this in a solution that will maximize their investment while delivering reliable performance with advanced features that are easy to use.

This comes with a host of challenges when dealing with a bewildering array of surveillance packages that include analog and digital video recorders (DVR) or Internet Protocol (IP) Network Video Recorders (NVR) with advanced high-definition cameras and video management software (VMS). Finding the right solution that best meets a customer's needs can appear to be a daunting task.

That is why PROMISE Technology created the PROMISE Experience Center in Son, the Netherlands. The IP Video Surveillance Proof of Concept (PoC) is a joint initiative from the world's leading hardware and software companies in the video surveillance industry with the aim to bring the most optimized video surveillance solution to end customers at a cost-effective price point. The PoC demonstrates a high-performance IP video surveillance platform that integrates optimized storage appliances, advanced HD cameras, industry leading VMS, switches, cables and power supplies.

# PROMISE Experience Center IP Video Surveillance



## Learn More:

### PROMISE Vess<sup>®</sup> A2000 Series

- Delivers reliable performance for surveillance video recording
- A2200 is a 2U-6 bay rackmount chassis ideal for 32-64 cameras & A2600 is a 3U-16 bay rackmount chassis designed for 64-128 cameras
- Vess A2000 reduces deployment costs and complexity
- Enterprise-grade PROMISE RAID engine delivers robust error-handling with non-stop recording capability

Learn more:

[www.promise.com/VessA2000](http://www.promise.com/VessA2000)

### Samsung Techwin<sup>®</sup> IP Network Camera

2 Megapixels Full HD Network Camera (SND-6083 & SND-6084)

- WiseNet III Technology by Samsung
- 60fps @ 1920x1080
- Day & Night enhanced DIS, defog
- Samsung Super Light Enhancer
- Wide Dynamic Range
- Enhanced Digital Image Stabilization

Learn more:

[www.samsungtechwin.com](http://www.samsungtechwin.com)

### Milestone XProtect<sup>®</sup> Enterprise 8.1

- Leading open platform IP video management software
- Integration possibilities with 3rd party applications
- Market leader with support for more than 3000 devices
- Simple license structure
- PROMISE A2000 series is officially certified by Milestone Systems

Learn more:

[www.milestonesys.com](http://www.milestonesys.com)

[www.promise.com](http://www.promise.com)

## *PROMISE develops high-performance storage solutions for video surveillance environments with optimized performance and reliability.*

### The Solution

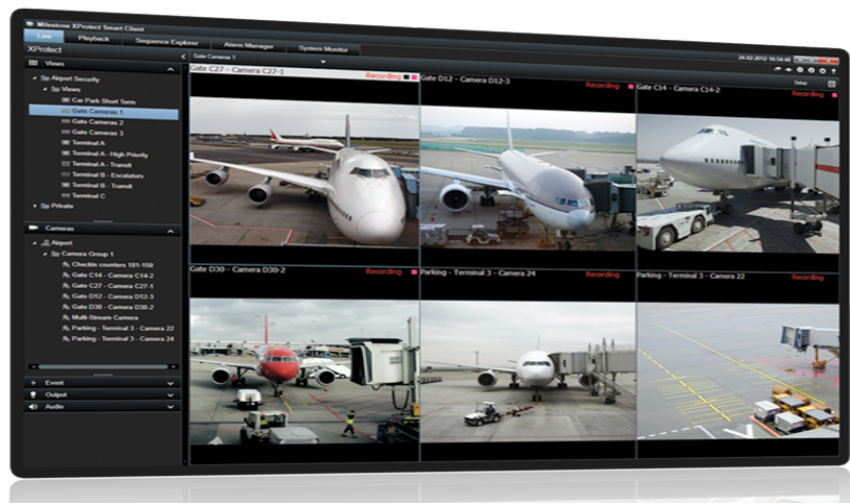
The PoC is an initiative from the key vendors in the industry, including Milestone, Samsung Techwin, Brand-Rex, Allied Telesis, and Eaton, to demonstrate a high performance IP video surveillance solution that can be replicated and deployed to address major challenges affecting customers today. All of the elements of the PoC are selected for optimal performance for mid-size to large scale video surveillance deployments and from global leading manufacturers of the most advanced and high-performing solutions in the industry.

