

Release note GCap V2.5.4.2



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Chapter 1

Presentation of GCap version 2.5.4.2

This release note describes:

- New features
 - Improvements and other characteristics
 - The patches
 - The known issues
 - The software compatibility
 - The hardware compatibility
 - The update procedure
-

Chapter 2

The new features

2.1 Sigflow detection engine

2.1.1 Engine update

The Sigflow engine was updated.

This update includes security fixes for critical vulnerabilities published recently.

2.1.2 Event filtering for the SMB protocol

It is possible to filter the events of the SMB protocol according to the operations performed through it.

2.1.3 100 Mbps support for capture interfaces

100 Mbps is supported for the capture interfaces used by the detection engine.

2.2 Installation

2.2.1 Storage prerequisites

It is possible to install a GCap probe on a 100 GB partition.

2.2.2 UEFI support

UEFI support has been improved.

Chapter 3

Other features and improvements

Section left empty intentionally

Chapter 4

Patches

4.1 Error during the first restart following an update to v2.5.4.0

In some cases, following the update to v2.5.4.0, a problem may occur during the first restart
This problem is fixed in v2.5.4.1.

4.2 Blocking of the update in v2.5.4.0

If the /boot is full, the GCap update might get stuck.
This problem is fixed in v2.5.4.1.

4.3 After the update, error in executing commands with certain hardware versions

Some commands are non-functional for certain hardware versions following an update to 2.5.4.0.
This problem is fixed in v2.5.4.1.

4.4 Sigflow: error when starting the detection engine

On some GCap models, the detection engine does not start if more than two capture interfaces are enabled.
This problem is fixed in v2.5.4.1.

4.5 Sigflow: XDP filters do not apply correctly

In some cases, the XDP filters do not apply correctly.
This problem is fixed in v2.5.4.1.

4.6 Sigflow: receiving specific packets from the Modbus protocol may cause a restart of the engine

When activating the Modbus protocol, receiving a specific packet can cause the engine to restart
This problem is fixed in v2.5.4.1.

4.7 Netdata: absence of certain metrics

Some metrics are no longer retrieved by Netdata in version 2.5.4.0.
This problem is fixed in v2.5.4.1.

4.8 Sigflow: error when starting the detection engine

In some cases, the Sigflow detection engine does not start correctly when the system is initialized.
This problem is fixed in v2.5.4.2.

4.9 Netdata: erroneous value

In some cases, Netdata returns an erroneous value for the status of the detection engine.
This problem is fixed in v2.5.4.2.

4.10 System: Inadequate performance settings

Some system settings are not optimized for performance.
This problem is fixed in v2.5.4.2.

4.11 System: unable to install

In some cases, access to the WebUI is not possible.
This problem is fixed in v2.5.4.2.

4.12 Sigflow: Problem with cluster interfaces

When using cluster interface, a large drop of packets could occur.
This problem is fixed in v2.5.4.2.

4.13 Sigflow: memory allocation issue for some streams

Memory allocation for some streams is not optimized.
This problem is fixed in v2.5.4.2.

4.14 System: GCap storage space is running out

When analyzing a large amount of streaming streams, the GCap's storage space can become saturated.
This problem is fixed in v2.5.4.2.

4.15 System: CPU distribution

For some GCap models, the CPU distribution is not optimal.
This problem is fixed in v2.5.4.2.

4.16 System: default selection in the boot menu

Following a GCap update, it is possible to inadvertently select the entry that triggers a failback.
This problem is fixed in v2.5.4.2.

4.17 Sigflow: options for debugging

Some options for system debugging are enabled by default.
This problem is fixed in v2.5.4.2.

4.18 Update: problem on restart

A problem may occur when restarting the system after an update.
This problem is fixed in v2.5.4.2.

Chapter 5

Known problems and limitations

5.1 Netdata: badges for network statistics

In compatibility mode **2.5.3.102**, Netdata statistics in the following menu **Admin > GCaps Pairing/Status**, are no longer available.

5.2 Sigflow: rebuilding files with FTP protocol

Rebuilding files is not operational with FTP protocol.

Chapter 6

Software compatibility

6.1 Compatibility with the GCenter

GCap version	GCenter version	Compatibility
2.5.4.2	2.5.3.102 HF3	Configuration ok
2.5.4.2	2.5.3.103 HFx	Configuration ok (recommended)

Chapter 7

Hardware compatibility

The version 2.5.4.2 is compatible with all hardware versions of GCap.

GCap reference	Local storage	PORTS CAPTURE	OF	EXTENSION OF CAP- TURE PORTS	Power supply
GCAP1010HWr2	256GB	4 x RJ45		N/A	2 x 750W
GCAP1020HWr2	256GB	4 x RJ45		N/A	2 x 750W
GCAP1050HWr2	256GB	4 x RJ45		N/A	2 x 750W
GCAP1100HWr2	2 x 600GB RAID1	1 x SFP		N/A	2 x 750W
GCAP1200HWr2	2 x 600GB RAID1	2 x SFP		N/A	2 x 750W
GCAP1400HWr2	2 x 600GB RAID1	4 x SFP		N/A	2 x 750W
GCAP2200HWr2	4 x 600GB RAID5	4 x SFP		4 x SFP	2 x 750W
GCAP2600HWr2	4 x 600GB RAID5	4 x SFP		4 x SFP	2 x 750W
GCAP2800HWr2	4 x 600GB RAID5	4 x SFP		4 x SFP	2 x 750W
GCAP5400HWr2	8 x 600GB RAID5	4 x SFP+		4 x SFP+	2 x 1100W
GCAP5600HWr2	8 x 600GB RAID5	4 x SFP+		4 x SFP+	2 x 1100W
GCAP5800HWr2	8 x 600GB RAID5	4 x SFP+		4 x SFP+	2 x 1100W

Chapter 8

Updating procedure

8.1 Prerequisites

To deploy the GCap V2.5.4.2 update from the GCenter GUI, the GCenter must be in the installed **V2.5.3.102-HF3** version. If the GCenter is in a previous version, it will need to be updated.

