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Release Notes for DASH CLI v9.0

July 2026

Introduction

This release note is applicable to DASH Command Line Interface (DASH CLI) and covers the new features added, tested configurations and important bugs that have been fixed.

Windows

- **System Requirements**

  Microsoft Windows 64 bit – Windows 11, Windows 10, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, Windows Server 2022.

- **Upgrading to New Software Release**

  Run the DASH CLI installer. Each version of DASH CLI will be installed in a separate location and will co-exist with earlier versions.

Ubuntu

- **System Requirements**

  Ubuntu 24.04 LTS amd64

- **Upgrading to New Software Release**

  Install the DASH CLI DEB package. DASH CLI will be installed under /usr/bin directory and overwrite the earlier version.

Fedora

- **System Requirements**

  Fedora 43 amd64

- **Upgrading to New Software Release**

  Install the DASH CLI RPM package. DASH CLI will be installed under /usr/bin directory and overwrite the earlier version.

Support Information

- **Web support**: www.amd.com/DASH for downloads and resources
- **Email**: Write to dashsupport@amd.com for any questions related to AMD Manageability solutions

New Features in DASH CLI v9.0

- Updated new profile attributes in Battery, Processor, Wi-Fi Port, Network Port profiles.

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- Added support for Power Scheduler Profile.
- Added support for AIM-T USB Redirection.
- Added support for Sprite Border in AIM-T 6.0
- Added support for Cert based Authentication.
- Adding three-point precision to some calculated and scaled attributes
    - Network Port
        - Speed
        - MaximumSpeed
        - RequestedSpeed
    - Ethernet Port
        - Speed
        - MaximumSpeed
        - RequestedSpeed
    - WiFi Port
        - Speed
        - MaximumSpeed
        - RequestedSpeed
    - Memory
        - TotalMemory
        - AvailableMemory
    - Physical Asset
        - MemoryCapacity
- CIM Schema upgraded to 2.56.0
- Following packages were updated (OpenSSL-3.5.6 LTS (EOL April 2030), curl-8.19.0, libssh2-1.11.1, Asio-1.30.2, Boost-1.90.0, jsoncpp-1.9.7, libxml2-v2.13.9).

Note:
DASH Auth support for DASH communication have to be configured using AMD Provisioning Console (APC).
For DASHCLI,

- Certificate Auth is ensured by passing authentication as cert (-a cert)
- This authentication currently relies on ADCS with template configured as per rule configured to a user login.
- APC will provide a JSON (certAuthConfig.json), that needs to be copied to config folder of DASH CLI in order to pick the APC configured certificate from ADCS.

New Features in DASH CLI v8.0

- Disk wipe support
- TCR and KVM stability enhancements
- Supports new command for OS recovery KVM.
- CIM Schema upgraded to 2.55.0

New Features in DASH CLI v7.0

- New enumeration profiles - acms, diskinfo

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New Features in DASH CLI v6.0

- Mutual TLS support.
- Support for user consent in AIM-T KVM.
- Following packages were updated (Curl-8.5.0).

Note:
Mutual TLS Certificates for DASH communication have to be generated using AMD Provisioning Console (APC).
For DASHCLI,

- MutualAuthCert.pem – This is a Mutual TLS certificate that has both certificate and private key. This file has to be copied to "C:\Program Files (x86)\ DASH CLI 6.0\certs" folder.

New Features in DASH CLI v5.0

- Support AIM-T 3.0 with new AMD KVM Viewer 1.0
- Following packages were updated (OpenSSL-3.1.0, Curl-8.1.0)

New Features in DASH CLI v4.5

- Support AIM-T 2.0
- Cloud Manageability
- KVM performance enhancements.

Note:
TLS Certificates for DASH HTTPS communication and KVM key for KVM feature have to be generated using AMD Provisioning Console (APC).
For DASHCLI,

- ConsoleRootCertificate.crt – This is a Root CA certificate for communicating with DASH system. Import this certificate into Windows Certificate store (via "Manage Computer Certificates" application)
- KVM SSH Key – This key is used for KVM session for AIM-T systems. This key has to be copied to "C:\Program Files (x86)\ DASH CLI 4.5\certs" folder.

New Features in DASH CLI v4.2

- HTTPS is made the default scheme for DASH commands with port 664
- Default port for listenevents command 8080 binds to HTTPS by default
- Added support for Wi-Fi port profile
- Added support for unown command (Supported only in AIM-T systems)

Note:

- Once unown command is run the system won't be accessible via DASH till it is provisioned.
- Unown command can be done only by a user with Administrator role.

New Features in DASH CLI v4.0

- Support for enumeration for the following DASH profile:

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    - Service Processor
- Added support for HTTPS discovery
- Added support for HTTPS Alert reception

New Features in DASH CLI v3.5

- Support for enumeration for the following DASH profiles:
    - SSH
    - Telnet
- Added support for Digest Authentication with SHA-256 algorithm and TLS 1.3
- Following packages were updated (OpenWSMan-2.7.0, sblim-sfcc-2.2.8, CIM Schema-2.54, OpenSSL-1.1.1i, Curl-7.74.0).

New Features in DASH CLI v3.0

- Improved security and application performance
- Support for enumeration for the following DASH profiles:
    - Indicator LED
    - IP Configuration
    - Media Redirection
    - PCI Device
    - Physical Computer System View
    - Platform Watchdog
    - Service Processor
- Support for 'Next Single Use Boot' configuration in Boot Control Profile

New Features in DASH CLI v2.5

- DASHConfigRT is packaged with DASH CLI to configure Realtek based DASH systems.
- Following packages were updated (OpenSSL-1.1.1d, CIM Schema-2.52, Putty-0.73).