Reliable and efficient storage is one of the key components to any video surveillance deployment. The foundation for the PoC is the Vess A2000 Series NVR storage appliance for IP video surveillance from PROMISE Technology. PROMISE develops high-performance storage solutions optimized for video surveillance environments with performance and reliability that has been proven in countless deployments. The Vess A2000 Series delivers reliable and stable performance for surveillance video recording, especially when the arrays is in a critical state or during rebuild which is key to eliminating frame dropping.

Recording footage 24x7 from the PROMISE Vess A2000 Series NVR storage appliances, with the latest Intel<sup>®</sup> I3 processor (A2200) and Intel<sup>®</sup> Xeon processor (A2600), are 30 WiseNet III HD cameras from Samsung Techwin which produce high-quality images with excellent color, contrast and clarity. The Vess A2000 is running Milestone XProtect<sup>®</sup> Enterprise 8.1, a powerful IP VMS from Milestone Systems, one of the leading providers of open platform IP VMS that is deployed by more than 100,000 customers worldwide. This is connected through Power over Ethernet (PoE) switches from Allied Telesis through high performance cables from Brand-Rex. The power management of the whole installation is secured with UPS from Eaton.

*The PoC creates a reliable and efficient infrastructure that can be deployed by organizations in a broad array of industries.*

All of the elements of the PoC are qualified to work with each other bringing the most optimized and balanced solution to the customer. Qualifying the solution ensures the highest levels of interoperability and performance while optimizing the customer's investment. The result is a powerful solution that provides advanced management and monitoring capabilities with a cost effective storage appliance that enables customers to keep video data online longer while allowing fast access and reliable data protection. Together, the hardware and software create a reliable and efficient infrastructure that can be deployed by a broad array of companies



### Brand-Rex® High-Performance 10GPlus Cabling

- Advanced network infrastructure solution for video surveillance
- Supports 10GBASE-T applications
- Wide range of options available
- Offers increased bandwidth
- Improved reliability
- Quick and easy to deploy

Learn more:

[www.brand-rex.com](http://www.brand-rex.com)

### Allied Telesis™ PoE Switch

- The Allied Telesis AT-x610-24Ts-POE+ series, High performance Gigabit Power over Ethernet (PoE) (802.3at)
- 4 x 24 port (PoE) switches x610 24 TS
- 2 x 48 port (PoE) switches x610 48 TS

Learn more:

[www.alliedtelesis.co.uk](http://www.alliedtelesis.co.uk)

### Eaton® Universal Power Supply

- UPS for MKB (1500, 2200, 3000VA)
- 99% Efficiency
- 50% longer lasting batteries
- Extended with battery modules
- Easy to manage and control

Learn more:

[www.powerquality.eaton.com](http://www.powerquality.eaton.com)

and organizations in industries such as retail, transportation and logistics, banking, manufacturing, education, government, city surveillance and more.

### The Benefits

The IP video surveillance solution demonstrated at the PROMISE Experience Center provides many benefits to corporations and organizations requiring a high-performance surveillance infrastructure, including:

*The PoC simplifies the process of identifying which software and hardware will work best together in an installation.*

**Proven Interoperability** - Through the PoC, several key factors are proven which are critical to a video surveillance installation, including integrating multiple systems. Integrating the correct hardware and software is paramount to developing a reliable network infrastructure with sufficient available bandwidth that will ensure you have a video surveillance deployment that meets your needs.

The PoC simplifies the process of identifying which software and hardware will work best together in an installation and provides an excellent opportunity for IT managers to identify the ideal line-up for their video surveillance deployment where overall parameters such as bandwidth, storage capacity, recording, playback, and redundancy throughout the solution is sorted.

**Reduction in Bandwidth Requirements** - The PoC fully utilizes the capabilities of the hardware and software deployed which results in a reduction in bandwidth requirements. Although an organization's IT infrastructure is built to handle large amounts of data, including surveillance applications, many IT managers are not fully leveraging the capability of their investment to optimize bandwidth capacity.

