



## SSM(Samsung Security Manager) SAMSUNG NETWORK TOTAL MANAGEMENT SOFTWARE

SSM is a one-stop management software platform that maximizes the efficiency of Samsung's network products (including network cameras, encoders, DVRs and NVRs). The client-server architecture features stable video surveillance system management through multi-site and multi-client configuration. Access to the live/recorded videos is extremely easy from remote sites making it suitable for medium to large-scale multi site applications.

### SSM Features

#### • Samsung network solution is the ideal choice for a total management system

Samsung Techwin's video surveillance products that include network cameras, encoders, DVRs and NVRs are effortlessly managed from a single SSM platform. The SSM is provided free of charge and is ideally suited to optimize the performance and management of Samsung network products.

#### • Efficient management via Multi-site & Multi-client configuration

Numerous clients can administer video surveillance products installed across multiple sites. This helps maximize the efficiency of the monitoring system enabling real-time management by the authorized personnel.

#### • Easy-to-use simple UI (User Interface)

Most of the essential functionalities required by users are possible with SSM; including simultaneous monitoring of maps/live images, real-time event monitoring, playback and not forgetting an automatic health check for each device.

#### • A system that offers flexibility and expandability

Adding new or replacing old devices is an easy process so that they can be changed on demand or on system expansion, using a simple add/replace feature.

#### • Immediate event management using an auto event reaction setting

Users can set specific reactions for a certain type of events, this allows for the immediate control of typical events, enhancing the monitoring efficiency.