New Features in DASH CLI v2.3

- Updated VNC Viewer used for KVM with security patch affecting the build libraries.
- Package Putty binary

New Features in DASH CLI v2.2

- Added 3rd party console enablement support, called developer mode, which takes request in JSON format and gives output in JSON in Redfish format. Following commands are enabled:
    - alertdestination
    - asset
    - bios
    - bootconfig
    - ethernetport
    - fan
    - filtercollection
- indicationfilter
- indicationsubscription

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- kvmredirection
- logentry
- memory
- networkport
- operatingsystem
    - powersupply
    - processor
    - recordlog
    - sensor
    - software
    - textredirection
    - usbredirection
- Updated previously implemented commands and all corresponding classes with a uniform input output class format in Developer Guide.
- Updated User Guide with Raw command and added Filter Collection command.
- Updated Putty code for AMDLink from version 0.69 to 0.71 to incorporate major security updates to Text Redirection and KVM Redirection features

New Features in DASH CLI v2.1

- Added 3rd party console enablement support, called developer mode, which takes request in JSON format and gives output in JSON in Redfish format. Following commands are enabled:
    - discover
    - computersystem
    - user
    - kvmredirection
- DASH CLI developer guide is packaged with setup (DASH CLI Developer Guide.pdf)
- Improved security and application performance.

New Features in DASH CLI v2.0

- KVM Redirection profile supported
- New commands:
    - ‘enumerate’ - Show all instances of KVM service
    - ‘show’ - Show information of an instance of KVM Service
    - ‘enable’ - Enable KVM redirection service
    - ‘disable’ - Disable KVM redirection service
    - ‘connect’ - Connect to running VNC server in KVM engine
    - ‘startkvm’ - Boot to BIOS workflow (enable the service, reboot and connect to VNC server)
- Network performance & application reliability enhancements.

New Features in DASH CLI v1.8

- DMTF CIM MOF Schema upgraded to 2.48.0
- Power 2.0 profile power states supported
- New commands:

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- ‘recordlog’ - describes the logs generated by the managed element
- ‘logentry’ - show log generated by the managed element
- ‘softwareupdate’ - update software of the managed element
- ‘kvmredirection’ - configure KVM Redirection services

New Features in DASH CLI v1.5

- DMTF CIM MOF Schema upgraded to 2.33.0
- Single sign on using Active Directory authentication.
- One time use password supported for Text Redirection with SSH.
- New command ‘listpermission’ added, which displays the privileges supported for the role.
- DASHConfig v1.2 utility is packaged with DASH CLI (Windows OS only)
- Major performance improvements.

New Features in DASH CLI v1.2

- Discovery of DASH systems based on hostname
- Discovery of DASH systems based on single IP/hostname.
- OpenWSMan was upgraded to v2.2.3.
- Better error reporting

General Note

- Refer ‘DASH CLI User Guide.pdf’ document for usage information on DASH CLI.
- Refer ‘DASH CLI Developer Guide.pdf’ document for accessing data from DASH CLI in developer mode.
- DASHConfig utility is packaged with DASH CLI. Using this, a DASH System can be provisioned. Refer < DASH CLI install folder>/DASHConfig/ReleaseNotes.rtf for usage information.
- The integrated webserver launches on port 9090 by default. To change the port, modify ‘ports’ field in the file ‘mongoose.conf’. This file is found in the ‘bin’ folder of DASH CLI installation.
- Few commands may not give results on certain DASH systems. Check the capabilities of the DASH system and verify if the functionality is supported by the DASH system.

Known Issues (and workarounds, if any)

This section describes known issues and workarounds that affect the usage of the DASH CLI.

- Unable to add boot configuration.
  Note: Check the capability of the firmware
- Unable to setthreshold in sensors
- Unable to importfromuri in opaquemanagementdata
- Unable to exportfromuri in opaquemanagementdata
- After executing USB Redirection commands, DASH CLI installation folder is not removed after un-installation
  Workaround: Remove the folders manually after un-install
- KVM VNC Viewer will become unstable if used continuously for a long period of time

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DASH Systems & Management Controller firmware

AIM-T 2.0 (HP 865 G10, Lenovo Z13 Gen 2)
AIM-T 1.0 (HP 845 G9, Lenovo Z13 Gen 1, Lenovo Z16 Gen 1)
Lenovo M75q, firmware: 3.0.0.20200121
Lenovo T495, firmware: 3.0.0.20200324
HP 705 G4, BIOS: 02.04.01, firmware: 1.3.1.173201349
HP 705, firmware: 3.5.0.3

Appendix A – AIM-T configuration

AIM-T systems must be provisioned before deploying for manageability. Refer AMD Provisioning Console (APC) documentation. APC is available for download on www.amd.com/DASH

Appendix B - Configuration specific to Realtek / Broadcom Management Controller

- On using self-signed certificates for HTTPS communication:
  Refer the document 'DASHCertificates.pdf' in the 'docs' folder of DASH CLI installation.
- On active directory authentication setup:
  Refer the document 'DASHActiveDirectory.pdf' in the 'docs' folder of DASH CLI installation. Also, a sample active directory configuration is discussed in the 'SCCM2012-Integration.doc' document available in DASHConfig folder.

Appendix C – Commonly used Putty Shell commands for Text Console Redirection Profile

Here are few helpful escape sequences to aid the putty session:

Supported escape sequences:

Escape Sequence	Functionality
~.	Terminate session
~B	Send a BREAK to the remote system
~R	Request rekey (SSH protocol 2 only)
~#	List forwarded connections
~?	This message
~~	Send the escape character by typing it twice

Note: For Telnet enter+ctrl+] and ssh enter+~+.