

Video Surveillance Product Lifecycle News

Date: 11.02.2011



SISTORE MX 3G



SISTORE MX DVD 3G



SISTORE MX IVPR

Sales & Delivery Release – SISTORE MX V2.90 / SISTORE MX IPVR & MX0804 Variants

Siemens Security Products business segment is pleased to announce the release of the new variants of the Hybrid Video Recording System SISTORE MX along with the new model SISTORE MX4:

SISTORE MX V2.90 (new software version)

SISTORE MX0804 variant

SISTORE MX IPVR variant

The new MX version 2.90 offers the following functional improvements over the previous version 2.81 and 2.81 SP2:

- **Audio functionality**
- **Direct streaming of IP cameras**
- **Support of larger HDDs as well as database optimization for faster access**
- **VSS-SDK V2.5 for enhanced interoperability between SISTORE MX and other Siemens systems, as well as interface to 3rd-party software**
- **Improved live image quality with analogue cameras**

Along with SISTORE MX 2.90, the new SISTORE MX0804 variants (for 4 analogue and 8 IP cameras) as well as the IP camera-based version SISTORE MX1600 (for up to 32 IP cameras) will be available with immediate effect.

Security Products

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New features released in SISTORE MX V2.90

More information on the new features/functionality released in SISTORE MX NVS version 2.90 is provided below.

Audio functionality

The new version of SISTORE MX also supports audio recording and playback. Up to 16 audio channels are supported for recording; audio playback is possible via one out of four audio channels (selectable).

Benefits and Highlights:

- Audio recording is possible for up to 16 cameras (e.g. for foyer or room surveillance).
- In search mode, audio can be played back via one out of four audio channels (selectable).

Direct streaming of IP cameras

As of version 2.90, IP cameras can be streamed directly via SISTORE RemoteView.

Benefits and Highlights:

- This reduces the load of the SISTORE MX server, resulting in higher server performance. The server can concentrate on storing video data in MJPEG format.
- On the RemoteView client, live images are displayed with a higher frame rate; this facilitates the observation of sceneries (e.g. shops, passageways and car parks, underground, railway and tram platforms, as well as airport terminals and harbour facilities). Live video data is currently transmitted in MPEG4.

Support of larger HDDs / database optimization

SISTORE MX NVS 2.90 now supports larger HDDs, thus enabling capacities of up to 16 TB in conjunction with NAS systems.

Benefits and Highlights:

- Higher recording capacities make it easier for the users to meet statutory regulations regarding the long-term storage of video data.
- The database optimization enables accelerated storage operations and the storage and management of larger data volumes, resulting in a higher utilization of the user's storage media.

Support of Windows 7 operating system (32-bit)

SISTORE MX 2.90 supports the operating system Windows 7 (32-bit) on a client PC.

Benefits and Highlights:

- The RemoteView application software adapts to the most state-of-the-art operating system Windows 7 (32-bit version) and to the customer's IT environment. Easy to use and understand

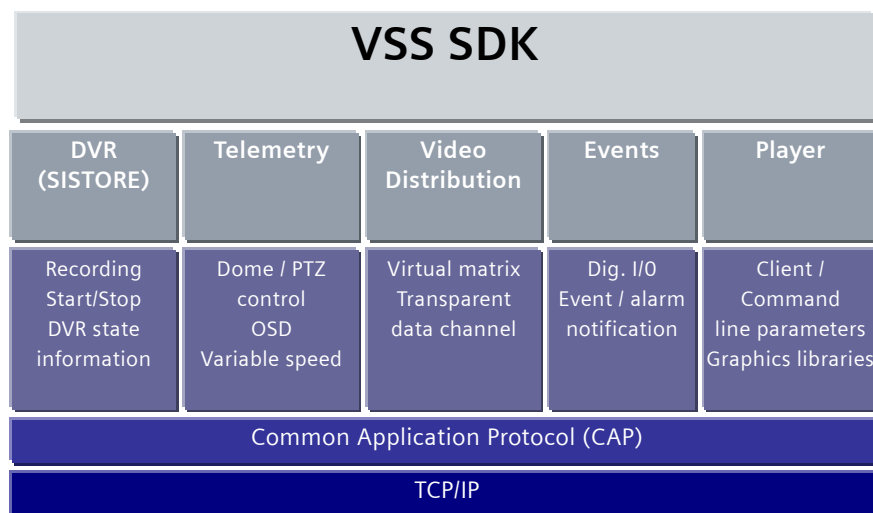
Support of dual-core / quad-core Intel CPU

SISTORE MX 2.90 supports Intel dual-core or quad-core CPU on a client PC.

