GEUTEBRüCK

G-SIM

Software Version 10.2.2

Can be installed with an upgrade entitlement expiry date after November 30, 2022

Release Notes

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Table of contents

G-SIM Global improvements

G-SIM Global has been stabilized and made more transparent. Global changes are now cached locally so that no data is lost in the event of a Kafka failure. Setup transfers can be triggered manually and are consistently displayed in Audit, Windows event logs, and ManCon. In addition, audit entries and event IDs have been expanded and two new tools, Data Statistic and Event Store Status, have been added to ManCon, providing a clear overview of setup data and the status of the event store. Furthermore, only the master agent establishes an AD connection, which prevents duplicate messages and synchronization errors.

Czech translation

The Czech translation has been completely updated and is now ready for use.

- Further information on all system requirements can be found in the partner portal!
- Further information on all new functions and improvements is available in the Partner Portal, the online help and from your Geutebrück partner!

G-SIM 10.2.2

Type	Module	Detailed Description
Information	Global	The Active Directoy integration was improved, that only the master Agent will establish a connection to the AD which prevents duplicate messages and other synchronization related issues.
Information	Global	An intermediate table for all Global synchronization changes was added to store them locally before they are pushed to the Kafka network. This prevents that all synchronization changes are lost if Kafka is not connected in this moment.
Information	System Wide	The G-Core binaries have been updated to the latest version 8.3.2.1050. With this change it is possible to replay stereo sound in the OpCon.
Improvement	Global	The new menu "Data statistic" was added to the "Tools" section of the ManCon. With this, it is possible to view amount and details of setup information. Further it is possible to copy/paste the information for further analyses and to view the server from which the data is originated.
Improvement	Global	The "Event Store status" tool for Global was added to the ManCon Tool area. It is now possible to request the current state of the event store and to display all event store requests including if the Global synchronization is currently running. This tool is only visible if the Global feature has been activated before.
Improvement	Server	G-SIM can now also process SNMP alarms with SNMP protocol version V2.
Improvement	Global	The button "force synchronization" for Global was changed to "Pull Global changes now".
Improvement	Global	The following improvements have been made to the setup in Global:The user can manually force the transfer of the local setup or selected parts of the local setup. The transfer of the setup is logged in the Windows event log and in the audit log. Messages about the start/stop of the setup transfer are sent to ManCon and displayed as pop-ups. Messages about the start/stop of global change retrieval are sent to ManCon and displayed as pop-ups. Global synchronization in the audit and logs is renamed to "Retrieve global changes".
Improvement	Global	The following event IDs have been added:1002 - Connection to the G-SIM Server database can not be established 1003 - Connections to the G-SIM Server databases are not configured 1004 - Another instance of G-SIM Server is already running 1005 - Unknown error
Improvement	OpCon	The new setting in the ManCon "Bookmark Usage Mode" allows you to set the behavior of the viewer when a bookmark is selected. It is possible to choose from three different modes: "Apply Timestamp to all Viewers with Bookmark Camera" "Apply Timestamp to selected Viewer" "Apply Timestamp & Camera to selected Viewer" Please visit the online documentation for more information on how to use this feature!
Improvement	Global	The audit of Global related actions was improved and extended: Audit log for every performed Global synchronization Windows event log for periodic sync Windows event log for manual pull Windows event log for forced re-sync
Improvement	OpCon	The parameters for audio/video synchronization during PTZ control can now be set in the OpCon configuration. They are saved on a user-specific basis.
Improvement	Global	The data statistics menu in the ManCon was extended with the "Mark as local" button. This button will set GSIMServerID of selected entities to the id of the local server.
Bugfix	OpCon	An error that causes the correct map to not always be displayed when localizing a map object.
Bugfix	OpCon	An error that causes the secondary server to crash in a G-SIM cluster connected to a global system if the password has been changed.
Bugfix	OpCon	An error that causes PTZ camera preset positions from the OpCon not to be saved when the server is working in a global environment.
Bugfix	Server	An error in the server, which crashes due to a customized NVR failover configuration.
Bugfix	Server	An error that prevents a connection to the G-SIM server from being established.
Bugfix	OpCon	An issue in the OpCon. where the whole OpCon gets frozen during taking of alarms with the "Take" button to acknowledge them.
Bugfix	OpCon	An issue in the OpCon, where a crash happens due to Viewer Sync with 16 viewers. The crash actually happens after a click on the "sync" button in OpCon and not when the sync is running.
Bugfix	OpCon	An error that caused audio from all viewers to be heard simultaneously when viewers are synchronized.
Bugfix	OpCon	An error in the OpCon, which occurs when switching between live view and database playback when the material comes from the primary and failover server.
Bugfix	OpCon	Issue where completed alarms cannot be searched in the filter section due to a server-side exception when responding to the alarm request.
Bugfix	ManCon	Errors in report generation in automatic Cam Check have been fixed and the configuration of the report file path has been improved.

