SONY

Technical Guide | Network Video Management Software

System Design Guide

Network Video Management System
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NVMSTG003
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1. Overview

1.1. About This Document

This document describes the recommendation for better security with your Network Video Management Software.

2. General setup

To help secure your surveillance system, Sony recommends the following:

- Restrict access to servers. Keep servers in locked rooms, and make it difficult for intruders to access network and power cables.
- Design a network infrastructure that uses physical network or VLAN segmentation as much as possible:
  - Separate the camera network from the server network by having two network interfaces in each recording server. One for the camera network, and one for the server network.
  - Put the mobile server in a “demilitarized zone” (DMZ) with one network interface for public access, and one for private communication to other servers.
  - Many precautions can be taken when it comes to general set up. In addition to firewalls , these include techniques to segment the network and control access to the servers, clients and applications.
- Configure the VMS with roles that control access to the system, and designate tasks and responsibilities.

2.1. Follow Microsoft OS Security best practices

Sony recommends that you follow the security best practices for Microsoft operating systems (OS) to mitigate OS risks and maintain security. This will help you keep the Microsoft servers and client computers secure.

For more information, see “Microsoft Security Update Guide,” which is available here: https://technet.microsoft.com/en-us/security/dn550891.aspx

2.2. Use a firewall between the VMS and the Internet

The VMS should not connect directly to the Internet. If you expose parts of the VMS to the Internet, Sony recommends that you use an appropriately configured firewall between the VMS and the Internet.

If possible, expose only the NVMS Mobile server component to the Internet, and locate it in a demilitarize zone (DMZ) with firewalls on both sides.

Revision History

Date	Revision	Description
2016/07/11	1.0.0	First edition.