GEUTEBRüCK

G-SIM X PANOPTICON

Software Version 9.2.1

Release Notes

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Software	Type	Short Description	Detailed Description
Information	Server	Discontinued Express Dongle Support	The support of the G-SIM Express license dongle was discontinued. If you are affected by this information, please contact our sales department.
New Feature	G-SIM	manage certificates for SSL encryption yourself	We offer you the option of using your own certificates and thus adapting G SIM to the security standards of your company or your customer. Of course, you can continue to work with the provided certificates as usual.
New Feature	G-SIM, G-Tect	Management of BTM Events	G-SIM enables the processing of BTM events. Persons with increased body temperature are visualized with corresponding measured values. BTM events can be researched in the process data search.
New Feature	G-SIM, G-Tect	Management of G-Tect/AI alarms	G-SIM enables the processing of G-Tect/AI alarms. Detected objects are visualized with the corresponding class name. In the process data search, alarms can be researched via class, logic and rule (ROI).
New Feature	ManCon, OpCon	IP base filter	You can determine from which device the trap was sent and trigger different alarm instances with the help of a filter on the SNMP strings for a specific ip address.
New Feature	Agent	Windows application eventlog	You receive an notification in the windows application event log when the agent cannot connect to the G-SIM Server due to an missconfiguration in password.
New Feature	ManCon	Manual camera check	It is now possible to configure an interval for a manual check of the cameras which are observed by the CCS. When the operator opens the CCS dialog in OpCon, a filter shows automatically the cameras which must be checked because the interval is due.
New Feature	OpCon, Server	Audit log	Now the audit log provides the possibility to see which user pressed the custom button to a specific media channel.
Information	OpCon, Server	Pelco Integration	The Pelco integration has been removed from G-SIM.
Improvement	GIS Map	GIS map for a site	It is now possible to select a GIS map for a site.
Improvement	GIS Map	Navigate in GIS map	You can easily navigate within the GIS map useing buttons or your mouse. You can also use a homebutton.
Improvement	GIS Map	Alarm details on maps	When using GIS maps, alarm details of objects on the map can be displayed directly on the map.
Improvement	GIS Map	Add Mab Objects to a GIS map	You can now add individual objects to the map by selecting the objects from a list (if coordinates are stored) or by placing them directly on the map.
Improvement	GIS Map	GIS map in alarm templates	A GIS map can be displayed in an alam template (similar to already existing maps).
Improvement	GIS Map	Display GIS maps during alarms	GIS maps can be added to alarm temples so that it is possible to see where an alarm is taking place.
Improvement	OpCon	Viewer Numbers	The Button "Show Cameras" on the sites card list now supports the usage of templates bigger than a 4x4 matrix.
Improvement	Installer	Installer: Selectable Intel driver installation	If the Windows version is at least 1709 (checked at installer startup), then the driver installation is unchecked by default, otherwise checked. (Windows version 1709 corresponds to winver info 10.0.16299) If the user wants to install the drivers (manually had to check the component), a warning will be displayed as soon as the user continues with the installation step. The changes affect the G-SIM Installer and the OpCon Standalone Installer.
Improvement	OpCon	Forensic Search Application	In order to clear your user specific cache in the forensic search application, you recieve an action on user login / logout. A user is also able to see when the configuration of allowed cameras has changed with username and OpCon Console Number and the list of the cameras (together with their failover partner).
Improvement	Server	New OpCon	A new created opCon has by default no privileges.
Improvement	Installer	Select installation folder	You are able to selct an installation folder and the volume for the installation instead of always using the default path.
Improvement	OpCon	Export alarm action data	A new checkbox was added to the list of checkboxes on the Reporting UI (Checked by default). This option adds a child view to all lines in the result grid (An arrow appears in the most left column, clicking it will expand the alarm action detail.) With the Alarm Action Details checked, printing a grid will print all the alarm actions, AS WELL AS any comments entered.
Improvement	OpCon	Filtering for camera check	You are now able to filter for cameras n the CCS dialog that need to be checked (defined by interval or marked that they need to be checked manually).
Improvement	ManCon, Server	Public camera tours available in G-SIM ManCon	In the ManCon, you now have access to the list of (public) camera tours which were created in the OpCon, that can be can used as ressource e.g. in the populated layouts.
Improvement	OpCon	CCS: Create report of cameras	You can now create a report of the cameras of the CCS results with thumbnails.
Improvement	OpCon, Server	G-SIM audit	There is now an entry when OpCon layout changes.

