

GEUTEBRÜCK

G-Core

Software Version 5.1.1

Release Notes

GEUTEBRÜCK

Dear business partners,

In the course of an update from G-Core to non-Geutebrück hardware, we would like to point out that the following information must be observed and checked!

For regular Windows 10 installations Intel® has changed the driver model to so-called DCH drivers. These are distributed via the Windows Update and are no longer compatible with the Intel® drivers previously used, so-called legacy drivers. The installation of a DCH driver is not reversible.

The new DCH drivers are used with the following Windows versions:

- Windows 10 1709
- Windows 10 1803
- Windows 10 1809
- Windows Server 2019

If a driver with **version 25.20.100.6444** or newer is installed on one of these systems, it is most likely a DCH driver. The exact version can be checked on the Intel® [homepage](#).

The Geutebrück G-Core Installer contains drivers that are installed on all HW platforms known to us. However, these are legacy drivers. If a legacy driver is installed on a system with new drivers, this can cause lasting damage to your system.

Installations that use Geutebrück hardware or a Geutebrück system image are not affected, as Geutebrück uses a Windows Embedded version (Windows 10 1607). This version does not support the Intel® DCH drivers, so the legacy drivers included in the installation can still be used without restrictions.

Why do Geutebrück install drivers?

Specially tested drivers are installed by us to ensure maximum operational reliability and performance on platforms known to us.

How do I proceed with the installation?

Geutebrück has adapted the G-Core installation to the extent that it checks whether Windows 10 1709/1803 or 1809 are installed on the system and warns the user accordingly, the installation of the Intel® drivers is automatically deselected.

In this case our software will use the already installed new DCH driver. Of course the GPU acceleration is also available with the DCH drivers. If you notice any abnormalities or are unsure about the performance, please contact our service department.

If necessary, the driver version must be checked manually to see if a legacy driver is installed. Only then may the legacy driver be downgraded by the Geutebrück installer by selecting the driver package in the installer.

What do I have to consider after installing with DCH drivers?

As a general rule, if G-Core software is run on your own hardware and Windows installations, you must check how performance and memory consumption are represented and change when Windows updates are performed.

This applies to all Geutebrück products that use GPU Intel® acceleration.

Further information about the drivers can be found on the following page:

<https://www.intel.com/content/www/us/en/support/articles/000031275/graphics-drivers.html>

If you have any questions, the Geutebrück team is at your disposal via the hotline or service@geutebrueck.com.

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Software	Type	Short Description	Detailled Description
Improvement	G-Tect	AI Result Action	The action was extended by the parameters ObjectClass and Detection Mode. This information will be used in upcoming G-SIM releases for the display in the OpCon as well as for the process data search.
Bugfix	Modbus Plugin	Modbus I/O module without output contact is not connecting	There was an edge case when the hardware I/O module does not have any physical outputs, the Modbus I/O Plugin can't connect properly. This bug was fixed and the connection is now stable during the usage of an hardware I/O module without physical outputs.
Bugfix	SAM	Dongle cache mode improvmenets	Sometimes the cached dongle showed up even the normal dongle was available. This led to the display of two dongles.
Bugfix	SAM	Softdongle improvement	The softdongle binding criteria for virtual environments have been improved.
Bugfix	G-View	G-View UI	Some input fields in the backup dialoag (e.g. bandwidth limit) could not be filled in.
Bugfix	SAM	Remote-Dongle-Mode	The connection between the local and remote SAM has been improved. The problem that the database license was not found in cache mode is now solved.
Bugfix	Server	Autobackup	The Auto-Backup function is now fully functional again
Bugfix	Installer	Installer improvements	<p>The installer was further revised. It is now no longer possible to select multiple features by clicking on the group header. Please select individually which features are required.</p> <p>The DiDo plugin is now part of the typical installation again. The drivers needs to be manually add to the windows system32 folder.</p>

G-Core 5.1 System Requirements

SOFTWARE REQUIREMENTS

- Windows 10 LTSB (1607), (1809), Windows Server 2016, Windows Server 2019
- Microsoft SQL Server 2014, Microsoft SQL Server 2014 Express
(Microsoft SQL Server Express supports 1 physical processor, 1 GB memory, and 10 GB storage)
- Microsoft .NET Framework 3.5 & Microsoft .NET Framework 4.6.1
- Intel graphics card driver (only for hardware decoding)
- Client:
No SQL server necessary

HARDWARE REQUIREMENTS

- Intel GPU Driver Recommendation (Geutebrück Partner Portal):
<https://support.geutebrueck.com/search/detail/intel-gpu-driver-recommendation.html>

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version	Graphic Driver Version
4th generation Intel® Core™ i3, i5, i7 Processors	Haswell	Core i3-4330 Processor 3.5Ghz Core i5-4570S Processor 2.9Ghz Core i7-4770S Processor 3.1Ghz	Intel® HD Graphics 4600	15.36.28.4332 (Win 8.1 + D3222-B1)	20.19.15.4377 (Win 10 1607 + D3222-B1)
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	21.20.16.4639 (Win 8.1 + D3402-B2)	
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	21.20.16.4678 (Win 10 1607 + D3402-B2)	26.20.100.7263 (Win 10 1809 + D3402-B2)
8th Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630		
Intel® Celeron® Processor J Series	Gemini Lake	Intel Celeron J4105 2.5Ghz	Intel® UHD Graphics 600	25.20.100.6326 (Win 10 1607 + D3543-S2)	
Intel® Xeon® Processor E3 v6 Family	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	21.20.16.4678 (Win Serv 2016 + D3446-S2)	

- RAM: min. 8GB
- Storage for video:
minimal: 50 GB, recommended at least 1 TB
- Storage for installation:
minimal 50 GB, recommended: 128 GB
- Network interface: min. 1 Gbit/s
- SDK:
Same requirement as the client

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

Features			
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			
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.

Technical alterations reserved.

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