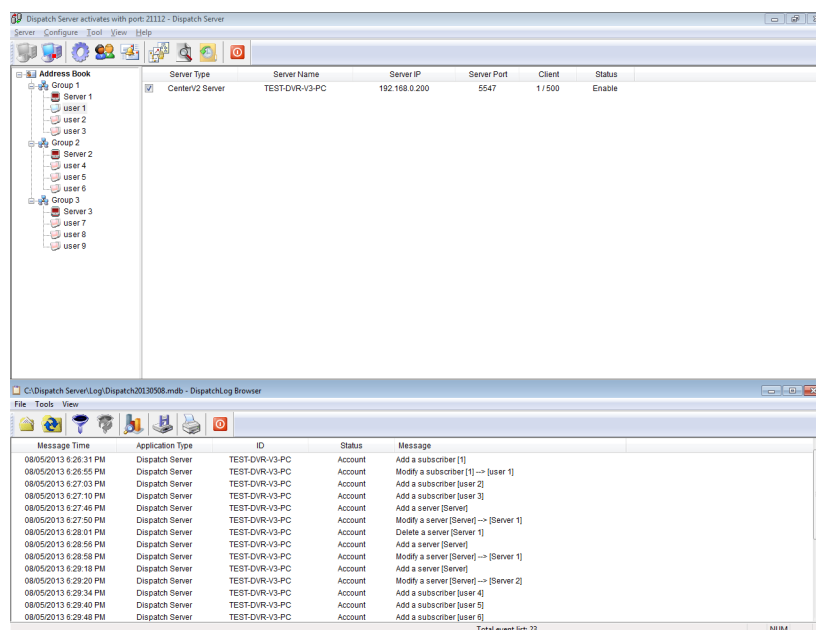# GV-Dispatch Server

INTRODUCTION

GV-Dispatch Server is a network management Dispatch software that distributes and organizes a mass number of live video surveillances among multiple GV-Center V2 servers. GV-Dispatch Server can connect up to 25,000 subscribers, i.e. GV-DVR / NVR / VMS, to be dispatched to a maximum of 50 GV-Center V2 Pro servers. It utilizes load-balancing technique to distribute alert events of the subscribers evenly across a GV-Center V2 network. When one GV-Center V2 starts to get swamped or fails to respond, the GV-Dispatch Server forwards and resumes the video event to another GV-Center V2 with more capacity.

BENEFITS

- Crucial to large-scale GV-Center V2 server networks: It is difficult to predict and avoid data swamp due to mass alert events, from multiple subscribers, at any given time in a large network security environment
- Ideal for corporates and franchises: where a large cluster of networked GV-DVR / NVR / VMS, with an enormous amount of video surveillance, is required
- Balanced streamlines and networking processes: no single server will be overwhelmed from its large quantities of video events

GV-DISPATCH SERVER FEATURES

- Up to 50 GV-Center V2 servers for a maximum of 25,000 subscribers and 40,000 channels
- Network load balancing: Distribute video and alert events from subscribers to GV-Center V2 servers by Group or by least connections available
- Access and view realtime GV-Center V2 events and its attached recordings
- Monitor and control the GV-Center V2s connected, e.g. online/offline status
- Remote PTZ control, video playback and two-way audio via Camera/Audio Control Panel
- Automatic connection recovery

SEARCH/PLAYBACK

- Keep tracks of GV-Center V2 event logs and Dispatch logs
- Search GV-Center V2 events by GV-Center V2 ID, event type and time
- Remote video playback with event video attachments
- Flag feature for highlighting important events

LOG BROWSER

- Display GV-Dispatch Servers info, including system services, GV-Center V2 login history, connection and Dispatch status
- Backup event lists and video files
- Log filters for advanced log history search

