

Release Notes

LCOS FX 10.10 Rel

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1. Preface

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

This document describes the innovations within software release LCOS FX 10.10 Rel.

2. The release tag in the software name

Release Candidate (RC)

A Release Candidate has been extensively tested by LANCOS 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 LANCOS 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 LANCOS operating system version and ensures that your security level remains very high on an ongoing basis.

3. Supported hardware

Version 10.10 Rel supports the following hardware appliances:

- LANCOM R&S®Unified Firewalls
 - UF-50/60/60 LTE/T-60/100/160/200/260/300/360/500/760/900/910
- R&S®UF-50/100/200/300/500/800/900/1000/1200/2000
- R&S®UF-T10
- R&S®UTM+100/200/300/500/800/1000/2000/2500/5000
- R&S®NP+200/500/800/1000/2000/2500/5000
- R&S®GP-U 50/100/200/300/400/500
- R&S®GP-E 800/900/1000/1100/1200
- R&S®GP-S 1600/1700/1800/1900/2000
- R&S®GP-T 10

Version 10.10 Rel supports the following virtual appliances:

- LANCOM vFirewall S, M, L, XL
- R&S®UVF-200/300/500/900

Version 10.10 Rel supports the following hypervisors:

- VMware ESXi
- Microsoft Hyper-V
- Oracle VirtualBox
- KVM

4. History LCOS FX

LCOS FX improvements 10.10 Rel

Improvements

- The reverse proxy enables direct forwarding from HTTP to HTTPS.
- The VPN groups on the desktop allow you to specify individual networks with IPsec.

Bugfixes

- In the 'Traffic Groups' menu belonging to Traffic Shaping, there were predefined entries with incorrect values. There are now no more predefined 'Traffic Groups'.
- When IDS/IPS was used, if a 'Top Level Domain' (TLD) stored there was blocked (e.g. .biz or .cloud), the IPS blocked subsequent DNS queries to TLDs that were not blocked.
- The 'Blocked paths' in the reverse proxy were case sensitive, so the stored path was only considered if it was case sensitive.
- If a parameter was specified incorrectly in an LMC addin, the rollback of the configuration did not work correctly.
- VoIP data sent from Microsoft Teams could not be correctly detected by the firewall's application filter.
- If an LDAP user with the spelling 'firstname.lastname' was synchronized with the firewall, but the spelling 'Firstname.Lastname' was stored in the content filter settings for creating exception codes, the user could not create exception codes.
- When using LCOS FX version 10.9 RU3 it could happen that user-defined services were no longer available after an unspecified time and instead only a UUID was displayed.
- After a restart of the Unified Firewall it could happen that the DNS load balancer (dnsmgr) could not establish a connection to the DNS servers for some time. As a result, DNS resolution was not possible during this period.
- It could happen that the automatic restore was performed despite admin login.
- If the Unified Firewall was operated in HA mode, a so-called 'split brain' (undesirable state of a computer cluster) could occur after a recovery.

LCOS FX improvements 10.10 RC2

New features

→ BGP support for IPSec connections

By supporting BGP on active IPSec connections, you benefit from better load balancing and resilience. For this purpose, routes are announced only on active VPN tunnels.

More features & improvements

→ Notification emails without event can now be turned off.

Bugfixes

→ If an add-in with incorrect parameters was rolled out on a Unified Firewall managed by the LANCOM Management Cloud, the configuration could not be rolled out afterwards, which was correct. If the add-in was subsequently removed, a rollout error still occurred when rolling out again.

→ It could happen that the network relationships (SA) were created multiple times for an IKEv2 connection.

→ When using Application Management with routing of Microsoft Teams traffic over a specific WAN connection, VoIP traffic was not detected correctly. As a result, it was not routed over the correct WAN connection.

LCOS FX improvements 10.10 RC1

New features

→ Add-in Generator

Quickly and easily multiply your ideal configuration from one Unified Firewall to any number of UFs managed by the LANCOM Management Cloud (LMC). Using the new Add-in Generator, you can easily generate entire add-ins or even individual add-in sections from the audit log of an initially configured Unified Firewall.

More features & improvements

→ Let's Encrypt for the reverse proxy

Now it is even easier to enable public access to internal (web) services such as Microsoft Exchange. The reverse proxy of the Unified Firewalls supports Let's Encrypt. This means that free and trusted certificates can be integrated and automatically be renewed via the Unified Firewalls in just a few simple steps.

→ Selection of the source connection for DNS servers

It is now possible to select, for example, a provider-specific DNS server per upstream in multi-WAN scenarios. DNS servers known via PPP as well as DHCP are now always automatically addressed via the appropriate line.

Bugfixes

→ Spam detection via blacklist did not work if the 'From' field in the e-mail header was encoded with UTF-8 by the sender.

Note

→ The user manual will be updated with the upcoming LCOS FX version.

5. Further information

- Backups of versions 9.6, 9.8 und 10.X are supported.
- Devices with less than 4 GB of RAM can not execute all UTM features simultaneously.

6. Known issues

- System- and audit protocols are not synced when operating in high availability mode.
- Some monitoring information is not yet available:
 - User login status
 - Network interfaces load

7. 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.