

SeMSy[®]III Video Management System

Version 1.6.4

English

1 Abstract

This document contains information on new features and changes introduced with the latest software version.

Finally, this document provides an overview of the tested and supported range of functions of the different software versions.

2 Validity

This document applies for the **SeMSy®III** video management system. The descriptions in this document are based on the software version **1.6.4**.

3 General Notes

Note that

- the software update to version **1.6.4 is free of charge**.
- the **update** of license **dongles is subject to costs**.
- some features may be subject to costs.
- the changes are only generally described in this document.
- the Dallmeier support hotline is always available for further questions.

4 New Features and Improvements

4.1 General

Failover for recording systems

Description	<p>The current version of the SeMSy®III video management system supports the new SeMSy®III Failover Server Software (hot standby) for network-based Dallmeier recording systems (SRS, IPS).</p> <p>The software permanently monitors the availability of all recording systems in the SeMSy®III video management system. When the recording of a system is interrupted (failure of the device, loss of the network connection, HDD or RAID failure), the Failover Server switches all streams for the recording to the defined spare recording system.</p> <p>Note that the failover status is displayed in the SeMSy®III Workstation camera tree.</p>			
Availability	X	Update	X	Reinstallation
Hardware	X	Necessary		Not necessary
Requirements	Server hardware and SeMSy® III Failover Server Software			

Failover for Setup Server

Description	<p>The current version of the SeMSy®III video management system allows for the integration of a standby SeMSy®III Setup Server with a mirrored version of the main Setup Server's database.</p> <p>If the main Setup Server is unavailable, the entire system automatically switches to the standby Setup Server for the duration of the downtime. The system works exactly as it used to, but in order to ensure system integrity with read permissions on the standby Setup Server only. The definition of new salvos, cameras, monitor walls, etc. is not supported in this stage.</p> <p>After the main Standby Server is available again, the system automatically switches back and supports read and write permissions with definition of new salvos, cameras, monitor walls, etc. again.</p>			
Availability	X	Update	X	Reinstallation
Hardware	X	Necessary		Not necessary
Requirements	Additional Setup Server			

EdgeStorage & SmartBackfill

Description	<p>The current versions of the Dallmeier IP cameras support the EdgeStorage for Emergency Recording with SmartBackfill function. It allows for the loss-free recording of a Dallmeier recording system in case of a temporary failure of the IT infrastructure or the recording system.</p> <p>Dallmeier IP cameras are equipped with a RAM. EdgeStorage uses this internal storage in order to save the recordings and compensate for a network failure without losing data. If long network failures are to be expected, the internal storage of Dallmeier IP cameras can be expanded with a built-in SDHC or USB interface.</p> <p>As soon as the network is restored, SmartBackfill ensures a fast transmission of the stored recordings to the SMAVIA appliance. The appliance saves the data with high speed and, subsequently, continues to record the stream seamlessly and without loss.</p> <p>Note that the EdgeStorage status is displayed in the SeMSy®III Workstation camera tree.</p>			
Availability	X	Update	X	Reinstallation
Hardware		Necessary	X	Not necessary
Requirements	SMAVIA recording system as of version 8.x.6			

SeMSy® III ConfigTool & Workstation Software

Description	<p>The current version of the SeMSy®III video management system supports an enhanced version of the SeMSy®III ConfigTool and the SeMSy®III Workstation Software.</p> <p>In some cases it is necessary to reboot all workstations of a site after administrative changes in the central data base. The new version of the SeMSy®III ConfigTool allows for a remote reboot of the SeMSy®III Workstation executed by the administrator.</p> <p>The reboot can be announced on the SeMSy®III Workstation with a dialog. The operator may accept [YES] or refuse [LATER] the reboot in order to ensure uninterrupted crucial work flows.</p> <p>The announcements can be sent automatically in an adjustable interval. The reboot can be forced after an adjustable number of refused attempts.</p>			
Availability	X	Update	X	Reinstallation
Hardware		Necessary	X	Not necessary
Requirements				