Benefits and Highlights:

- Requirements placed on the client PC: high CPU availability, in particular when directly streaming IP cameras.
- Dual-/quad-core CPUs meet these requirements, and in conjunction with a suitable graphics card direct streaming is no problem at all.

Optimization of VSS-SDK interoperability



The VSS-SDK integration which was already available in SISTORE MX 2.81 has been further improved.

Benefits and Highlights:

- Enhanced interoperability between SISTORE MX and other systems (e.g. access control)
- Unified control of recording devices from management systems like IVM
- Possibility to develop stand-alone video client applications
- Enhanced Player functionality in terms of stability and display speed

Improved live image quality with analogue cameras

Within RemoteView it is now possible to select a Group Connection with a mouse click, which will automatically connect the RemoteView Client to the selected SISTORE MX devices, thus displaying multiple cameras from multiple servers (subject to user rights). The selected cameras and window layout/positions will be saved (as user profile) and automatically recalled next time the user logs in.

Benefits and Highlights:

- Ability to create logical connection groups enhances management of distributed sites
- Ability to create personalized, user-specific layouts

New SISTORE MX0804 variant

Along with MX version 2.90, a new variant for 4 analogue and 8 IP cameras will be available.

Benefits and Highlights:

- This new variant is especially designed for banking applications, e.g. for monitoring foyers.
- Another application is in cascaded systems, with each sub-system monitoring a small area; the sub-systems are combined to an overall system configuration via RemoteView

New SISTORE MX IPVR variant

Along with MX version 2.90, a new variant for recording IP cameras will be available. Analogue cameras cannot be connected to these units. These units are designed for 16 IP cameras with high resolution and high frame rate and are available with different hard-disk capacities.

Benefits and Highlights:

- References (individually configurable for each camera):
 - 400 ips (digital) with 16 IP cameras, 640 x 480 with 25 ips / per camera in standard quality
 - 800 ips (digital) with 32 IP cameras, 320 x 240 with 25 ips / per camera in standard quality
- The units can be operated with up to 32 IP cameras. However, with a frame rate of 25 ips the resolution will be reduced, or – if a higher resolution is configured – the frame rate will be reduced.
- Mega-pixel cameras are supported. There is, however, also a trade-off between the resolution and the frame rate.
- The units of the MX IPVR series are based on a state-of-the-art dual-core processor for industrial embedded equipment.
- Planning information: the higher the resolution and/or the frame rate is configured for the individual IP cameras, the closer the MX system comes to its utilization limit. This has to be taken into consideration in project-specific applications; it is recommended to distribute the total number of cameras appropriately to several MX systems, if possible.

Further expansions

Within SISTORE MX V2.90, the following functions have additionally been implemented/enhanced.

- Integrated de-interlaced filter improves the quality of images with fast motion in 4CIF format
- To ensure a highly flexible system configuration, the image quality for alarm recordings can be configured separately for each camera
- The map functionality has been expanded
- The PTZ functionality has been expanded by the washer/wiper function. The washer/wiper can be directly controlled via the SISTORE MX user interface. The system now supports a total number of presets > 64.

