GEUTEBRüCK

G-Core

Software Version 8.2.0

Release Notes

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Axis Camera Edge Recording

Like the G-Core ONVIF plugin, the Axis plugin now also includes the option of importing videos recorded on the camera into the video database.

Axis 2-way audio

In addition to sound recording from an Axis camera, audio can now also be output via a camera-integrated loudspeaker. This function is only integrated for the ONVIF protocol.

Dynamic stream selection 2.0

The new function processes up to four streams from a camera with different resolutions. Viewers in G-View and G-SIM OpCon show the stream whose resolution best matches the viewer size. There is no mutual interference between the viewers if several viewers display the same camera but in different sizes.

G-Set 4k support

G-Set is displayed correctly on 4k monitors so that all menu texts are clearly legible.

General

Updating the software modules and programming language versions used to fix vulnerabilities.

Note: G-Diagnostics requires the Microsoft .Net Framework 3.5, which must be activated in Windows.

Preparation for Plugin Loader 1.2

G-Core 8.2 contains adaptations that are necessary for the use of the Plugin Loader in version 1.2. The Plugin Loader itself is delivered as a separate installer.

Note: Version 1.1 of the Plugin Loader cannot be used with G-Core Release 8.2. An update to version 1.2 is required.

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Release Notes for the Main Features

Announcements

The following drivers, modules and plugins are marked "phasing out on next major release" in the installer
They will no longer be included in a later version of the G-Core installer.

DVSP8 and switch driver
The DVSP8 driver can now be selected in the G-Core Installer selection menu. It is deselected by default in the standard selection menus "Typical", "Client" and "Custom".
If the silent installer is running, it must be started with the command line parameter "/AllowDVSP8" in order to install the DVSP8 driver.
If Secure Boot is activated under Windows 10 or Windows 11, the driver cannot be installed.
The switch driver for the internally installed network switch can also be selected in the Installer menu.
The driver is deselected by default in the standard selection menus "Typical", "Client" and "Custom".

G-Web
The current version of G-Web is no longer being developed. The functionality of G-Web with future browser versions and/or G-Core versions cannot be guaranteed. G-Core 8.2 and Chrome 128.x were tested for this version. We recommend these versions for use. In the installation menu, "G-Web" is deselected by default in the standard selection menus "Typical", "Client" and "Custom". An alternative will be announced shortly.

IP Camera Plugin G-Cam/TopLine
In the installer menu, the plugin is deselected by default in the standard selection menus "Typical", "Client" and "Custom".

G-CamCheck
In the installer menu, the plugin is deselected by default in the standard selection menus "Typical", "Client" and "Custom".

When updating or upgrading an existing installation, the selection of the previous installation is retained.

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Type	Modul	Detailed Description
Change	DVSP8 drive	The DVSP8 driver is no longer installed under Windows 11 as it is no longer compatible. This means that the DVSP8 can no longer be used under Windows 11.
Feature	G-View, G-Tect, G-Core Web API, G-SIM	The new "Dynamic Stream Switching" (DSS) function ensures that the video resolution provided in the latest version corresponds to the display requirements. Only a low resolution is required to play a video in small format, while the highest possible resolution should be used for full-screen display. In addition, different displays using the same video do not interfere with each other. The maximum resolution can also be limited on less powerful systems.
Feature	G-Core Axis Plugin	Edge Recording has now also been implemented in the Axis plugin. Recordings on the camera's memory can be transferred to a separate edge channel of the Axis plugin.
Improvement	G-Set	On 4k monitors, G-Set is now scaled so that all menu texts are displayed large enough to be easily readable.
Improvement	G-Core	ONVIF Profile T has been officially certified.
Improvement	G-Core uninstallation	The uninstallation of G-Core in the Windows menu "Add / remove programs" is now called via the button "Uninstall". The "Change" button is used to change the installation.
Improvement	G-Core Axis plugin	Audio can now also be sent to an integrated speaker via the Axis plugin. **Note:** This is currently only possible via the ONVIF protocol.
Bugfix	G-Core MetaDataInjection plugin	An issue causing the boundingboxes not to be displayed in every case althouth the Perimeter+ analytics has recognized the object.
Bugfix	G-Core Axis IPC plugin	An issue causing artefacts being shown in the viewer if an Axis PTZ camera operating in ZIP stream is moved.
Bugfix	G-Core G-View	A bug that caused the video to flicker in a viewer that was playing backwards at 1x speed and zoomed in.
Bugfix	G-Core G-Tect	An issue causing the G-Tect VMX algorithm to stop working because it cannot find a license.
Bugfix	G-Core Axis IPC plugin	An issue causing video sync failed alarm when HTTPS is used.
Bugfix	G-Core G-View	An issue causing connection lag when connecting G-View to the G-Core server over a VPN.Reverse DNS can now be disabled in the registry.
Bugfix	License Manager	A bug causing revoking a license not to be possible in the License Manager.
Bugfix	LicenseManager	An issue that causes the upgrade expiration date not to be updated after an upgrade.
Bugfix	G-Core G-Web	A problem that causes G-Web to stop working when the G-Core WebAPI is activated.
Bugfix	G-Web	An error that caused G-Web to stop working because libraries required in the G-Core installer are no longer integrated. **Solution:** The required Visual C++ Redistributable 2010 must be installed manually. It is no longer generally included in the installer as it has security vulnerabilities.
Bugfix	G-Core WebAPI	A problem that causes the WebAPI to stop working in certain situations.
Bugfix	G-View	A bug that causes the time in the timeline to sometimes not display correctly when playing an imported MP4 video and the progress stops.
Bugfix	G-View	A bug that causes the hardware platform and operating system version to be displayed incorrectly in the viewer properties display.
Bugfix	G-Core ONVIF IPC plugin	An issue causing not properly changing the stream codec from H.264 to H.265 on HikVision cameras.
Bugfix	ONVIF and Bosch plug-in	A bug that caused certain cameras to not provide a "tamper" alert.
Bugfix	G-Core Server	An error related to the libmfxsw64.dll library that causes the G-Core Server to crash under Windows 11.
Bugfix	Bosch Plugin	The frame rate for both recording and live display does not change after setting to 30 pictures per second.
Bugfix	G-Core G-View	A bug causing the connections export in the G-View Profilemanager not to work corectly.
Bugfix	G-Core Mail	An issue causing G-Core Mail Setup to fail to launch. The reason for this was that G-Core Mail could not write the required registry entries.
Bugfix	G-Core Remote SAM	A bug that causes the connection between remote SAM and G-Core to no longer be established correctly after multiple disconnections. Licenses are no longer consumed.
Bugfix	G-Diagnostics	A bug that causes G-Diagnostics to crash when trying to connect to G-Core Server.
Bugfix	Direct Image Feed Channel	An issue that caused the CPU load to quickly increase to 100%, interrupting the operation of the system.
Bugfix	Axis Plugin and Axis Multihead Plugin	A problem that causes the DLS setting not to be saved.

