Valerus - ViconNet Gateway

WEBINAR

March 7, 2018

VICON

AGENDA

- ✓ Company Highlights

- ✓ Overview & Demo of Valerus

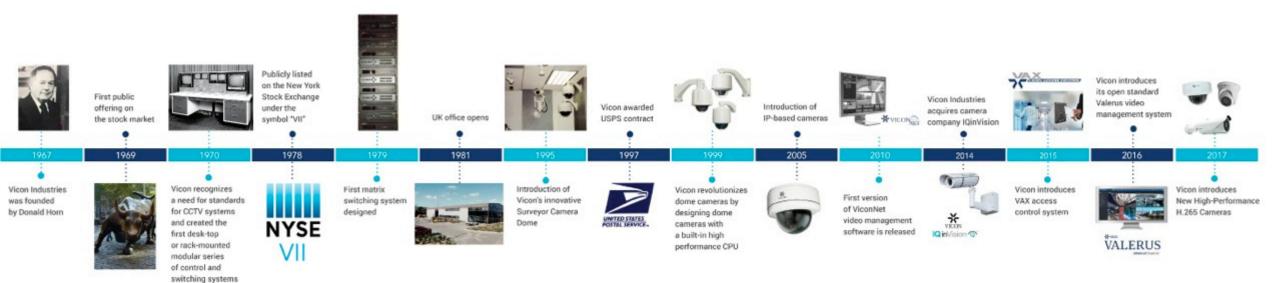- ✓ Gateway Introduction

- ✓ Highlighted Features

VICON

Simple Solutions for a Complex World

Vicon Company Highlights

Company Highlights - *History of Vicon*

At Vicon, we help protect valuable assets and critical infrastructures to keep organizations safe and secure.

Since 1967, Vicon has been a leading provider of mission-critical security surveillance systems. Today we are focused on providing solutions that have been engineered not just for performance and features, but for simplicity in deployment, operation and maintenance.

Our goal is to serve as a valued security technology partner to our customers by reducing security solution complexity, ensuring a superior experience.

Why Vicon?

Mission Statement
With a dedication to support and service and an exceptional new generation of video management software and commercial security cameras, Vicon is working toward a single mission – to serve as a valued security technology partner to you, our customers, by making your jobs simpler and less stressful in every way we can.

Standards-Based Platform Solutions — We combine a complete security solution with a vast team of business and technology partners to bring the most comprehensive security solution in the market.

Collaborative Environment — Developing innovative solutions is part of our strategy and our goal is to partner with and empower the best resellers and distributors across the globe. This partnership ultimately leads to the best possible solutions and support for our end customers.

Global Support — A reliable publicly-held company for over 50 years, with installations in more than 50 countries worldwide across a variety of vertical markets.

Professional Services — Feel confident in your security system from day one – long before it is operational. We offer a wide range of professional services to ensure your experience is trouble free.

A&E Support Tools and Design — We make it easy to design and specify IP surveillance systems. Our A&E program provides user-friendly specs, as well as helpful tools to make designing your project easier and more efficient.

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Industries We Serve

We focus on industry-specific business models and examine common pain points to develop comprehensive, industry-specific security solutions across the world that enhance safety.

Healthcare

Dept. of Defense

Retail

Federal Courts

Municipalities

Industrial

Commercial

Education

Ports and Critical Infrastructure

Correctional Facilities

Complete Security Solutions *Simplified*

Vicon makes it simple to manage even the most complicated security challenges. Vicon's end-to-end security surveillance solutions deliver simple usability that is as impressive as their powerful capabilities, delivering high-performance, easy-to-deploy results.

Our goal is to serve as a valued security technology partner to our customers by reducing security solution complexity, ensuring a superior experience and future-proofing our results.

Vicon's portfolio includes the full range of security solutions including:

Valerus Video Management Software	VAX Access Control *Integrates with Valerus*	*NEW* H.265 Cameras *NEW* HD Analog Cameras	*NEW* Storage Options
A new open platform browser-based solution	*Cutting-edge access control intergrates with Valerus*	*Lower bandwidth and outstanding image quality*	*Pre-certified, conventional and RAID options*

Vicon's complete and integrated product strategy means having innovative products at every layer of the security solutions stack — and within each layer — engineering them to work together seamlessly. With Vicon's high-performance security products that stand alone or work together, it's easy to get the best fit for an organization leveraging our robust capabilities.

