

# GEUTEBRÜCK

# G-SIM

Software Version 9.3.0

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**Release Notes**

## Table of contents

Release Notes ..... 3

Feature Description .....5

Update Guide..... 7

System Specifications ..... 9

# G-SIM 9.3.0

Software	Type	Short Description	Detailed Description
New Feature	Viewer	Adaption of last connected viewer function	The feature "Last Connected Viewer" was adapted with a new parameter, which excludes automatically connected cameras from the main feature. This means automatically connected cameras like auto view alarms in a predefined template. This new parameter behaves like the existing "True" parameter with the mentioned addition above.
Information	Compatibility	Updated G-Core 6.0 binaries	This G-SIM version supports the latest official G-Core 6.0 version and the included adaptions.
Improvement	Setup	Adaption of playback time limit	The maximum playback time limit of an user was improved to 100000 minutes.
Improvement	Viewer	Every bookmark is visible for every camera.	The "Jump to Bookmark" functionality was improved, that only viewers which are showing the camera from a specific bookmark are jumping to the bookmark's time instead of all viewers.
Improvement	Setup	Adaption of camera name character limit	Improved character limit for camera names from 50 to 250 characters.
Improvement	Map Objects	Missing sorting of map object icons	The sorting of map object icons was improved to ensure the same behaviour like it was in the previous ManCon versions.
Improvement	OpCon	Removed redundant functionality of "Show Activity Areas"	The OpCon functionality "Show Activity Areas" was adapted as it was redundant. The checkmark in the OSD settings was therefore removed.
Improvement	Installer	Default installation of Global was removed from installer	The G-SIM installer was improved to exclude the default installation checkmark for the Global environment.
Improvement	Audit	Wrong audit results on filtering for video export	The audit search was improved to ensure the display of correct results after a more complex filter was set.
Improvement	Map Objects	Missing cancel / exit button in map object configuration	The custom button view was improved with a new button to cancel / exit the adding of action items.
Improvement	Audit	Audit is not recognizing logout from ManCon	The audit is now able to show logins and logouts together with the client type e.g. OpCon, ManCon.
Improvement	OpCon	Slow search in OpCon camera list	The camera search in the OpCon tab list was improved to enable faster searching in bigger lists of connected cameras.
Improvement	Process Data	Cyrillic text is not recognized in process data search	The process data search was improved to enable the correct processing and searching of Cyrillic text in process data.
Improvement	GIS Map	Adaption of allowed area function in GIS map	Adaption of the GIS map functionality to the correct described behaviour to set an allowed area with "ALT" button and left click instead of right click.
Improvement	Viewer Templates	Adaption of populated layout behaviour	The template behaviour was improved to ensure the restoring after a client restart or power loss.
Improvement	User Interface	Change of license message popup	The license message popup was improved to further differentiate between non-licensed and non-activated features in a Global environment.
Improvement	Backend	Adaption of DBConnectionBuilder	The database connection builder was improved, to ensure the initialization of databases in G-SIM.
Improvement	Process Data	Process data filters with "Radio Button" doesn't work	The process data search in accordance with radio buttons was improved in several ways.
Improvement	OpCon	OpCon UAC issue with shortcuts	The access level of the OpCon and other third-party-software was improved to ensure correct operations between each other.
Improvement	ManCon	Added overlay grid to the OSD preview	The OSD configuration was improved with a new grid view to ensure an easier alignment of elements.
Improvement	MBEG	Improved MBEG+ functions with other languages	The MBEG+ functionalities in different language settings were improved, to ensure constant working function trough all configurable languages.
Bugfix	Map Objects	Exception in Offset menu	An issue in the map objects was fixed, which led to an exception after a button is moved to configure the offset.
Bugfix	Map Objects	Exception when no button is assigned to a map object	An issue in the map objects was fixed, which led to an exception if a map object without a button was assigned to a map.
Bugfix	Map Objects	Layout calling with map object is not working	An issue was fixed, which led to a non working custom button if a layout is connected to it.
Bugfix	Setup	Client Data is not included in setup export	An issue were fixed, which led to a not successful export of client data respective the setup.
Bugfix	SAM	G-SIM is not starting when Remote-SAM is not reachable	An issue in the licensing was fixed, which led to a non-working G-SIM server if the connection to the SAM was interrupted.
Bugfix	Failover	Incomplete list of primary NVRs in failover selection	An issue in the failover setup was fixed, which led to incomplete listing of primary NVR's.
Bugfix	Viewer Templates	Missing camera number in populated layouts	An issue in the populated layouts was fixed, which led to the display of the camera name only instead of camera name and camera number.
Bugfix	Process Data	Disabled secondary language for predefined process-data-filters	An issue was fixed, which disabled the secondary language parameters for process data filters.
Bugfix	Actions	G-SIM processes external viewer actions	An issue was fixed, where it was not possible to use viewer actions to externally control the OpCon viewers.
Bugfix	GeViSoft	GeViSoft toggle output-value is not saved for map objects	An issue in the combination of GeViSoft and map objects was fixed, which led to reset values for the toggling of output contacts.