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Software	Type	Short Description	Detailed Description
Improvement	OpCon	Connection Failure Notification	G-SIM has safety mechanisms to compensate for network failures and to re-establish connections to clients autonomously. The G-SIM X release has a new feature to warn users of a possible OpCon malfunction after a fatal network failure in the IT infrastructure. After a complete loss of the network connection, a warning message appears to advise the user to restart the OpCon to ensure a consistent data state and to avoid a malfunction.
Improvement	ManCon, Server	Cluster: Login ManCon to secondary server	When the G-SIM Server service was stopped during a ManCon was logged in and the G-SIM System contains a cluster, the login to the second G-SIM Server was not possible due to a too long heartbeat communication. This was optimized so that the user can now login again faster.
Improvement	Common	Process Data Search	The process data search on more than one server was improved. **
Improvement	ManCon	"ASCII Action" on maps	You are now able to able to add a map item that can send actions to several devices with one click.
Improvement	OpCon	OpCon: Playmode area	The playmode area was adjusted to the viewer size.
Improvement	OpCon	Motion Search	Motion search notification sound in OpCon is now played with every successful search with button prev/next motion.
Improvement	OpCon	Filtering in tasks menu	The use of checkboxes (e.g. user, user group, status filter) for filtering was improved.
Improvement	OpCon	NVR-Failover	Improvement of NVR-Failover for big systems
Improvement	ManCon	Client setup	The slider to activate the restrictions or not is removed (it was previously a license which is no longer present). Restrictions are set to true so that it is always enabled.
Improvement	OpCon	CCS: .mht export	Send .mht via e-mail option is removed.
Improvement	Server	Login	Improvement for the stability of login and logout-function.
Improvement	Recon	ReCon login process	We fixed some issues in login process, so that the login process is now working smoothly.
Improvement	OpCon	Connection limit for TC viewer	The viewer delivery on a recon does has been improved so that three viewer are working correctly
Bugfix	OpCon	Filtering audit log	A bug is fixed so that the filtering by site group in the audit log is working now.
Bugfix	ManCon, OpCon	Alarm Presentation mode	Fix for displaying an alarm that was triggered with presentation mode in a viewer group and not in tab mode.
Bugfix	OpCon	Bookmarks	Bookmarks are now correctly displayed in bookmark list.
Bugfix	OpCon	Export dialog of cutlist	The textbox for the export dialog for the cutlist now correctly displayed in French.
Bugfix	OpCon	Filtering audit log	A bug is fixed so that the filtering by camera group in the audit log is working now.
Bugfix	OpCon	Filter for camera / camera group	Fix for the process data shown for camera / camera group, so that only the selected camera / camera group is shown after filtering.
Bugfix	OpCon	Filtering for camera group	When reopening the filter window that the filter selection was partially reset. This is fixed now.
Bugfix	OpCon	Process Data Filter	A bug was fixed that caused a delay after an exception was trown.
Bugfix	OpCon	Filtering of audit log	The filtering for the actions of different users in the audit log has been fixed.
Bugfix	ManCon, OpCon	Alarm Management	Enforce playmode live on replay is enabled.
Bugfix	OpCon	GeViSoft Alarms in OpCon	Fix for GeViSoft-Alarms that were triggered from a map.
Bugfix	OpCon	Export for console	Bug is fixed so that privilege "Allow High Resolution Channel Export" does now work for consoles.
Bugfix	OpCon	Camera and in camera group restrictions	Fix for playback beyond set time limit in camera and camera group access restriction.

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Release Notes for the Main Features

New ManCon

With G-SIM 9 Geutebrück introduces a completly new Management Console to set up the G-SIM installation. The new ManCon is completely restructured and equipped with state-of-the-art, future-proof technology, with the focus on the user experience.