Each of our solutions are powerful in their own right, but together they'll bring your security system to the next level.

Vicon's Valerus Video Management Software

An open-platform browser-based video management software (VMS) solution designed to simplify every aspect of your surveillance experience.

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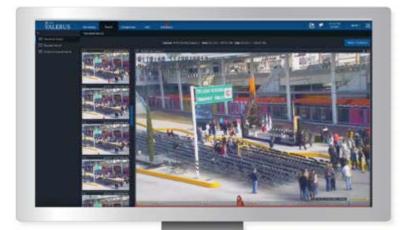*Simple Solutions for a Complex World*

Valerus has been designed to eliminate all the pain points typically associated with video management solutions. Our open-platform, enterprise-quality software redefines what customers can, and should, expect from their video surveillance system.

Valerus VMS

Today's security challenges can be difficult and complicated.
Your video management solution doesn't have to be.

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The Valerus VMS platform design is centered on the pillars of ease-of-installation, easy-to-use browser-based interface and a standards-based true open platform philosophy.

Simplify *every aspect*

Simplified SOFTWARE OPTIONS

TRY
- FREE
- Up to 6 edge devices
- 5 concurrent clients
- No time limit

CORE
- Up to 35 edge devices
- 10 concurrent clients
- Standard features

PRO
- Unlimited edge devices
- Unlimited concurrent clients
- Advanced features

Simplified DEPLOYMENT OPTIONS

- Thin client browser-based architecture

- Highly automated discovery and programming tools can have most systems configured in *minutes*

- A *single* global activation key unlocks the entire system

- Vicon's preconfiguration services can ship hardware *ready to use*

Simplified OPERATION

- Flexible and intuitive interface puts users at ease

- Pre-set favorite views for easy camera call or other web-based content

- Group resources for a logical system view

- Full compatibility with *all* ONVIF cameras

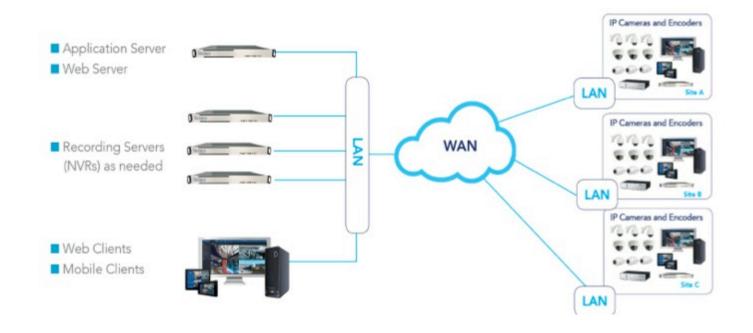- Three powerful video search options *within a single menu*

Simplified MAINTENANCE

- A health dashboard, with *easy-to-read* graphs, provides system-wide performance data

- Automatically back up configuration settings on a regular basis

- Push out software updates to *all NVRs on the network* with a central software upgrade feature

- Upgrade Protection Plan always keeps software current with latest features

Valerus VMS

Scalable Deployments Support a Wide Range of Applications

- Application Server
- Web Server
- Recording Servers (NVRs) as needed
- Web Clients
- Mobile Clients

IP Cameras and Encoders — LAN — Site A
IP Cameras and Encoders — LAN — Site B
IP Cameras and Encoders — LAN — Site C
WAN
LAN

✓ Designed to scale from starter video systems to enterprise-level distributed deployments with local and centralized operation.

✓ Thin-client deployment allows for easy access from any network-connected PC without the need for a thick-client application.
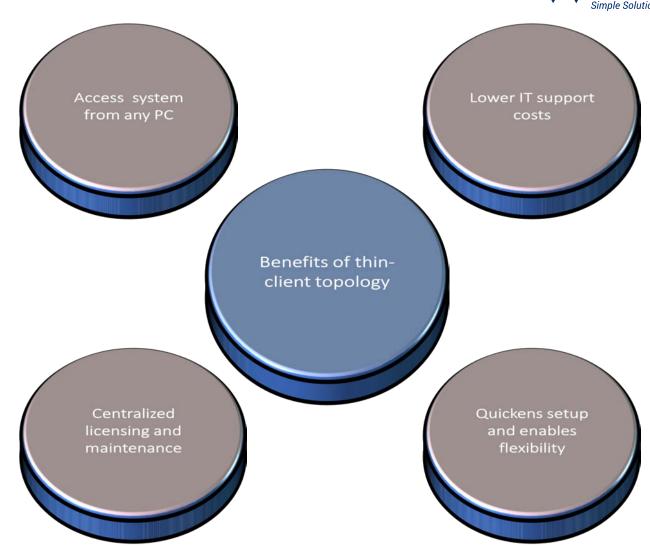
A True Standards-Based Open Platform Philosophy

