

# Release Notes

# LCOS SX

## 4.30 RU4

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## 1. Preface

The LANCOM family of operating systems—LCOS, LCOS SX, LCOS LX, and LCOS FX—forms the trusted basis for the entire LANCOM range of products. Within the scope of the hardware specified by the products, the latest firmware version is available for all LANCOM products and is offered by LANCOM Systems for download free of charge.

**LCOS SX 4.30** is the operating system for all LANCOM switches of the GS-3200, GS-3600, and XS-3500 series, as well as for the GS-3510XP, GS-3528XP, GS-3126X, GS-3126XP, and IGS-3510XUP switches.

The following LCOS SX operating systems are also available for other LANCOM switches:

**LCOS SX 5.xx** is the operating system for all LANCOM switches of the GS-4500 and XS-5100 series, as well as for the XS-6128QF, YS-7154CF, and CS-8132F switches.

**LCOS SX 4.00** is the operating system for all LANCOM switches of the GS-3152 series.

**LCOS SX 3.34** is the operating system for all LANCOM switches of the GS-1300 / GS-2300 series.

The release notes for these device series can be found as usual on the LANCOM website in the download area of the respective switch.

This document describes the new features of the LCOS SX software release 4.30 RU4 as well as the changes and improvements to the previous version.

Before upgrading your device to a new firmware it is essential to **backup your device's configuration**.

Due to extensive features it is **not possible to downgrade** to a previous firmware without using the backup configuration.

Please note that different firmware files might be available for your device.

## 2. The release tag in the software name

### **Release Candidate (RC)**

A Release Candidate has been extensively tested by LANCOM and includes new LCOS features. It is suitable for testing and is not recommended for use in productive environments.

### **Release Version (REL)**

The release version has been extensively and successfully tested in practice. It contains new features and improvements over previous LANCOM operating system versions and is therefore recommended for use in productive environments.

### **Release Update (RU)**

A release update is a further development of an initial release version in productive environments and contains minor improvements, security fixes, bug fixes and smaller features.

### **Security Update (SU)**

Contains important security fixes for the respective LANCOM operating system version and ensures that your security level remains very high on an ongoing basis in your productive environment.

### 3. New features, improvements, and history

#### LCOS SX 4.30.0147 RU4

**For LANCOM GS-3200 / GS-3600 / XS-3500 series, GS-3126X, GS-3126XP, GS-3510XP, GS-3528X, GS-3528XP, IGS-3510XUP**

##### **New features**

- Integration of the new LANCOM XS-3500 series
- The LMC autoupdater is now supported.
- The limit of 4 active SSH sessions has been increased to 8.
- SNMPv3 configuration is now also possible via LMC.

##### **Bug fixes**

- The LANCOM GS-3652XP/XUP switches displayed the wrong color for 10 Gbps connections on the ports (green instead of blue).
- It could happen that an SSH session was aborted and closed abruptly after long command line outputs (e.g. after the command 'show tech-support').
- If large amounts of data were transferred via an LMC WEBconfig tunnel (e.g. download of 'Tech Support' log data), an endless loop could occur in the LMC client of the switch, causing the LMC WEBconfig tunnel to abort.
- It could happen that a connection with a DAC cable (10 Gbps) between a LANCOM Unified Firewall UF-360 and a LANCOM GS-3652XP was very slow in one direction (approx. 1-10 Mbps). The behavior only occurred with the DAC-10-3M or DAC-10-1M cable on SPF+ ports.
- After updating a LANCOM GS-3126XP or GS-3528XP from LCOS SX 4.00 to LCOS SX 4.30, PoE was not initialized correctly. As a result, the message "budget exceeded" was displayed in the web interface when a PoE device was connected, and the power supply via PoE did not work.
- On LANCOM switches with PoE according to 802.3bt (e.g. GS-3628XUP) the detection of devices via LLDP-MED did not work.
- In a certain batch of LANCOM GS-3628X switches, the compatibility with network cards with Intel i219 chipset was limited due to a firmware error in the installed chipset of the 2.5 Gbps ports. This could result in the negotiation of corresponding end devices on the 2.5 Gbps ports taking a very long time or only being achieved at 100 Mbps. Furthermore, it could happen that the negotiation did not take place at all and therefore no connection was possible.

- When trying to activate TACACS+ authorization and / or accounting via the web interface in the 'Security / Management / Auth Method' menu, only the error message "Authorization Error - Invalid agent method" was displayed and the function(s) were not activated.
- When updating the firmware of a LANCOM GS-3126X from LCOS SX 4.00 to LCOS SX 4.30, the logic of the fan controller was not adopted. As a result, the fan was permanently running at a speed of over 6000 rpm after the update.

