



TECHNICAL INFORMATION

# **SMAVIA APPLIANCE VIDEONETBOX III**

## **NEW FEATURES AND CHANGES**

SOFTWARE VERSION 9.11.9 SP B

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# ABSTRACT

This document contains information on new features and changes that are introduced with the current software version. Finally, the document provides an overview of the major innovations and changes that have been introduced with the various software versions.

# VALIDITY

This document applies to the SMAVIA appliance VideoNetBox III.

# COMPATIBILITY

The appliance is compatible with the following hardware and software after the update to the current version:

- SMAVIA Viewing Client 2 as of version 2.8.13
- SMAVIA Viewing Client 3 as of version 3.0.22
- PService3 as of version 3.5.15
- SeMSy® III Video Management System as of version 1.7.3
- HEMISPHERE SeMSy® Video Management System as of version 1.2.38



## **Software Download**

*The current software versions (SMAVIA and PService) can be downloaded from the appliance in the System > Download dialog.*

# GENERAL NOTES

Note that

- this update is free of charge.
- this update is suitable for appliances with a version as of 9.11.8.
- this update is suitable for appliances with a valid maintenance license.
- the innovations are only generally described in this document.
- the use of some functions may require a license subject to charges.
- the Dallmeier support hot-line is always available for further questions.

# PROCEDURE

The update is available in the download center at [www.dallmeier.com](http://www.dallmeier.com). It can be executed via network with the PService3 software or directly at the appliance using a USB stick.



## **Risk of data loss**

*Do not execute this update while the appliance is synchronizing or restoring the RAID system.*

# NEW FEATURES AND CHANGES

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## REDUNDANT RECORDING OF NETWORK CAMERAS

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**Description** This function allows **video streams to be recorded on two recorders simultaneously**. This creates additional **security through redundancy**, which may be required for legal reasons.

**The first recorder** is defined as the master. It serves the camera as a time server and defines all settings such as resolution or frame rate. The **redundant recorder** is completely passive in this respect and does not make any settings on the camera. The video stream is recorded with the timestamp and settings set by the first recorder.

The redundant recording is activated on the **redundant recorder** under **Recording > Cameras / Tracks > LP Track** (of the respective camera) > **Secondary Recording**.

Both **Encoder 1** and **Encoder 2** (supported as of this version free of charge) of the camera can be used. For each stream, **separate settings for VCA and motion detection** are also possible.

Please note that this function is currently supported by Dallmeier network cameras with the following firmware versions:

- 8.4.2.x (series 5200, 5300 and 5400)
- 10.1.2.4 (series 5100)
- 11.1.0.17 (series 5250 and 5450)

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## CORRIDOR MODE WITH SINGLE-SENSOR CAMERAS: AUTOMATIC ROTATION BY 90°

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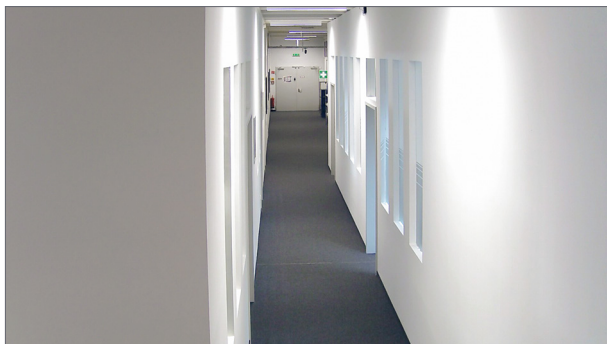
**Description** Starting with the current version, SMAVIA Recording Server supports **client-side image rotation** for vertically aligned scenes.

An image rotation is particularly suitable for video protection of **vertically aligned scenes** such as elongated rooms (corridors), streets and sidewalks, platforms or fences.

First, the camera or lens/sensor unit is physically rotated during installation so that the scene is not captured in an aspect ratio of 16:9 or 4:3 (landscape format) as usual, but in an aspect ratio of 9:16 or 3:4, i.e. in **portrait format**. Thus, the full available sensor resolution can be used exclusively for **important image areas** and the recording of superfluous information on the sides of the image can be avoided. The corresponding setting for image rotation is then made in the "Video" dialog of the camera.

The recorder and the client software (SMAVIA Viewing Client, SeMSy) automatically recognize the image rotation of the camera. No further settings need to be made. The captured image is automatically displayed in portrait format and **all VCA functions** as well as the private zones are **adjusted accordingly**.

An additional advantage of automatic image rotation is that allows cameras to be **mounted more flexibly**. Dome cameras can be mounted on the wall, IR cameras on the wall and ceiling rotated by 90°, without the alignment of the video material having to be corrected if necessary.



Sensor aspect ratio 16:9  
No physical camera rotation  
No client-side image rotation



Ssensor aspect ratio 9:16  
Physical camera rotation of 90°  
Client-side image rotation of 90°

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## E-MAIL DISPATCH OF VCA EVENTS WITH IMAGE

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**Description** Previous versions of SMAVIA Recording Server have already supported the automatic dispatch of an e-mail when a variety of events occurred (camera failure, HDD failure, etc.).

