
Introduction on Surveon Scalable VMS Solutions

Application Notes



Technical Support Team

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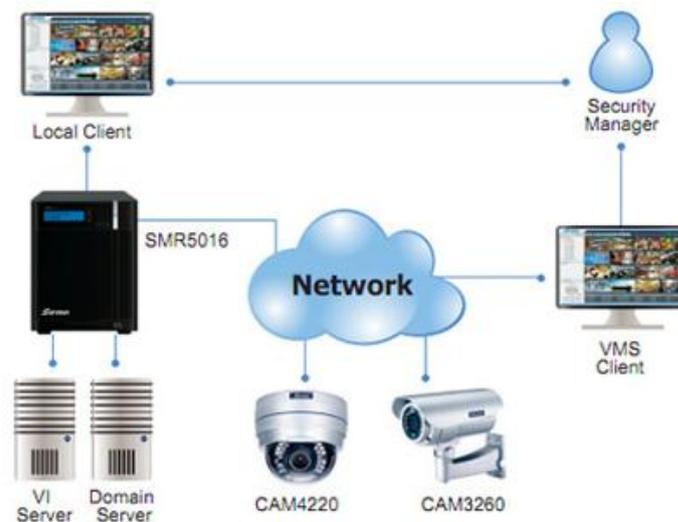
Surveon VMS solutions is base on a scalable client server architecture to fit different project sizes, such as small projects with single site, medium projects with multi sites and the advanced projects with multiple site as well as the TV-Matrix functionalities. With the flexible deployment, Survoen’s unified client and the domain management provide solutions including **Standalone**, **Master/Slave**, and the **Surveon Control Center (SCC)** for different project scales.

Table 1-1

	Standalone	Master/Slave	SCC
NVR Unit	1 unit	Under 8 units	8~ unlimited
Multi Channels	Under 64	64~500	64 ~unlimited
Multi NVR management	X	O	O
TV wall (Matrix wall)	X	X	O

1. Single Site Standalone architecture

The first one, **Standalone solution**: a Standalone NVR is used for small projects such as retail and factory application. For this kind of project, the camera quantity is usually under 64 channels.