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G-Core 8.2.0 System Requirements

SERVER:

Storage for video	minimal: 50 GB, recommended at least 1TB
Storage for installation	minimal 50 GB, recommended: 128 GB
RAM	**min. 8 GB** If G-Tect shall be used together with high resolution camers (4k) a higher amount of memory ist strongly recommended (32 GB)
CPU recommendation	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 (1809, 21H2, 22H2), Windows 11 (22H2), Windows Server 2016, Windows Server 2019 (1809), Windows Server 2022 (21H2)
Microsoft SQL Server	SQL Server 2014, 2019 & 2022, SQL Server 2014 Express, 2019 Express & 2022 Express
Microsoft .Net Version	.NET Framework 4.8 & .NET 6.0
Graphics card	Intel graphics card (only for hardware decoding)

CLIENT: SDK: same requirement as the client

Storage for installation	minimal: 5 GB
RAM	**min. 8 GB** If high resolution (4k) cameras and monitors shall be used a higher amount of memory is strongly recommended. **32 GB** or more. Please see our performance tests as well.
CPU recommendation	see table below
Network Interface	min. 1 Gbit/s
Operating System	Windows 10 (1809, 21H2, 22H2), Windows 11 (22H2), Windows Server 2016, Windows Server 2019 (1809), Windows Server 2022 (21H2)
Microsoft .Net Version	.NET Framework 4.8 & .NET 6.0
Graphics card	Intel graphics card (only for hardware decoding)

These drivers are not necessarily part of the G-Core installer. You may find an updated list in our Knowledge Base:
https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html

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G-Core 8.2.0 System Requirements

HARDWARE RECOMMENDATION:

Geutebrück Server compatibility
G-ST 700, G-ST 800, G-ST 500+, G-St 500+G3, G-ST 2000+, G-ST 3000+, G-ST 3000+ G2, G-ST 3000+ G3,
G-ST 6000+, G-ST 6000+ G2, G-ST 6000+ G3, G-ST 8000+, G-ST 8000+ G3

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 G-View 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 2.5 Ghz	Intel® UHD Graphics 600	31.0.101.2115

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ONVIF S Profile and T Profile Features

Geutebrück supports the following features of the Onvif S Profile (Client) and the Onvif T Profile (Client) :

Features		S	T
General		**S**	**T**
System Settings		C	C
User Authentication	WS-Username Token	M	
	Digest Authentication	M	M
User Handling		C	C
Query Services and Capabilities		M	M
Device Discovery		C	M
Network Configuration		C	M
Zero configuration		C	
IP Address Filtering		C	
NTP		C	C
Media Profile Configuration		C	C
Media Transport	(1) RTP/UDP	M	M
	(1) RTP/RTSP/HTTP/TCP	M	M
	RTP/RTSP/HTTPS/TCP	M	C
	RTP/UDP Multicast	C	C
Video			
Video Streaming	MJPEG	M	
	MPEG4	C	
	H.264	C	M
	H.265		M
Video Encoder Configuration		M	M
Video Source Configuration		C	C
Media Profile Streaming Ready out of the box		C	M
Video Streaming	RTSP/RTP	M	M
Imaging Settings			M

Features		S	T
Events		**S**	**T**
Event Handling	Pull-point	M	M
	Base-notification	M	
Motion Alarm Events			M
Tampering Event			M
Audio			
Audio Streaming	G.711	C	C
	AAC	C	C
	G726	C	C
Audio Encoder Configuration		C	C
PTZ			
PTZ Move	Absolute	C	M
	Continuous	C	M
	Relative	C	
PTZ Presets		C	C
PTZ – Home Position		C	C
PTZ Configuration		C	C
Additional			
Relay Outputs		C	C
Auxiliary commands		C	C
Focus Control			C
Digital Inputs			C
Metadata Configuration		C	C
Metadata Streaming			C

(1) Client must support at least one of UDP and HTTP.
Function List use the following abbreviations:
M: Mandatory
C: Conditional

▮ = Feature is supported.

▮ = Feature is not supported.

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