G-SIM 10.2.2

Type	Module	Detailed Description
Bugfix	ManCon	With G-SIM Global, the "May connect to global servers" privilege also controls the "Remote" tab in the template selection in the Operator Console. The name of the privilege has been changed to "May request data from Global Servers".
Bugfix	ManCon	An error in which users received alarms that were not intended for them.
Bugfix	ManCon	An error that caused a user assigned to a sub-domain and assigned to a group in another sub-domain to no longer be able to log in. Attention: In the current implementation, in case of Global Environment, only one G-SIM Server can be connected to the Active Directory.
Bugfix	Server	The error caused the export service to crash during startup.
Bugfix	OpCon	An error that prevented connection to the respective cameras of the failover NVR when using multiple failover NVRs.
Bugfix	Server	An issue that caused reference images created manually in the G-SIM OpCon not to be saved in the CamCheck service.
Bugfix	Agent	The error caused the agent to crash in combination with GeViSoft.Important! In case of dual mode, both agents should be updated! Additional logging of dual mode can be enabled via Agent's config file <add key="AdditionalClusterMonitorTraces" value="True" />
Bugfix	OpCon	An issue which led to an unresponsive OpCon.
Bugfix	OpCon	An error that caused a video to jerk during playback if several clients accessed the video at the same time.
Bugfix	G-View, OpCon	A bug that caused the audio from another camera to play in a media channel without audio.
Bugfix	ManCon	An issue in the ManCon, in which it is not possible to save the setup if a map with "/" in the name was added before.
Bugfix	Server	An issue where users that are deleted in global servers still appear in other servers, even if the users are deleted manually in all global servers where they are present.
Bugfix	OpCon	A bug that causes a newly set password of a user in a G-SIM Global network not to be synchronized with one or more Global Servers, so that the user still has to use the old password when logging on to another server. Note: After the software update, the user's password must be changed again so that the change is synchronized on all servers.
Bugfix	Server	An issue with G-SIM Global, where freshly set user passwords are not working after the server syncronization.
Bugfix	ManCon	An issue in the ManCon, which prevents the selection of cameras for the camera failover, as the "Is Failover" checkbox could not be checked.
Bugfix	OpCon	An error that causes the filtering of the audit to return results that do not match the filter criterion under certain circumstances.
Bugfix	OpCon	An issue in the OpCon, which prevents it to close properly by using the "X" button.
Bugfix	OpCon	An currently not fully investigated issue of G-SIM, which led to a stucked loading screen in the OpCon. This happed in combination with a faulty G-Core NVR in a specific customer system.
Bugfix	OpCon	An issue with the alarm report of the OpCon, where the header row is missing in the report.
Bugfix	ManCon	An error which meant that the ManCon could be connected to the G-SIM server with a known Windows user without a password. In addition, it was also possible to change Active Directory users as an administrator.
Bugfix	ManCon	Minor issue in G-SIM client setup where removing events in the process data filters tab may cause parameters to shift or disappear.
Bugfix	System Wide	Miscommunication between ManCon and OpCon, where ManCon-created thumbnails do not appear in OpCon.
Bugfix	OpCon	Playforward gets stuck when a recording is played forward within an access restriction.
Bugfix	Server	A critical vulnarability has been fixed.
Bugfix	OpCon	Issue where cutlist entries are incorrectly created when dragging text in edit mode or moving existing cutlists.
Bugfix	ManCon	An error that causes a dialog to always appear when saving the setup, stating that changes were made by another user, although this was not the case.
Bugfix	OpCon	An error that caused the OpCon to crash if a recording of a camera that was not activated in G-SIM or was not allowed to be viewed by the user due to a restriction was to be shown in a viewer.
Bugfix	OpCon	An error that causes the action "ViewerConnectLive" to use the set global camera number although an offset has been set for the console in the G-SIM Global network.

