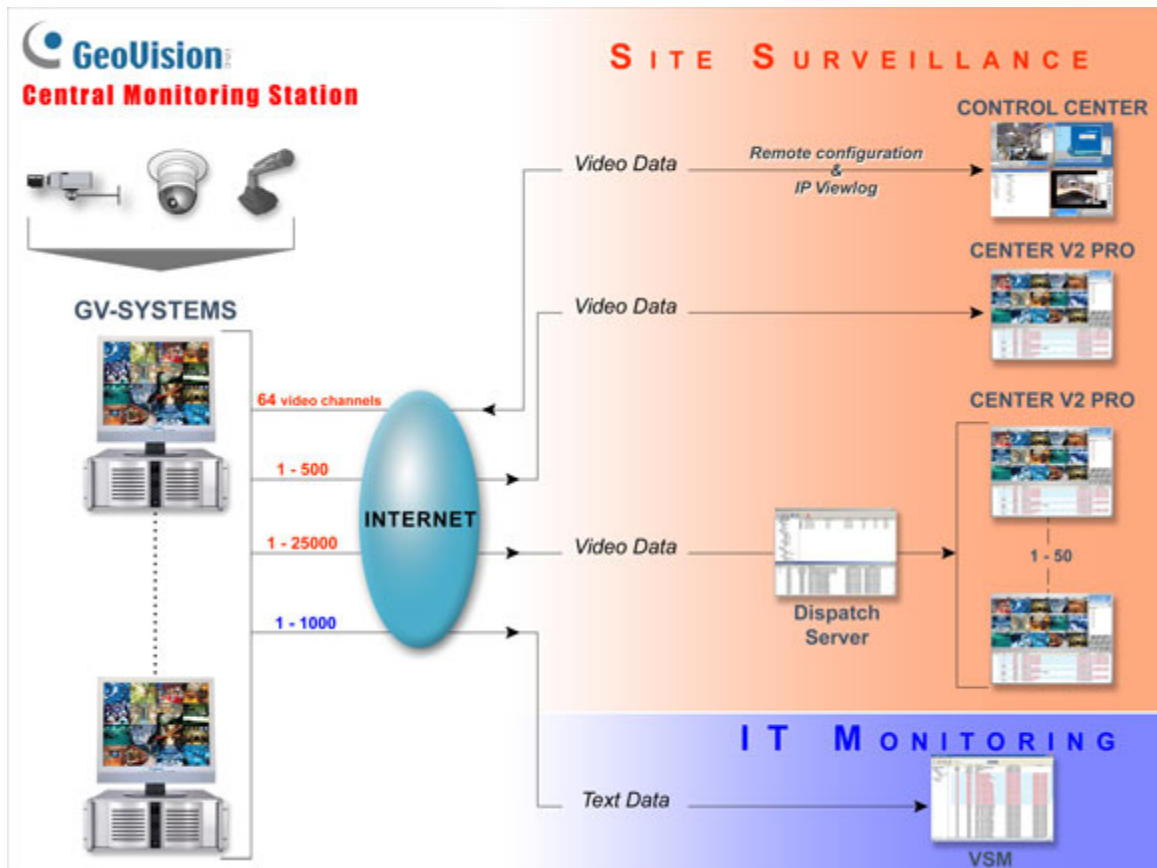


GV-Central Monitoring Station



INTRODUCTION

The GeoVision Central Monitoring Station program provides an overall central monitoring solution for high-profile security areas in commercial, industrial and residential use markets. Imagine how a security service center can utilize GeoVision Central Monitoring Station solution to manage its heavy task of DVR monitoring and surveillance in a casino for example. Numerous GV Surveillance Systems may be connected with hundreds of thousands of cameras and integrated with IR sensors, motion sensors, fire detectors, alarms, and POS systems. The complete and powerful network structure of the Central Monitoring Station will effectively reduce false alarms and efficiently dispatch the security guards to any gaming areas and the surroundings to relieve alerts.

THE CONCEPT OF GV-CMS

The GeoVision Central Monitoring Station (GV-CMS) structure includes four independently developed modules: GV-Center V2 (Pro), GV-Dispatch Server, GV-Vital Sign Monitor, and GV-Control Center. Each module has different functions and can be quickly deployed as part of the central monitoring infrastructure.

