
Enterprise, Scalable VMS Solutions with Surveon NVR3000
Application Notes



Technical Support Team

Background

In the small scope surveillance project, you can easily purchase a standalone entry level NVR for simple applications. For the professional or wide-scaled projects, most of the system integrators will consider the quality solutions with features like enterprise, scalability, and reliability. A common enterprise solution can be determined by the following points:

1. Recording performance and solutions
2. Support 3rd cameras, IO devices
3. Intelligent Video Analysis
4. Advanced VMS features
5. The Scalability for multiple NVR and the Video-Wall

Those enterprise solutions are widely used for the professional security projects like government, public utility, enterprise, manufacturing, intelligent building or the city surveillance.

Surveon NVR3000 series is the enterprise ready solutions with the aforementioned key features at competitive prices. It can be used for the retail applications at 4 – 16 channels per system or the intelligent building surveillance at 32-64 channels. And it can be scalable to 500 – 1000 channels in one single unified domain by Surveon Control Center. The video wall and multiple remote clients can also be expanded for the control center high end projects.

NVR3000 overview

There are two models in the NVR3000 series, NVR3104 and NVR3308. Both of them can support local display, dual monitors, video intelligence, eMap, video wall (with SCC server), RAID protection and full HD recording.

If your project only requires small quantity cameras less than 16 channels and doesn't require long retention days; NVR3104 is your best choice.



- Support 4/9/16 CH 1080P Recording
- Support 4-bay SATA Hard Disk
- Support RAID 1, 5, 6 for Data Protection
- Built-in Real-Time Video Intelligence Detection
- Built-in Dual Display
- Support Surveon Control Center (SCC)
- In-House Design & Production
- 2-Year Warranty

If your project requires more channels, longer retention days and power local display, you can choose NVR3308. It supports up to 8 hard disks and better CPU to do live-view decoding.

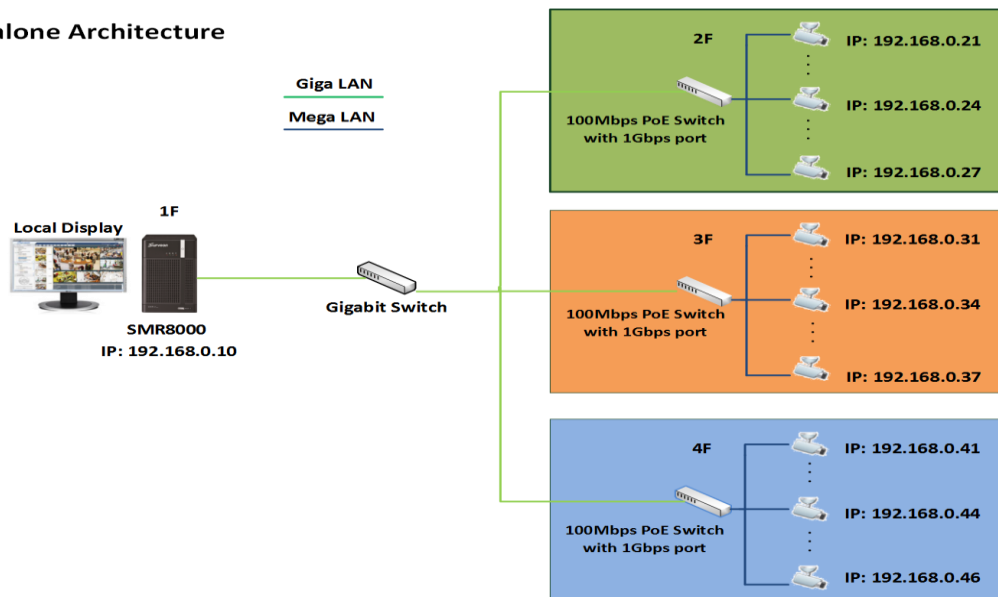


- Support 16/24/32 CH 1080P Recording
- Support 8-bay SATA Hard Disk
- Support RAID 1, 5, 6 for Data Protection
- Built-in Real-Time Video Intelligence Detection
- Built-in Dual Display
- Support Surveon Control Center (SCC)
- In-House Design & Production
- 2-Year Warranty

All in one applications

If your project is simple and only requires local display, you can adopt the below topology. The NVR* can be in the same IP segment as your IP cameras do. Users can directly monitor live-view, check playback and configure setups on the NVR*.

