



Mindtree

Welcome to possible

Gladius Video Management Software

Overview

Gladius is a comprehensive, enterprise grade, open platform video management software solution for enterprise and city surveillance IP surveillance installations of up to 1000 cameras.

Gladius is ONVIF compliant and supports a wide range of manufacturers making the software future proof. The scalable distributed architecture and the ability to run on standard off the shelf hardware ensure hassle free system expansions. It also provides a reliable platform by supporting failover servers to ensure continuous management and high system uptime.

Gladius supports a large suite of video analytics algorithms from Mindtree as add-on plug-in modules to improve the surveillance experience and enable designated users to receive timely alerts and detect events of interest.

Gladius is available in two flavors – Gladius Lite and Gladius Pro (Professional). Gladius Lite supports up to 50 IP CCTV cameras per system while the Gladius Pro is highly scalable and targets larger enterprises with requirements of up to 1000 IP CCTV cameras.

Key features

- Client-Server Distributed Architecture
- Windows Desktop Client
- Touch Ready
- Scalable from 16-1000 cameras
- Smart video streaming
- Supports surveillance-on-the Go: Anytime, Anywhere access from Mobile Devices
- Failover servers to ensure high availability and uptime of system
- Powerful search functionality to isolate video, alarm or event of interest
- Enhanced investigation options such as video bookmarking and video summarization
- Supports continuous & Video or audio activity based recording modes
- Large portfolio of Mindtree Video Analytics available as plug-in modules
- ONVIF Profile S compliant
- Advanced alarm management with integrated incident management workflow – triggering automatic alarm actions, acknowledgement, assignment and forwarding
- System Health, Diagnostics and detailed reports
- Seamless Integration with third party devices

Key features

Views and layouts

- Six different standard layouts are available for quick selection: 1x1, 2x2, 3x3, 4x4, 5x5 and 1+5 along with custom views
- Carousel views / Camera Tours
- Drag and Drop cameras on layouts to create custom views
- Support for Private and Public Custom Views
- Support for creating Favorite Views for easy access
- Auto-adjustment of layout as cameras are dragged and dropped
- Full Screen View
- Digital Zoom and Area zoom support
- Tree-based view of all cameras
- View of real-time alerts and events
- Real time status display
- Simultaneous live video and recorded video playback
- Playback last 30 minutes of Recorded videos of any camera from Live View
- Multi monitor support

Sitemap

- Two-level, hierarchical, linked sitemaps.
- Custom views include site maps and cameras in one view
- Overlay camera location on sitemap by dragging and dropping camera from tree
- Alarm Status indicted on sitemap
- Mouse Over based Preview of live feed from all cameras in the map
- Mark Field of view of the cameras, indicating the area of coverage
- Supports GIS maps* and static map images in png / jpg format

Auto discovery of devices

ONVIF and UPnP protocols supported

Audio

- Audio Recording
- Two Way Audio Support for select cameras*
- G.711 (a-Law and μ -law) G.726, G.728, AAC
- Audio activity recording

Recording

- Supports Manual, Continuous, Activity, Alarm Only Recording Modes per camera
- Recording Schedules Based on a daily, weekday, weekend schedule
- Duration of pre-alarm and post-alarm can be configured
- Resolution and frame rate can be configured on a per camera basis
- Proprietary watermarked recordings to prevent tamper
- Support for DAS, NAS and SAN storage
- Number of days to retain recordings can be configured for camera categories
- Multiple Recording Servers supported per installation
- Streaming server supported for rendering additional streams for recording and live viewing
- Synchronized Audio and Video Recording support
- Edge recording support for selected cameras

Search and Playback

- Search for recordings based on date/time, camera, sitemap, alarm name, type of recording and bookmark
- Timeline view and list view of recordings are supported
- Bookmark feature for quick tagging of video data for future investigation
- 4 channel synchronized playback*
- Standard playback controls with slider for seek bar functionality
- Ability to control playback speed
- Digital Zoom

Export

Export videos up to 30 minutes in a single file (mp4) playable by standard media players

Camera controls

- PTZ controls through on-screen navigation buttons
- Change camera settings like brightness, contrast, iris settings, color balance and sharpness
- Digital Zoom Controls
- Unlimited number of Presets
- Preset Patrols
- Priority based PTZ lock
- Snapshot