Built on a proven, reliable industry standard protocol defined as ONVIF. There is no need for extensive certification and individual driver builds.

Additional plug-ins for non-ONVIF devices can be easily added upon request.

ONVIF | S — Devices
ONVIF | C — Access Control Systems
ONVIF | S G — Recorders
ONVIF | S G C — Client
ONVIF

Simplified Deployment

Thin-client architecture enables system access via browser interface

Benefits of thin-client topology

- Access system from any PC
- Lower IT support costs
- Centralized licensing and maintenance
- Quickens setup and enables flexibility

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What defines *Advanced Simplicity*?

Maintaining your system has never been easier!

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Without a Valerus Upgrade Protection Plan

✓ Valerus corrections are always made available, regardless if a UPP is in effect.

✓ The latest version of Valerus can always be downloaded and installed without purchasing a new license.

✓ This process makes the latest system corrections available to anyone.

✓ The UPP is not tied to support so you can always get help from Vicon.

With a Valerus Upgrade Protection Plan

✓ Upgrade Protection Plans are offered in 1, 3 and 5-year packages.

✓ Includes all features released in the subscribed tier.

✓ Status of the UPP is embedded in the system license:
   - When a new version is downloaded, it knows if new features should be unlocked.

   - Provides notification of a pending expiration of the UPP.

Valerus System Components

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Application Server

- ✓ Central server: stores all system configurations
- ✓ Only one per system required, regardless of system size
- ✓ Can be combined with Recording Server on one unit for systems under 150 cameras

Recording Servers

- ✓ Records all video
- ✓ Supports up to 100 cameras per NVR*

* Depends on hardware selected

Admin/Viewing Client

- ✓ Thin-client design allows full system administrative access via browser
- ✓ Full viewing capabilities from any browser

Mobile Clients

- ✓ System access via phone or tablet
- ✓ Found on Apple® and Google® App Stores
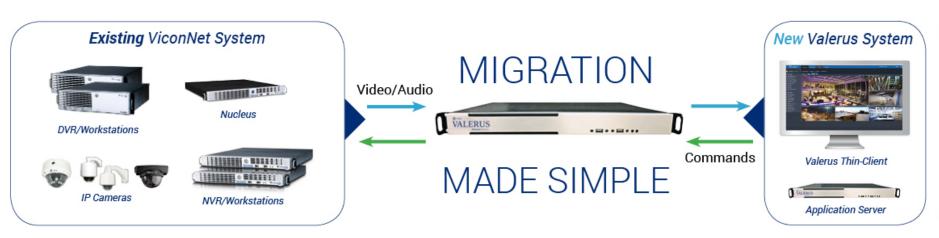
How Do We *Get There*?

Legacy ViconNet VMS Platform

Gateway Module Solution

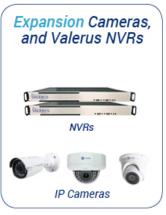**Open Platform, Browser-based Valerus VMS Platform**

Valerus–ViconNet Gateway

- ✓ Valerus module designed to bridge existing ViconNet systems to Valerus

- ✓ Provides a _simple_ migration path

- ✓ Available as software only or preinstalled on Vicon certified hardware

- ✓ Supports ViconNet systems with up to 500 cameras per Gateway

- ✓ Gateway can be installed on a dedicated Application Server for smaller systems with up to 75 cameras

Valerus-ViconNet Gateway Components

Hardware

- ✓ The Gateway can be purchased pre-installed on Vicon certified hardware
- ✓ Hardware specifications are similar to those of the Valerus NVR