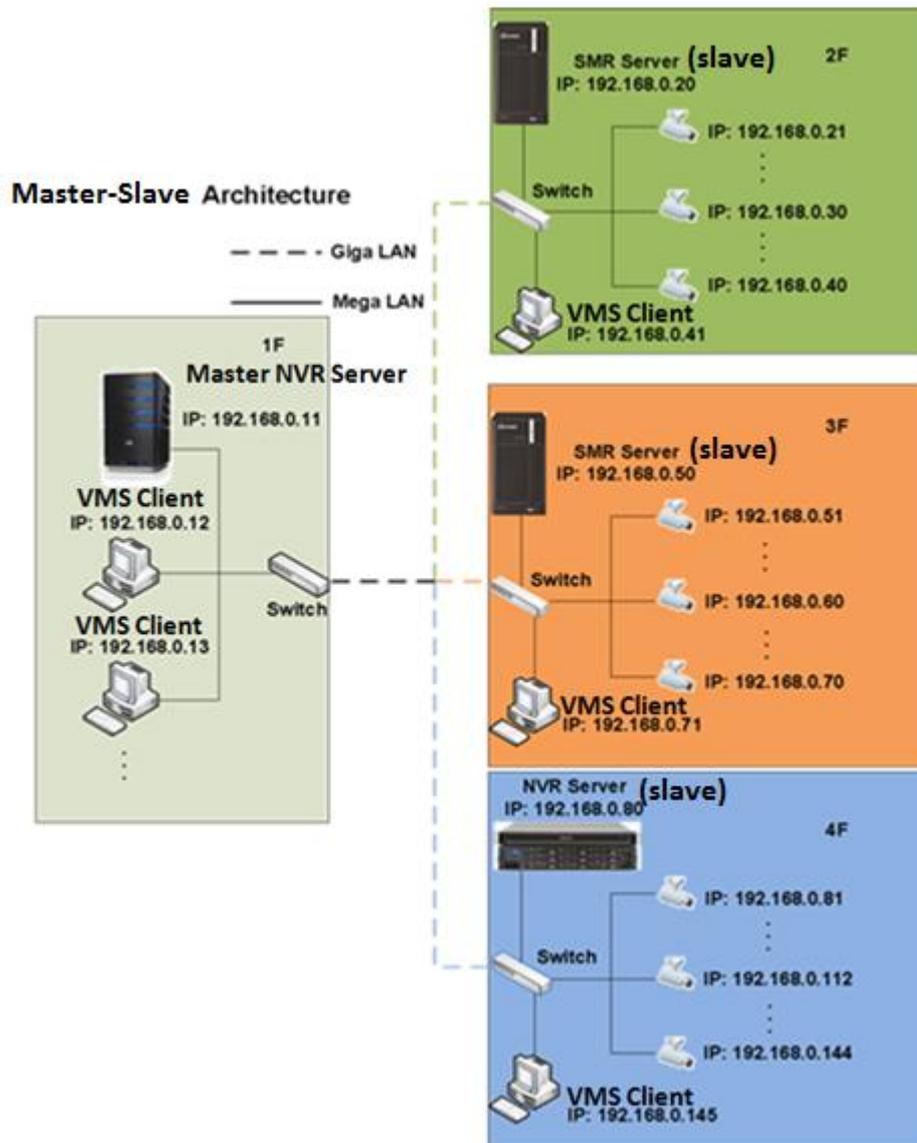


Picture1: The architecture of standalone solution

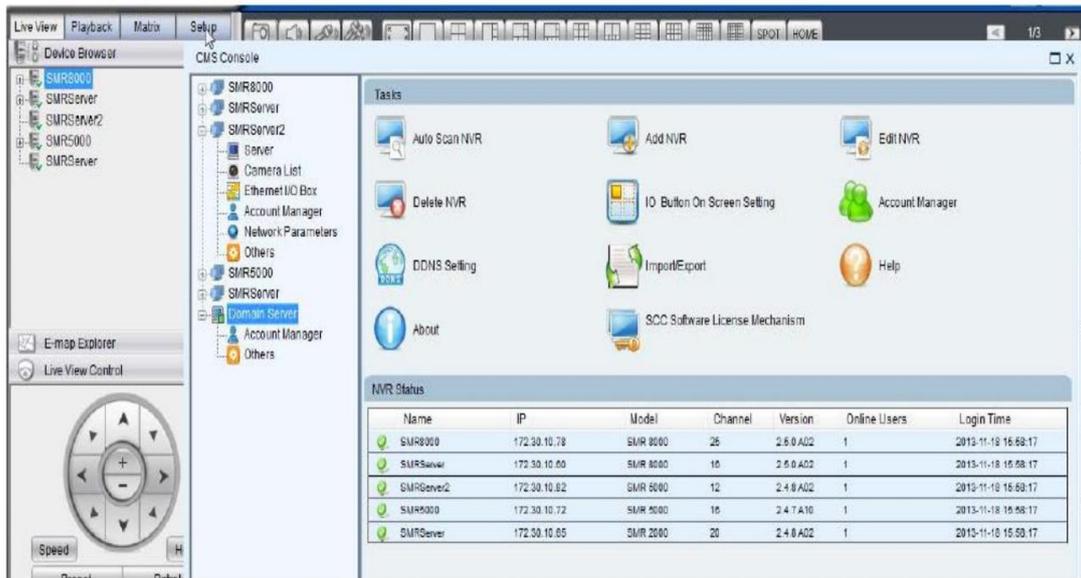
2. Multiple NVR – Master/Slave architecture

The second one, **Master/Slave** solution: dozens of NVR are used for 100+ cameras for medium scale projects (Picture2).

Based on Surveon’s client/server architecture, all the accounts are centralized and managed by the Master NVR server, and the video streaming and recorded videos are distributed to each NVR (Picture3).



Picture2: The architecture of Master/Slave solution



Picture3: The Master NVR server can add multiple NVRs in the domain server list.

