

**SONY®**

# Network Video Management System

Standard Edition

Enterprise Edition

Release Note

Software Version: 2017 R2

Revision 1 (Last Modified: June 25, 2018)

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Revision History

Revision	Date	Description
Revision 1	June 25, 2018	First release

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## **New in Network Video Management System Enterprise Edition 2017 R2**

### **Lower total cost of ownership with hardware accelerated VMD**

Video motion detection (VMD) decoding is moved from the CPU to the GPU part of the Intel CPU to significantly reduce the CPU load and improve performance of the recording servers. Users can expect to see up to an 85% reduction in the CPU load with the same amount of cameras on the recording server compared to previous versions. This means more cameras can be run on each server compared to previous versions, resulting in lower total cost of ownership. It is also possible to fully use video motion detection with H.265.

Notes:

- For CPUs supporting hardware decoding, see:  
<http://ark.intel.com/search/advanced?s=t&QuickSyncVideo=true>
- For recording server system requirements see:  
<https://www.milestonesys.com/support/resources/system-requirements/>
- If the hardware and system requirements for hardware decoding is not met the recording server will fall back to software decoding

### **Simple and predictable setup for single-server installations**

Selecting “Single Computer” set up during the initial installation automatically performs certain configurations for an easier installation experience for installations where all system components are installed on the same server.

### **Play audio file as rule action**

The rule engine has been extended to support playback of pre-recorded announcements and messages on selected speakers attached to audio devices or cameras.

Supported audio clip formats are; Wave files (\*.wav), Windows Media Audio (\*.wma), Free Lossless Audio codec (\*.flac).

## **New in Sony NVMS Standard and Enterprise 2017 R2**

### **Sony NVMS Web Client – PTZ control using mouse gestures**

Sony NVMS Web client now supports PTZ mouse gestures with the possibility to toggle between two modes of control: “Swipe” and “Tab and hold”

## What's new in Sony NVMS Clients 2017 R2

### Improve incident response with alarm list for Sony NVMS Web Client

Users get a quick overview of incidents flagged in the system since their last log in. The alarm list will show all system alarms in an easy overview so users can quickly take action when needed. Users can also see details for each alarm and can playback related video directly from the list.

The alarm list is available for both Sony NVMS products.

## Changes or Issues Solved

### Changes compared to Sony NVMS Standard 2016 R3 (10.2)

Scanning for hardware through IP-range scanning outside the local subnet now works.

Scanning for ONVIF hardware devices only now works.

The matrix view item response time have been improved.

In a master-slave setup, the MIP plugin configuration from slave Event Servers is now available in the master Event Server.

In the Management Application, dual authentication now works for basic users.

### Changes compared to Sony NVMS Enterprise 2016 R3 SP1 (10.2b)

#### Logging for deleting an alarm definition

Deleting an alarm definition now creates an entry in the audit log.

The network communication between the Event Server and SQL Server is now encrypted.

Device discovery could sometimes not detect certain hardware devices, this have has been fixed.

Fixed an issue in the event server where some custom MIP messages could not be received after a restart.

Storing historical data for the System Monitor will now be disabled by default for new installations.

#### Supported SQL servers

Support for Microsoft SQL server 2008 and 2008 R2 (all versions) have been discontinued.

See system requirements pages for supported versions:

<https://www.milestonesys.com/SystemRequirements>

#### Recording server changes

The encryption used on the media database has been changed from DES-56 to AES-256.

The digital signing used on the media database has been changed from MD5 to SHA-2.

The media database performance has been improved by optimizing the implementation of so-called “multi-threading locks” and the “table split” function. With more than around 150 cameras running on the recording server, the throughput to the media database has been increased and the disk write time has been reduced. The specific gain depends on the actual server, storage and camera configuration used.

#### Changes compared to Sony NVMS Management Client 2016 R3 SP1 (10.2b)

The Sony NVMS Management Client 2017 R2 supports login and management of systems running any version of Sony Enterprise NVMS.

The same applies to management of Federated Architecture installations.

When upgrading the management server to version 2017 R2, the System Monitor will not show the correct state for available disk space on recording servers until the recording servers also are upgraded to 2017 R2.

#### **Changes compared to Sony NVMS Standard 2016 R3 (10.2) and Enterprise 2016 R3 SP1 (10.2b)**

##### Event server changes

The event retention settings for the event server have been redesigned to allow for detailed control of the retention settings per each individual event type. The default retention time per event type for new installations is as below:

- All standard events will be stored for 0 days
- External, analytics and MIP plug-in events will be stored for 1 day

The following events will never be stored in the database:

- Motion detected
- Motion stopped
- Recording started
- Recording stopped

When upgrading to the Sony NVMS Products 2017 R2 version, the configured event retention time will be kept for events that previously had specific retention settings. For all other events the new default retention settings will be applied.

The event handling performance of the event server has, due to the above changes and optimization of the event server itself, been significantly increased.

In Sony NVMS Enterprise, the event retention is now configured in the Management Client Options dialog, on the Alarms and Events tab

### **Changes compared to Sony NVMS Smart Client 2016 R3 (10.2)**

Improved visual experience of video rendering when frames are missing in an unstable network environment.

Fixed issue related to persisting changes in carousel view-item.

In the Alarm Manager, the alarm list now follows the language flow direction.

Fixed an issue seen in some installations where setting hardware acceleration to "auto" could introduce video latency if the Windows OS and/or hardware used did not support hardware acceleration.

Fixed an issue where the Sony NVMS Smart Client in some cases could crash if using the "Dual Authentication" feature.

### **Changes compared to Sony NVMS Web Client 2016 R3 (10.2)**

No changes.

### **Changes compared to Sony NVMS Mobile 2016 R3 (10.2)**

The visual design and navigation structure for the Android client has been optimized when used on tablets.

### **Changes compared to Sony NVMS Smart Wall 2016 R3 (10.2)**

Fixed an issue related to dragging a view to Smart Wall overview.

### **Additional information**

- For latest software, see Sony web site:  
<http://www.sony.net/CameraSystem/NVMS/Software>
- For administrator manual and user manual, see Sony web site :  
<http://www.sony.net/CameraSystem/NVMS/Manuals>
- For technical documents, see Sony web site:  
<http://www.sony.net/CameraSystem/NVMS/Technical-Documents>
- For system requirements, see Sony web site:  
<http://www.sony.net/CameraSystem/Product-info>