Product description of SISTORE MX 3G

The SISTORE MX 3G is the Siemens FSP mid-level **Hybrid Digital Video Recorder (HVR)** with access control capabilities, designed for medium to large applications such as retail shops, grocery/department stores, shopping centres, larger petrol stations, logistics, universities, museums and commercial buildings. SISTORE MX 3G is the successor to the successful and popular SISTORE MX "2G" and provides significant performance improvements. Please refer to the comparison table below

SISTORE MX 3G records video from the camera inputs on the built-in hard drives and/or on Network Attached Storage (NAS). Video footage can be exported to standard USB devices such as USB flash memory (thumb drive or flash stick), USB hard drives (note 3.5" format USB drives will require their own power supply) or USB DVD burners. Variants with built-in DVD burners allow archiving to CD or DVD media without any additional external devices. Video footage can also be retrieved over a standard Ethernet network using the MX RemoteView software installed on a suitable PC. The SISTORE MX 3G has flexible recording modes which allow the device to achieve long storage times, while the intuitive Windows-based graphical user interface makes the device simple to use and fast to commission. Real time recording is possible. The SISTORE MX RemoteView permits remote access to up to 10 MX devices simultaneously, making the SISTORE MX ideal for multi-location applications such as larger grocery chains or multi-campus universities. Note that due to performance limitations there are some restrictions on the resolution and number of concurrent video streams that each MX 3G HVR can support. Please refer to the "Readme" Technical Bulletin provided on the CD supplied with the MX 3G and on the Product Support Platform for details.

In addition to the hybrid video recording function, SISTORE MX is capable of interfacing to Miniter card readers, thereby providing an integrated CCTV-access control solution particularly well suited to entry foyer applications. The integration of card readers can also be used in scenarios requiring the "four eyes principle".

SISTORE MX has **BGV (UVV Kassen) and Fiducia certification** as well as **Kalagate approval** (currently in preparation), making it particularly suitable for higher security applications such as banks and other financial institutions.

SISTORE MX supports Network cameras of various manufacturers as standard, including Siemens, Sony, Panasonic, Axis or Mobotix, with recorded resolutions from QCIF up to 5 Megapixel (depending on model).

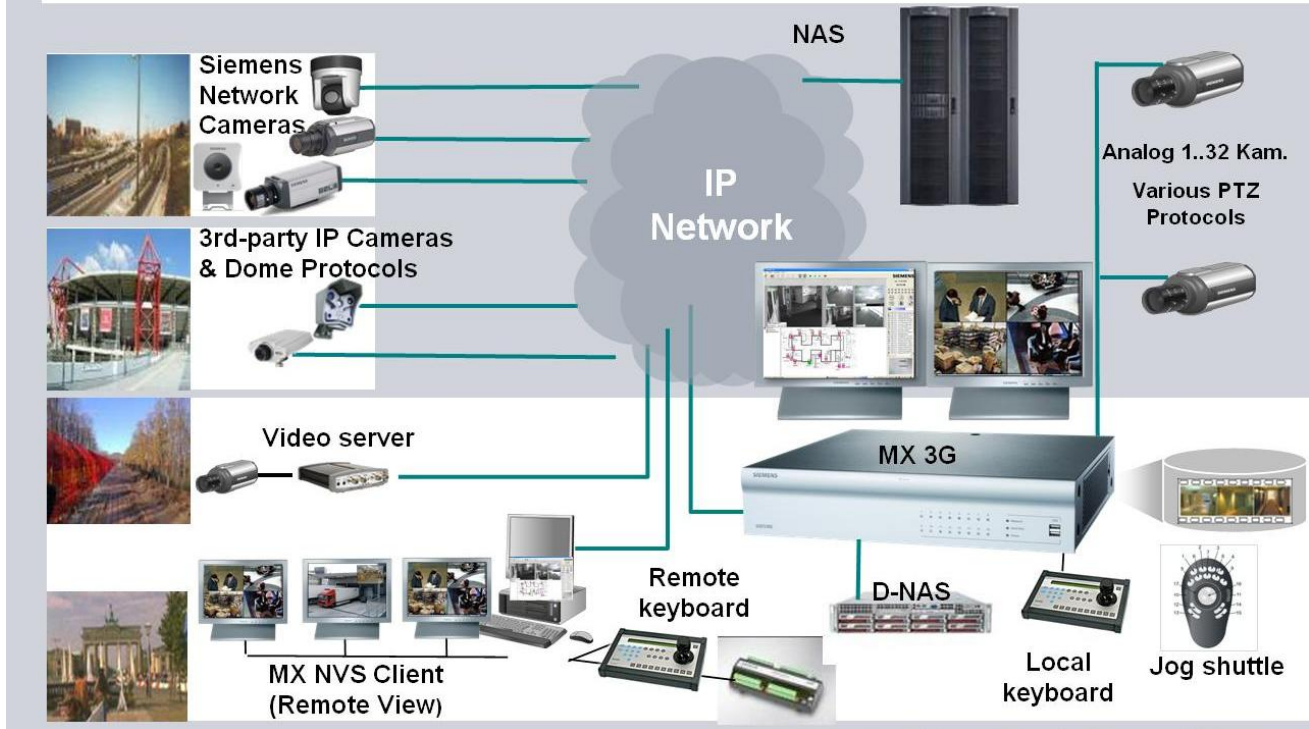
SISTORE MX offers an easy and intuitive installation and operation of the video surveillance system.