**LCOS SX 4.30.0075 RU3**

**For LANCOM GS-3200 / GS-3600 series, GS-3126X, GS-3126XP, GS-3510XP, GS-3528X, GS-3528XP, IGS-3510XUP**

**Bug fixes**

- If loop protection was deactivated on a switch port (setting 'no loop protect') and the status value for the loop protection on this port was queried via SNMP, this led to an immediate restart of the device.
- With LLDP activated and an existing LLDP neighbor, entering the command "show lldp neighbors" resulted in an incomprehensible output. If a static route was configured on the switch, entering the command "show lldp neighbors" led to an immediate restart of the device.
- If the LMC was temporarily unavailable (e.g. due to maintenance), switches managed by the LMC could be restarted immediately.

**LCOS SX 4.30.0073 RU2****For LANCOM IGS-3510XUP****Bug fixes**

- If an SFP module was plugged into an SFP port of an IGS-3510XUP during the boot process, ports 7 (with SFP module in port 9) or 8 (with SFP module in port 10) could not be initialized properly and were therefore without function.

**LCOS SX 4.30.0071 RU1****For LANCOM GS-3200 / GS-3600 series, GS-3126X, GS-3126XP, GS-3510XP, GS-3528X, GS-3528XP, IGS-3510XUP****Bug fixes**

- If a network device on a switch with several VLANs and active routing was assigned an IP address that did not belong to the VLAN in which the device was located, this device was able to communicate with devices in other VLANs.
- If a 10 GBit SFP+ module was operated in a LANCOM GS-3510XP in port 9, a link was no longer established after an upgrade to LCOS SX 4.30 Rel.
- After updating to LCOS SX 4.30 Rel, PoE no longer worked. In the web interface, the message "budget exceeded" was displayed for the ports in the 'PoE management / PoE status' menu.

## LCOS SX 4.30.0071 Rel

### For LANCOM GS-3200 / GS-3600 series, GS-3126X, GS-3126XP, GS-3510XP, GS-3528X, GS-3528XP

Please note the following information if a later firmware downgrade from LCOS SX 4.30 REL to LCOS SX 4.00 is performed (only applies to LANCOM switches GS-3200 / GS-3600 series, GS-3126X, GS-3126XP, GS-3510XP, GS-3528X, GS-3528XP):

- A downgrade only works if LCOS SX 4.00 is still in the backup slot of the device. A later downgrade by uploading an LCOS SX 4.00 is no longer possible.
- All users created on LCOS SX 4.30 will be deleted and the admin password, if changed, will be reset to the default value.
- SNMPv1/v2c traps that use the 'Security name' are lost.
- If the configuration is persisted in LCOS SX 4.30, the 'System description' is lost after a downgrade.

#### New features

- OS harmonization of LANCOM GS-3126X, GS-3126XP, GS-3528X, GS-3528XP and GS-3510XP
- Support for the new LANCOM IGS-3510XUP
- The 802.1X reauth period has been increased from 3600 seconds (1h) to 28800 seconds (8h).
- Syslog messages can now be sent either via TCP or UDP.

#### Bug fixes

- If a switch lost the connection to the LMC (message "The device ... has lost its connection to the cloud.") and then reconnected to the LMC (message "The device ... is connected to the cloud."), the message "The device ... has reported a boot process." was always displayed in the LMC, even if the device was not restarted.
- If a network device with a port speed of 1 Gbps was connected to a 2.5 Gbps switch port, recurring link loss (flapping) could occur.
- If authentication was performed on a switch port using 802.1X with EAP-TLS and 'Multi 802.1X' mode for two daisy-chained devices (such as a telephone and a computer connected to it) and the second device was disconnected from the network, the MAC address of the second device remained in the switch. This resulted in the switch performing a fallback authentication via MAC address for the device disconnected from the network (Dot1X MAB).



- When blocking all data traffic in a network via ACL, DHCP packets were not blocked.
- If the 2.5 Gbps ports of LMC-managed switch models LANCOM GS-3652X, GS-3652XP and GS-3652XUP were set from 'Auto' to a different value, this led to a rollout error.
- A security vulnerability in the SSH protocol has been fixed (Terrapin security vulnerability/CVE-2023-48795).

## 4. Common advice

### **Disclaimer**

LANCOM Systems GmbH does not take any guarantee and liability for software not developed, manufactured or distributed by LANCOM Systems GmbH, especially not for shareware and other extraneous software.

### **Support notes & known issues**

Latest support notes and known issues regarding the current LCOS SX version can be found in the download area of our website: [Common support tips](#)