Server software and Windows services

Description	<p>The SeMSy®III Main, Standby and PGuard 7 Server Software used to run as an application on the corresponding servers with windows operating system. This mode of operation required a manual start of the application and an active login of a user during runtime.</p> <p>The current versions of the SeMSy®III Main, Standby and PGuard 7 Server Software is designed to run as a Windows service. They can be configured to start when the operating system is started and run in the background as long as it is running. And because Windows services operate in the context of their own dedicated user accounts, they can operate when no user is logged on.</p>		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Adaptations for dongles

Description	<p>The different software components (servers, workstations, tools) of the current version of the SeMSy®III video management system have been adapted to support new licensing dongles.</p> <p>Note that the SeMSy®III Setup Server does not require individual dongles.</p>		
Availability	X	Update	X Reinstallation
Hardware	X	Necessary	Not necessary
Requirements	New license dongles		

Dongle for SeMSy®III ConfigTool

Description	<p>The SeMSy®III ConfigTool is a powerful configuration software for the SeMSy®III database. It enables the first time setup with the configuration wizard and offers a variety of options for comfortable administration of servers, devices, user groups and users.</p> <p>The latest version can be restricted to work only in combination with corresponding license dongles. This allows for the restriction of the configuration permission to special personnel regardless of other access permissions.</p> <p>Note that a SeMSy®III database will no longer accept configuration without a SeMSy®III ConfigTool dongle after its first use.</p> <p>Further note that the SeMSy®III ConfigTool dongle is fixed to the site database. It cannot be used for the configuration of another site.</p>		
Availability	X	Update	X Reinstallation
Hardware	X	Necessary	Not necessary
Requirements	New license dongle		

Site Password Wizard for SeMSy®III ConfigTool

Description	The <i>Site Password Wizard</i> is an extension for the SeMSy®III ConfigTool. The wizard allows for an automatic change of the password of one or several cameras/encoders throughout the SeMSy®III video management system. Now it is no longer required to individually connect the camera/encoder, recording system and database.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

PGuard 7 extension

Description	The SeMSy®III PGuard 7 Server Software has been extended in order to process several new alarm messages incoming from AngelEye systems. Besides that, the alarm management has been generally reworked and improvement for the current version.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Database

Description	The current version of the SeMSy®III video management system includes the relational database management system Maria DB.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Installation

Description	The current version of the SeMSy®III video management system includes improved installers for Windows 32 and 64 Bit operation systems. The installer application now detects the architecture of the operating systems and automatically uses the required paths and settings. Manual adjustments are no longer required.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

4.2 SeMSy®III ConfigTool

User rights management

Description	The preceding version of the SeMSy®III ConfigTool used a single group password for all users. The current version now includes a new user rights management function. It takes over all operators defined in the SeMSy®III video management system as users of the tool. Each user can be provided with individual read and write rights for every configuration step. The rights of a user can be restricted to one or several areas / sites.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Configuration export and import

Description	The SeMSy®III ConfigTool allows to export and import the configuration of the entire SeMSy®III video management system as CSV file. The Import could easily lead to inconsistencies if several operators import the entire configuration, although they have only modified the configuration of their own area. The current version of the SeMSy®III ConfigTool restricts the export or import to the configuration of the area that the operator is granted permission to in the user rights management.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Login for recording systems

Description	The SeMSy®III ConfigTool now enables to define the user name and password for Dallmeier recording systems. This allows to access all recording systems in the user login mode.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Interface Server configuration

Description	The dialogs for the configuration of an Interface Server have been reworked for the current SeMSy®III ConfigTool version, with special focus on a more convenient operation.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Locking the database

Description	The SeMSy®III ConfigTool can lock the database for all other users that might simultaneously have access. This function helps to avoid inconsistencies because only the current user has read and write permissions independent from other settings (user rights management) or access privileges (dongle).		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

ONVIF and AXIS integration

Description	The current SeMSy®III ConfigTool version allows for the configuration of PTZ cameras that are integrated into the system via the ONVIF or AXIS communication protocol.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Oncam Grandeye integration

Description	The current SeMSy®III ConfigTool version allows for the configuration of the Oncam Grandeye 360° camera. Note that a special version of the PAPI interface is required in this case.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements	Special version of the PAPI interface		