SISTORE MX may be deployed in a client-server architecture, which facilitates the design of scalable video surveillance systems, from small stand-alone systems through to large systems. Each SISTORE MX server supports the recording and management of up to 64 cameras per SISTORE MX (depending on model). The RemoteView client software is installed on a separate PC for configuration and operation of the video surveillance system over the network. Up to 16 RemoteView clients can access each SISTORE MX server. Each RemoteView client can display the images from up to 10 SISTORE MX devices simultaneously. A jog shuttle or a remote keyboard can be connected to provide enhanced control and operation of the system. With the jog shuttle and the remote keyboard, it is possible to control playback, like fast forward or rewind, or zoom the timeline. PTZ cameras can also be controlled.

The Smart Search function facilitates fast retrieval of recorded video footage.

SISTORE MX 3G

Scalable Hybrid System Architecture



Comparison of SISTORE MX 3G with SISTORE MX

Function/Feature	SISTORE MX 3G	SISTORE MX	Benefits and highlights
Record speed for analogue cameras	100 ips MX0804 200 ips MX1608 400 ips MX1616 800 ips MX3232	100 ips max.	Real time recording per analogue channel all models Up to 8x the performance compared to SISTORE MX Meets intent of new French CCTV Law requiring 12ips @ 4CIF recording Smoother playback
Record speed for IP cameras	100 ips for MX 3G 400 ips max. for MX IPVR	96 ips max.	Real time recording possible on up to 16 IP cameras in NVR mode
Maximum analogue video resolution	4CIF	2CIF	Better image quality with more details than ever
Video inputs	Looping on 8/16 channel models	No looping supported	More flexible video signal distribution possible

Network capability	2 x Gigabit ports	1 x 10/100 port	Better Network performance Network Redundancy Split cameras and NAS streams on separate LANs
Max. internal storage capacity	4 TB (non DVD) 3 TB (DVD)	1.5 TB (non DVD) 1.25 TB (DVD)	More than double the storage capacity of MX 2 nd generation Longer recording times Reduced need for external storage
Monitor support	2 x DVI	1 x VGA	Dual monitor support Camera view and map view available simultaneously Supports widescreen LCD monitors
Energy efficiency	36 W / 1 TB	156 W / 1 TB	Four times more efficient than previous generation
Environmental conditions	Max. 40 °C	Max. 35 °C	Improved cooling concept Hard disks run cooler for better reliability

Interoperability matrix



Interoperability and system integration is a key focus to provide integrated security solutions. In combination with **IVM** (Interactive Video Management), SISTORE MX NVS enables the user to control the entire video surveillance system composing of both analogue and digital components. This includes the generation of site plans or system configuration, displaying cameras on video walls, and the selection and control of individual video components. Integrating complete alarm handling, IVM software can extensively display, evaluate and document events and alarms. Upon receiving an alarm, dedicated monitors allow the user to track the development of the situation, while simultaneously the sequences are recorded and documented. The recorded images and event data can then be easily replayed and analysed via the IVM Client anywhere on the system network.