GV-Dispatch Server Specifications

Features	GV-Dispatch Server
Maximum # of Channels	40,000
Maximum # of Subscribers	25,000
Maximum # of Center V2	50
Maximum # of Sensors / Alarms	3,600,000 / 3,600,000
Real-Time Audio Monitoring	Yes
Remote PTZ Control	Yes
Remote I/O Control	No
Auto Recording	No
Event List Viewer	Yes
Event List Filter	Yes
Dual Monitor Support	No
Network Load Support	Yes
Automatic Connection Recovery	Yes
Supported Language	Arabic, Bulgarian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hebrew, Hungarian, Indonesian, Italian, Japanese, Lithuanian, Norwegian, Persian, Polish, Portuguese, Romanian, Russian, Serbian, Simplified Chinese, Slovakian, Slovenian, Spanish, Swedish, Thai, Traditional Chinese, Turkish

Minimum System Requirements

Standard Version Requirements

OS	32-bit	Windows 7 / 8 / 8.1 / 10 / Server 2008
	64-bit	Windows 7 / 8 / 8.1 / 10 / Server 2008 / Server 2012 R2
CPU		Pentium 4, 3.0 GHz with HT
Memory		2 x 512 MB Dual Channels
Hard Disk		1 GB
Graphic Card		PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color
Direct X		9.0c
Hardware		Internal or External GV-USB Dongle
Software		.Net Framework 3.5 SP1 and Chart Control

Advanced Requirements (Connects to 100 DVR subscribers or more)

OS	32-bit	Windows 7 / 8 / 8.1 / 10 / Server 2008
	64-bit	Windows 7 / 8 / 8.1 / 10 / Server 2008 / Server 2012 R2
CPU		Core2 Duo E6600, 2.4 GHz
Memory		2 x 1 GB Dual Channels
Hard Disk		1 GB
Graphic Card		PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color
Direct X		9.0c
Hardware		Internal or External GV-USB Dongle
Software		.Net Framework SP1 and Chart Control

Note: If you want to perform GPU decoding, refer to the *GPU Decoding Specifications*

GPU Decoding Specifications

A higher total frame rate can be achieved if your CPU or external VGA supports GPU decoding.

On-board VGA: GPU decoding is only supported when using the following Intel chipsets:
For **H.264** Video Compression • 2nd Generation Intel Core i3 / i5 / i7 Desktop Processors (Sandy Bridge) - only support 1 MP to 2 MP videos • 3rd Generation Intel Core i3 / i5 / i7 Desktop Processors (Ivy Bridge) • 4th Generation Intel Core i3 / i5 / i7 Desktop Processors (Haswell / Haswell Refresh) • 6th Generation Intel Core i3 / i5 / i7 Desktop Processors (Skylake) • 7th Generation Intel Core i3 / i5 / i7 Desktop Processors (Kaby lake) For **H.265** Video Compression • 6th Generation Intel Core i3 / i5 / i7 Desktop Processors (Skylake) • 7th Generation Intel Core i3 / i5 / i7 Desktop Processors (Kaby lake)
External VGA: GPU decoding is only supported when using NVIDIA graphics cards with compute capability 3.0 or above and memory 2 G or above. To look up the commute capability of the NVIDIA graphics cards, refer to: https://developer.nvidia.com/cuda-gpus.
Note: 1. One external NVIDIA graphic card can be supported to perform GPU decoding at free of charge. 2. GeForce GTX1060 is not supported.
On-board VGA + external VGA: To have both the on-board VGA and external VGA perform GPU decoding, the VGAs must follow their respective specifications listed above.
Note: 1. If you have both on-board VGA and external VGA installed, the on-board VGA must be connected to a monitor for H.264 / H.265 GPU decoding. 2. You can install multiple external graphics cards if needed.

Software License

Free License	N/A
Maximum License	50 Center V2 servers, 25000 subscribers from Center V2 servers
Increment for Each License	N/A
Optional Combinations	1. Dispatch 2. Dispatch + Vital Sign Monitor
Dongle Type	Internal or external

Note: It is recommended to use the internal GV-USB Dongle to have the Hardware Watchdog function which restarts the PC when Windows crashes or freezes.

Options

Optional Devices	Description
Internal USB Dongle	The USB dongle can provide the Hardware Watchdog function to the GV-Dispatch Servers by restarting the computer when Windows crashes. You need to connect the dongle internally on the motherboard.