4.3 SeMSy®III Workstation Software

GPU decoding support

Description	<p>The PAPI interface has been extended for the current version of the SeMSy®III Workstation Software.</p> <p>The workstation now supports the parallel decoding of multiple HD streams on the GPU of a graphics card with Nvidia CUDA technology. Using a Nvidia GeForce GTX 750 graphics card up to 22 Full HD streams (1080p) can be decoded and displayed in real-time (25/30 fps).</p>		
Availability	X	Update	X Reinstallation
Hardware	X	Necessary	Not necessary
Requirements	Workstation with Nvidia GeForce GTX 750 graphics card		

Map module

Description	<p>The Map module has been improved for the current version of the SeMSy®III Workstation Software.</p> <p>The Map module allows to use the mouse wheel in order to zoom into the map. As a new feature, a small additional window opens. Here you can see the entire map and the zoomed section is indicated by a yellow square.</p> <p>Please also note, that the new version supports faster loading of large maps.</p>		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Multi monitor display

Description	<p>The current version of the SeMSy®III Workstation Software supports the extension of the desktop on several monitors. The main viewer and several sub viewers can be positioned anywhere on the desktop, thus on various monitors as well.</p>		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

PGuard 7 module

Description	<p>The PGuard 7 module has been improved for the current version of the SeMSy®III Workstation Software.</p> <p>The management and display of alarms has been improved generally. And now, several new alarm messages, e.g incoming from AngelEye systems, are supported.</p>		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Oncam Grandeye integration

Description	The current SeMSy®III Workstation Software allows for the display of the Oncam Grandeye 360° camera. Note that a special version of the PAPI interface is required in this case.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements	Special version of the PAPI interface		

Status display

Description	The current version of the SeMSy®III Workstation Software has been extended by the displays of various status icons in the camera tree and playback control: - status of the Failover Server - status of the internal camera storage (SD card and EdgeStorage)		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Local data storage

Description	The current version of the SeMSy®III Workstation Software uses the <i>Program Data</i> folder for the storage of dynamic data like INI files and logs. This allows for a user login without administrator rights.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

Encryption of local data

Description	The current version of the SeMSy®III Workstation Software has been optimized regarding the encryption of locally stored access data and data bases.		
Availability	X	Update	X Reinstallation
Hardware		Necessary	X Not necessary
Requirements			

5 Range of functions

The described general range of functions of the software may possibly be irrelevant for some devices. Always observe the corresponding specifications of the device.

Function	Version	
	1.5.7	1.6.4
LDAP support	X	X
SeMSy®III ConfigTool - Flir PTZ camera integration	X	X
SeMSy®III ConfigTool - Vicon RS485 PTZ camera integration	X	X
SeMSy®III ConfigTool - Eneo PTZ camera integration	X	X
SeMSy®III ConfigTool - ViProxy integration for Dallmeier PTZ cameras	X	X
SeMSy®III ConfigTool - Moxa RS485 distribution box integration	X	X
SeMSy®III Workstation - Sequencing of salvo groups	X	X
SeMSy®III Workstation - Alarm indication in Map module	X	X
SeMSy®III Workstation - GPU decoding	X	X
SeMSy®III Workstation - Multi monitor display	X	X
SeMSy®III Failover Server Software	O	X
Failover for Setup Server	O	X
EdgeStorage & SmartBackfill	O	X
Server software as Windows services	O	X
Adaptations for new dongles	O	X
New Maria DB database	O	X
SeMSy®III ConfigTool - Remote reboot of workstations	O	X
SeMSy®III ConfigTool - Dongle restriction	O	X
SeMSy®III ConfigTool - Site Password Wizzard	O	X
SeMSy®III ConfigTool - User rights management	O	X
SeMSy®III ConfigTool - Import/export restrictions	O	X
SeMSy®III ConfigTool - Database locking	O	X
SeMSy®III ConfigTool - ONVIF and AXIS integration	O	X
SeMSy®III ConfigTool - Oncam Grandeye integration	O	X
SeMSy®III Workstation - Zoom overview for Map module	O	X
SeMSy®III Workstation - Status display for Failover Server and EdgeStorage	O	X
SeMSy®III Workstation - Oncam Grandeye display	O	X

X = Function is available in version

O = Function is not available in version

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