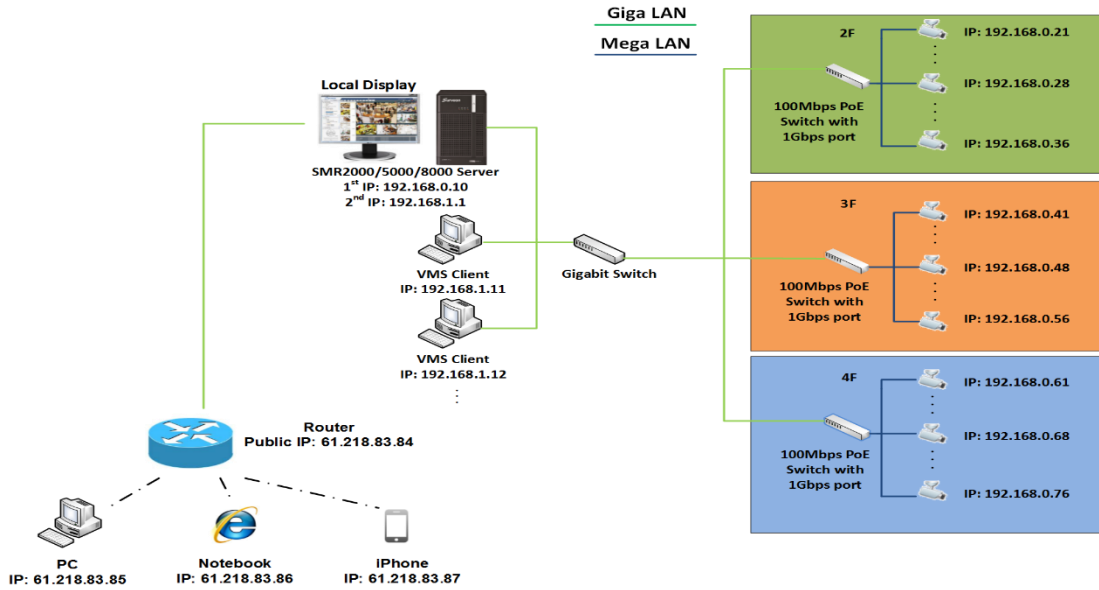
Standalone Architecture



* The NVR can be NVR3000/SMR/NVR2100

Diverse remote access application

If your project requests to have a NVR* for local monitoring but also have remote access from the local LAN or Internet, you can refer to the below architecture. The NVR* server can be used by security guard. And you can install the VMS remote client (Free of charge) to access to the NVR* without any connection limitation. For the mobile or Internet users, once you setup the router correctly you can also access to the NVR* server.