The basic functions of these modules can be summarized as follows:

- I. **GV-Center V2 Pro module** receives videos and messages, records, generates event logs, and sends notifications on alert conditions such as intrusion, fire, video lost, and system breakdown from 800 channels or 500 GV-Systems simultaneously.
- II. **GV-Dispatch Server module** balances Center V2 Pro network load, distributes client DVR requests from 25,000 GV-Systems to 50 Center V2 Pro, views real-time events, and tracks Center V2 Pro and Dispatch event logs.
- III. **GV-Vital Sign Monitor module** receives text alert messages from 1,000 client DVRs, outputs alarms, sends SMS or emails to designated people, monitors client DVRs' storage space and online status.
- IV. **GV-Control Center module** controls, configures, views live videos, records, plays back, and manages I/O devices from multiple client DVRs, for the purposes of IT maintenance and site surveillance.

These are the basic concepts and infrastructure of the modules for a central monitoring station. These modules provide powerful and reliable solutions to centrally manage numerous GV-Systems and efficiently deploy the central monitoring capability. Furthermore, they are cost-effective since they do not require any additional specialized hardware to run the servers.

Note:

1. Each GV-CMS module must be used independently in one single computer except the combined modules recommended:
 - Center V2 Pro
 - Dispatch Server
 - Vital Sign Monitor (VSM)
 - Control Center or IP Matrix
 - Dispatch Server + Vital Sign Monitor (VSM)
 - Center V2 + Vital Sign Monitor (VSM)
 - Control Center + Advanced Video Analysis
 - Control Center + Vital Sign Monitor (VSM) + Advanced Video Analysis
2. Although these four modules constitute a complete CMS structure, we do not recommend installing GV-Center V2 (Pro) and GV-Control Center modules on the same PC. *Running GV-Center V2 (Pro) and GV-Control Center on the same PC may result in CPU overload error or system failure.*

GV-CENTER V2 (PRO)/ GV-DISPATCH SERVER / GV-VSM MODULES COMPARISON

Features	Center V2	Center V2 Pro	Dispatch Server	VSM
Maximum # of Subscribers	5	500	25,000	1,000
Maximum # of Channels	160	800	400,000	-
Maximum # of Sensors / Alarms	720 / 720	72,000 / 72,000	3,600,000 / 3,600,000	144,000 / 144,000
Real-Time Audio Monitoring	Yes	Yes	Yes	No
I/O Control	Yes	Yes	No	Yes
Remote I/O Control	Yes	Yes	No	Yes
Remote PTZ Control	Yes	Yes	Yes	No
Auto Recording	Yes	Yes	No	No
Connection Lost Detection	Yes	Yes	-	Yes
Auto Connection Lost Recovery	Yes	Yes	Yes	Yes
Auto Login	Yes	Yes	Yes	Yes
Event Log	Yes	Yes	Yes	Yes
Event Message	Yes	Yes	Yes	Yes
Event List Viewer	Yes	Yes	Yes	Yes
Event List Filter	Yes	Yes	Yes	Yes
Dual Monitor Support	Yes	Yes	No	No
Network Load Support	No	No	Yes	No
Control of GV-Joystick	Yes	Yes	Yes	No
Backup to CD/DVD	Yes	Yes	Yes	Yes
Alarm Reports of Events	Yes	Yes	No	Yes
Notification Setting	Yes	Yes	No	Yes
Notification of SMS Alerts	Yes	Yes	Yes	Yes
Notification of E-mail Alerts	Yes	Yes	Yes	Yes
Notification of E-Map Alerts	Yes	Yes	No	Yes
Support for Mega Pixel Resolution	Yes	Yes	No	No
Group	Yes	Yes	Yes	Yes
Bandwidth	25M bps	25M bps	1M bps	4M bps
Record Mode	Live, Attachment, Both	Live, Attachment, Both	No	No
Live Subscriber Status	No	No	No	Yes
Time Synchronization	Yes	Yes	No	Yes
Keep Day Notification	No	No	No	Yes
I/O Device Support	Yes	Yes	No	Yes
Subscriber storage Info.	No	No	No	Yes