The main changes are:

- Support for drag and drop as well as various shortcuts in the ManCon is available (Shortcut codes see below).
- ManCon can hold multiple active server connections at the same time.
- Administrator can easily switch between active server connections.
- ManCon and G-SIM Server now supports the simultaneously login of multiple administrators.
- A setup change detection and conflict-resolve mechanism is now available.
- Setup validation will check for missing configuration and advise the administrator where setup errors are located.
- More space for configuration and less control bars.
- Improved performance when working with larger setups.
- Faster loading of large setups
- Configuration of G-SIM Agent was moved to general server Setup for easier and more transparent configuration
- Alarm configuration is now much easier and transparent. Alarm instances are now configured within the alarm type configuration and assign to a site and agent
- Multiple configuration path removed such as configuration wizards
- An Undo / Redo Stack was implemented which will offer to rollback all changes made since last time setup was saved.
- An notification area is implemented which will inform the logged-in user about changes, warnings and errors during working with the ManCon

Shortcuts:

The following shortcuts are available in the ManCon

- CTRL + D = collapse the main navigation bar
- CTRL + E = Expand the main navigation bar
- CTRL + C = Clone the current selected item
- CTRL + V = Add new item
- CTRL + X = Delete selected item

Upgrading from G-SIM version 7/8

- An update from an existing installation can simply be executed by using the G-SIM Installer.
- The data structure of the database was not changed on the ManCon, therefore an existing setup will be available without interaction.
- Please note that importing an old setup to the new ManCon might need some re-adjustment because the new ManCon will check mandatory items which was not done in old ManCon.
- The setup validator will help navigating to the invalid configurations.

G-SIM Global

With G-SIM version 9 the G-SIM Global functionality to connect multiple G-SIM Server to a global network is available in the general product package. The synchronization mechanism is completly new and based on the KAFKA communication framework. G-SIM Global in the v9 release supports up to 30 sites.

G-SIM Global offers the following features:

- Synchronization of the setup data to offer access to all ressources
- Automatic switchover to a G-SIM Server when the local servers are offline
- Support for local G-SIM Cluster
- Setup synchronization is done on a time based shedule, the interval is configurable.
- Access live streaming and review database recording on all sites.
- Access all ressources such as maps, cameras, tours, alarms from the whole global network
- Configure user permissions & restrictions to allow exact
- Export Video data from any site which is part of G-SIM Global
- Manage & Access alarms from all connected servers. It is possible to configure if an alarm should be broadcasted into the global network or not.
- Request audit data from all connected servers. The search algorithm works on a asynchron search request so that the results are accessible as soon as the first server responded. The data is not synchronized but fetched on-demand when a search request is send.
- Search for processdata on all connected servers. The search algorithm works on a asynchron search request so that the results are accessible as soon as the first server responded. The data is not synchronized but fetched on-demand when a search request is send.

Please note that the main maps are not synced. During installation the Config-folder need to be edited manually (see installation instructions).

The amount of connected clients is only tested with 30 OpCons, the hardware requirements for the G-SIM Server depends on the amount of connected OpCons's.
Please note that the software requires an G-SIM option.

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Release Notes for the Main Features

GIS map - Better orientation thanks to geo-referenced maps

- You can now use detailed map material from Open Street Maps and Google Street Maps in G-SIM and display your cameras or other objects on this map material.
- The focus is on clear symbols, simple navigation and clarity for the user.
- By using georeferenced maps you save time when placing the cameras on a map: If coordinates are already stored on a camera, this (or all selected objects) can simply be switched to the correct position.
- As usual, the alignment of the cameras or map objects can be set manually.
- You can use a GIS map like a "normal" map in your alarms so that you can see where an alarm was triggered. In addition, with GIS maps, the relevant alarm information for a map can be displayed in a popup directly on the map.
- You can use the maps flexibly: You can define an area of the map material for your users to move around in, or you can release the entire map material for use.
- The GIS map is particularly interesting for customers who have several locations (e.g. train stations, city surveillance) or who have to cover larger areas.

Please note: The display of dynamic objects is not included in this feature.

G-SIM Webbrowser Integration

G-SIM now offers the possibility to use single windows as web browsers. Thus it is possible to display information and pages from other systems or from the internet within G-SIM.

- The web pages are predefined as bookmarks and made accessible to defined users or user groups.
- Central access to the bookmarks is done via the tab "Browser",
- For a better understanding for the user all bookmarks are provided with name, description and a group name.
- Sorting and filters help to find a bookmark faster
- The web page linked to a bookmark is accessed by simply dragging and dropping it onto an unlocked viewer of an operator or remote console.
- Individual settings for each bookmark define the display of the browser window and other navigation options on the displayed website.
- Security and audit functions for the browser function are defined globally in the system settings.

Completely updated G-SIM Online Help

The completely updated online help now includes all the latest changes and instructions needed for G-SIM.
All the current guides for G-SIM Global, Web Browser Integration and the new Management Console are also included.

G-SIM Updating Guide

Starting with Version 10 we implemented security related fixes which leads to incompatibility to older G-SIM versions. That means that clients from Version 10 are not able to connect to older GSimServers.

