

GIGABYTE™

Realtek Dash Management Console

User Guide

Rev. 1.0

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Documentation Classifications

In order to assist in the use of this product, GIGABYTE provides the following types of documentation:

- User Manual: detailed information & steps about the installation, configuration and use this product (e.g. motherboard, server barebones), covering hardware and BIOS.
- User Guide: detailed information about the installation & use of an add-on hardware or software component (e.g. BMC firmware, rail-kit) compatible with this product.
- Quick Installation Guide: a short guide with visual diagrams that you can reference easily for installation purposes of this product (e.g. motherboard, server barebones).

Please see the support section of the online product page to check the current availability of these documents

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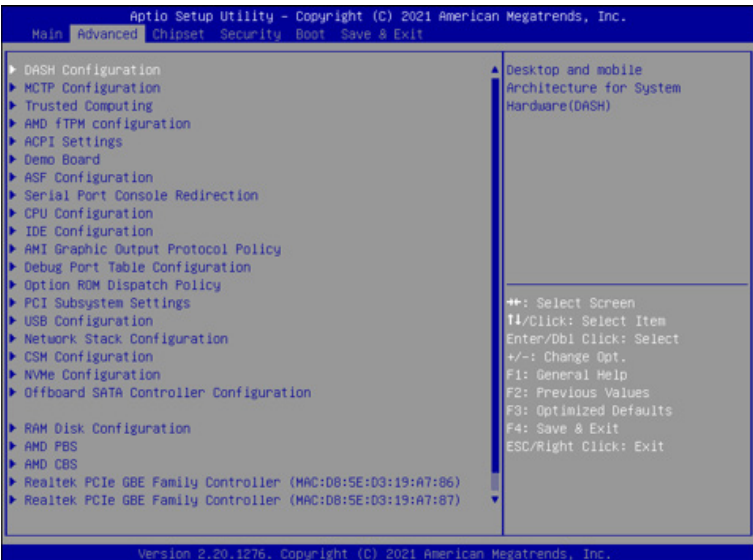
Chapter 1 BIOS Setting

Follow the instruction to enable the Realtek DASH function.

1. Press to enter BIOS setup menu.



2. Go to Advanced Page. Enter DASH Configuration, MCTP Configuration, ASF Configuration and Serial Port Console Redirection to setup the items.

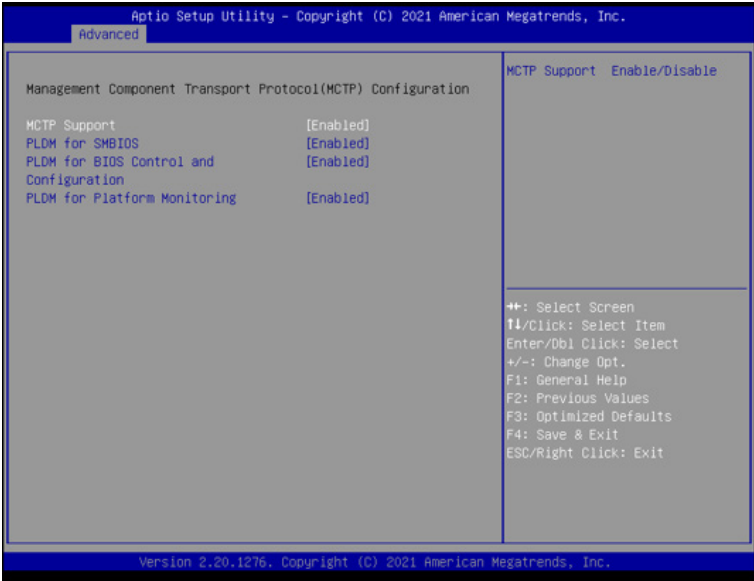


1-1 DASH Configuration



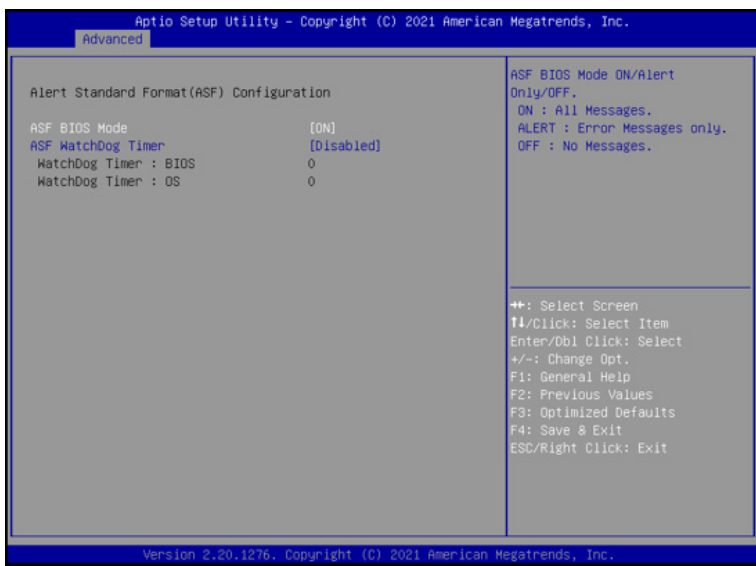
1. [Enabled] RealManage Firmware Control.
2. [Enabled] DASH Support.