SISTORE MX NVS V2.90 includes and supports the VSS-SDK 1.4.2 as well as the VSS-SDK 2.5 interface. The table below summarizes the interoperability supported by SISTORE MX NVS V2.90 software:

Software	Tested version	Function					
		Live picture	Searching	Recording (pre-event)	PTZ	IP camera support	DVR/ Camera Status
IVM	3.6.4	√	√	√(√)	√*	√	√
MM8000	4.40	√	√	√(√)	√	√	√
SiPass integrated	2.50	√	√	√(√)	√*	√	√/#
SiPass Entro	6.5 SP1	√	√	√(√)	#	√	#/#

* PTZ control only possible via the MX RemoteView client.

Legend:

√ = works well

= is not supported / function is not implemented

Technical data

A detailed technical overview can be found in the datasheet that is available at www.siemens.com/cctv. The existing SISTORE MX 3G manuals are in the process of being reviewed and will be made available soon.

Please refer to the "Readme" or "Technical Bulletin" document contained on the SISTORE MX CD-R (supplied with the unit) and the Product Support Platform. This document contains the latest information and also outlines any limitations and/or work-arounds specific to this version.

Please also refer to the SISTORE MX 3G performance table, which lists the analogue and IP camera performance achievable under various system configurations and combinations of analogue and IP cameras. In particular please take note of the IP camera configurations as IP camera performance depends strongly on the type and number of IP cameras used (for example Megapixel cameras versus standard resolution cameras). Note: Attempting to exceed the performance levels set out in this table may result in reduced device usability and performance.

Order information for SISTORE MX 3G

Order No.	Description	Use	Availability
S54569-C190-A3	SISTORE MX0804 3G 1000/200	New device Replacement device	Max. 10 working days
S54569-C201-A3	SISTORE MX1608 3G 1000/300	New device Replacement Device	Max. 10 working days
S54569-C201-A5	SISTORE MX1608 3G 2000/300	New Device Replacement device	Max. 10 working days
S54569-C201-A9	SISTORE MX1608 3G 4000/300	New device Replacement device	Max. 10 working days
S54569-C201-B3	SISTORE MX1608 3G 1000/300 DVD	New device Replacement device	Max. 10 working days
S54569-C201-B5	SISTORE MX1608 3G 2000/300 DVD	New device Replacement device	Max. 10 working days
S54569-C201-B7	SISTORE MX1608 3G 3000/300 DVD	New device Replacement device	Max. 10 working days
S54569-C202-A3	SISTORE MX1616 3G 1000/500	New device Replacement device	Max. 10 working days
S54569-C202-A5	SISTORE MX1616 3G 2000/500	New device Replacement device	Max. 10 working days
S54569-C202-A9	SISTORE MX1616 3G 4000/500	New device Replacement device	Max. 10 working days
S54569-C202-B3	SISTORE MX1616 3G 1000/500 DVD	New device Replacement device	Max. 10 working days
S54569-C202-B5	SISTORE MX1616 3G 2000/500 DVD	New device Replacement device	Max. 10 working days
S54569-C202-B7	SISTORE MX1616 3G 3000/500 DVD	New device Replacement device	Max. 10 working days
S54569-C203-A5	SISTORE MX3232 2000/900	New device Replacement device	Max. 10 working days
S54569-C203-A5	SISTORE MX3232 4000/900	New device Replacement device	Max. 10 working days
S54569-C193-A3	SISTORE MX1600 1000/400	New device Replacement device	Max. 10 working days
S54569-C193-A5	SISTORE MX1600 2000/400	New device Replacement device	Max. 10 working days
S54569-C193-A9	SISTORE MX1600 4000/400	New device Replacement device	Max. 10 working days
S54569-B1-A3	SISTORE MX 3G Replacement Power Supply Kit	Spare part	Ex stock Berlin
S54569-B2-A4	SISTORE MX 3G Replacement Cooling Fan Kit (chassis fans)	Spare part	Ex stock Berlin
S54569-B2-A5	SISTORE MX 3G Replacement Air Filter Kit	Spare part	Ex stock Berlin
S54569-B5-A3	SISTORE MX 3G Alarm Connector Kit	Accessories	Ex stock Berlin
S54569-B6-A3	SISTORE MX/AX Acc. Kit 1000 GB SATA	Accessories	Ex stock Berlin