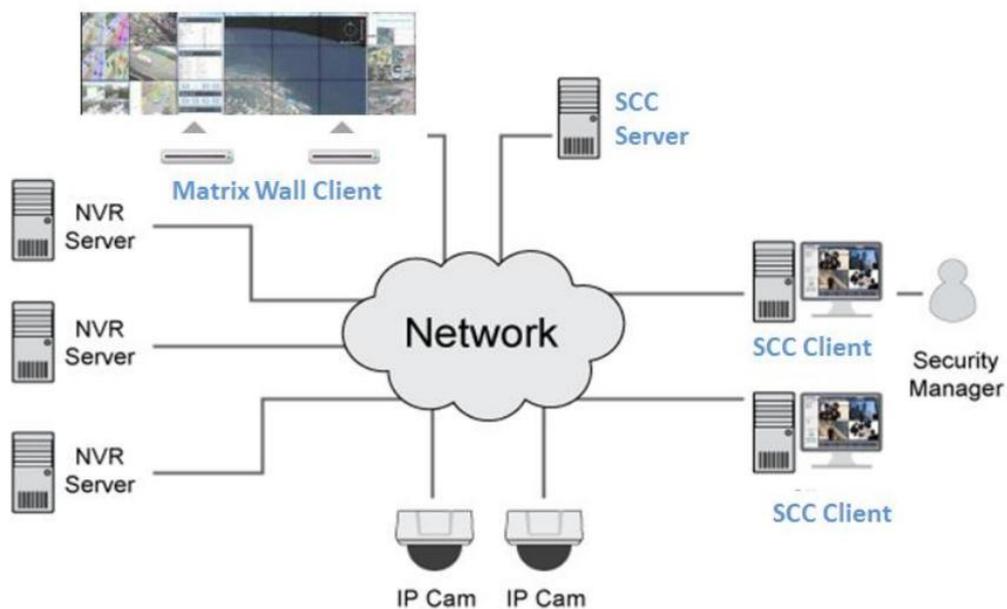
3. The Surveon Control Center Solutions

The Surveon SCC provides the highest scalability and functionality for the security projects. For a large scale project, there is always a central room to manage the central monitoring; Surveon SCC covers hundreds channels' live view videos, I/O device control, alarm management, Intelligent video analytics such as license plate recognition, intrusion detection and so on. Surveon Control Center 2.5 is based on the enterprise VMS frame work, providing scalable high end solutions for projects over 500+ CH megapixel surveillances. (Picture4)

SCC Server: Handles central account, I/O and alarm management.

SCC Client: Handles Liveview display, playback, matrix wall configurations and setups. It can be operated in a local site or a remote site.

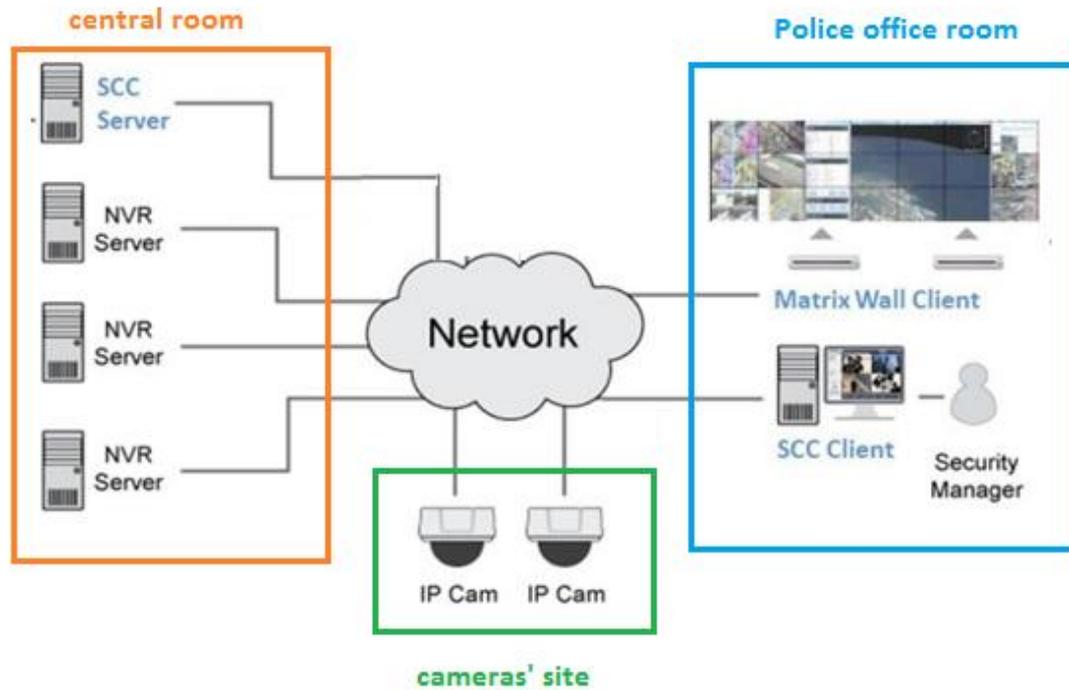
TV Matrix Client: Handles TV Matrix Display. It is dynamically expandable to support more TV matrix.



