



AMD DEVICE MANAGEMENT PORTAL(ADMP)

Release Notes

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AMD Device Management Portal

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2 INTRODUCTION

Enterprise manageability is a key requirement of commercial client businesses. AMD has adopted Distributed Management Task Force's (DMTF) Desktop and mobile Architecture for System Hardware (DASH) specification for implementing manageability. To support and evangelize the DASH ecosystem, AMD has developed software applications that enable end-users (typically, IT Administrators, Managers and Technicians) to use AMD manageability. The primary goal of these applications is to ease the management of all desktops and notebooks in an organization by providing an intuitive user interface.

With the key applications such as DASH CLI, AMC & AMPS all being desktop applications, there was a need to provide a web-based application for manageability. AMD Device Management Portal (ADMP) is an effort to fill that need.

2.1 RELATED DOCUMENTATION

The following documentation is included as part of the ADMP software release package:

Document	Description
AMD Device Management Portal Quick Installation Guide (<i>README.html</i>)	Provides instructions to install and configure the ADMP server and deploy the ADMP application.

Note: Carefully follow all the steps mentioned in the README.html to properly install ADMP.

3 INSTALLATION PREREQUISITES

3.1 HARDWARE

Windows/Ubuntu OS, 8 GB RAM, 8 GB HDD free space

Note: Install ADMP on a fresh machine.

4 AMD DEVICE MANAGEMENT PORTAL (ADMP) 2.0 FEATURES

ADMP 2.0 introduced the following capabilities:

- Enhanced Web Application
 - Intuitive interface for managing DASH clients.
- Web Server Integration
 - Runs on NGINX in a Windows environment.
- Database Support
 - Uses PostgreSQL as the backend database.
- Installation and Internal Features
 - User-Level Database Creation
 - Super Admin Setup during initial installation (one-time process).
 - Secure Login Authentication for enhanced security.

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5. Manageability Settings
 - Add DASH credentials.
 - Support for cloud and mutual authentication.
 - AI chatbot LLM configuration enabled.
6. Portal Settings
 - Role-based authentication for feature access.
 - Admin can create multiple portal users.
 - Data export (database backup) and import for recovery.
 - Auto-delete activity logs based on user-defined settings.
7. Device Discovery Options
 - Hostname
 - IP Address
 - IP Range
 - Active Directory
8. Additional Features
 - Background tasks for multi-operation execution.
 - Group-level device segregation.
 - Upload and manage software across the application.
 - Create custom software categories.
 - Table-level filtering options.
9. Activity Logs
 - Dedicated UI for viewing logs.
 - Custom filters are based on severity, source type, and date.
10. Global Search
 - Search by tag names or device names.
 - Note: Full name input required in this release.
11. Notifications
 - Alerts for DASH operations.
 - Notifications after background task completion.

5 AMD DEVICE MANAGEMENT PORTAL (ADMP) 3.0 FEATURES

1. Database Support

ADMP now supports multiple database engines for improved flexibility:

1. PostgreSQL
2. Microsoft SQL Server (MSSQL)
3. SQLite

2. AI-Enabled Chat Integration

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Integrated ADMA (AMD Device Management Assistant), an AI-powered chat agent that provides intelligent assistance for device management tasks.

1. Supported Use Cases from ADMA:

a. Populate Inventory:

- Processor: Fetch detailed CPU characteristics (clock speeds, health, family).
- Memory: Retrieve total/available memory and cache hierarchy info.
- Sensor: List of sensors with states, health, possible/requested states.
- Bios: Get BIOS metadata (manufacturer, version, element state).
- Boot Config: Inspect boot configuration states and options.
- Computer System: General system power capabilities and ownership/contact info.
- DHCP: DHCP client status and configuration attributes.
- DNS: DNS client properties (hostname, protocol info).
- Fan: Fan operational parameters (speed, health, cooling capability).
- IP Interface: Network interface IPv4 settings (address origin, mask, state).
- Indication Filter: List event/indication filters for subscription management.
- KVM Redirection: Inspect KVM redirection service parameters (sharing mode, protocol).
- Network Port: Physical/logical port characteristics (MAC, speeds, link tech).
- Operating System: Basic OS info (name, type, enabled state).
- User Role: Role privileges and role identification.
- Power Supply: Power supply health, enabled state, total power.
- User: User accounts (roles, org name, enabled state).
- Text Redirection: Text console redirection settings (port, protocol, state).
- SSH: SSH service configuration (version, compression, keep-alive).
- Software: Installed/managed software component identity and versioning

b. System Operations:

- Power Status: Get current power state of a device for status dashboards or pre-action validation.
- Change Power State: Turn system on/off, restart, power cycle, sleep, hibernate, graceful shutdown, warm reset operations via normalized input.
- Check Health: Retrieve overall health plus sensor and fan status for monitoring or alerting.
- Un-own Device: Un Provisioning the DASH device.

c. Device Management:

- Add Device: Discover and register a new device into the management database.
- Remove Device: Detach a device from a specified group (or All Devices default).

d. Group Management:

- List Groups: List all group names of a given type (Device, Software, Activity) for navigation or selection.
- Add Group: Create a new logical grouping for devices, software images, or activities.

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- Remove Group: Delete an existing group.
 - Move Device into group: Reassign a device to a different group.
 - List Group Items: Enumerate devices or software images within a specific group.
2. Supported LLM Model Provider:
 - a. Azure OpenAI
 - GPT 4 (Max token limit: 16384, temperature range: [0,2])
 - GPT 5 mini (Max token limit: 2147483647, temperature range: [1,2])
 - GPT 5 (Max token limit: 2147483647, temperature range: [1,2])

3. New manageability Features

The following manageability features have been added:

1. Opaque Data Management Profile.
2. Remote Disk Wipe – Enables secure remote disk erasure.
3. Unown – Un Provisioning the DASH device.
4. WinRE (Windows Recovery Environment) – Support KVM.

6 KNOWN ISSUES

1. Refreshing the browser will log you out of your session.
2. Text redirection and BIOS KVM are not supported through ACMS.
3. In Boot configuration following features are not supported.
 - a. Next boot configuration
 - b. Next boot Only configuration
4. Text Redirection: In Wired board, TCR bit will not be disabled after closing the PuTTY.
5. ADMA: Requests exceeding 2 minutes will result in a server error response.
6. Currently we are not supporting upgrade from 2.1 to 3.0.

7 SECURITY RECOMMENDATIONS

1. Use Google Chrome or Microsoft Edge browsers.
2. Use the application in a trusted environment.
3. CA-certified certificates are mandatory for configuring the webserver.

8 UNINSTALLATION

Uninstall the AMD Device Management Portal from the Programs and Features in the Windows Control Panel.

Note: AMD Manageability API (AMA) is not included in the ADMP uninstallation process. Therefore, if required, uninstall the AMD Manageability API manually.