

Release Notes

LCOS 10.78 RU6

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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.

This document describes the innovations within LCOS software release 10.78 RU6, as well as the improvements since the previous version.

Before upgrading the firmware, please pay close attention to chapter 6 “General advice” of this document.

Latest support notes and known issues regarding the current LCOS version can be found in the support area of our website

www.lancom-systems.com/service-support/instant-help/common-support-tips

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 has been extensively and successfully tested in practice. It contains new features and improvements over previous LANCOM operating system versions. Recommended for use in productive environments.

Release Update (RU)

This is a further development of an initial release version and contains minor improvements, 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.

3. Device-specific compatibility to LCOS 10.78

LANCOM products regularly receive major firmware releases throughout their life-time which provide new features and bugfixes.

LCOS release updates including bugfixes and general improvements are available on a regular basis for devices which do not support the latest LCOS version. You can find an overview of the latest supported LCOS version for your device under www.lancom-systems.com/products/firmware/lifecycle-management/product-tables

4. Advices regarding LCOS 10.78

Information on default settings

Devices delivered with LCOS 10.00 or higher automatically connect to the LANCOM Management Cloud (LMC). This functionality provides zero-touch installation for new devices. In case you do not want to use the LMC, this feature can be disabled while running the default setup wizard for the initial configuration, or at any time from within LANconfig under Management > LMC. You can manually re-enable the usage of the LMC whenever you want.

Omission of VPN rules in the IPv4 firewall

As of LCOS 10.70, VPN rules for generating network relationships (SAs) are no longer supported in the IPv4 firewall and are replaced by the 'Network rules' configuration option in the VPN menu.

This mainly concerns scenarios with IKEv1 connections.

For more details see:

<https://support.lancom-systems.com/knowledge/pages/viewpage.action?pageId=85885727>

5. History LCOS 10.78

LCOS improvements 10.78.0160 RU6

New features

→ Support for LANCOM 1800VAW

Bug fixes / improvements

General

→ Cyclic redundancy check (CRC) errors occurred on the WAN port at high data rates.

→ At high data rates, packet loss could increase at the Ethernet ports.

LCOS improvements 10.78.0077 RU2

New features

- Support for LANCOM IAP-5G and LANCOM 750-5G

Bug fixes / improvements

General

- If multiple IP addresses were resolved in a DNS request from the LMC client, the device always used the 'smallest' IP address for communication via TCP instead of performing load balancing across multiple IP addresses. This behavior also affected other applications.
A random IP address is now always used.
- After running the WEBconfig setup wizard for Telekom CompanyFlex and SIP trunk lines, the wizard deactivated the interface 'Analog-2', although a phone number was stored for it.
- When forwarding to an external RADIUS server, the specified IP address was entered into the configuration in reverse order.

VoIP

- If analog or ISDN devices were connected to the router, the Voice Call Manager always sent the codecs PCMA (G.711-a) and PCMU (G.711-u) in the SDP offer as soon as one of the two codecs was included in the SDP offer. Now all codecs except PCMA and PCMU are deleted from the SDP-Offer and the first codec is taken over into the SDP-Answer. If PCMU is used, the Voice Call Manager transcodes this to PCMA, since ISDN and analog devices only support PCMA. If there is no SDP-Offer in the INVITE, the Voice Call Manager answers with PCMA and PCMU in the SDP-Answer.

6. General 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.

Backing up the current configuration

Before upgrading your LANCOM devices to a new LCOS version it is essential to backup the configuration data!

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

If you want to upgrade devices which are only accessible via router connections or Wi-Fi bridges, please keep in mind to upgrade the remote device first and the local device afterwards. Please see the [LCOS reference manual](#) for instructions on how to upgrade the firmware.

We strongly recommend updating productive systems in client environment only after internal tests. Despite intense internal and external quality assurance procedures possibly not all risks can be eliminated by LANCOM Systems.

Using converter firmwares to free up memory

Due to numerous new functions within the LCOS firmware it may not be possible in some circumstances for older devices to keep two fully-featured firmware versions at the same time in the device. To gain more free memory, a smaller firmware with less functionality has to be uploaded to the device first. As a result, significantly more memory will be available for a second firmware.

This installation has to be done only once by using a “converter firmware”.

After having installed the converter firmware, the firmsafe function of the LANCOM device is only available on a limited scale. The update to a new firmware is furthermore possible without any problems.

However, after a failed update the LANCOM device works with the converter firmware which only allows local device access. Any advanced functionality, particularly the remote administration, is not available as long as the converter firmware is active.