The current version of SMAVIA Recording Server supports this feature for VCA events as well (Motion Detection, Intrusion, Line Crossing, etc.). If the **video content analysis** detects an **event**, an **e-mail** with the **type of event** and the **corresponding image** can now be sent automatically.

The relevant events are activated under **Network > Alarm Hosts > Messages > Settings**. Note that VCA event dispatch can be set separately for each camera.

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## MANUAL TRACK MODE

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**Description** In addition to the familiar **Automatic** track mode, the **Manual** track mode is available free of charge from the current version.

By default, the recorder is in **Automatic** track mode. The system automatically allocates the **same amount of storage space** to each track. This is independent of the recording mode of the track (e.g. permanent recording or motion detection only).

In **Manual** mode, the **storage space** for each camera is **assigned manually**. This allows you to **make better use** of the **available storage** depending on the recording mode of the track. Apart from that, the storage duration of the tracks can be adapted precisely to **legal** or **operational requirements**.

The track mode can be set under **Recording > Cameras / Tracks > Settings > Track Mode**.

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## CONTACT FUNKTION SUSPEND MESSAGES

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**Description** The new **Suspend Messages** contact IN function prevents system messages from being output to the user interface or over the network (including e-mail) for a specific period of time.

The function is activated under **Interfaces > Contact IN**. Note that the relevant time period must be entered as a contact parameter.

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## EXTENSION VIPROXY PLUS

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**Description** The optional **ViProxy Plus** function has been extended for the current version of SMAVIA Recording Server.

This function allows the operation of cameras in their own network segment (network interface 1). Recording systems and workstations (with PService3) are operated in a second network segment (network interface 2). Starting with the current version, PService3 can access the cameras of the first network segment via the recording system in order to execute updates or download log files.

The recording system opens the channel to the camera only temporarily. After an update is executed or the files are downloaded, it is instantly closed again.

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## GENERAL OPTIMIZATIONS

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**Description** Various optimizations have been integrated into the current version of SMAVIA Recording Server in the course of general system maintenance:

- Decoding of H.265 streams using PRemote-HD optimized
- Query of ONVIF profiles for 3rd party cameras optimized
- Improved monitoring of TLS certificate validity
- PAL / NTSC can be set for each camera / track
- Update the software in the **System > Download** dialog

# CHANGE HISTORY

Below you will find tabular overviews of the major innovations and changes that have been introduced with the various software releases.

New / Changed Features	Software Version																				
	9.11.4 SP A	9.11.5 SP A	9.11.6	9.11.7 SP A	9.11.8	9.11.9 SP B															
Bit rate up to 50 Mbps for Dallmeier IP cameras	x	x	x	x	x	x															
LDAP messages with describing text	x	x	x	x	x	x															
Detailed messages on camera failure	x	x	x	x	x	x															
Export on NTFS media	x	x	x	x	x	x															
VCA technology	x	x	x	x	x	x															
LAN Data Interface	x	x	x	x	x	x															
Bonding of Ethernet Channels	x	x	x	x	x	x															
Function MaxAge	x	x	x	x	x	x															
DMVC Server with 4K	x	x	x	x	x	x															
License DLC - ViProxy Plus	x	x	x	x	x	x															
HTTPS/DaVidS encryption	x	x	x	x	x	x															
Recording of H.265 video streams	o	x	x	x	x	x															
VCA events to alarm host	o	x	x	x	x	x															
Setting MTU Size	o	x	x	x	x	x															
Moxa interfaces as of version 2.5	o	x	x	x	x	x															
RAID 1 with two SSDs	o	x	x	x	x	x															
Only one channel license for one Panomera®	o	o	x	x	x	x															
Secure network authentication (IEEE 802.1X)	o	o	x	x	x	x															
HTTPS/DaVidS to SMAVIA Viewing Client	o	o	x	x	x	x															



New / Changed Features	Software Version																	
	9.11.4 SP A	9.11.5 SP A	9.11.6	9.11.7 SP A	9.11.8	9.11.9 SP B												
Recording of Encoder 2	o	o	x	x	x	x												
Support Bank Package	o	o	o	x	x	x												
Definition of passwords at first start	o	o	o	x	x	x												
Support USB to Serial Adapter	o	o	o	o	x	x												
Redundant recording of network cameras	o	o	o	o	o	x												
Automatic corridor mode	o	o	o	o	o	x												
E-mail dispatch of VCA events with image	o	o	o	o	o	x												
Manual track mode available	o	o	o	o	o	x												
Contact function Suspend Messages	o	o	o	o	o	x												
VIProxy Plus with direct access for PService3	o	o	o	o	o	x												

x = New/changed feature available in software version

o = New/changed feature not available in software version

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