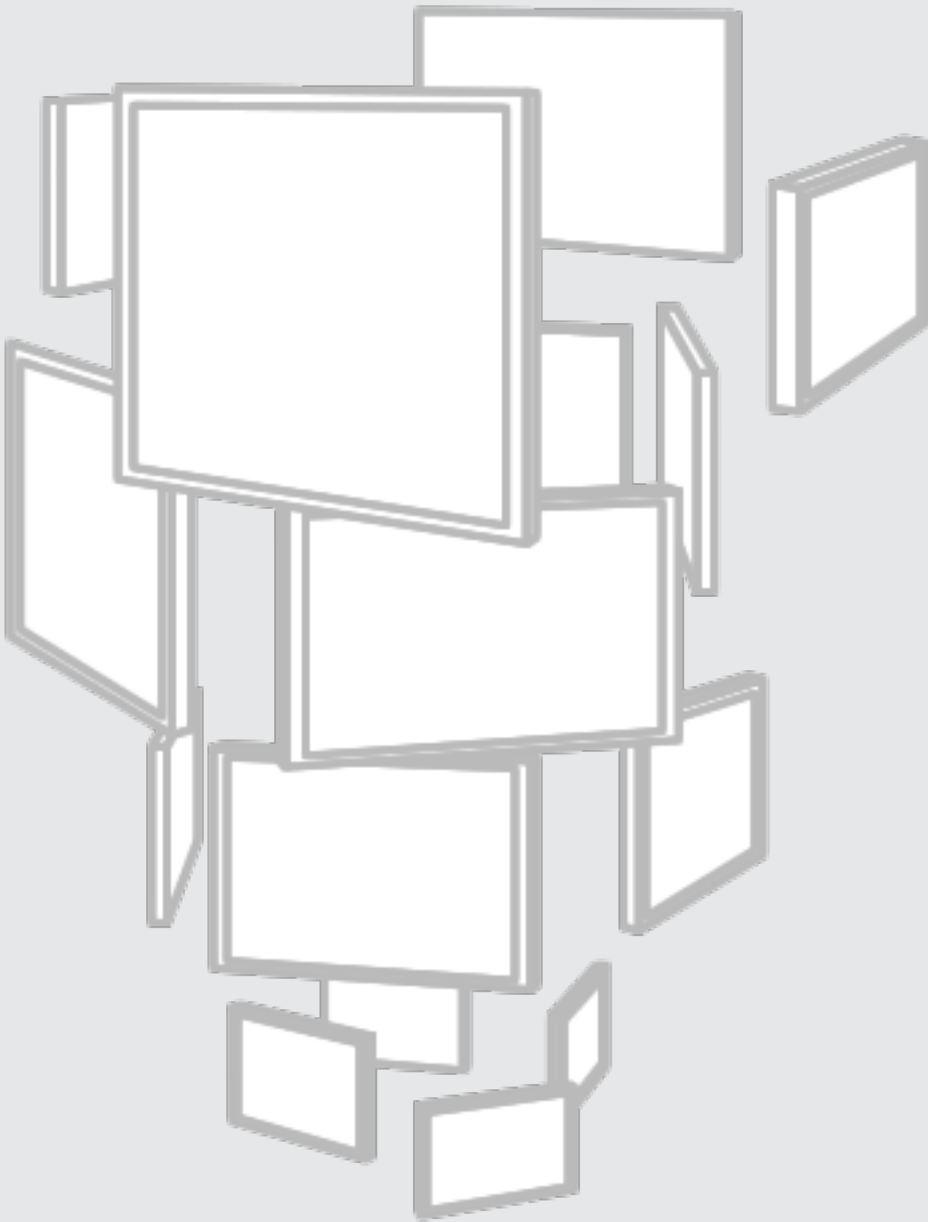
**Simple Scalability** - When selecting the elements of a video surveillance deployment, a key consideration is that the deployment must be able to grow with a company's security needs. The PoC is a high-end scalable solution from front to back that is suitable for installations by SMBs to corporate and enterprise-level businesses, or mid-size to large scale video surveillance deployments.

**Superior Reliability** - Reliability in video surveillance deployments is vitally important in terms of low failure rates and consistent throughput without dropping frames and the PoC is set up for optimal reliability and performance.

### For More Information

To learn more about the PoC at the PROMISE Experience Center, please contact your PROMISE representative. To learn more about PROMISE's solutions for video surveillance, please visit [www.promise.com/surveillance](http://www.promise.com/surveillance).

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