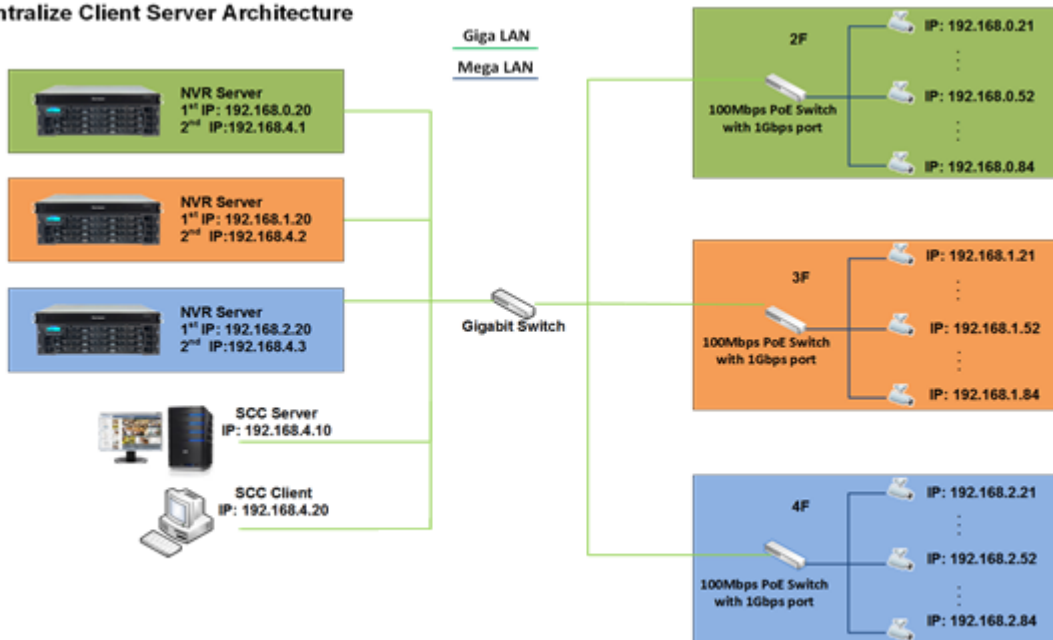


* The NVR can be NVR3000/SMR/NVR2100

Multiple NVR application

If your project includes more than 64 channels, you might need to deploy multiple NVRs*. You can separate the cameras to different NVRs* and use a SCC server to manage the NVRs*. For the SCC server, you will need to purchase the license depending on how many NVRs* you will need. Then different users can easily access to all NVRs* from a single entry point via the remote SCC client.

Centralize Client Server Architecture

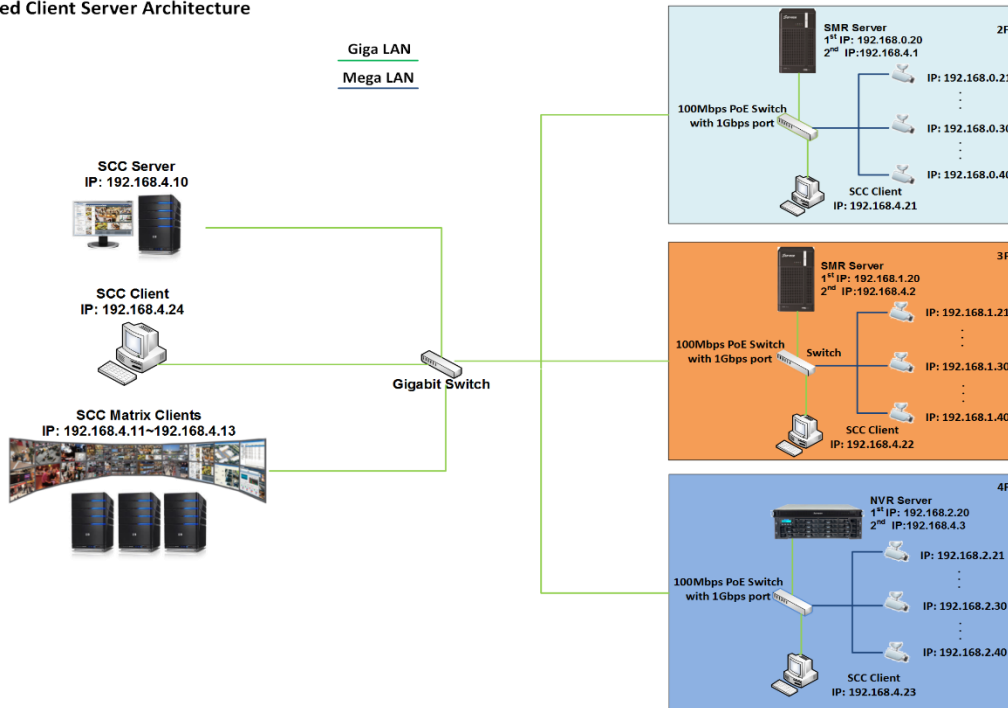


* The NVR can be NVR3000/SMR/NVR2100

Multiple NVR with Video Wall Application

Based on the previous architecture, if your project requires the video wall feature, you can have the multiple SCC video wall matrix clients and add the PC to SCC server. And then SCC client can fully control all the SCC video wall matrix clients. In addition, the video wall license fee is already include in the SCC license fee. You can extend the number of video wall matrix clients unlimitedly to display more channels.

Distributed Client Server Architecture



Conclusion

The Surveon NVR3000 is a competitive NVR model which provides full enterprise NVR features with cost-effective price. This model can be deployed for small projects or the 1st stage of projects. And you don't need to worry about the expandability.

1. You can easily integrate this NVR3000 to any other Surveon NVR servers.
2. You can easily use SCC system to manage multiple NVR3000 and other Surveon NVR servers.

Based on this architecture, the NVR3000 can be scaled from 16 channels to more than 1000 channels.

For further information, please visit our web site to check in advance.

NVR3104: <http://www.surveon.com/product/NVR3104.asp>

NvR3308: <http://www.surveon.com/product/NVR3308.asp>