# G-SIM 9.3.0

Software	Type	Short Description	Detailed Description
Bugfix	Security	Password is not synced in Global environment	An issue in the global synchronization was fixed, which led to unsynchronized user passwords after change.
Bugfix	Language	ManCon: mismatched caption for format settings	An issue in the language and format settings of the ManCon was fixed, which led to a mismatch in the short/long date&time format.
Bugfix	Security	ManCon login limit exceeded	An issue was fixed, where the ManCon login limit was exceeded if a network loss has happened and the parameter "Maximum number of simultaneously connected ManCons" was enabled.
Bugfix	Installer	Unwanted Global activation in installer	An issue in the installer was fixed, which led to an unwanted activation of Global even if it was unchecked during the installation.
Bugfix	Guard Tours	Guard tours shows map instead of camera	An issue in the guard tours was fixed, which sometimes led to the display of the map instead of the specific cameras.
Bugfix	Viewer Templates	Disabled edition of alarm template parameters	An issue in the alarm templates was fixed, which led to non-editable parameters after the creation of a new parameter of an alarm template.
Bugfix	Security	Encryption settings turned off after system update	An issue was fixed, where the encryption setting was enabled for the server itself after the whole non-encrypted G-SIM system was updated.
Bugfix	Viewer Templates	Template groups do not work on ReCons	An issue was fixed, which led to the usage of all templates on a ReCon instead of only the preconfigured ones.
Bugfix	MBEG	MBEG+ doesn't process global numbers	An issue in the MBEG+/OpCon combination was fixed, which led to a non-working functionality of switching cameras based on their global number.
Bugfix	User Interface	OpCon shows "Not a Primary server" when connected to cluster via IP address	An issue in the OpCon connection was fixed, which led to a misleading tooltip after the OpCon was connected to a G-SIM cluster via IP address or hostname.
Bugfix	Map Objects	Camera list control in ManCon is stretched unwantedly	An issue in the map object view was fixed, which led to an unwanted stretched item list.
Bugfix	Failover	Cameras are not connecting after NVR failover	An issue was fixed, which led to not reconnecting cameras in viewers after a NVR failover during the downtime of the primary server. They had to be manually reconnect per drag&drop in the viewer.
Bugfix	Security	ManCon login only works for the first time	An issue was fixed, which led to login issues in the ManCon in case of cluster mode.
Bugfix	ManCon	High CPU usage in ManCon	An issue was fixed which led to a higher CPU load during menu switching in the ManCon.
Bugfix	Security	Login problem in ManCon & OpCon	An issue was fixed, which led to repeated login attempts before successful login.
Bugfix	Viewer	Global numbers are disappearing on additional screen	An issue was fixed, where the global viewer numbers randomly disappeared in a multi monitor setup.
Bugfix	Audit	Audit is printing wrong filter name	An issue was fixed, where the audit report shows a wrong filter name if different filters were used before the report printing.
Bugfix	OpCon	Menus shown after minimizing OpCon	An issue was fixed, which prevents the closing of camera tab columns if the OpCon is minimized afterwards.
Bugfix	Versioning	Wrong version number in OpCon, ManCon & DLL's	An issue was fixed, which led to mismatching version numbers in OpCon, ManCon and other places.
Bugfix	Map Objects	Map object toggle with I/O and GeViSoft not working	An issue was fixed, where the state of a GeViSoft input was wrongly displayed on a connected map object.
Bugfix	Maps	Impossible to deselect the set map in menu "Zoom Out Map"	An issue was fixed, where a previously setted "Zoom Out Map" could not be removed to disable this functionality.
Bugfix	Map Objects	Camera labels are shown even if hidden	An issue was fixed, where the camera label was shown on a map object, even if it was disabled before.
Bugfix	OpCon	Event markers are not visible in OpCon	An issue was fixed, which led to invisible event markers on the OpCon timeline.
Bugfix	OpCon	Last event button will jump back and forward	An issue with the "Last Event" button was fixed, which led to back and forth jumping on the same event.
Bugfix	Audit	Missing audit entries after Global failover	An issue in the Global failover was fixed, which led to missing audit entries after a failover scenario.
Bugfix	OpCon	Activity areas from VMD/VMX are not displayed	An issue in the activity areas was fixed, which led to a delayed display of activity areas during an alarm.
Bugfix	Maps	Maps on OpCon are uncentered and zoomed	An issue was fixed, which led to uncentered and zoomed displaying of maps in the OpCon.
Bugfix	Security	Long login time after setup change	An issue was fixed, which led to an unusual long login period after the setup of event recording.
Bugfix	OpCon	Play modes are always in the foreground	An issue with the play mode buttons was fixed, which led to always displayed buttons, even in other applications.
Bugfix	Failover	Windows authentication doesn't work when GSIM master failed	An issue was fixed where the Windows authentication was automatically set to "False" after the G-SIM failover server was started in case of failover.
Bugfix	Process Data	Process data search returns data from other entries	An issue in the process data search was fixed, which led to the display of process data outside of the chosen filter in combination with face recognition events.

