ACOS 7.0.1
New Features and Enhancements

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Enhancements in ACOS 7.0.1

This topic provides a brief overview of the new features and enhancements added in the ACOS 7.0.1 release:

For new features and enhancements prior to ACOS 7.x release, see the recent prior ACOS New Features and Enhancements.

The following topic is covered:

RHEL Platform Support

ACOS has upgraded its platform operating system from Community Enterprise Operating System (CentOS v7.9) to Red Hat Enterprise Linux (RHEL). This enhancement applies to both on-premises (Thunder) and cloud-based (vThunder and cThunder) deployments.

- **Enhanced Security and Compliance**: Offers robust security features and regulatory compliance capabilities. Built on the RHEL foundation, it ensures that your systems meet the latest industry standards.

- **Improved Stability and Support**: Provides higher reliability and access to the latest updates and patches for improved support and faster addressing of CVEs.

- **Future-Platform Support**: Sets the stage for compatibility with next-generation hardware, including:

  o Advanced Micro Devices (AMD) and Advanced RISC Machines (ARM).

  o NVIDIA ConnectX-7 400G network interface card support to enable high-throughput networking across BareMetal, KVM, and VMware platforms.

  o Intel's Data Plane Development Kit (DPDK) 23.11 Long Term Support (LTS) version to provide enhanced performance and extended support.

- **Artificial Intelligence (AI) Readiness**: Establishes a foundation for integrating Artificial Intelligence (AI) platforms in future ACOS releases.

Key Requirements and Support

System Requirements

- Mandates the following system requirements during boot-up system checks and upgrades:

  - Minimum 4 vCPUs

  - Minimum 16 GB memory (must be multiple of 2 GB per vCPU)

  - Minimum 128 GB of total disk space (for QCOW2, VHD, or OVA)

  - Shared poll mode is disabled

For more information, see Upgrade Guide.

License Requirement

Requires a valid Red Hat Support license for all new ACOS installations and upgrades to ACOS 7.0.1 and later versions. Separate licenses are available for Thunder and vThunder platforms.

For instructions on obtaining and installing a Red Hat Support license, see Global License Manager User Guide.

Platforms Supported

See Platform Compatibility Matrix.

vThunder Platform Compatibility

- vThunder compatibility support in cloud:

  - AWS

  - Azure (latest waagent version supported)

  - OCI

- vThunder compatibility support in on-prem:
  - RHEL KVM
  - VMware ESXi

Limitations

- Upgrade from ACOS 6.0.x to ACOS 7.0.x is not supported or recommended on cloud platforms. Use fresh image deployments only.
- Unified Extensible Firmware Interface (UEFI)–based Generation 2 (GEN2) virtual machines are not supported.
- Deployment on vThunder Hyper-V, OpenStack, and Google Cloud Platform (GCP) is not supported.

For more information, see the respective vThunder Installation Guide.

Thunder Container Compatibility

In ACOS 7.0.1, Openshift 4.16 is introduced for Thunder Container which provides the following scalability enhancements:

- Increases CPU core range from 0–127 to 0–1023.
- Increases maximum thread count from 96 to 256.
- Adds automatic detection of cgroupv2.

For more information, see cThunder Installation Guide.

Unsupported Features

In ACOS 7.0.1, Internal Thunder Observability Agent (iTOA) and External Thunder Observability Agent (TOA) is not supported.

Deprecated Features

As ACOS 7.0.1 sets the stage for compatibility with next-generation hardware, and foundation for future AI-based platforms, various legacy features have been deprecated and/or changed.

For more information, see Changes to Default Behavior.

New Platform Introduced

Introducing 6th Gen Modular Appliances - Thunder 7460S and 7460S-MAX:

- TH7460S: Designed for moderate SSL workloads.

- TH7460S-MAX: Optimized for high-performance SSL workloads.

Both platforms support ADC and CFW-ADC (SSLi + CAP (Cloud Access Proxy) + Firewall + ADC) use cases.

Additionally, the `system forced-group-speed` command is introduced specifically for these platforms. It configures fixed group speeds (1G, 10G, or 25G) on Ethernet ports 01–24, since these ports do not support auto speed detection.

CLI Configuration

To set the speed for a group of four ethernet ports (quads) simultaneously, use the following command:

```
ACOS(config)# system forced-group-speed <ethXX_to_ethYY> <1g | 10g |
25g>
```

See Also:

- [A10 Thunder Series TH7460S/7460-MAX Installation Reference Guide](#)

- [Platform Compatibility Matrix](#)

- [Global Licensing Manager](#)

- [System Configuration and Administration Guide](#)

- [Command Line Interface Reference](#)

- [Migrating Existing Thunder Platforms to Thunder Modular Platforms](#)

Enhanced ACOS GUI with TPS Integration

ACOS GUI has improved the user experience with the integration of Threat Protection System (TPS) functionality. As a part of this enhancement, a new **Detector** menu is introduced, that allows you to view the template configurations and other settings of the TPS device.

NOTE:

- The **Detector** menu is visible only after a valid TPS product license is installed.

- TPS template configurations and settings can be edited or deleted only using the CLI.

For more information, see *ACOS Online Help*.