



AscenLink LinkOS V7.2.14 B7959

Release Notes



AscenLink Release Notes – LinkOS V7.2.14 B7959

July 15, 2016

Revision 1

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Introduction

Summary

This LinkOS firmware V7.2.14 B7959 is the thirteenth build for Fortinet AscenLink V7.2. The OpenSSL, NTP packages and system kernel are updated and patched for AscenLink to fix the security vulnerabilities. A new system parameter was added to CLI command `sysctl` to disable/enable Generic Receive Offload (GRO) for Tunnel Routing performance. The bugs of DNS Proxy and Multihoming were also fixed in this release. This document provides a list of resolved issues, upgrade procedures and support information for AscenLink LinkOS V7.2.14 B7959. Please review all sections of this document prior to upgrading your device.

Supported Models

LinkOS **V7.2.14 B7959** is the latest AscenLink firmware version released for AscenLink-700, AscenLink-5000 and AscenLink-6000.

Compatibility

LinkOS **V7.2.14 B7959** provides support and is compatible with all versions of LinkReport. AscenLink-6000 requires LinkOS V6.1, or higher.

Updated Features in V7.2.14 B7959

Mantis ID 373178

Performance of transmission in tunnel groups can be greatly enhanced (increased) by disabling Generic Receive Offload (GRO) mechanism on each of network interfaces receiving outgoing packets (the LAN ports and DMZ ports) on both the participating FortiWAN units. A new parameter *generic-receive-offload-port#* is added to CLI command *sysctl* to enable/disable the GRO module. For example, execute *sysctl generic-receive-offload-port5=0* to disable GRO on port 5, and *sysctl generic-receive-offload-port5=1* to enable it.

Mantis ID 378593

The parameter that CLI command *jframe* uses to set payload size of jumbo frames on a network interface was changed to *port#* from *eth#*. The port numbers are just as the numbers indicated on the AscenLink device panel.

Resolved Issues in V7.2.14 B7959

Mantis ID 371133

The OpenSSL employed in AscenLink was upgraded to version 1.0.1t to fix related security vulnerabilities.

Mantis ID 372301

With DNS Proxy and its domain name filter enabled, AscenLink might be crashed by malformed UDP 53 packets (contents of the packets could not be dissected by DNS Proxy).

Mantis ID 372658

A dot character was not acceptable to Alias and Target fields of Multihoming's CName records on Web UI. Besides, Multihoming would fail to respond to DNS queries if any resource record contained an underscore in Host Name, Name Server, Alias or Target fields. Both the issues resulted in inability and failure to create DNS records for DKIM signing.

Mantis ID 373193

DNS Proxy became not functioning every time after AscenLink booted up or rebooted. It had to reapply the DNS Proxy settings through Web UI (click the Apply button on Service > DNS Proxy) to recover the service.

Mantis ID 375298

AscenLink kernel was patched to fix security vulnerabilities CVE-2016-0723 and CVE-2016-2847.

Mantis ID 376628

The NTP package employed in AscenLink was upgraded to version 4.2.8p8 to fix related security vulnerabilities.

Firmware Upgrade Procedures

Upgrading Information

- Note that only versions later than V6.5 B4175 (V6.5 B4175 is included) are supported for upgrade to V7.2.14 B7959. To upgrade to V7.2 from V6.5 or V7.0, it requires an upgrade of V7.1 first (See “AscenLink V7.1 Firmware Upgrade Quick Guide”, which is available from FortiCare at <https://support.fortinet.com>). For V7.0 (B5338 and B5246), please update to V7.0 B5526 **first** before updating to V7.2.14 B7959.
- System with demonstration licenses cannot be upgraded to R7.1 and later. Please contact Fortinet at ascenlink@fortinet.com for information on updating these systems to NFR units.
- AscenLink’s firmware image and upgrade license key are available from FortiCare at <https://support.fortinet.com> once customer’s AscenLink Serial Number is registered. However, because of US Government export restrictions on Tunnel Routing technology, all registration to FortiCare for customers using V7.0 or V6.5 **MUST** be "ordered" via your distributor and Fortinet Order Management. Registrations for in-warranty systems will be at no charge, as usual, but Fortinet must have end-user visibility and update its databases in order to support AscenLink. The SKU for ordering a Registration is **AL-REGI-FC**. This is a one-time requirement. Future upgrades will be automatically available to in-warranty customers via the FortiCare website, without the need for additional ordering.

Upgrade procedure

Upgrade from V6.5, V7.0 B5526, V7.1 or V7.2.x

After registering to FortiCare, the License Key can be generated inside FortiCare (for in-warranty Serial Number).

Start the upgrade procedure as follow:

- **Always back up your system configurations and store in a safe place before upgrading (and downgrade).**
- Log on to AscenLink as Administrator and go to [System > Administrator] page.
- Click Update to start the upgrade procedure
 - Click Browse to select the path where the new firmware image is saved
 - Enter the Update Key you received from Fortinet
 - Select Upload.
- Be patient while firmware is being upgraded. During the upgrade, do not turn off the system, unplug the power or repeatedly click the Submit button.
- The message “Update succeeded” will appear after the upgrade is completed. Please reboot the system afterwards for the firmware to take effect.

Getting Help

For customer support of Fortinet's AscenLink products shipped, please contact your local Fortinet AscenLink channel partner or http://www.fortinet.com/support/contact_support.html. AscenLink system must be registered to FortiCare to receive support.

Patches and updates are regularly released for Fortinet's AscenLink products. For access, please register at <https://support.fortinet.com/> or contact ascenlink@fortinet.com.