### **New Alarm Wizard for our ManCon**

Based on the new ManCon design, the much requested alarm wizard has been added.  
The workflow remains the same and was improved in several points to ensure a better usability during the creation and adaption alarms.

### **Certificate Authentication for Web Browser Integration**

Several websites are using client authentication and request a valid certificate file, which is now possible during the usage of the webbrowser integration.

It is possible to add an individualized certificate to G-SIM with a small MEF plugin.

This feature is especially useful for third-party-systems which are displayed in the OpCon Web browser integration and require a client certificate.

### **Reworked Connection Handling**

We fully refactored the connection component in this version to further improve the stability and performance.

These improvement are especially visible during network failures and power loss situations, after which the OpCons and other components needs to reconnect.

### **Support of Microsoft SQL Server 2019**

The current version of G-SIM now supports the Microsoft SQL server version 2019.

System could be upgrade from 2014 to 2019 with the upgrade documentation in our partner portal.

Furthermore the installer will install MS SQL 2019 per default.

### **SAFR Integration**

The current version of G-SIM now supports the FaceRec alarms from SAFR.

The alarms triggered by the new FaceRec action can be displayed in OpCon and searched with process data search.

### **General Stability & Performance Improvements**

Additionally to the mentioned bugfixes and features, we've improved the overall stability and performance of this version. This happened due to several smaller adaptations of background processes and different smaller UI adaptations.

### **Hostname to IP lookup required**

As of v9.2 G-SIM is relying on hostnames for connections of the Opcon to server and server to server (failover/global). If the hostname to ip lookup is not possible in your network, the connections (Opcon/Server) will fail. This will be changed in the next G-SIM version.