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FEATURES		
Video	Supported Video Compression Format	H.264, MPEG-4, MJPEG
	Supported resolution	Depending on the device
Audio	Supported Audio Compression Format	G.711 u-law (PCM), G.723, G.726 (ADPCM)
	Functions	Bi-directional audio (Listen/Talk)
Live Monitoring	Multi-monitor	Up to 4 monitors (Follow the recommended system requirement)
	Screen-split mode	4:3 screen modes : 1/4/6/8/9/10/13/16/17/21/25/36/49/64 16:9 screen modes : 6/12/20/30 Full screen mode * While in multi-monitor environment, layouts and split modes for less than 100 channels will be available.
	Sequence mode	Up to 16-splits per monitor
	PTZ Control	Area Zoom, Go to 1xzoom, PTZ Sensitivity, Focus, Zoom, Patrol, Swing/Autopan, Group/Scan, Trace/Pattern, Preset, Iris control
	Map monitoring	Split View Mode for Map Layout, Zoom in/out, Video popup(Instant viewer), Camera/Sensor/Alarm icons on the map
Search & Playback	Simple Recording	Recording of the selected video tile during 1hour
	Functions	OSD On/Off, Snapshot/Prints Image, Brightness/Contrast control, Keep Aspect Ratio/Original size, Deinterlacing, Flip, Digital zoom
	Search mode	Date, Event, Smart Search, POS Search based on DVR, NVR, Local folder
	Screen-split mode	Up to 16 footages can be played simultaneously
	Video Control	Start/stop, Pause, Faster/Slower forward/backward, Step Forward/Backward, Skip Forward/Backward
Event Monitoring	Backup	Local storage, back up format(AVI, SEC), Configurable schedule for backup(supported model only)
	Real-time event list	Shows real-time event list of the device(event status, type, device, user, time(PC)), Viewing instant video image
	Searching events	- SSM : User, System - Device : System, Camera, Sensor, Alarm Out - Camera : Video Loss, Motion, Passing, Entering, Exiting, Disappearing (Appearing), Tampering, Scene Change, Tracking, Face Detection, Audio Detection
	Reporting	Manual report (show events and statistics) print & Save function, Format (excel, PDF, word)
	Confirming	Set alarm details Normal/Abnormal/Etc, confirm action
CONFIGURATION		
Site/User management		
Site/User group/User account management, Permission management for viewer functions		
Device management		
Automatic device IP scanning, Viewing the device settings(Device webpage), Exporting/Importing devices settings, Updating the device firmware		
Screen management	Layouts	Setting/Adding/Deleting Layouts, Map/Video Layout
	Monitor	Multi Monitor, Split Screen, Sequence, Using I-Frame, Using low-resolution
Environment		
OSD display, Date/Time, Capture, Recording, Startup, Language, UI auto lock, Log,		
System settings		
Backup/Restore SSM setups, Restore the default settings		
Time synchronization		
NTP Server, Client		
Update		
Automatic self upgrade(Connection to Samsung upgrade server)		
GENERAL		
Supported devices		
Samsung's N/W Camera, Encoder, DVR/NVR		
Maximum number of Media Gateways per system		
Default 4 Media Gateway		
Maximum number of cameras per Media Gateway		
N/W Camera 72channels or DVR/NVR 288channels(36)		
Maximum number of clients per Media Gateway		
5 Clients		
Modules		
System Manager, Media Gateway, Console, Service Manager, Schedule backup		
Language		
Total 23 languages support		
English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Swedish, Danish, Finnish, Norwegian		
System Requirement	Recommended	CPU Intel i7 (Sandy bridge) above, RAM 4GB above, Video memory 1GB above, HDD More than 20GB of free space for installation. (For operation, the system log database requires 10GB or more free space), DirectX 8.1 above. Display resolution : 1,280 x 1,024 above, OpenGL compatible
	Minimum	CPU Intel Core 2 Duo 2.83 GHz above RAM 2GB above, Video memory 512MB
	Operating System	- Console (Windows XP 32bit, Windows 7 32bit, Windows 7 64bit) - System Manager, Media Gateway (Windows XP 32bit, Windows 7 32bit, Windows 7 64bit, Windows Server 2003, Windows Server 2008)
SUPPORTED MODELS		
N/W Camera	Box	SNB - 7002/7001/7000/5001/5000/3000/2000/1000/1001/3002, SNZ - 5200, SNO - 5080R/7080R/1080R SNC - B2335/B2331/M300/1300/550/570
	Dome	SND - 7082/7080/5080(F)/3080(F)/3080(C)/F/1010 / 1080/1011/3082 SND - 7061/7011/5061/5011 SNV - 7082(F)/7080/5080/3080/5010/3120/5080R/3082/1080/1080R SND - 560/460V, SNC - B5368/B5399
	PTZ	SNP - 5200(H)/3430H/3370(TH)/3301(H)/33120(V/H)/3302(H)/SNP - 6200(H) SNC - C6225/C7225/C7478, SNP - 3300A/1000A/3750/3350 SPE - 400/100/101, SPE - 1600R, SNS - 400/100
Encoder		SRD - 1670(D/D/C)/1650(D/D/C)/870(D/D/C)/850(D/D/C)/470(D)/440 SRD - 1630(D)/1610(D)/830(D) SRD - 1652D/852D SRD - 480D SRD - 442
		SRD - 1640/840/1641/841 SVR - 1670/3200/1680(C)/1660(C)/1645/960(C)/945/480 SHR - 2000/5000/6000/7000/8000 SERIES SVR - 1650E/1640A/950E
		SRN - 6450/3250, SNR - 6400/3200, SRN - 1670D/470D, SRN - 1000
		NET-1 ware : SNS - SF064/032/016/008/004
NVR (H/W)		NET-1 ware : SNS - SF064/032/016/008/004
NVR (S/W)		NET-1 ware : SNS - SF064/032/016/008/004
N/W CONTROLLER		SPC - 2000

\* The entire items are not supported in every device. Some items are not supported in certain devices.  
\* Recommended system requirement : 64ch connection, 64ch D1 resolution Display (using 1PC)  
\* Minimum system requirement : 16ch connection, 16ch CIF resolution display (using 1PC)