Software

- ✓ The Valerus-ViconNet Gateway software
- ✓ ViconNet 8.3 used to communicate with ViconNet
- ✓ The Gateway can be installed on any computer meeting the minimum requirements (*similar to NVR*)

License

- ✓ The Gateway requires a license <u>per</u> Gateway computer
- ✓ The ViconNet installation on the Gateway does <u>not</u> require licensing

Small System Solution

A small system is defined as follows:

- ✓ The ViconNet system connected through the Gateway has up to <u>75</u> cameras
- ✓ Cameras can be direct IP devices or through an encoder
- ✓ Recording remains on ViconNet

Solution:

- ✓ Add a new server to the network on 1GBps port
- ✓ Server will run both the Application Server <u>and</u> the ViconNet Gateway software (capable of doing so for up to <u>75</u> cameras)
- ✓ System will be licensed for <u>1</u> Gateway only

Small System Diagram

Existing ViconNet System (*max 75 cameras*)

New Valerus Server

ViconNet Nucleus

IP Camera and Encoders

ViconNet Recording Devices

Application Server
and *ViconNet Gateway*

NEW NVR

Hybrid DVRs

Storage

NVRs

VALERUS

LAN

ViconNet Workstations

Start using Valerus

Workstation (*client or browser*)

Workstation (*client or browser*)

Workstation (*client or browser*)

ViconNet/VMDC Supported in Parallel
(if needed)

Workstation (*client or browser*)

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Single Gateway Solution

This is the typical system, defined as follows:

- ✓ The ViconNet system connected through the Gateway has up to **500** cameras
- ✓ Cameras can be direct IP devices or through an encoder
- ✓ Recording remains on ViconNet

Solution:

- ✓ Add two new servers to the network on 1GBps port
    - One server will run the Application Server
    - Second server will run the Valerus-ViconNet Gateway
- ✓ System will be licensed for **1** Gateway only

Small System Diagram

Existing ViconNet System (*max 500 cameras*)

New Valerus Server

ViconNet Nucleus

IP Camera and Encoders

ViconNet Recording Devices

Application Server

NEW NVR

Hybrid DVRs

Storage

NVRs

ViconNet Gateway

LAN

ViconNet Workstations
Start using Valerus

ViconNet/VMDC Supported in Parallel
(if needed)

Workstation (client or browser)

Workstation (client or browser)

Workstation (client or browser)

Workstation (client or browser)

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Multiple Gateway Solution

Might be required for some systems, defined as follows:

- ✓ May be needed when ViconNet camera count exceeds 500
- ✓ May be needed for systems with remote sites (*to control video tr*affic)
- ✓ Cameras can be direct IP devices or through an encoder
- ✓ Recording remains on ViconNet

Solution:

- ✓ Add as many new servers as needed on 1GBps ports
- ✓ Usually one server will run the Application Server
- ✓ Additional servers will run the ViconNet Gateway
- ✓ System will be licensed for the number of Gateways needed

Legacy ViconNet VMS Platform → Gateway Module Solution → Open Platform, Browser-based Valerus VMS Platform

Capabilities

The Gateway connects to the ViconNet system and bridges a camera group
(*Group is set in the existing ViconNet Nucleus*)

Functionality supported through the Gateway:

- ✓ Live video / audio viewing (can be used in views and tours as well)

- ✓ Playback of video / audio recorded on the ViconNet devices

- ✓ Control of PTZ cameras on the ViconNet devices

- ✓ Dewarp supported 360° cameras on the ViconNet system

- ✓ Thumbnail and Museum Search of video recorded
  on the ViconNet devices

- ✓ Export through the Valerus interface

- ✓ All recordings and recording settings are still on ViconNet

Limitations

✓ The Gateway cannot run on a computer running a Valerus NVR

✓ Each Gateway can support up to 500 ViconNet video channels (using multiple Gateways is supported)

✓ The computer running the Gateway should not be used for display

✓ ViconNet functions not supported in Valerus at this time:

   - Events on ViconNet (sensor, VMD, etc.) are not sent to Valerus so cannot be used for display pop-up, etc.

   - Relay on ViconNet cannot be controlled from Valerus

✓ Fast Forward and Rewind have limited speed options

✓ Mobotix MxPEG compression is not supported

Vicon's trusted products and solutions are installed around the globe
in over 40,000 companies in a variety of vertical markets.

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