Latitude NVMS is the platform of choice for corporations and organizations that want to manage video surveillance operations over IP networks in the most effective way.

DVTEL’s award winning Latitude NVMS® is an open standards, network-based video management software platform that is the most powerful and versatile solution on the market today. Using the latest technology advancements of an enterprise system, Latitude is part of DVTEL’s cutting edge Video Security Solution for organizations of all sizes. Latitude replaces antiquated CCTV matrix switches, multiplexers, or DVRs to provide the power of a cutting-edge IP-based physical security solution. From a small business, single server system to a distributed system managing thousands of cameras, Latitude can efficiently support any system size or architecture. Plus, installations can span multiple sites, cities and continents.

System Overview
Latitude NVMS is a fully scalable enterprise-level multimedia management system. This advanced network-based system architecture enables simultaneous monitoring of video and audio, live and recorded, from multiple stations. The system is easily configured for storage on-site and off.

- Includes the award winning TruWitness™, CaseBuilder Incident Reporting and the award winning SceneTracker video stitching software.
- Latitude is the software platform for the DVTEL full video security solution.
- Supports H.264, MPEG4 and MJPEG video compressions.
- Continuous, scheduled, manual, event-based and alarm–based Video and Audio recording.
- Supports hundreds of IP video edge device models from the leading manufacturers.
- Built on Microsoft .NET Framework, Latitude is offering a comprehensive .NET SDK.
- State-of-the-art client applications and IT friendly features.
- Resilient system design with failover and redundancy options.

Version 6.3 Highlights
- Easy provisioning of client software with Automatic client updates and Client Portal
- View location of alarms, cameras and TruWitness devices on GIS-Maps
- Enhanced TruWitness, with alarm button, GIS-Map support and voice call option
- Fault-tolerant-recording using Storage on the edge (with specific camera models)
- Fully integrated with the newest models of DVTEL and ioimage edge devices
- ONVIF Profile S conformance and full coverage of popular 3rd party edge device lines

Ensure Maximum Security
Using the most advanced features and unparalleled flexibility.

Reduce Operational Costs
Latitude collects the relevant data and provides actionable information, allowing the users to focus on what is important.

Latitude Grows with your needs
Starting with a small or large camera count, Latitude allows you to grow beyond thousands of cameras.

Secure Your Investment with an Open Platform
Supporting hundreds of edge device models, the ONVIF protocol and dozens of 3rd party systems, you have the freedom of choice.

The Advantages of a Complete Solution
Combine Latitude NVMS together with DVTEL’s USS Storage solutions and Quasar Edge devices to gain the synergistic and seamless functionality, and cost benefits of a complete solution.

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System Functions

Video Interfaces
- IP cameras, Encoders & Decoders
- Standard to Multi-Mega-Pixel resolutions
- All DVTEL & ioi Edge devices support
- Broad 3rd party edge device support
- ONVIF Profile S conformance

Video Monitoring & Control
- Live, Playback & Export in one application
- PTZ & Digital Zoom, Layouts and Tours
- Privacy Masking
- Remote Viewing & Centralized monitoring

Recording and Reviewing
- Flexible recording and retention options
- Scheduled and event based recording
- Advanced search, playback and export options
- Unlimited* cameras on multiple Archivers

Additional Basic Features
- Full duplex Audio
- I/O support (Dry contacts and relays)
- Audit-Trail and Reporting-Tool
- CCTV Keyboard connections

Advanced Features
- TruWitness™ streaming from mobile devices
- GIS-Maps dynamic display of alarms, cameras and TruWitness devices
- SceneTracker panoramic video stitching
- CaseBuilder investigation management tool
- Virtual Matrix & remote control of other workstations and video walls
- Advanced Alarm management
- Interactive HTML Maps and Map-Builder
- Rule Based engine for managing events and automatic actions
- Digital PTZ presets
- SNMP support
- “Mentor” – Capture, stream and record the operator’s screen

Users
- Unlimited* number of users
- User management with privilege control
- Active Directory integration

System Features
- Distributed Architecture
- Failover of central Directory service
- Failover & Redundant Archiving
- Secured system access via Gateway server
- Virtualization support

SDK and interfaces
- Full set of APIs and integration tools
- Access Control, LPR, Perimeter fence detection integrations as well as PSIM

* With Latitude Enterprise
Network Video Management System

System Components

Services
- Directory – the system’s central administration and configuration database
- Event Distributor (EDB) – intelligent rule-based switching of events and actions
- Archiver – records video, audio and meta data and manages edge devices
- Gateway – portal for remote access over the internet
- Transcoder – provide remote connectivity to the system and video streaming over the internet
- AuditTrail – Recording of all administrator events in SQL database
- SafRun – watchdog service
- CaseBuilder – provides case management services

Client Applications
- ControlCenter – the operator’s command and control interface and a player for live, archived and exported multimedia and case management
- AdminCenter – the system configuration interface
- QuickControl Center – allows you to connect to your Latitude system with no installation required, and serves as a portable stand alone player.
- Client Portal – provides users with easy access to download and install client applications
- Thin Web Client - Access to live, archive and PTZ video from Internet Explorer and Firefox (*live only)
- Mobile Clients – viewing applications for iPad, iPhone and Android devices
- Mentor – Capture the operator’s screen as a video stream, allowing the supervisor to record or monitor it in real time for training and review

Directory
- Authentication management
- System configuration and settings catalog
- Alarm management
- Incident/metadata management
- System status view
- Using Microsoft SQL Express / SQL Server Database
- Fail over directory—multiple per system