The GCap must be in the installed **V2.5.3.106, V2.5.3.107, V2.5.3.109, V2.5.4.0, V2.5.4.1** version.

If you have any questions about these items, please contact the Gatewatcher Technical Support.

Important:

It is mandatory to have an iDRAC connection so that you can connect post-upgrade if a problem occurs during the process. Otherwise, physical access to the equipment (screen, keyboard) will be required.

8.2 Retained data

The following data and configurations are retained:

- The GCenter pairing
- The network configuration
- The SSH key of the root account
- The password of the root account
- The log files
- The pcap files in the /data/pcaps/ or /data/cache/pcaps directory

8.3 Data deleted

Important:

The following data will be deleted if your GCap is in version V2.5.3.X:

- Local rules for Sigflow (local-rules)
- Local XDP filters

Please postpone the configuration of these filters at GCenter level using the **GCap Profiles > Packet filters** menu

8.4 Installation procedure via the GCenter

On GCenter:

1. From the platform <https://update.gatewatcher.com/upgrade/> (directory 2.5.4.2/gcap/), download:
 - The gwp file of the new version available

- The associated sha256 gwp.sha256 file

Important:

Two GCenter versions are available:

- If the GCenter is in V2.5.3.102 and the GCap is in V2.5.3.X, use the following package: https://update.gatewatcher.com/upgrade/2.5.4.2/gcap/gcap-bios_2.2.4.2-gcenter_v2.5.3.102.gwp
- If the GCenter is in V2.5.3.102 and the GCap in version 2.5.4.0, it is necessary to first update the GCenter to V2.5.3.103
- If the GCenter is in V2.5.3.103, use the following package: https://update.gatewatcher.com/upgrade/2.5.4.2/gcap/gcap-bios_2.2.4.2.gwp for the BIOS version or https://update.gatewatcher.com/upgrade/2.5.4.2/gcap/gcap-uefi_2.5.4.2.gwp for the UEFI version (new generation 16 hardware)

2. Check the image (sha256sum command) and check the value obtained with the contents of the gwp.sha256 file
3. Log on to the GCenter WebUI via a web browser and go to the **Administration-Updates / Software Update** menu.
4. Upload the GCap package.
 - A progress bar is displayed.
 - If you encounter a problem, try another browser.

On GCap:

1. Open a terminal and log into SSH on GCap with the **setup** account.
2. Stop the monitoring-engine with the command **monitoring-engine stop** (GCAP-CLI) and wait for the files to be processed.

Important:

If GCap is under load, please wait before performing upgrade.

Check on the GCenter WebUI in **Hunting > Network Metadata** that there is no more data.

If you have any questions about these items, please contact the Gatewatcher Technical Support.

3. Use the command **system upgrade list** (GCAP-CLI) to get the package list from the GCenter.
4. Use the command **system upgrade apply '[image_name]' confirm** (GCAP-CLI).
 - GCap restarts automatically
 - SSH session is down
5. Once the GCap has restarted twice, log in to SSH with the **setup** account to verify that the update was successfully applied.
6. Check the current version with the **show status** command (GCAP-CLI).
7. Start the monitoring-engine with the command **monitoring-engine start** (GCAP-CLI).

In case of problem, please contact Gatewatcher Technical Support.

8.5 Installation procedure directly from the GCap

1. Download the newly available version and the associated sha256 on the <https://update.gatewatcher.com/upgrade/> platform (directory 2.5.4.2/gcap/).
2. Check the image (sha256sum command) and check the value obtained with the contents of the gwp.sha256 file.
3. Copy the image (.gwp) to the /data/ directory of the GCap using a privileged account.
4. Open a terminal and log into SSH on GCap with the **setup** account.
5. Stop the monitoring engine with the **monitoring-engine stop** command (GCAP-CLI).

Important:

If GCap is under load, please wait before performing upgrade.

Check on the GCenter WebUI in **Hunting > Network Metadata** that there is no more data.

If you have any questions about these items, please contact the Gatewatcher Technical Support.

6. Open a terminal and log in via SSH on the GCap with a privileged account.
7. Start the upgrade with the command **gcap-upgrade/data/file_name** (SHELL).
8. Restart the GCap with the **system restart** command (GCAP-CLI).
SSH session is down.
9. Once the GCap has restarted twice, log in to SSH with the **setup** account to verify that the update was successfully applied.
10. Check the current version with the **show status** command (GCAP-CLI).
11. Start the monitoring engine with the **monitoring-engine start** command (GCAP-CLI).

In case of problem, please contact Gatewatcher Technical Support.