

DELL EMC SURVEILLANCE VALIDATION LABS

Test capabilities that reduce risk and increase confidence



LAB ATTRIBUTES

+65 SERVERS

- vBlock
- UCS
- Dell
- vSphere 6
- Fault Tolerant

35 RACKS

- 10Gb backbone
- WAN Simulator
- Event Load Generator
- ECS, Isilon, VNX, VSS
- Software Defined Storage
- Cloud Enabled Systems
- Edge to Core to Cloud Capability

+4000 CAMERA SIMULATION

- Multiple video load simulators
- Scale via Virtualization

INDUSTRY'S LARGEST AND MOST ADVANCED SURVEILLANCE LABS

Dell EMC has made a multi-year investment to form the industry's largest, most advanced Test and Certification Surveillance Labs. The labs contain leading technology from all major surveillance vendors in order to validate best-in-breed physical security applications with Dell EMC's portfolio of products. Dell EMC's Surveillance Labs provide organizations with:

- Reduced deployment risk
- Reduced support requirements
- A proven, repeatable architecture
- A known performance baseline for production environments

WHAT IS A VALIDATED PARTNER SOLUTION?

Dell EMC Surveillance Labs conduct platform performance benchmarking using a true production workload that produces a Zero-Data-Loss system based on proven best practices.

Our labs are designed to validate multiple ISV products simultaneously and carry out functional testing for technical discovery with new ISV partners. We test fault tolerance and high availability options, validate virtual and non-virtual architectures, and use a "testing at scale" approach.

No other IT infrastructure provider in the industry has committed the resources to provide validated solution architectures as comprehensive as what Dell EMC offers.

PROVEN, REPEATABLE ARCHITECTURES

Dell EMC's proactive approach to solution validation creates more efficient and effective delivery and support leading to higher overall customer satisfaction. The Dell EMC Surveillance Labs provide Dell EMC Proven Solutions documentation including reference architectures, white papers, technical notes, sizing guidelines, and technical presentations.

Our largest partners and customers can be assured that Dell EMC's Surveillance Labs provide a proven system design that tests the proposed solution at scale to ensure implementation is seamless and is built to meet future requirements.

DEDICATED ENGINEERING TEAM

The surveillance validation team's expertise spans virtualization, platform performance benchmarking and sizing, network security for physical security assets, and big data analytics related to the video surveillance dataset.

VALIDATION PROCESS

Platform Setup

- Virtual/Non-Virttal
- Best Practices
- Compute
- Networking
- Storage
- ISV Application

Test Plan Execution

- Functional Compatibility
- Performance Baseline

Error Insertion

- Drive Failures
- Node Failures,
- Network Failures

Remediation

- Log Review
- Zero –Data Loss

Deliverables

- Reference Architecture
- Best Practices
- Sizing Guideline

Optimization

- Platform Tuning
- ISV Optimization

FOR MORE INFO

SURVEILLANCE LABS:

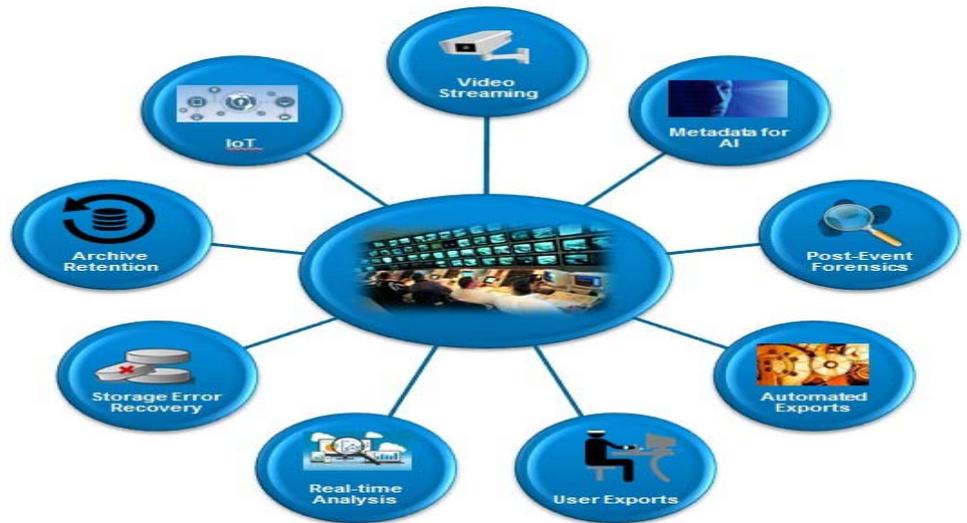
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THE SURVEILLANCE WORKLOAD

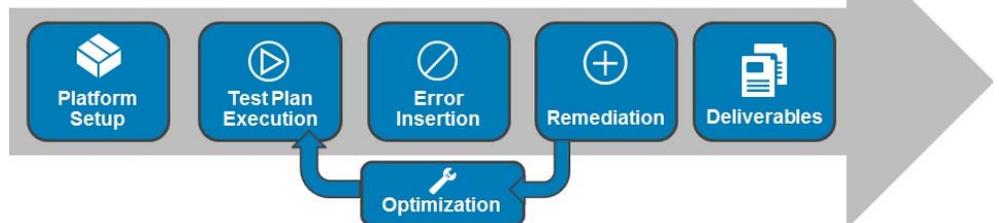
Video streams are non-transactional. You must capture it or lose it, you have only one chance to capture the frames of video. An improperly sized system WILL lose data!



- 100% Write – write I/O never stops
- Reads and Deletes for archive retention
- Automated exporting of user defined event based data
- Peak workloads during security events
- Forensic analytics on existing archives
- Backend storage based workloads
- Housekeeping for server based and external storage

VALIDATION PROCESS

The validation process is an application centric approach in determining the performance baseline under normal and abnormal operating conditions



Test to fail philosophy

Dell EMC has developed a comprehensive test plan with a test to fail methodology that closely matches our customer's production workload at scale. We test at scale with the ability to generate thousands of video feeds in our labs. This ensures that our solutions will deliver enterprise class performance to meet our customer's mission critical requirements.