G-SIM 10.2.2

Type	Module	Detailled Description
Bugfix	ManCon	An issue when one map has been changed and setup saved in ManCon, all maps on server side has been updated. This led to multiple Kafka messages and long synchronization in case of a higher amount of maps.
Bugfix	ManCon	An issue of Global that if one map was updated, all other were treated as updated including multiple messages to Kafka.
Bugfix	ManCon	An issue with the save button in the ManCon, which made the button active the whole time after a map has been changed.
Bugfix	ManCon	An issue with the ManCon merge dialog which displayed all maps as changed, even though it wasn't the case.
Bugfix	ManCon	An issue with the red dot indicator in the ManCon, which wasn't shown in case of restrictions with wrong or missing configuration.
Bugfix	ManCon	A problem with Active Directory synchronization that resulted in updates to user permissions, including multiple Kafka messages, even though they had not been updated.
Bugfix	ManCon	An issue with the synchronization in case a map name has a too long name. Length-related adaptation: Due to referencing the map name, the length was adjusted to a maximum of 60 characters.
Bugfix	Server	An issue with the hardcoded DB naming which led to synchronization issues in case of re-naming.
Bugfix	ManCon	An issue which led to server crash if a map name has been changed.
Bugfix	ManCon	An issue in the ManCon which caused the save button to become active when a user performs login without "Remember password" option.
Bugfix	Global	A problem where deleted maps were not synchronized correctly in the global scenario.
Bugfix	ManCon	An issue with cloning a User Group with LDAP Group assigned to it, which led to a G-SIM User group its assigned LDAP group removed.
Bugfix	Agent	An issue during the usage of "ViewerSetPlaymode" actions, which was sent twice in a cluster scenario.
Bugfix	Agent	An error that caused users from sub-domains not to be deleted under certain conditions. Attention: In the current implementation, in case of Global Environment, only one G-SIM Server can be connected to the Active Directory.
Bugfix	OpCon	An issue which led to non working export of video footage from a GeViScope server.
Bugfix	OpCon	A bug that caused OpCon and ReCon to crash when an alarm was re-played in a loop.
Bugfix	Server	A bug that caused the G-SIM server to crash when an alarm was triggered by a GeViSoft event.
Bugfix	Server	By default, all SNMP alarms for which no alarm filter has been configured are now handled by the GeViRAID error alarm. Customer can set ReportAllAlarms to False to disable this behavior
Bugfix	Server	A problem that, in combination with Active Directory and cluster usage, led to a G-SIM server crash.
Bugfix	OpCon	Bugfix: OpCon:A bug that causes the OpCon to hang and become inoperable when using Area Zoom.
Bugfix	ManCon	The error caused ManCon to freeze for a long time when scrolling through the camera list.
Bugfix	Server	An issue in G-SIM Global, where users from other Global servers are being deleted if the XML key for the resync is activated and the G-SIM server is restarted.
Bugfix	OpCon	Time mismatch between G-Core and G-SIM causes camera view, timeline, and system time (timezone dependent) to show different timestamps.

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G-SIM
System Requirements

Software & Hardware Requirements

The following table shows the recommended minimum requirements for servers and clients of our software.

Please refer to the recommendations for CPU, which can be found further below.

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.

Should further factors apply to your system, please contact Geutebrück GmbH to validate the requirements of your system.

G-SIM Server

System	Memory	Free Space	MS .Net Framework	MS .Net Core	VC++ Redist
G-SIM 10	16GB	80GB	4.8	-	2015-2022

G-SIM Client

System	Memory	Free Space	MS .Net Framework	MS .Net Core	VC++ Redist
G-SIM 10	16GB	8GB	4.8	6.0 (only for SAML)	2015-2022

G-SIM Web API

System	Memory	Free Space	MS .Net Framework	MS .Net Core	VC++ Redist
V3.0	16GB	10GB	-	6.0	

Plugin Loader

System	Memory	Free Space	MS .Net Framework	MS .Net Core	VC++ Redist
V1.0, V1.2, V1.3	8GB	10GB	-	8.0	-

*For larger projects (Large = Systems with more than 5 recorders, 5 OpCons or more than 100 cameras. Additionally, systems which include a cluster or Global configuration), it is essential to analyse the general conditions under which the system is operated on an individual basis.

