

Information regarding

LCOS Software Release 8.76 RU2

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01.02.2013, CBuersch

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1. Preface

LCOS („LANCOM Operating System“) is the operating system for all LANCOM routers, wireless LAN access points and WLAN controllers. In the context of the hardware given by the products the at a time latest LCOS version is available for all LANCOM products and is available free of charge for download from LANCOM Systems.

This document describes the innovations within LCOS software release 8.76 RU2, as well as the changes since release 8.50

Warning hints – Backing up the current configuration

Before upgrading your device to a new LCOS version it is **essential** to backup the configuration of your router. Due to extensive features it is **not possible to downgrade** to a previous firmware without using the backup configuration.

Please see the reference manual for instructions on how to backup the router configuration.

If you want to upgrade devices which are only accessible via router connections or WLAN bridges, please keep in mind to upgrade the remote device first and the local device afterwards.

Warning hint – LCOS upgrade for devices LANCOM OAP/IAP-321-(3G) and LANCOM 1780EW-3G

Some of the current LANCOM WLAN routers and access points with LCOS 8.5 or earlier, which are to receive new firmware or extensive new configurations over the wireless LAN interface may under certain circumstances suffer from WLAN connection loss. The result of this error is that the wireless link is interrupted and, in the worst case —such as with an outdoor point-to-point link— the device may lose contact completely. In this case, re-establishing the radio link would require a manual restart of the remote device by pressing the reset button. To prevent this we recommend configuring an [alive test](#) before uploading a new firmware.

Note – Upgrading central site components

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

Note – Using converter firmware

You will need enough free memory to use a firmware 6.0 and newer in your LANCOM 15x1, 1611+, 821+ and DSL/I-10+ and LCOS 8.0 in a LANCOM XAC or LANCOM 1823 VoIP.

Due to the implementation of several new features within the current build of the firmware, it is no longer possible to store two main firmware versions side by side. To gain more free space for the current version, it is now necessary to upload a converter firmware into your device. The converter-firmware has a much smaller size, so that it is now possible to store the main release of the firmware besides the converter-firmware.

This setup is only necessary once for a single device and is done with the so-called converter-firmware (see readme.pdf of the affected devices).

After having flashed the converter-firmware the firmsafe function of the LANCOM device is available only on a limited scale. The update to a newer firmware is furthermore possible. However, in case of an update failure the LANCOM will only work with a minimal-firmware which allows just local access to the device. Any extended functionality, in particular remote administration, is not possible when running the minimal-firmware.

Note – Dynamic VPN registration

By reason of patent you have to register the functionality „Dynamic VPN“ with IP address transmission over ISDN. This operating mode is usually required when you configure a VPN tunnel with dynamic IP addresses on both sides without dynamic DNS services.

Any other Dynamic VPN operation mode (e.g. transmitting the IP address via ICMP, provoking a callback etc.) does not require registration.

The registration process is fully anonymous - no personal or company data will be transmitted.

The registration of the Dynamic VPN option requires administrator rights on the LANCOM device.

Note – Using VoIP options

VoIP options for LANCOM 1821 Wireless ADSL are discontinued with LCOS 7.20. The final version containing the VoIP Call Manager is LCOS 6.32.

As from LCOS 7.5x support for VoIP options for the devices LANCOM 1511 Wireless DSL and 1521 Wireless ADSL is discontinued. The final version containing the VoIP Call Manager is LCOS 7.30.

For the „VoIP ready“ routers LANCOM 1711 VPN, 1721 VPN and 1811 Wireless DSL support for the subsequently installed VoIP option will be discontinued with LCOS version 7.56. If you want to continue using your VoIP option, please do only use LCOS versions up to and including 7.54.

For T-Systems Business LAN R800+ VoIP functionality is discontinued in LCOS 7.60

LCOS 7.70 is the final version supporting VoIP options for the remaining „VoIP ready“ devices.

Note – Device specific support of the current LCOS version

As from LCOS 8.50 support for the following devices is discontinued:

- LANCOM 1811 Wireless
- LANCOM 1721 VPN

For the following devices the additional, LANconfig-like WEBconfig view is removed as from LCOS 8.60:

- LANCOM L-310
- LANCOM L-305
- LANCOM L-54dual
- T-Systems Business LAN R800+

Please use instead either LANconfig or use the configuration view “LCOS Menu Tree” in WEBconfig

2. Known Issues

Latest support notes and known issues regarding the current LCOS version can be found in the download area of our website <http://www.lancom-systems.eu/Common-Support-Hints.64.0.html>

3. New Features, Changes and History

LCOS changes 8.76.0042 RU1 ► 8.76.0052 RU2

Bugfixes / Changes:

WLAN:

- 3- and 4-address-frames are no longer transferred mixed in one aggregate in send direction, so that incoming WLAN packets will be answered always if frame aggregation is enabled
- An access-point can still be managed by a WLC when using a 100 MBit connection between AP and WLC (better analysis of the roundtrip time)

Network Connectivity:

- The answer to an SNMP GET request now always includes the correct SNMP-OID

LCOS changes 8.76.0033 Release ► 8.76.0042 RU1

Bugfixes / Changes:

WLAN:

- Adjustments in WMM Powersave
- No more WLAN performance problems due to aggregation errors on a LANCOM L-45x

WEBconfig:

- The Internet Wizard of the WEBconfig does not abort in certain conditions when choosing IPv6

4. Comments

If you want to upgrade the firmware of your device to a new version, please install the latest LCMS version first. **Before running the firmware-upload you should save the router configuration to a file.** After that you can use LANconfig to load the latest LCOS-version into the device.

In principle, we suggest upgrading the firmware of your device only if you are in need of the latest features.

Please note that different firmware files might be available for your device. Further information can be found in the file README.PDF in the download area of our homepage.