### G-SIM Updating Guide

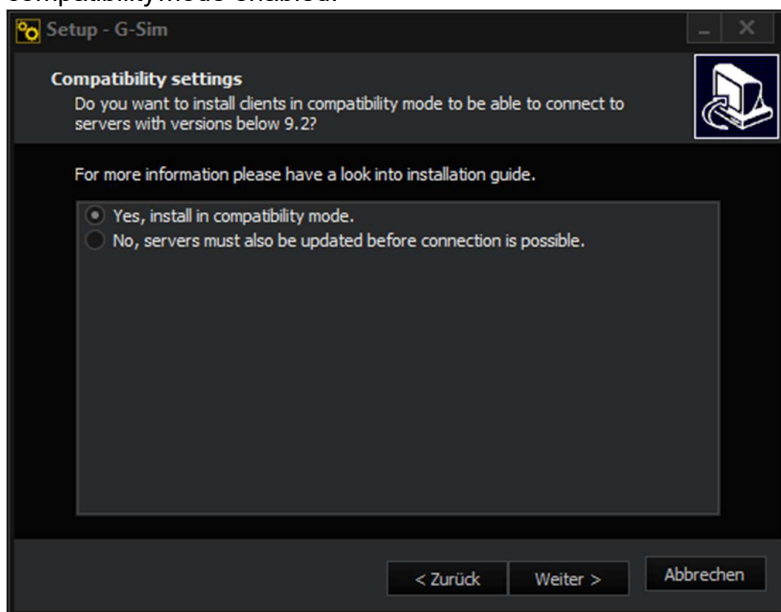
Starting with Version 10 we implemented security related fixes which leads to incompatibility to older G-SIM versions. That means that clients from Version 10 are not able to connect to older GSimServers.

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

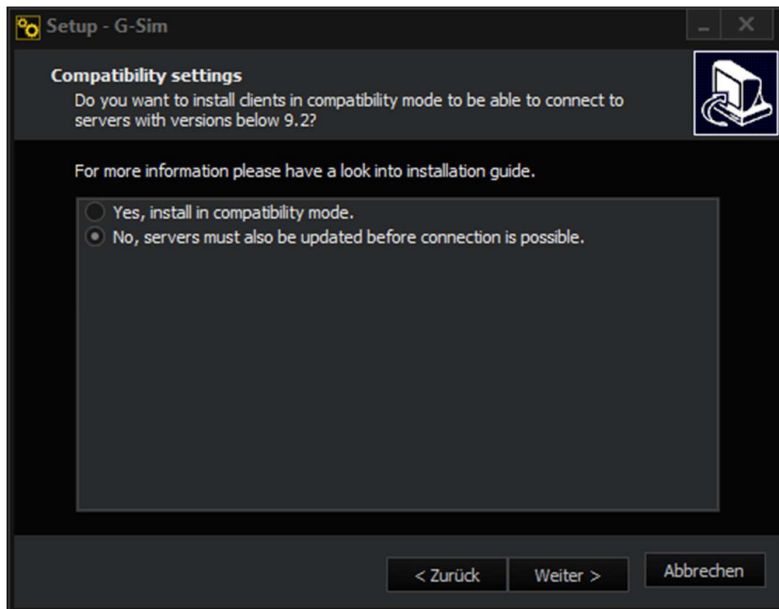
**Please follow these instructions to avoid interruptions of operation while updating. If it is not necessary to have the system in operation mode while updating is in process you can skip step 1.**

**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 2014/2019	X	X	X	X	X	X		
	SQL Server Standard 2014/2019							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								
Hardware Generation	We recommend the usage of the current G-ST generation, nevertheless a Global system is only supported on G-ST hardware.								

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

## 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) or higher
GPU	Intel GPU Consider the CPU and graphics driver recommendations listed below
Operating system	Windows 10
Microsoft .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	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630	25.20.100.6519 DCH (Win 10 1809)
		Core 9100 Serie Processor		
		Core 9500 Serie Processor		
9th Generation Intel® Core™ i3, i5, i7, i9 Processors		Core 9700 Serie Processor		
		Core 9900K Serie Processor		
		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	Intel® HD Graphics 630	21.20.16.4678 (Win 10 1607)
		Core i5- 7500 Processor 3.4Ghz		26.20.100.7263 (Win 10 1809, Legacy)
		Core i7- 7700 Processor 3.6Ghz		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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