



Mindtree  
Welcome to possible

## Gladius Central (Video) Management Software

### Overview

Enterprises of today are getting increasingly distributed across cities, countries and continents. This poses unique challenges for Security Officers who want to have the capability to monitor various offices from a central location in order to view live or recorded videos as soon as any incident is reported. Gladius Central (Video) Management Software (CMS) is a feature-rich solution designed to meet the surveillance needs of for large-scale, distributed enterprises.

CMS offers a unified management interface that enables management of the overall security system and including all the connected cameras and surveillance devices, irrespective of the size or location. For growing organizations that need situational awareness and immediate response to alarms, Gladius CMS offers maps integrated with different site locations.

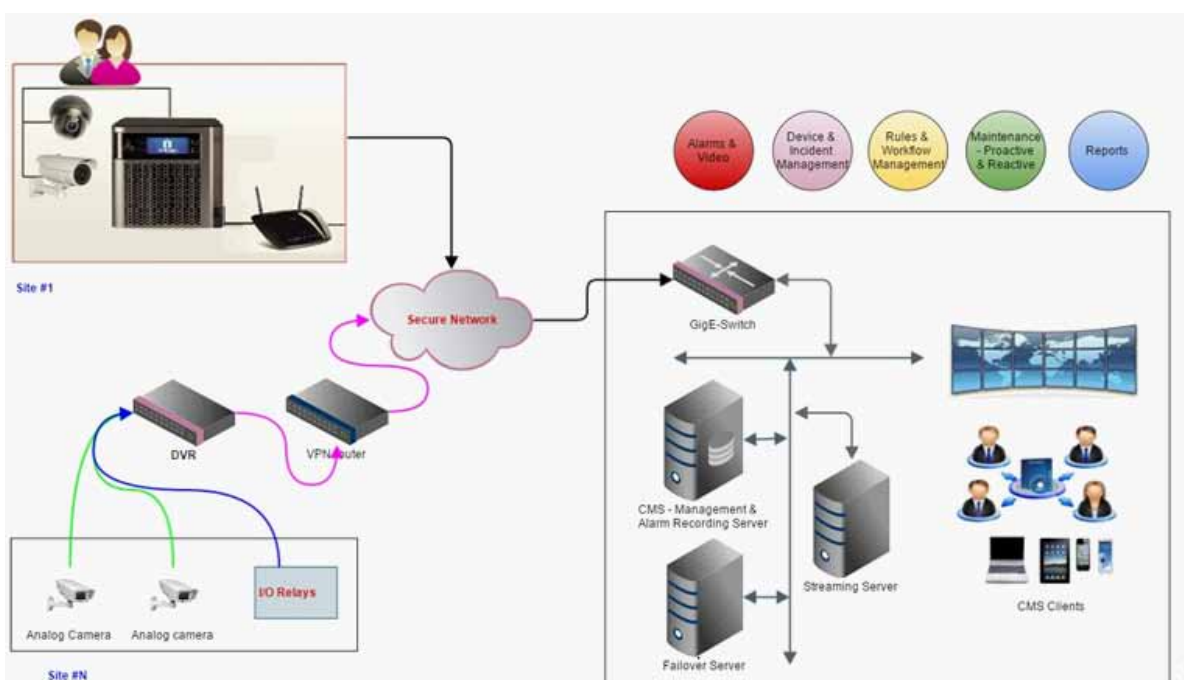
CMS provides a unified Alarm view that shows a list of alarms generated from different connected sites. It also offers a single-click-play-back of the alarm video clips. Gladius CMS provides high system availability for high-security installations that includes Failover recording and management servers to ensure that alarm video recordings are never interrupted and access to the CMS is always maintained.

Gladius CMS can manage, monitor and control any of the following surveillance solution installed at remote offices.

- Gladius VMS with any ONVIF IP cameras
- DVR\* with Analog Cameras
- NVR\* with IP Cameras
- SecureMind VMS with EMC Lenovo NAS with ONVIF IP cameras

\*Currently HikVision DVR/NVRs are supported

The following connectivity diagram shows the overall setup that's used for connecting Edge to CMS.



Gladius CMS is deployed as an Enterprise Central Video Management Software to manage distributed surveillance installations. The Gladius CMS is hosted on the servers available within customer premises to manage the distributed surveillance locations.

Gladius CMS Cloud Edition, a variant of Gladius CMS is capable of offering an Enterprise Central Video Management Software to manage distributed surveillance installations belonging to multiple tenants/customers simultaneously. It is offered to Service Providers (ISP), who wish to provide VSaaS solution to customers with an optional recording solution at the edge. Gladius CMS Cloud will be hosted by the service provider for multi-customer or multi-tenant management.

## Distinguishing Features

- Highly scalable architecture supporting up unlimited cameras
- Solution offered in combination with
  - Gladius VMS at the branch/remote offices
  - DVR\*with Analog Cameras
  - NVRs\* with IP Cameras
  - IP cameras with Edge recording support
- Central management, monitoring and recording with ability for remote viewing and control
- Rich windows based client that provides access to the full functionality – comprehensive alarm management, site map view, search, Instant playback of alarm videos, configuration and control, administration, events and rules
- Failover servers to ensure high availability and uptime of the system
- Supports single as well as multiple customers through Cloud Edition
- Enterprise User Management/Active Directory
- If there's a network failure, CMS auto syncs the recorded videos when the network is restored