Picture4: The architecture of domain sever solution

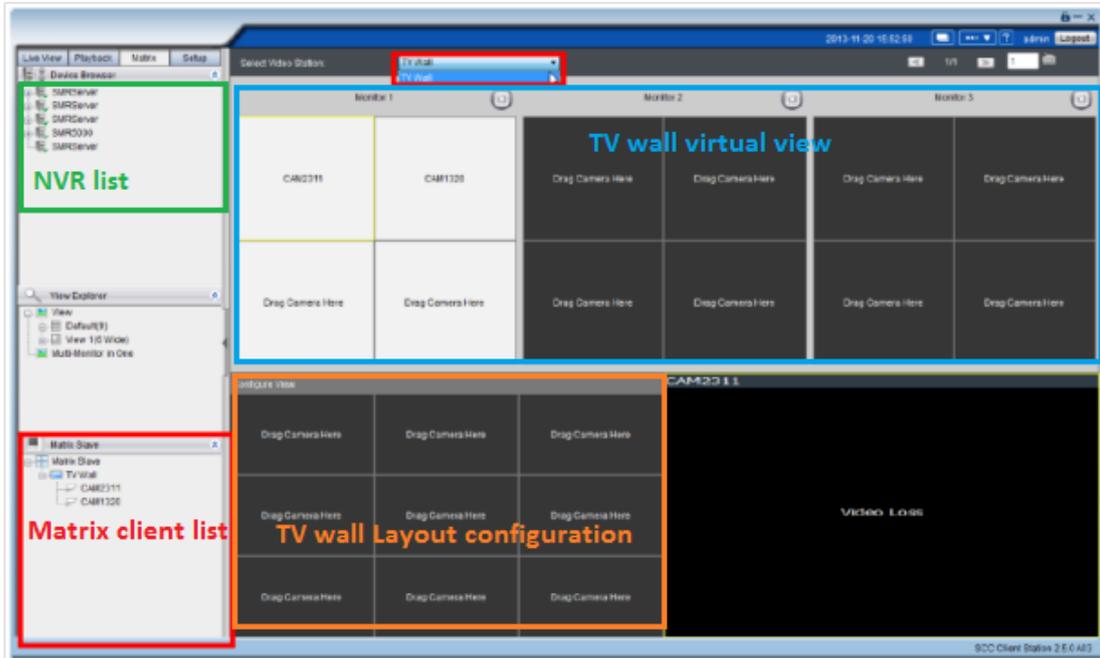
Case study

Surveon assisted their clients in the north Asia for its city surveillance project, covering 400 channels of Surveon 3M cameras for outdoor monitoring. The initial stage was 1 SCC client and 6 Matrix clients with 12 monitors built in the police office room, and 1 SCC server and 8 NVR servers installed in the central room (Picture5).

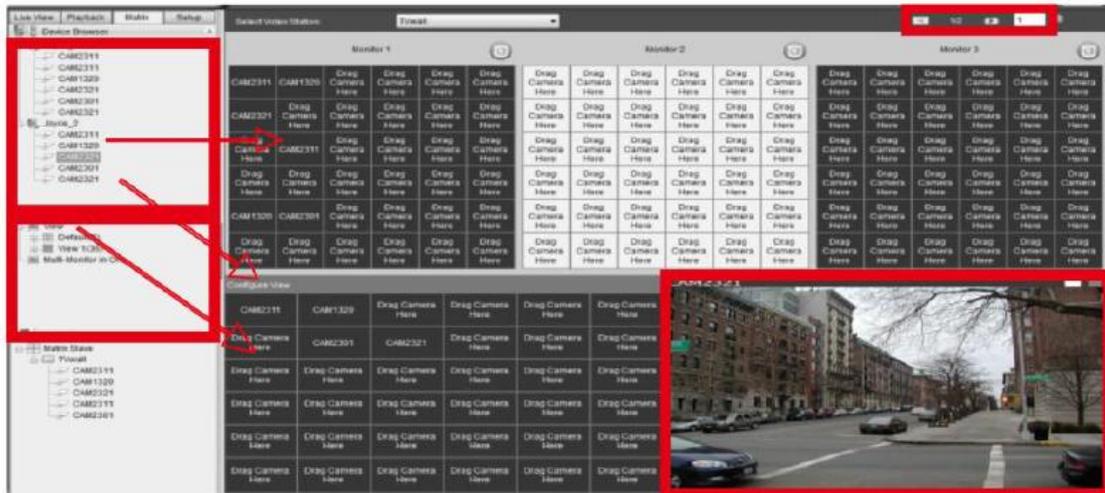


Picture5. The architecture of domain server solution in Mongolian traffic surveillance

In this architecture, police officer used SCC client to login to SCC server; SCC client can provide live video and playback video from NVR server directly after obtained the authentication of the SCC server. Users also can use SCC client to setup Matrix wall in SCC server with ease, such as adding and changing layout on Matrix wall (Picture7).



Picture6: Matrix Configure UI in SCC server



Picture7: Matrix Configure UI in SCC server