

## **Goal-line – Intelligent CCTC**

### **How to work and manage multi-site CCTV system.**

Closed-circuit television (CCTV) is known as video surveillance system. It uses of video cameras to transmit signals to a specific place. which use the camera to catch media information and transmit to control center room for several applications. Such as security monitoring, face recognizing, searching and so on.

In the past, the problem is huge storage capacity for video storage. But for now, we need to speed up the network bandwidth since the high pixel video recording requirement and more demand for more and more cameras. Furthermore, the network environment is more complicated due to network expansion and lack of forwarding bandwidth.

### **MSI provides overall solution for CCTV system**

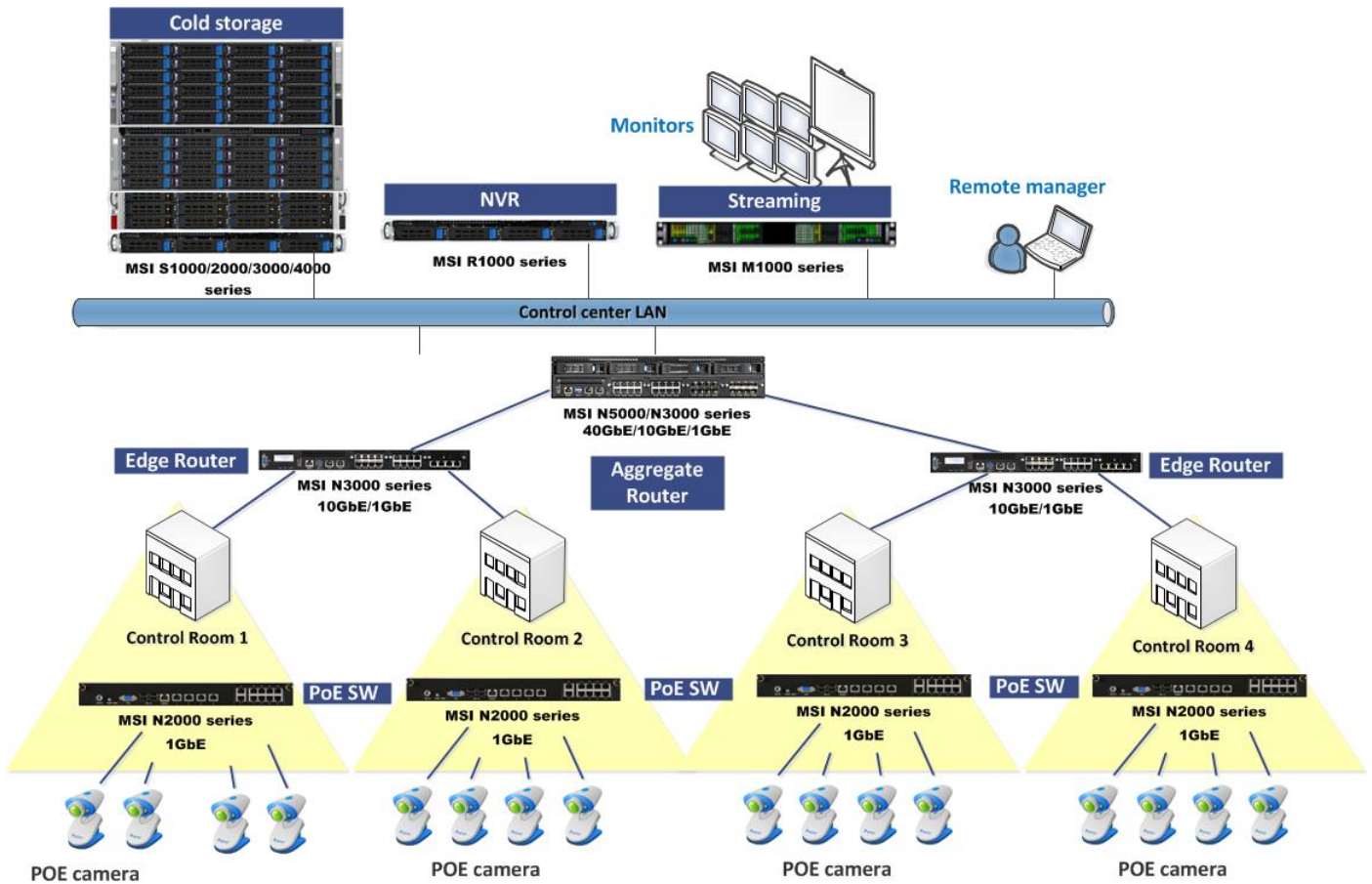
- **Solving network bottleneck:**

For solving the bottleneck of network issues, MSI N2000 series is able to be a high performance/price ratio for each control room to connect with PoE cameras. Considering the expanding control sites, we suggest to set up N3000 series to be edge routers. MSI N3000 series can be configured as 10GbE/1GbE for aggregating data with low latency. Thus, for combining the all edge routers, N5000 series can bring all edge router's data to control center through 40GbE/10GbE. MSI offers versatile Ethernet network modules to customized your ideal CCTV network, including RJ-45 copper and Fiber from Ethernet 1GbE, 10GbE to 40GbE. MSI NIC modules is supporting current N5000, N3000 and N2000 series products so that you can allocate NIC modules flexibility on your CCTV system.

- **Enhancing media server performance and capacity**

MSI also provides R1000 series to sustain NVR requirement and be able to link to MSI S1000/2000/3000/4000 series high density storage for cold storing. On the other hand, reducing the video data transmission is important to get all camera information quickly and reducing network bandwidth as well. Therefore, MSI M1000 series is designed for video decoding/encoding mission. So that you could watch the overall surveillance information by monitors wall by lowest cost of CCTV infrastructure.

Figure 1. MSI Intelligent CCTV



**MSI solutions for CCTV system**

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|  <p><b>Performance</b><br/>High end security solution in Telecom and large enterprise<br/>o o : Discover</p> |  <p><b>Mainstream</b><br/>Enterprise and campus security solution<br/>o o : Discover</p> |  <p><b>Server Message Block (SMB)</b><br/>Small box security service and vCPE solution<br/>o o : Discover</p> |
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|  <p><b>4U</b><br/>Huge capacity storage server<br/>o o : Discover</p> |  <p><b>3U</b><br/>Optimized for computing and storage balance<br/>o o : Discover</p> |  <p><b>2U</b><br/>Most popular size for storage server<br/>o o : Discover</p> |  <p><b>1U</b><br/>Economized space with high computing solution<br/>o o : Discover</p> |
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**Media Streaming System**  
Decode and encode video solution

o\_o : Discover



**Network Video Recorder  
(NVR)**

Store huge video data solution  
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