Nevertheless, we added a compatibility mode for updating without interruptions of operation.

Please follow these instructions to avoid interruptions of operation while updating. If it is not necessary to have the system in operation mode while updating is in process you can skip step 1.

ATTENTION: It is not possible to downgrade after updating to G-SIM X PANOPTICON without loss of data. Please make a backup of all SQL databases and the G-SIM setup before updating to be able to install an older version again.

1. Install DotNet Framework 4.8
   The GSIM Setup Software will be stopped when this Framework is not installed
2. Update all clients which should work without interruption while updating with compatibility mode enabled.
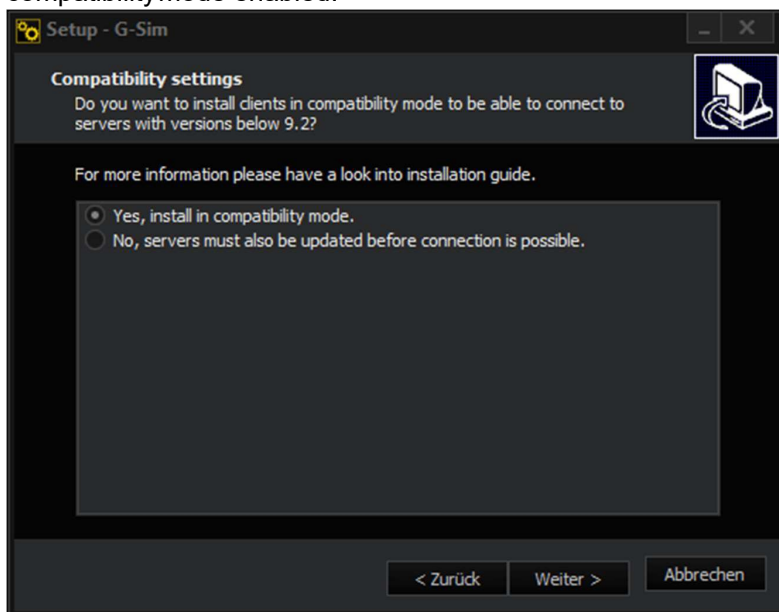
3. Update all G-SIM Servers.
4. Update all clients again without compatibility mode.
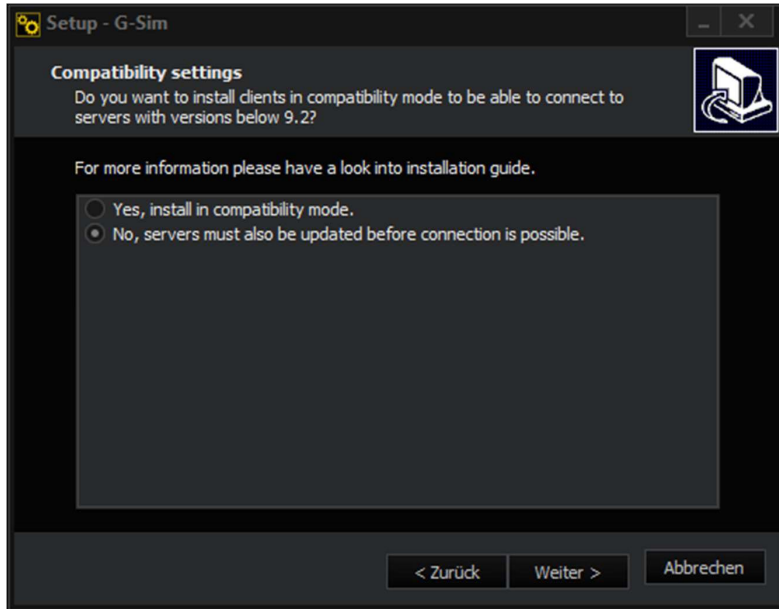
Please note:
A system with a control server is no longer supported with G-SIM X Panopticon.
You can now use the global function, which allows all servers to communicate
directly with one another.

- The servers are equal and they communicate with each other directly.
There is no hierarchy with a "main" server (in contrast to the control server
with sub-servers).
- All administrators can access all servers. The reason is that users and
restrictions are mapped and synchronized throughout the system. Example: An
administrator of site A can log into site B and has the same rights.
- For the operator there are no changes to a system with a control server. You can
still be subject to restrictions on individual sites. You can also see the information
on several sites here if necessary.
- You can access a guide how to migrate a system with a control server to a global
system online (https://www.geutebrueck.com/gsim-help).

