

GEUTEBRÜCK

G-SIM

Software Version 10.2

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**Release Notes**

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## G-SIM 10.2

Type	Module	Detailed Description
Bugfix	Agent	An issue with the Turkish system language in combination with the G-SIM agent was fixed, which led to not loading alarms.
Bugfix	OpCon	The locate function for the viewer number didn't worked for events.
Bugfix	ManCon	Cloned users from the Active Directory could not be deleted in the ManCon.
Bugfix	ManCon	The ManCon CCS Dialogue opened very slow with big G-SIM Setups and high count of Cameras and Servers.
Bugfix	OpCon	An issue with the cutlist was fixed, where the inheritance of a camera timestamp did not worked.
Bugfix	ManCon	An issue with the custom buttons sets was fixed, which led to unassigned users in the setup.
Bugfix	Audit	An issue with the image frame export in combination with the audit was fixed, where the export time was included in the timestamp instead of the original video time frame.
Bugfix	OpCon	An issue with maximizing synced viewers was fixed together with the following additional instruction: Unsync synced viewers when one of the synced viewer is going to be maximized Resync previously synced viewers when viewer is going to be minimized. Viewer which is going to be minimized will be master viewer
Bugfix	OpCon	There was an issue with the usage of custom buttons and the setting Obtain Media Channel from Viewer which was fixed.
Bugfix	ManCon	An issue in the alarm simulator of the ManCon, where the alarm sound is not playing in the OpCon if the alarm of the simulator occurs.
Bugfix	OpCon	If Site is not available, OpCon may showing Images of previous Camera in Viewer after force playback or playback backwards.
Bugfix	ManCon, OpCon	An issue with the ManCon and Opcon help button, which leads to a popup message that the local help is not installed even if it is installed.
Bugfix	OpCon	An issue with the map objects which leads to an unwanted behaviour that layouts are called independent if their allowed or not.
Bugfix	OpCon	Different issues with the alarm/viewergroups and the viewing of alarms were fixed.
Bugfix	OpCon	An issue with the process data filter, where the numpad doesn't work to input data into the quicksearch.
Bugfix	G-SIM Server	An issue where the custom buttons are not synchronized between the primary and secondy server.
Bugfix	ManCon	An issue with the enforce password history configuration, where this functionality is turned off but the administrator gets sometimes the message as if the functionality was turned on when setting the exact password for a user as before.
Bugfix	OpCon	Viewer OSD is showing wrong Barcode while Process Data Search based on Site / NVR and not G-SIM SQL DB.
Bugfix	OpCon	An issue with the web browser integration, which results in an OpCon crash if cookies are accepted in a previous opened web page.
Bugfix	OpCon	An issue with non displayed OSD in combination with the process data search on an NVR.
Bugfix	Agent	An issue with the health agent, which results in a notification from the secondary G-SIM server that the health agent is not responding. This is caused by the fact that the health agent only connects to the primary G-SIM server. The secondary server now also connects and gets health check-ins from a health agent.
Bugfix	OpCon	An issue with the textbox for time search where a second click was necessary to insert text.
Improvement	ManCon	The settingTop Return Rows in the ManCon System Settings area Event Recording was removed as this is no longer available.
Improvement	ManCon	There are three new settings to further specify the maximum record amount in reports for alarms, process data and audit. The initial setting Maximum amount records of report is nowMax. Amount of Records for Alarm Report.
Improvement	OpCon	The startup setting screen of the OpCon was split into two tabs to improve the usability and overview.

## G-SIM 10.2

Type	Module	Detailed Description
Improvement	ManCon	The user privileges in the ManCon are now sorted in alphabetical order.
Improvement	G-SIM	The CefSharp library for use within the web browser integration has been updated with the latest security updates.
Improvement	G-SIM Installer	The graphics drivers have been removed from the G-SIM installer, reducing the size of the installer by around 50%.
Information	G-SIM	An additional test tool for analyzing the G-SIM database can now be found in the Common folder. The test tool includes the possibility to authenticate at the database instance, to enter and use SQL commands and to display the SQL results.
Information	G-SIM	A new component for deeper analysis has been added to G-SIM, which is activated by default. When G-SIM is started, information about dump flags is written to the debug output and to the Windows event log. In case this functionality is not needed, the following Windows registry keys (HKEY_LOCAL_MACHINE\SOFTWARE\Geutebrueck\GLib) can be added and set to 0. This disables the termination of applications in the event of errors and the subsequent creation of dumps. ExitProcessAfterExceptionEnabled = 0 ForceMiniDumpsActive = 0 VectoredExceptionHandlerEnabled = 0 G-SIM applications (OpCon, ReCon and ManCon) are not terminated after a critical error and only a dump is created. Other services are terminated in the event of a critical error and dumps are created.
New Feature	OpCon	The creation and export of cutlists was improved, which now enables the Operator to create several cutlist entries for the same camera but with different timestamps.