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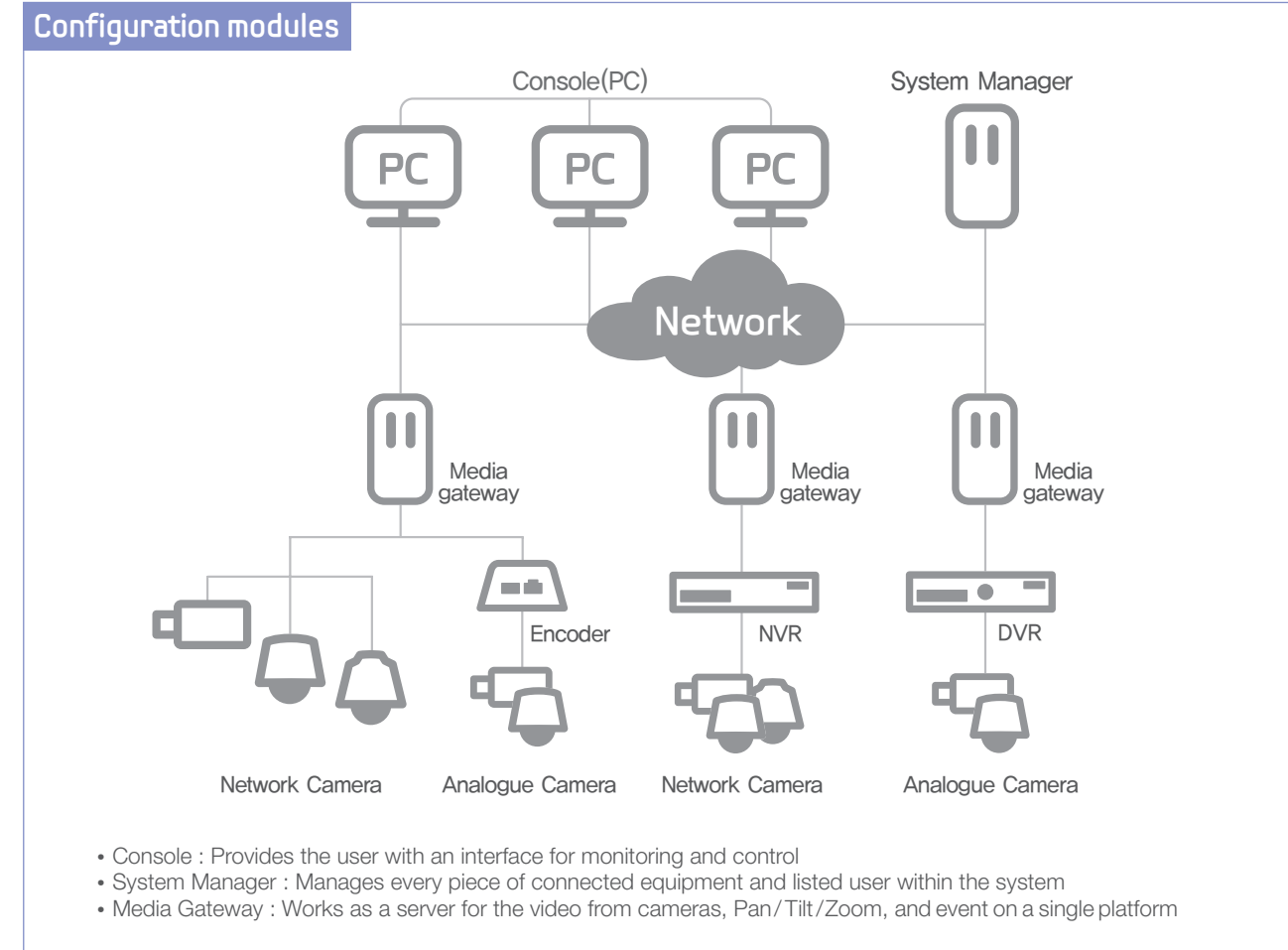
Samsung's unified network video surveillance platform

## Samsung Network Video Surveillance Management System

To maximize the benefits of network video surveillance solutions through an integrated management software whilst minimizing the complexity

# Multi-site / Multi-client monitoring

Conventional monitoring solutions have an on-site administrator to control the local devices; this can limit the scope when expanding the monitoring system. The SSM supports multi-site / multi-client monitoring that removes this limitation making it suited for mid to large sized monitoring applications.



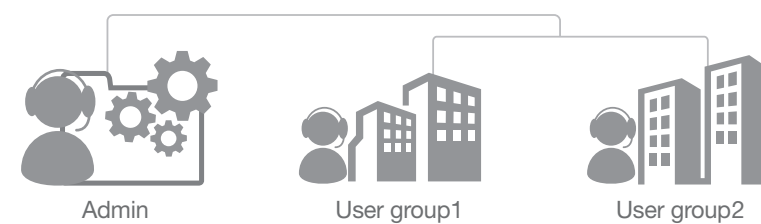
Up to 5 clients can simultaneously access the server that manages and monitors the remote devices with real-time access to the video sources, providing efficient/effective monitoring solution.

## Expandability

Network connected Samsung Techwin products are registered and managed by SSM server. The media gateway server can handle 72 Samsung network cameras or 36 DVRs/NVRs (based on 8CH system, support up to 288CH). The server can search the connected equipment, support health checks and automatically-upgrade each device to ensure that they are maintained in the best condition.

