



Release Notes

Clavister CorePlus Version 9.10

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Table of Contents

1. Version Summary	4
2. New Features	4
2.1. New Features and Enhancements in CorePlus 9.10.00	4
3. Installation Instructions	5
3.1. Upgrading from a CorePlus 8.xx system	5
3.2. Upgrading a CorePlus 9.xx system	5
4. Known Limitations	6
5. Compatibility	6
6. Licensing	7
7. Getting Help	7

1. Version Summary

Clavister CorePlus 9.10 is our latest version of our award-winning network security operating system powering the Clavister Security Gateway Series, our premium UTM security solution. The Clavister CorePlus 9.10 release has a strong focus on improved traffic management/traffic optimization, including support for Gigabit traffic management, IDP Traffic Shaping, Route Load Balancing and SLB Server Monitoring.

Another key focus for this release is virtualization; Clavister CorePlus 9.10 supports virtualization using VMware ESXi 3. Customers will have the option of purchasing Clavister Security Gateways as either hardware appliances, software appliances or as virtual appliances. It is also possible to mix-and-match appliances to suite any configuration.

There are also a number of new features included in the Clavister CorePlus 9.10, such as SSL/TLS Termination and LDAP Authentication. The SIP/VoIP support has also been enhanced with a number of new functions and improvements.

For a list of appliances that are supported by this version of the Clavister CorePlus, please refer to the Compatibility section.



Important

The Clavister CorePlus version 9.10 is not compatible with Clavister FineTune.

If you need centralized management you must use an earlier version of Clavister CorePlus with Clavister FineTune support (e.g. version 8.xx).

2. New Features

The following sections detail new features and enhancements in Clavister CorePlus 9.10. For a complete list and description of all the features in Clavister CorePlus 9.10, refer to Clavister CorePlus Admin Guide 9.10.

2.1. New Features and Enhancements in CorePlus 9.10.00

Gigabit Traffic Shaping

The traffic shaping functionality is now more effectively utilized in Gigabit network environments, which enables you to configure your pipes at full speed.

IDP Traffic Shaping

IDP Traffic Shaping lets you control bandwidth allocation for a specific host or network based on the triggering of an IDP Event. This feature improves your overall security and decreases bandwidth starvation in your network.

Route Load Balancing

Route Load Balancing adds capability to use multiple internet connections simultaneous and balance traffic across multiple links, which improves your cost efficiency and increase your overall bandwidth.

SLB Server Monitoring

SLB Server Monitoring gives you monitoring control of external servers in your Server Load Balancing (SLB) setup. The SLB Server Monitoring is similar in concept to the Route Failover Host Monitoring. This means that you can easily determine the health of individual servers in a very sophisticated way, which will improve service availability and lowers latency.

VoIP/SIP Enhancements

A number of new and exciting features give you much more flexibility in terms of network setups; for example, you have full control over where to place your SIP proxy and support for SIP extensions.

SSL/TLS Termination

Clavister CorePlus 9.10 now supports TLS/SSL termination, which gives you the ability to transform HTTPS traffic into HTTP traffic thus providing the possibility to perform deep content inspection of the traffic. It also offers a single source for managing all certificates for all servers.

LDAP Authentication

The Clavister CorePlus 9.10 release provides support for direct connectivity with LDAP directory services which can be used for authentication. This release supports Microsoft Active Directory 2003, Microsoft Active Directory 2008 and OpenLDAP version 2.2.26.

Support for Virtualization Using VMware ESXi 3

One of the great new features in Clavister CorePlus 9.10 is the support for virtualization using VMware ESXi 3. This gives you the best possible flexibility to purchase, setup, configure and maintain you Clavister solution; you can use Clavister Secure Gateway as an appliance, as software only or as a virtualized image. The choice is yours.

3. Installation Instructions

3.1. Upgrading from a CorePlus 8.xx system

For a detailed instruction on how to upgrade from a CorePlus 8.xx version to CorePlus 9.xx please refer to Chapter 2 of the Admin Guide for CorePlus 9.10



Important

Only versions from and including CorePlus 8.60.01 upwards can be upgraded to CorePlus 9.xx.

