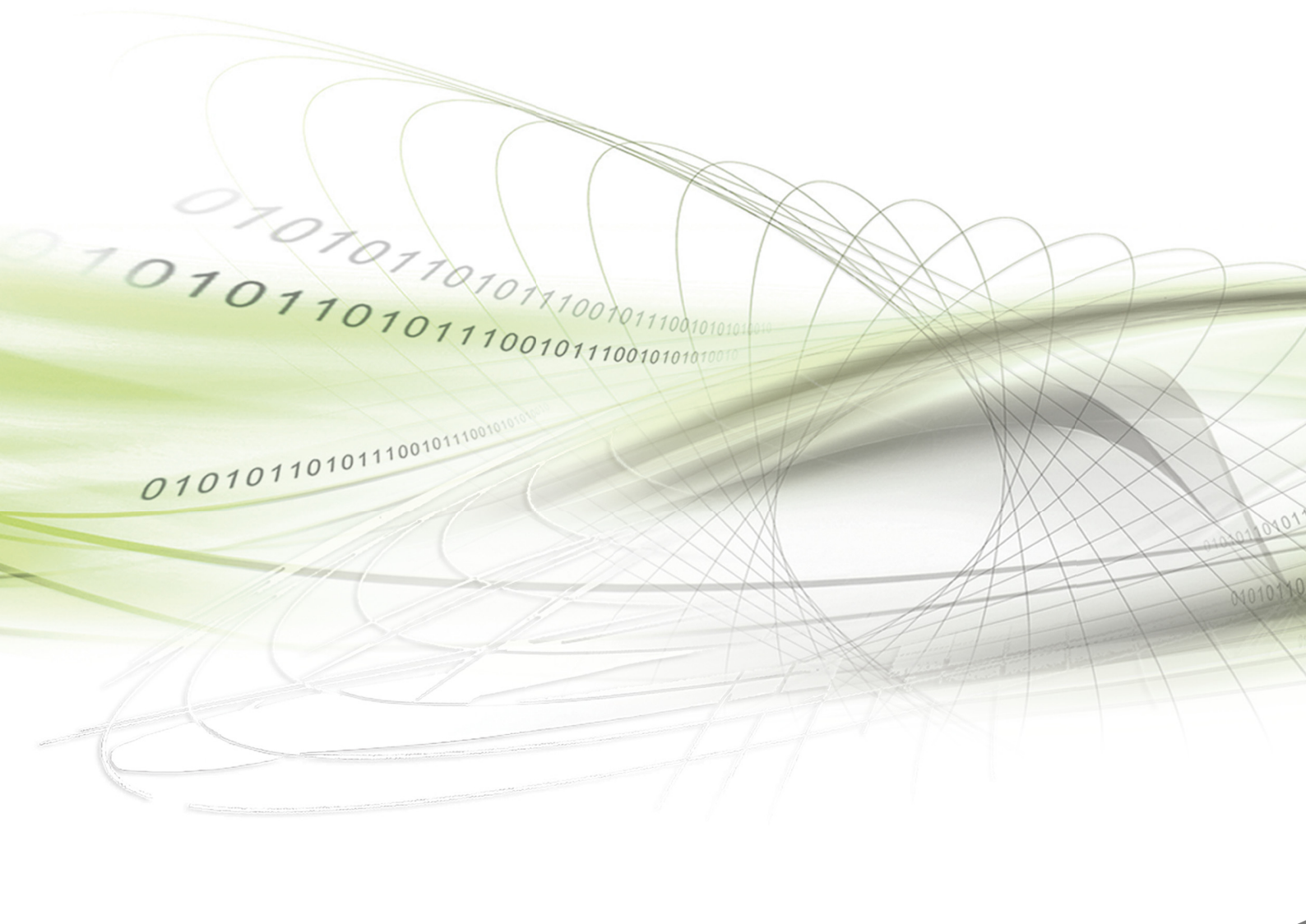


# SMAVIA Recording Server

## Version 8.7.7 SP B

### IPS 2400



## 1 Abstract

This document contains information on news and changes that are introduced with the current version of the software. Additionally, it provides an overview on the tested and supported functional range of the various software versions.

## 2 Validity

This document applies to the software **SMAVIA Recording Server**, pre-installed on the appliance **IPS 2400**. It has been created on basis of the software version 8.7.7 SP B.

## 3 Compatibility

The software **SMAVIA Recording Server** is compatible with the following hardware and software after the update to the current version:

<b>SMAVIA Viewing Client</b>	as of version <b>2.1.0.6</b>
<b>SMAVIA Viewer</b>	as of version <b>2.1.0.6</b>
<b>PService</b>	as of version <b>2.1.3.13</b>
<b>ActiveX-based Dallmeier control</b>	as of version <b>1.3.1.11</b>

## 4 Notes

Note that

- this update is free of charge.
- 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 hotline is always available for further questions.