> Note:
>
> For larger projects, the general conditions under which the system is operated must be analysed individually. For this, contact Geutebrück GmbH directly so that recommendations / specifications can be made.

The following tables show the recommended minimum requirements for servers and clients of your system. Due to the wide range of possible applications and use cases, additional factors may have to be taken into account that influence the system requirements. You will find information on this in the general recommendations. If the factors mentioned there apply to your system, please contact Geutebrück GmbH to validate your system requirements.

G-SIM Server Minimum Requirements

		Number Recorder		Number OpCons		Number Cameras		Cluster Installation	Global System
		<5	>5	<5	>5	<100	>100		
Operating System	Windows 10	X		X		X			
	Windows Server 2016 / 2019		X		X		X	X	X
CPU	Intel Core i7 Kaby Lake	X		X		X			
	Server CPU Xeon E3 1275 V6 up		X		X		X	X	X
Microsoft SQL Server	SQL Server Express	X	X	X	X	X	X		
	SQL Server Standard							X	X
GPU	No GPU necessary as long as no G-SIM client is installed.								
Memory	16 GB								
Free hard disk space	80 GB								
Microsoft .Net Version	4.8								
Network Interface	1Gbit/s								

Systems with increased system requirements use Windows Server OS with a corresponding system platform.

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G-SIM Client Minimum Requirements

Memory	16 GB
Free hard disk space	8 GB (6 GB free)
CPU support	7. Generation Intel Core i5 (min. 2,4 GHz)
GPU	Intel GPU Consider the CPU and graphics driver recommendations listed below
Operating system	Windows 10
Micrososft .Net Version	4.8
Network Interface	1Gbit/s

* These values are a recommendation if no other third party services are running on this hardware.

The following factors influence the system load and accordingly the system requirements.If your system meets one or more of these criteria, please contact Geutebrück GmbH to validate your system requirements.

Influencing factors	Recommendation
System with many G-Core Actions	Use of several agents.
System with multiple agents	Microsoft SQL Server Standard and Windows Server 2016 / 2019 operating system.
Use of Microsoft SQL Server Standard	Microsoft SQL Server Standard can use several CPU cores, so that the CPU load can be distributed over several cores. This must be considered when selecting the hardware
System with retriggered events, creation of new event instances	Increased system requirements
System with >5 alarms per minute or complex alarm configurations (viewer group alarms, database playback, metadata display, etc.)	Increased system requirements
System with >5 events per second or complex event display with database search	Increased system requirements
Parallel use of the process data search on several clients	Increased system requirements
Global System - Interconnection of several G-Sim installations	Increased system requirements
System running in a virtual environment	Increased system requirements
System with 3rd party services and applications	Increased system requirements

For maximum supported system sizes, please refer to the technical data and clarify these with Geutebrück GmbH before planning the system.

CPU and graphics driver recommendations

We recommend the following CPU and Intel graphics drivers. We cannot guarantee functionality and performance without using the recommended drivers. Any new version may cause performance and stability problems.

Product Collection	Code-Name	Prozessor-Number	Prozessor-Graphics	Graphic Driver Version
8th Generation Intel® Core™ i3, i5, i7 Processors 9th Generation Intel® Core™ i3, i5, i7, i9 Processors	Coffee Lake	Core 8000 Serie Processor Core 9100 Serie Processor Core 9500 Serie Processor Core 9700 Serie Processor Core 9900K Serie Processor	Intel® UHD Graphics 630	25.20.100.6519 DCH (Win 10 1809)
		Xeon E-2244G Processor	Intel® UHD Graphics P630	27.20.100.9168 DCH (Win Serv 2019 1809)
7th Generation Intel® Core™ i3, i5, i7 Processoren	Kaby Lake	Core i3- 7100TE Processor 3.9Ghz Core i5- 7500 Processor 3.4Ghz Core i7- 7700 Processor 3.6Ghz	Intel® HD Graphics 630	21.20.16.4678 (Win 10 1607) 26.20.100.7263 (Win 10 1809, Legacy) 26.20.100.7584 (Win 10 1809, DCH)
Intel® Xeon® Processor E3 v6 Family	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	21.20.16.4678 (Win Serv 2016)

These drivers may not be part of the G-SIM installer. Please refer to the Geutebrück Knowledge Base for an up-to-date list:

https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html

Contact information

If you have any questions about the specific requirements of your system, you can contact Geutebrück GmbH:

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