## Reliability and Security

Individual sites, users and user group management is controlled by the system manager. With this level of authorization access and management, certain sites or devices and management function can be controlled at user level.



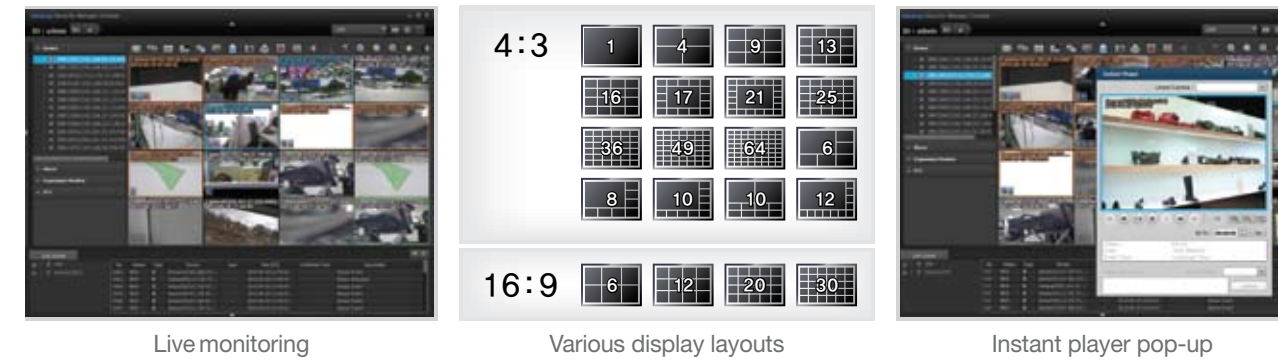
# One-stop Live / Map monitoring

## Efficient live monitoring

Samsung's intuitive UI design makes it simple to monitor live images and maps. One monitor can display 64CH, and with a maximum of 4 monitors connected up to 100CH can be monitored. The video images can be displayed in various formats; full screen, split screen, and 4:3/16:9, so that users can create best-fit layouts. If there are numerous administrators in a single control station, users can immediately load their own pre-saved display format layouts. The software will manage Samsung Techwin products and support image resolutions up to megapixel with a range of video/audio compression formats at different video profiles. These profiles will manage the network and computer environment to their optimum capability.

## Simultaneous monitoring / playback support

While monitoring a live view, the user can also playback recorded data on the same or a different device at the same time, this allows the user to compare the recorded data showing the suspicious event/person with the live view, helping to prevent potential incidents.



## Map monitoring

With SSM, an administrator can set a map-based layout to match with the live videos in real-time. Overlaying camera or sensor icons means the resolving of issues becomes extremely easy.

By utilizing map based monitoring together with live monitoring, an event pop-up window will appear on the location where the event has happened helping towards a quick resolution to the event.



# Efficient Alarm/Event Monitoring

When there is an event/alarm input, the SSM system manager will instigate a set of pre-set follow up actions of the related device. Once an event occurs, manager and administrators can approve and write a comment on it. The result and status of the events are recorded and can be referred to in post-event reporting.

## Event viewer

The real-time event viewer provides an event log including a single channel preview and event type that can be easily displayed. Useful information such as sorting by event type, comments written on each event and who approved them can be shown here. The event log also can be exported in excel/PDF format to be used as evidence for the incident.



## Event action

The setting of follow-up actions for each event can be managed in the event management function of the SSM. Matching motion detection, alarm or video loss with pop-up, move to preset and e-mail notification ensure prompt handling of events. For example, when network camera 1 gives a tampering event, pop-up for camera 2 which is installed in the corridor next to the camera 1 is possible providing the required information to the security staff.



# Easy, Convenient, and Smart Search and Backup

## Various searching mode

As well as date/time, POS (if using a Samsung DVR/NVR that support POS recording) and event/time-line searches which support preview images, a user can additionally check past events in a certain area or ROI (Region Of Interest). The Smart search from the SSM can extract the event that occurred in the ROI therefore reducing the search time.



## Backup function

Manual back up mode allows the user to select the required time-line, while the schedule back up mode will automatically back up the recorded data of the DVR/NVR at the pre-determined time. The backup can be done on the SSM PC and the user can extract the video when required.