## 5 Procedure

The update is available on the corresponding **product page** at [www.dallmeier.com](http://www.dallmeier.com). It can be executed via network with the **PService** software or directly at the appliance by using a **USB flash drive**.

### NOTICE

#### Risk of data loss

Do not perform this update while the appliance is synchronising or restoring the RAID system.

## 6 Innovations

### Panomera® Configuration

<b>Description</b>	<p>The current version of the <b>SMAVIA Recording Server</b> software has been further optimized for the <b>recording of Panomera® multifocal sensor systems</b>.</p> <p><b>Panomera® multifocal sensor systems</b> can be recorded in the <b>Motion Detection</b> mode since the last version. Therefore, the active area for the motion detection had to be defined in the single Panomera® Sub-Channels. This configuration step has been simplified. Now, the active area can be set conveniently in the <b>Panomera® Master-Channel</b>. The configuration of all Panomera® sub-channels is adjusted automatically.</p> <p><i>Panomera® multifocal sensor systems can be recorded in the <b>Permanent</b> or <b>Contact</b> mode as well.</i></p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Panomera® Streamer for SVC

<b>Description</b>	<p>A <b>Panomera® Streaming Server</b> provides a single Full HD stream that comprises the various Sub-Channels (streams) of a <b>Panomera® multifocal sensor system</b>.</p> <p>The current version of the <b>SMAVIA Recording Server</b> software now supports <b>lossless zooming</b> in this stream with the <b>external software SMAVIA Viewing Client (SVC)</b>. And as a <b>digital PTZ function</b>, the zoomed area can be placed anywhere.</p> <p><i>The <b>digital PTZ function</b> for the stream from a Panomera® Streaming Server is available in the <b>Live</b> mode and in the <b>Playback</b> mode as well.</i></p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### EdgeStorage & SmartBackfill

<b>Description</b>	<p>The <b>EdgeStorage for Emergency Recording with SmartBackfill</b> function has been enhanced for recording in the mode <b>Motion Detection</b>.</p> <p><b>EdgeStorage</b> stores the recordings permanently on the internal memory of the camera in case of a network failure. <b>SmartBackfill</b> transmits the recordings to the SMAVIA appliance when the network is available again. The SMAVIA appliance <b>stores the buffered recordings permanently</b> and then continues with the recording of the regular stream in the mode <b>Motion Detection</b>.</p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Support of new Camera Series

<b>Description</b>	The current version of SMAVIA Recording Server has already been extended for the <b>support</b> of the upcoming camera series <b>DF5200HD</b> , <b>DF5300HD</b> and <b>DF5400HD</b> .		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Support of Ethernet I/O Interface

<b>Description</b>	The current version of SMAVIA Recording Server has been extended for the <b>support</b> of an <b>Ethernet I/O interface</b> (Moxa ioLogik E1214). This device allows for the triggering of <b>Contact IN</b> and <b>Relay OUT</b> functions over the <b>network interface</b> of the appliance.		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>	Optional license (DLC - Ethernet I/O Interface for SMAVIA)		

### Shellshock gaps

<b>Description</b>	<p>The security alerts regarding the <b>Shellshock Bug</b> (CVE-2014-6271, CVE-2014-6277, CVE-2014-6278, CVE-2014-7169, CVE-2014-7186, CVE-2014-7187) refer to a vulnerability of the command line interpreter <b>GNU bash</b>.</p> <p>For maintaining of the highest possible system safety, the <b>current version integrates the GNU Bash 3.2 p56</b> from October 02, 2014. The new version of the GNU Bash does not allow the exploit of the published Shellshock gaps any more.</p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Fail2Ban Function

<b>Description</b>	<p>As of the current version, a <b>new function</b> for maintaining the highest possible system safety is integrated in SMAVIA Recording Server.</p> <p><b>Fail2Ban</b> especially analyses failed connection attempts of external clients. The corresponding <b>IP address is blocked for a certain period of time</b>, if the function detects indications of an attack.</p> <p><i>An indication of an attack is e.g. the repeated connection attempt with a false password.</i></p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Internal Services and Rights

<b>Description</b>	In order to maintain the highest possible system safety, various <b>internal services</b> (e.g. time server) have been optimized for the current version of SMAVIA Recording Server. Now, they are no longer <b>executed</b> with administrator rights but <b>with defined user right</b> .		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Internal Database

<b>Description</b>	As part of the general system maintenance, a new <b>password</b> for the internal <b>database</b> has been specified in the current version of SMAVIA Recording Server.		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Secure NetConfig

<b>Description</b>	<p>As of the current version, a <b>new function</b> for securing the remote configuration with the software <b>PService / NetConfig3</b> is integrated.</p> <p>If the option <b>System Security &gt; Secure NetConfig</b> is enabled, the feature prevents a local login as long as a connection for remote configuration is active. In the live mode without login, only the defined splits are displayed. This effectively prevents spying or intervention in important configuration steps.</p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### NetConfig and Forced Login