Upgrade / migration issues when replacing a 2nd generation SISTORE MX with SISTORE MX 3G

The SISTORE MX 3G is the successor to and replacement for the previous-generation SISTORE MX. Due to hardware differences however, the following should be checked/verified when replacing an existing SISTORE MX with a SISTORE MX 3G on site:

- 1) **Existing main monitor connection:** The SISTORE MX had a VGA connection so it is highly likely that any existing on-site monitor(s) shall also have a VGA input. The SISTORE MX 3G however has two DVI outputs and is NOT supplied with a DVI-VGA cable or DVI-VGA adaptor. Therefore a 3rd party DVI-VGA cable or adaptor (e.g. Conrad 97 21 27-7S see www.conrad.de) may be required in order to fully install a SISTORE MX 3G in place of a SISTORE MX.
- 2) **Existing Alarm/trigger inputs and outputs:** The SISTORE MX had 32 alarm/trigger inputs and 8 digital inputs for AND operations and system control functions as well as 16 digital outputs. The SISTORE MX 3G has 16 alarm inputs, 4 digital inputs for AND operations and system control functions as well as 4 digital outputs. Therefore any existing low-level (I/O-based) interfacing concept may need to be reviewed when installing a SISTORE MX 3G in place of a SISTORE MX. Please refer to the Installation Manual (Sections 6 and 7) for technical details.
- 3) **Existing analogue audio inputs:** The SISTORE MX had a single analogue audio input and output. While the SISTORE MX 3G has 16 analogue audio inputs and one output, selectable 1 out of 4. IP camera audio is also supported on the SISTORE MX 3G. Therefore any existing audio recording concept shall need to be reviewed when installing a SISTORE MX 3G in place of a SISTORE MX.
- 4) **External Storage:** The SISTORE MX had a SCSI output permitting the connection of an external SCSI RAID to provide additional storage. At the same time, the SISTORE MX was limited to a maximum 1.5TB of on-board storage. The SISTORE MX 3G does not have a SCSI port therefore any existing on-site RAID cannot be used with the SISTORE MX 3G. However, the SISTORE MX 3G can have up to 3TB (DVD variants) or 4TB (non-DVD variants) of on-board storage. This, coupled with the ability to perform automated FTP backup can provide improved storage possibilities when compared to the previous generation SISTORE MX. Therefore any existing storage concepts may need to be reviewed when installing a SISTORE MX 3G in place of a SISTORE MX.
- 5) **Physical considerations:** The SISTORE MX 3G is physically deeper than the SISTORE MX, 440mm versus 370mm. While this should not present any issues for most standard rack-mount enclosures, care should nevertheless be taken with regards to any existing camera signals (particularly those run over coaxial cable) to ensure cable bending radii are not exceeded.
- 6) **Ethernet/LAN connections:** The SISTORE MX 3G has two Ethernet connections capable of Gigabit speeds; SISTORE MX had only a single 10/100 MBit Ethernet connection. In order to make use of the Gigabit Ethernet capability any existing on-site Ethernet/LAN infrastructure will need to also support Gigabit functionality. If Gigabit Ethernet is not available, the SISTORE MX 3G network shall revert automatically to 10/100 MBit operation.
- 7) **Analogue Video Signal looping:** The SISTORE MX 3G 1608 and 1616 variants have looping video inputs, thus permitting the camera signals to be run to additional devices. The previous generation SISTORE MX did not have looping video. Therefore any existing video signal distribution should be reviewed with a view to improvements facilitated by the SISTORE MX 3G when replacing an existing SISTORE MX with a SISTORE MX 3G 1608 or 1616 model.