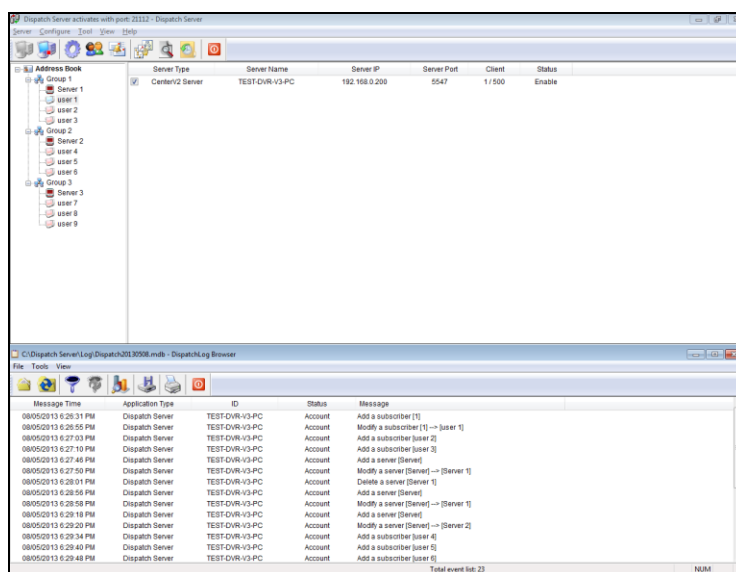


## GV-Dispatch Server



### INTRODUCTION

GV-Dispatch Server is a network management application that distributes a large number of video surveillances across multiple GV-Center V2 servers. Up to 25,000 subscribers, such as GV-NVR and GV-VMS, can be routed by GV-Dispatch Server to a maximum of 50 GV-Center V2 servers. It uses a load-balancing mechanism to distribute subscriber alert events fairly across a GV-Center V2 network. When one of the GV-Center V2 servers becomes overloaded or fails to respond, GV-Dispatch Server forwards and resumes video events to a higher capacity GV-Center V2.

### BENEFITS

- Crucial to large-scale GV-Center V2 server networks: in a large network security environment, it is difficult to predict and avoid data swamps caused by mass alert events from multiple subscribers at any given time.
- Ideal for corporations and franchises where a large cluster of networked GV-NVR and GV-VMS with massive video surveillance is required
- Balanced streamlines and networking processes: no single server will be overwhelmed by the volume 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 by group or with fewer subscribers
- Monitoring and control of GV-Center V2 online and offline status
- Real-time GV-Center events and recordings
- Live view and two-way audio from subscribers
- Subscriber schedule for specifying monitoring period and sending alerts when the schedule is not followed
- Event charts to provide daily, weekly and monthly statistical charts for event analysis
- Failover server support for uninterrupted monitoring services

### SEARCH/PLAYBACK

- GV-Center V2 event logs and Dispatch Server logs
- Dispatch Server logs: system services, GV-Center V2 login/logout and connection status, and Dispatch Server status
- Log filters for event search
- Remote playback of subscriber recordings
- Flag feature for highlighting important events

## 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	64-bit	Windows 10 / Server 2016
CPU		Intel Core i3 2130, 3.4 GHz
Memory		4 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 3.5 SP1 and Chart Control
Advanced Requirements (Connects to 100 DVR subscribers or more)		
OS	64-bit	Windows 10 / Server 2016
CPU		Intel Core i5 2500, 3.7 GHz
Memory		4 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 comes with onboard GPU or is connected to external GPU for GPU decoding.

**Onboard GPU:** GPU decoding is only supported when using the following Intel CPU:

For **H.264** Video Compression

- 2<sup>nd</sup> ~ 8<sup>th</sup> Generation Intel Core i3 / i5 / i7 Desktop Processors
- 9<sup>th</sup> ~ 11<sup>th</sup> Generation Intel Core i3 / i5 / i7 / i9 Desktop Processors

For **H.265** Video Compression

- 6<sup>th</sup> ~ 8<sup>th</sup> Generation Intel Core i3 / i5 / i7 Desktop Processors
- 9<sup>th</sup> ~ 11<sup>th</sup> Generation Intel Core i3 / i5 / i7 / i9 Desktop Processors

**External GPU:** GPU decoding is only supported when using NVIDIA graphics cards with compute capability 3.0 or above and memory 2 GB or above. To look up the compute 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.

**Onboard GPU + external GPU:** To have both the onboard and external GPU to perform GPU decoding, the GPUs must follow their respective specifications listed above.

**Note:**

1. If you have both onboard and external GPU installed, the onboard and external GPU 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.