- **Videoplayer enhancements**

- Client warnings due to unexpected graphics driver: If an unexpected Intel graphics driver is installed on the device where the client (G-View, G-SIM OpCon) is running, a warning message is displayed inside the viewers for 5 minutes after the first channel assignment to any viewer. The message automatically disappears from all viewers after this time.
- For hardware based decoding with Intel UHD 7xx devices the Intel graphics driver 31.0.101.4091 is needed. It can be [downloaded here](#).
- Enhanced video metadata rendering capabilities for improved performance. This update means faster rendering of overlay metadata, leading to higher display frame rates for a smoother video playback experience. Especially for High DPI displays (4k or more) with activated scaling the performance is improved.
- Updated our video processing library to ensure compatibility with the latest video standards, enhancing performance and stability.

#### 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	At least Intel Core i7 Kaby Lake	X		X		X			
	Min. Server CPU Xeon E3 1275 V6 up		X		X		X	X	X
Microsoft SQL Server	SQL Server Express 2019	X	X	X	X	X	X		
	SQL Server Standard 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

### System Requirements

#### G-SIM Client Minimum Requirements

Memory	16 GB
Free hard disk space	8 GB (6 GB free)
CPU support	min.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.

#### Influencing Factors and Recommendations

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

#### HARDWARE RECOMMENDATION:

We recommend the following CPU and Intel graphic drivers. We cannot guarantee functionality and performance without the use of recommended drivers. GPU drivers are like any software, each new release can introduce performance and stability issues. If a problem appears at one point, we recommend to try to use a tested version.

#### View Stations:

For older hardware please disable the "Direct 3D-11 Rendering" setting in the general section of the OpCon login screen settings.

#### DIRECT3D-11 rendering activated:

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version
12th Generation Intel® Core™	Alder Lake	Core 12000 Serie Processor	Intel® UHD Graphics 770	31.0.101.4091 (Win 10 21H2)

#### DIRECT3D-11 rendering NOT activated:

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version
10th Generation Intel® Core™ i3	Comet Lake	Core 10300 Serie Processor	Intel® UHD Graphics 630	31.0.101.2115
9th Generation Intel® Core™ i3, i5, i7,i9 Processors		Core 9100 Serie Processor Core 9500 Serie Processor Core 9700 Serie Processor Core 9900K Serie Processor Xeon E-2244G Processor	Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics P630	31.0.101.2115
8th Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630	31.0.101.2115
7th Generation Intel® Core™ i3, i5, i7 Processors	Kaby Lake	Core i3- 7100TE Processor 3.9Ghz Core i5- 7500 Processor 3.4Ghz Core i7- 7700 Processor 3.6Ghz	Intel® HD Graphics 630	31.0.101.2115
6th generation Intel® Core™ i3, i5, i7 Processors	Skylake	Core i3- 6100TE Processor 2.7Ghz Core i5- 6500 Processor 3.2Ghz Core i7- 6700 Processor 3.4Ghz	Intel® HD Graphics 530	31.0.101.2115
Intel® Xeon® Processors E3 v6 Familie	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	31.0.101.2115
Intel® Celeron® Processors J Serie	Gemini Lake	Intel Celeron J4105 2.5Ghz	Intel® UHD Graphics 600	31.0.101.2115



### G-Core / G-SIM Matrix – Version Recommendation

G-Core	G-SIM							
	Version	8.5.2	8.8.1	9.3.0	9.4.0	10.0.0	10.1.0	10.2.0
	4.0.2	X	X					
	5.0.0		X	X				
	6.0.0			X	X			
	6.1.0				X	X	X	X
	7.x				X	X	X	X
	8.x					X	X	X

We recommend the version pairs marked with a green „X“ for:

- Optimal compatibility between G-Core and G-SIM
- Mutual support of new features, improvements and performance

**Bugfix releases are enclosed in the respective version pair (e.g., 9.4.3 in 9.4.0)**

**Red marked version pairs are generally possible but did not fully provide the compatibility between the separate software parts!**

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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