Key features

Alarms

- Inbuilt Support for detecting Video Loss, Unexpected Activity, Scene Change, Camera Occlusion and Audio Beyond threshold*
- Acknowledge, comment, cancel and forward the alarms
- Automatic actions configured per camera per event: play an audio file, audio beep, SMS*, email, go to a predefined preset, trigger relay, additional actions*
- Forwarded Alarm In-box
- Optional Automatic closure of alarm incident on receiving reset events

Configuration Manager

- Support auto camera search and add option with the Manual camera addition
- Bulk camera addition supported
- Per camera-based frame rate, resolution and codec settings
- Dual Stream support for Display and Recording
- Configuration of Unexpected Activity, Scene Change and Audio Thresholds *
- 5 Polygon shaped Regions of Interest for Unexpected Activity Configuration
- Configuration of Alarm Actions
- Recording Server Configuration
- Auto Configuration of NTP settings on all cameras and servers
- Centralized Upgrade of Desktop Clients*

User Management

- 3 categories of users – Administrator, Manager, Operator
- Support access permissions to cameras or groups of cameras and operations per user
- Allow access control on a per-user, per-camera basis
- Supports multiple authentication types: Windows active directory, LDAP* and inbuilt database
- Unlimited users per installation

Health monitor

- Automatic status monitoring of devices connected and critical services daily
- Reports can be sent via email
- Database Backups

Reports

- Audit trail
- Chart-based reports on the alarms and events received over the last seven days

License Management

- Simple per-camera based license mechanism
- 6 Desktop Client Licenses are available by default. Additional Viewing client licenses can be procured
- Additional Video Analytic Licenses
- License Key is not dependent on camera MAC address

Failover (optional feature)

Management and recording functions are automatically handed over to Failover Servers when any primary server fails in N:1 configuration

Cameras supported

- All ONVIF 1.02 and above cameras

Mobile client support

- Gladius Mobile Applications available for Android and iOS devices
- Live display, Playback of recorded videos and PTZ control of cameras supported

Integration support

Comprehensive Application Programming Interface (API) with detailed documentation

Gladius VMS (Lite / Pro) Comparison Table

Feature list	Gladius Lite	Gladius Pro
Type of deployment	Single Server	Multi server
Max. Number of cameras supported	50	1000
Maximum numbers of users	5	Unlimited
Support for Video Analytics Plug In	N	Y
SiteMap Feature	N	Y
Failover Functionality	N	Y
Additional Recording Servers	N	Y
Edge Storage support with flexible retrieval	N	Y
Two-way audio support	N	Y
User defined events	N	Y
Incident Management Work Flow	Acknowledge and Close	Acknowledge, Comment, Forward, Close
BookMarks	N	Y
Maximum number of clients	6	Unlimited with additional licenses
SMS notification	N	Y

Gladius Pro system requirements

Management server

- RAM: 8GB
- CPU: Dual Quad core, Intel Xeon, 2.8GHz or higher
- Operating System: Windows Enterprise Server 2008 R2 (32 / 64 Bit)
- Support up to 1000 cameras

Recording server

- RAM: 8 GB
- CPU: Intel Xeon, 2.8GHz or higher
- Operating System: Windows Enterprise Server 2008 R2 (32 / 64 Bit)
- Supports recording throughput of 375 Mbps

Resolution	Recording Frame rate	Bitrate	Supported Camera Count
4CIF, VGA	25	2 Mbps	128
720p	25	5 Mbps	64
1080p	25	8 Mbps	40

Desktop Client

- RAM: 8GB
- CPU: Intel 3rd generation i7
- Operating System: Windows 7 64 bit
- nVIDIA Graphics card for multi-monitor support with at least 512 MB RAM

Gladius Lite system requirements

Integrated Management & Recording server

- RAM: 8GB
- CPU: Intel Xeon 2.8GHz or higher
- Operating System: Windows 7 Enterprise 64 bit
- Support up to 50 cameras

Desktop Client

- RAM: At least 4GB
- CPU: Intel 3rd generation i5
- Operating System: Windows 7 - 64 bit
- Nvidia Graphics card for multi-monitor support with at least 512MB RAM

About Mindtree

Mindtree [NSE: MINDTREE] delivers technology services and accelerates growth for Global 1000 companies by solving complex business challenges with breakthrough technical innovations. Mindtree specializes in e-commerce, mobility, cloud enablement, digital transformation, business intelligence, data analytics, testing, infrastructure, EAI and ERP solutions. We are among the fastest growing technology firms globally with more than 200 clients and offices in 14 countries.