Event Distributor (EDB)
- Intelligent, rule-based distribution of events, actions and messages
- Supports Failover EDB

Archiver
- Recording of video and audio
- With dual stream encoder, either stream can be recorded
- Playback of video and audio
- Manages IP Cameras, Encoders, Decoders and other IP Edge Devices
- Audio/Video - Multicast or Unicast capability
- Controls PTZ domes and sequences
- Video proxy (redirect)
- Performs motion detection events
- Using Microsoft SQL Express / SQL Server Database to store metadata including storage management, bookmarks and motion information
- Support for Redundant Recording
- Supports Failover archiving
- Automatic discovery of IP edge devices
- Performs Background Export and Mass Export

Transcoder and Gateway
- The Transcoder adjusts video stream bandwidth to enable video monitoring over limited bandwidth connections
- The Gateway acts as a safe entry point for outside communications
- The Transcoder can interface with common media streaming solution for web publishing

AuditTrail
- Recording of all the event types that were selected by the administrator for logging, into an AuditTrail database.
- Using Microsoft SQL Express Database

ControlCenter
- View live, archived and exported video and audio, side-by-side
- Synchronized Playback
- Advanced Workspace Mode control
- CaseBuilder mode
- Advanced Video Overlay controls to maximize the video real estate
- Sophisticated alarm and event management
- Manage incidents and bookmarks
- Global client - connect to multiple directories
- Remote client – connect via the internet
- Logical tree view with entity status
- Embedded SceneTracker
- Maps and web content in tiles
- Flexible/customizable GUI layout
- PTZ, Digital PTZ and Keyboard support
- Automatic updates of new versions

AdminCenter
- Configuration and administration
- Licensing interface
- Ease of use through Wizards: Quick Configuration Wizard, Camera wizard, Copy Configuration wizard and user group wizard
- Dashboard display of system status
- Sidebar menu offering task oriented user interface
- Automatic Discovery of edge devices
- Physical tree - servers and edge devices configuration
- Logical tree - geographical/organizational hierarchy configuration
- Filtered views for cameras, users and more
- Search/Filter support for all trees
- Profiles and schedules
- Users, user groups and privileges
- Alarm, event and action definitions
- Global client - connect to multiple directories
- Remote client - connect via the internet
- Map Builder - A user interface for creation of HTML based maps
- Ability to backup system databases
- Mass Export and Background Export interface
- Automatic updates of new versions

TruWitness(TM)
- Turns an Android handheld device into a mobile IP camera
- A TruWitness device allows the user to trigger alarms, transmit his location, and stream video to the center
- Easily initiate and receive phone calls from the center while using TruWitness

SDK
- Provides a Latitude API that can be used for integrations and customizations
- Provides video feeds using the Direct Show Filter
- Provides event and alarm listeners to the system using the Event API and Alarm API
- Productized and documented
System Requirements*

Server side requirements

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 7 Professional, 32bit</td>
<td>Windows Server 2008/2012</td>
</tr>
<tr>
<td>CPU</td>
<td>Quad core, 2.0 GHz</td>
<td>Intel Xeon E5-2407</td>
</tr>
<tr>
<td>Memory</td>
<td>4GB</td>
<td>2 x 4GB RDIMM, 1333MHz</td>
</tr>
<tr>
<td>Hard drives</td>
<td>SATA 7200 RPM</td>
<td>SAS 15k RPM</td>
</tr>
<tr>
<td>Storage configuration</td>
<td>Internal JBOD</td>
<td>RAID5</td>
</tr>
<tr>
<td>Network Interface</td>
<td>Single Gigabit NIC</td>
<td>Broadcom Dual port 1Gb</td>
</tr>
<tr>
<td>Video card</td>
<td>On-board</td>
<td>On-board</td>
</tr>
</tbody>
</table>

Client side requirements

<table>
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<tr>
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<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 7 Professional, 32bit</td>
<td>Windows 7 Professional, 64 bit</td>
</tr>
<tr>
<td>CPU</td>
<td>Quad core, 2.0 GHz</td>
<td>Intel Xeon E5-1620</td>
</tr>
<tr>
<td>Memory</td>
<td>2GB</td>
<td>2 X 2GB, 1600MHz, DDR3</td>
</tr>
<tr>
<td>Hard drive</td>
<td>SATA 5400 RPM</td>
<td>SATA 7200 RPM</td>
</tr>
<tr>
<td>Network Interface</td>
<td>100Mbps</td>
<td>1Gbps</td>
</tr>
<tr>
<td>Video card</td>
<td>PCI Express with 256MB RAM and DirectX support</td>
<td>512MB NVIDIA Quadro NVS 300 (2 DVI ports)</td>
</tr>
<tr>
<td></td>
<td>Minimum resolution: 1280x1024</td>
<td></td>
</tr>
</tbody>
</table>

How to select your Latitude Tier?

<table>
<thead>
<tr>
<th>Latitude Tier</th>
<th>Video Channels</th>
<th>Users</th>
<th>Failover Directories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic</td>
<td>Up to 70</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>Elite</td>
<td>Up to 250</td>
<td>50</td>
<td>5</td>
</tr>
<tr>
<td>Enterprise</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

All base licenses include 5 user connections, 5 web client connections and full functionality, with the exception of the following items that need to be ordered separately:

- Video channel connections
- Additional User connections
- Mobile user connections
- TruWitness connections
- SceneTracker

*Note:
For ordering and hardware specification information, please refer to the DVTEL Price Guide and the Latitude System Specification Document. Both can be obtained by contacting your Local Regional Sales Manager (info@dvtel.com).

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