3.2. Upgrading a CorePlus 9.xx system

This section describes how to upgrade the system using the Web-based administration user interface. For a detailed description on how to upgrade your system using SCP please refer to the Clavister CorePlus admin guide.

To upgrade Clavister CorePlus using the Web-based administration user interface, follow these simple steps:

- Browse to the Web-based administration user interface and log in as a user with full administrative rights.
- From the "Maintenance" menu select "Upgrade".
- Click the "Browse..." button and select the .upg file which contains the upgrade.
- Click the "Upload firmware image" button to upload the image and start the upgrade procedure.
- When the file is uploaded to the gateway you will be presented with a "Firmware upload complete." message and the system will restart.
- When the system is restarted you will be presented with the login screen and your system upgrade is completed.

4. Known Limitations

- **High Availability: Transparent Mode does not work in HA mode.** There is no state synchronization for Transparent Mode and there is no loop avoidance.
- **High Availability: No state synchronization for Application Layer Gateways.** No aspect of Application Layer Gateways are state synchronized. This means that all traffic handled by ALGs will freeze when the cluster fails over to the other peer. If, however, the cluster fails back over to the original peer within approximately half a minute, frozen sessions (and associated transfers) should begin working again. Note that such failover (and consequent fallback) occurs each time a new configuration is uploaded.
- **High Availability: Tunnels unreachable from inactive node.** The inactive node in an HA cluster cannot communicate over IPsec, PPTP, L2TP and GRE tunnels, as such tunnels are established to/from the active node.
 - Inactive HA member cannot send log events over tunnels.
 - Inactive HA member cannot be managed / monitored over tunnels.
 - OSPF: If the cluster members do not share a broadcast interface so that the inactive node can learn about OSPF state, OSPF failover over tunnels uses normal OSPF failover rather than accelerated (<1s) failover. This means 20-30 seconds with default settings, and 3-4 seconds with more aggressively tuned OSPF timings.
- **High Availability: No state synchronization for L2TP, PPTP and IPsec tunnels.** There is no state synchronization for L2TP, PPTP and IPsec tunnels. On failover, incoming clients will re-establish their tunnels after the tunnels are deemed non-functional. This timeout is typically in the 30 -- 120 seconds range.
- **High Availability: No state synchronization for IDP signature scan states.** No aspects of the IDP signature states are synchronized. This means that there is a small chance that the IDP engine causes false negatives during an HA failover.
- **High Availability: Synchronization with a gateway using Clavister CorePlus version 8.81.01 is not supported.** Due to an interoperability problem in the High Availability protocol, HA synchronization with version 8.81.01 of Clavister CorePlus is not supported, and will cause stability issues.
- **IPsec: Pure IPsec between Windows Vista and Clavister CorePlus is not supported.**
- **Clavister Virtual Security Gateway: CPU Counter disabled.** Please note that the CPU Counter is disabled when running in a virtual environment. For reliable CPU statistics, please refer to the VMware counters.

5. Compatibility

The following section outlines the direct compatibility considerations as of CorePlus 9.10.00.

The following hardware appliances are supported as of the Clavister CorePlus 9.10 release. Clavister does not guarantee compatibility with other hardware appliances.

- Clavister Security Gateway SG10 Series
- Clavister Security Gateway SG50 Series
- Clavister Security Gateway SG3100 Series

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- Clavister Security Gateway SG3200 Series
 - Clavister Security Gateway SG4200 Series
 - Clavister Security Gateway SG4400 Series

For software installations, please refer to the Hardware Compatibility List on the Clavister web site.

6. Licensing

Clavister CorePlus 9.10 requires that you have a software subscription covering **September 23, 2008**. Make sure that this is covered before trying to upgrade your system, otherwise the system will enter a "License Lockdown" mode.

7. Getting Help

Technical Assistance via Telephone or Email

We offer timely and rapid response to customer inquiries and service requests via telephone or email. Do not hesitate to contact us if you have any questions regarding the upgrade or installation procedure.

Clavister Technical Support
Phone: +46 (0)660-29 77 55
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