## CMS Features

Video
<ul style="list-style-type: none"> <li>▪ Video Compression - H.264, MJPEG, MPEG 4</li> </ul>
<ul style="list-style-type: none"> <li>▪ Resolution - CIF/VGA/720p/1080p* * Limited by Bandwidth</li> </ul>
<ul style="list-style-type: none"> <li>▪ Alarm recording frame rate - up to 30 FPS</li> </ul>
Audio
<ul style="list-style-type: none"> <li>▪ Audio streaming - One way Audio streaming/recording</li> </ul>
<ul style="list-style-type: none"> <li>▪ Audio compression - G.711, G.726, G.728, AAC</li> </ul>
Camera
<ul style="list-style-type: none"> <li>▪ All camera models* supported by the CPE(Gladius Lite/Pro VMS) are supported</li> <li>▪ Camera should support 2 streams and it shall be possible to control bitrate of the streams</li> </ul>
Local Surveillance at Customer Premises
<ul style="list-style-type: none"> <li>▪ Local Site Features - Full Featured Surveillance software</li> </ul>
<ul style="list-style-type: none"> <li>▪ Live View - Users can see tiled views, manage cameras, view recordings, set up alerts without using CMS</li> </ul>
<ul style="list-style-type: none"> <li>▪ Recording - High Resolution, high quality recording at local site</li> </ul>
<ul style="list-style-type: none"> <li>▪ Max no. of cameras per site - Supports upto 1000 cameras per branch/remote site</li> </ul>

## Central Recording Server

- Security
  - Multiple user access levels with password protection
  - Secure communication
  - Encrypted recordings
- Installation and setup - Easy installation supports auto-addition of cameras from CPE using a "Connect to CMS" Form
- Recording storage - Records to network disks \*  
\* Local recording on CPE
- Duration - configured per customer
- Recording Modes per customer
  - No Recording
  - Alarm Recording
  - Offline recording
- Automatic Video Synchronization after a network loss

## Site View

- Displays live view from different sites
- Playback of videos from individual sites
- Central camera control including PTZ support

## Alarm View

- Displays latest alarms from all the sites
- Single click playback of alarm videos
- Displays Alarm video (and snapshot) and corresponding live view from the same camera
- Trigger remote relays from the same interface

## Playback

- Video Compression - H.264, MJPEG, MPEG-4
- Supports timeline mode
- 4 Camera synchronized playback
- Playback features like Seek, Fast Forward, Reverse, Play faster, Play Slower supported
- Export video as evidence

## Triggers & Events Recording

- Alarm recording
  - Events triggered by Unexpected Activity detection, Camera Occlusion, Relay outputs, Analytics events
  - Integration with 3rd party alarm panels, DVRs and NVRs
- Input/output control - Supported through CPE
- Alarm notification - Email, SMS, Audio Alarm
- Logs-Alarm, Event and Audit Logs

## 3<sup>rd</sup> Party Device Support

- HikVision DVRs and NVR\*  
\*Check for model details

<b>E-Maps</b>
<ul style="list-style-type: none"> <li>▪ 3 levels of maps supported</li> </ul>
<ul style="list-style-type: none"> <li>▪ Navigate through maps</li> </ul>
<ul style="list-style-type: none"> <li>▪ View status on maps</li> </ul>
<b>Network Administration</b>
<ul style="list-style-type: none"> <li>▪ Automatically synchronizes with updates on the CPE after connection to CMS</li> </ul>
<ul style="list-style-type: none"> <li>▪ Handles Camera delete, addition, replacement, IP Address change without additional configuration</li> </ul>
<b>Administration</b>
<ul style="list-style-type: none"> <li>▪ User Categories <ul style="list-style-type: none"> <li>• Super Admin(ISP)</li> <li>• Admin</li> <li>• Manager</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>▪ Customer Administration <ul style="list-style-type: none"> <li>• New Customer can be added/deleted/administered by ISP from the Portal</li> <li>• Recording Limits and Rules can be set per customer</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>▪ Supports customer Logo addition</li> </ul>
<ul style="list-style-type: none"> <li>▪ User administration - Users can register themselves for customers created by ISP</li> </ul>
<ul style="list-style-type: none"> <li>▪ Statistics - View storage and bandwidth statistics</li> </ul>
<ul style="list-style-type: none"> <li>▪ ISP Administration facilities <ul style="list-style-type: none"> <li>• Add and monitor CPE, servers, users, storage and disks</li> <li>• Provision servers and storage</li> <li>• Single portal for ISP and User</li> </ul> </li> </ul>
<b>General</b>
<ul style="list-style-type: none"> <li>▪ Language supported - English</li> </ul>

## System Requirements

<b>Minimum Client Requirements</b>
<ul style="list-style-type: none"> <li>▪ Browser IE 8.0 Firefox 4.0 or higher, Chrome</li> </ul>
<ul style="list-style-type: none"> <li>▪ Intel 3<sup>rd</sup> generation i5 with 8GB of RAM running on Windows 7 and above</li> </ul>
<b>Minimum Server System Requirements</b>
<ul style="list-style-type: none"> <li>▪ Windows Server 2008 and 2012</li> </ul>
<b>Server Hardware Requirements</b>
<ul style="list-style-type: none"> <li>▪ Intel Dual Quad Core Xeon 3.0 GHz or higher</li> </ul>
<ul style="list-style-type: none"> <li>▪ Minimum 8 GB RAM</li> </ul>
<ul style="list-style-type: none"> <li>▪ 100 GB local hard drive</li> </ul>
<ul style="list-style-type: none"> <li>▪ Gigabit Ethernet connection</li> </ul>

#### Recommended Network

- Server side - 1 Gigabit network, multiple connections

#### Integration

- HTTP based APIs for integration

## 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.