<b>Description</b>	<p>As of the current version, a <b>new function</b> is integrated for the software <b>PService / NetConfig3</b>.</p> <p>The software now offers the function to <b>force the login</b> on the appliance, if a connection for remote configuration is already active.</p> <p><i>Note that the login can be forced only with an administrator account.</i></p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### Automatic Logout

<b>Description</b>	The current version of SMAVIA Recording Server has been extended regarding the <b>user management</b> .		
	The new option <b>Max. Online</b> for the <b>SMAVIA Viewing Client (SVC)</b> can be set individually for every user group. After the set period is expired, the SMAVIA Viewing Client is automatically logged out.		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### New License Codes

<b>Description</b>	As of the current version of SMAVIA Recording Server new encryption algorithms are used, resulting in a changed <b>structure of the license codes</b> .		
	Newly purchased license codes for the current version can be entered without further ado. <b>License codes</b> that have been purchased <b>for an older version</b> have to be entered <b>prior to the update</b> . A conversion of license codes cannot be offered.		
	<i>Note that already purchased license codes must be entered prior to the update.</i>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

### RTSP Audio Recording

<b>Description</b>	The current version of SMAVIA Recording Server has been extended with a function for the recording of external <b>RTSP audio streams</b> .		
	The RTSP audio stream is received <b>from a suitable encoder / streamer</b> over the network interface. The stream is <b>assigned to the corresponding camera</b> in the <b>recording setting dialogs</b> . During recording, the <b>audio and video streams are merged</b> and stored together.		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

**Timer for MaxView**

<b>Description</b>	<p>The current version of SMAVIA Recording Server has been extended regarding the function <b>MaxView</b>.</p> <p>The new function <b>Timer</b> can restrict the access rights on the recordings for each user group using a week planer.</p>		
<b>Availability</b>	X	Update	X Installation ex factory
<b>Hardware</b>		Necessary	X Not necessary
<b>Requirements</b>			

## 7 Functional Range

The described general functional range of the software may possibly not be relevant for all devices. The use of some functions may require a license subject to charges. Always observe the corresponding specifications of the device.

	8.7.1 SPA	8.7.1 SP C	8.7.2 SP B	8.7.2 SP C	8.7.3	8.7.5 SP B	8.7.6 (SPA)	8.7.7 SP B
Recording of HD and megapixel cameras with 8 Mbps	O	X	X	X	X	X	X	X
PRemote-HD audio via WAN	O	O	X	X	X	X	X	X
Forwarding of SEDOR® messages	O	O	X	X	X	X	X	X
Log for IP cameras	O	O	X	X	X	X	X	X
Proxy for iPhone Server software	O	O	X	X	X	X	X	X
Transmission of the audio stream via TCP/RTSP	O	O	O	X	X	X	X	X
Recording 3rd Party IP Cameras with Motion Detection	O	O	O	O	X	X	X	X
Support of hard disk drives with 4 TB	O	O	O	O	X	X	X	X
Video Traffic Shaping	O	O	O	O	X	X	X	X
Control of 3rd Party IP PTZ cameras via ONVIF	O	O	O	O	O	X	X	X
Stop PTZ camera (Tour)	O	O	O	O	O	X	X	X
Switching by timer for HD IP cameras	O	O	O	O	O	X	X	X
Optimal support of large RAID systems	O	O	O	O	O	X	X	X
Recording Panomera® multifocal sensor systems	O	O	O	O	O	O	X	X
Support of EdgeStorage & SmartBackfill	O	O	O	O	O	O	X	X
IP Finder for network scan	O	O	O	O	O	O	X	X
Total bit rate 144 Mbps	O	O	O	O	O	O	X	X
Support of hard disk drives with 6TB	O	O	O	O	O	O	X	X
Definition of active areas in the Panomera® Master-Channel	O	O	O	O	O	O	O	X
Lossless digital zoom for Panomera® Streamer	O	O	O	O	O	O	O	X
EdgeStorage with Motion Detection	O	O	O	O	O	O	O	X
Patch for Shellshock gaps	O	O	O	O	O	O	O	X
Fail2Ban function	O	O	O	O	O	O	O	X
Internal services with user rights	O	O	O	O	O	O	O	X
New password for internal database	O	O	O	O	O	O	O	X
Functions Secure NetConfig and NetConfig Force Login	O	O	O	O	O	O	O	X
Automatic logout for SMAVIA Viewing Client	O	O	O	O	O	O	O	X
New encryption algorithms and license codes	O	O	O	O	O	O	O	X
Recording of external RTSP audio streams	O	O	O	O	O	O	O	X

X = Function is available in version

O = Function is not available in version





Dallmeier electronic GmbH & Co.KG  
Cranachweg 1  
93051 Regensburg  
Germany

Tel.: +49 (0) 941 87 00-0  
Fax: +49 (0) 941 87 00-180  
[www.dallmeier.com](http://www.dallmeier.com)