For projects of this nature, it is recommended that a Windows server OS, a standard SQL server, a server CPU and additional RAM be used. Should you require further recommendations or specifications, please contact the Pre-Sales team from Geutebrück GmbH directly.

www.geutebrueck.com

Microsoft-Support

This table provides an overview of Windows versions that have been tested with the major versions of our software listed. We recommend using one of the Windows versions listed here. If this version is no longer supported by Microsoft, we recommend using a more recent version that has been tested by us.

Windows 10

System	22H2	LTSB 2016	LTSC 2019
G-SIM Server/Client			
G-SIM 10	Yes	Yes	Yes

Windows 11

System	22H2	23H2	24H2	25H2	LTSC 2024
G-SIM Server/Client					
G-SIM 10	No	No	No	No	No

Windows Server

System	2016	2019	2022	2025
G-SIM Server/Client				
G-SIM 10	Yes	Yes	Yes	No

Microsoft SQL

System	2014	2016	2017	2019	2022
G-SIM Server					
G-SIM 10	Yes	No	No	Yes	No
G-SIM Client					
G-SIM 10	N.A	N.A	N.A	N.A	N.A

It is imperative to use graphics drivers that are compatible with the Windows version in use. For more information, please visit the Intel website. Please also note that security vulnerabilities caused by outdated operating systems are not covered by our support.

CPU & Drivers Overview

We recommend the following CPU and Intel graphic drivers for the usage of video rendering or decoding/encoding tasks. This applies to our G-Core servers with activated VCA or the client software. 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. For older hardware please disable the "Direct 3D-11 Rendering" setting in the login settings of the OpCon or in the general settings of G-View. These drivers are not necessarily part of the G-SIM or G-Core installer.

Product Sortiment	Code Name	Processor Number	Processor Graphics	Graphic driver version	tested with	DIRECT3D-11 rendering activated	DIRECT3D-11 rendering deactivated
12th Generation Intel® Core™	Alder Lake	Core 12000 Serie Prozessor	Intel® UHD Graphics 770	31.0.101.4091 (Win 10 21H2)	G-Core and 8	✓	
10th Generation Intel® Core™ i3	Comet Lake	Core 10300 Serie Prozessor	Intel® UHD Graphics 630	31.0.101.2115	G-Core 7.3 and 8.1		✓
9th Generation Intel® Core™ i3, i5 i7, i9 Prozessor	Coffee Lake	Core 9100 Serie Prozessor Core 9500 Serie Prozessor Core 9700 Serie Prozessor Core 9900K Serie Prozessor Xeon E-2244G Prozessor	Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics P630	31.0.101.2115	G-Core 7.3 and 8.1.1		✓
8th Generation Intel® Core™ i3, i5, i7 Prozessor	Coffee Lake	Core 8000 Serie Prozessor	Intel® UHD Graphics 630	31.0.101.2115	G-Core 7.3 and 8.1.1		✓
7th Generation Intel® Core™ i3, i5, i7 Prozessor	Kaby Lake	Core i3- 7100TE Prozessor 3.9Ghz Core i5- 7500 Prozessor 3.4Ghz Core i7- 7700 Prozessor 3.6Ghz	Intel® HD Graphics 630	31.0.101.2115	G-Core 7.3 and 8.1.1		✓
6th Generation Intel® Core™ i3, i5, i7 Prozessor	Sky Lake	Core i3- 6100TE Prozessor 2.7Ghz Core i5- 6500 Prozessor 3.2Ghz Core i7- 6700 Prozessor 3.4Ghz	Intel® HD Graphics 530	31.0.101.2115	G-Core 7.3 and 8.1.1		✓
Intel® Xeon® Prozessor E3 v6 Familie	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	31.0.101.2115	G-Core 7.3 and 8.1.1		✓
Intel® Celeron® Prozessor J Serie	Gemini Lake	Intel Celeron J4105 2.5Ghz	Intel® UHD Graphics 600	31.0.101.2115	G-Core 7.3 and 8.1.1		✓

Compatibility matrices

This overview provides a comprehensive view of our current interfaces and their dependencies on other products. Furthermore, it shows the compatibilities between the currently supported G-SIM and G-Core versions. In both cases, it is recommended that you use current product versions with their supported compatibilities as shown. Otherwise, not all features and functionalities could be guaranteed. It should be noted that bug fix versions are included in the respective major version (e.g., 10.2.2 in 10.x).

Version	G-SIM 10.X
G-Core 6.X	Yes
G-Core 7.X	Yes
G-Core 8.X	Yes
G-Core 9.X	No

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

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