1-2 MCTP Configuration



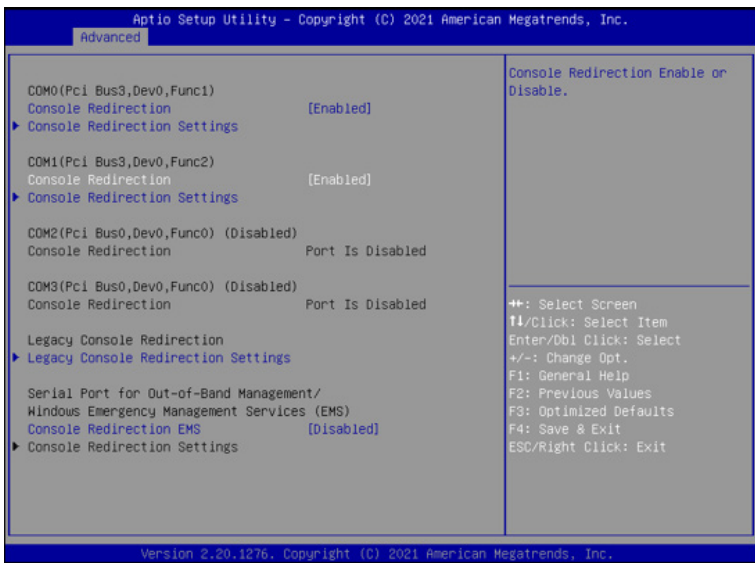
1. **[Enabled]** MCTP Support.
2. **[Enabled]** PLDM for SMBIOS.
3. **[Enabled]** PLDM for BIOS Control and Configuration.
4. **[Enabled]** PLDM for Platform Monitoring.

1-3 ASF Configuration



1. Select **[On]** ASF BIOS Mode.

1-4 Serial Port Console Redirection



1. [Enabled] Console Redirection.

Chapter 2 Network Configuration

2-1 Host and Client IP Address Configuration

1. Connect the LAN Cable to Management LAN Port.
2. Configure the Host IP address and Client IP address.



Note:

Both Host and Client IP address should be same domain.

► For Example:

- Client IP address: 192.168.1.2
- Client Subnet mask: 255.255.255.0

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 192 . 168 . 1 . 2

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

Validate settings upon exit

Advanced...

OK Cancel

- Host IP address: 192.168.1.1
- Host Subnet mask: 255.255.255.0

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 192 . 168 . 1 . 1

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

Validate settings upon exit

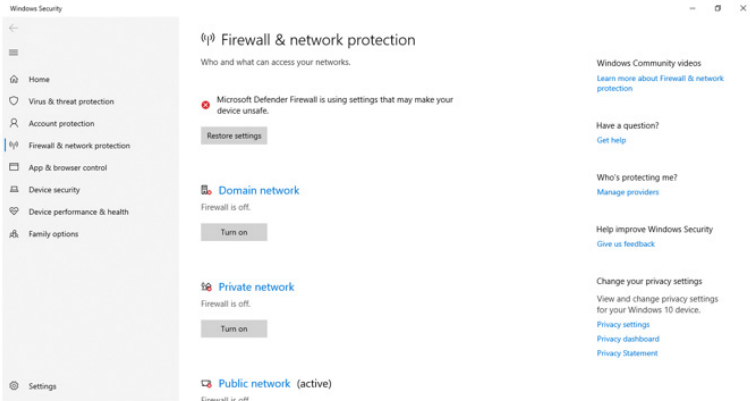
Advanced...

OK Cancel

2-2 Host and Client Network Setting Under OS

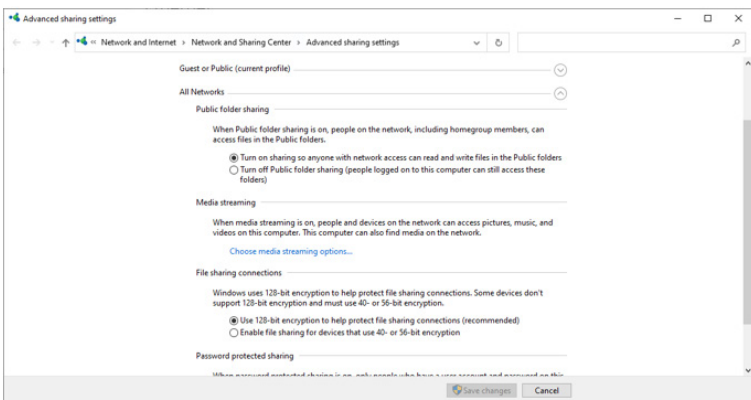
2-2-1 Turn Microsoft Defender Firewall Off

1. Select the **Start button > Settings > Update & Security > Windows Security** and then **Firewall & network protection**.
2. Three types of networks (Domain, Private, and Public) should be marked as Turn On.
3. Switch the setting to **Turn Off**.



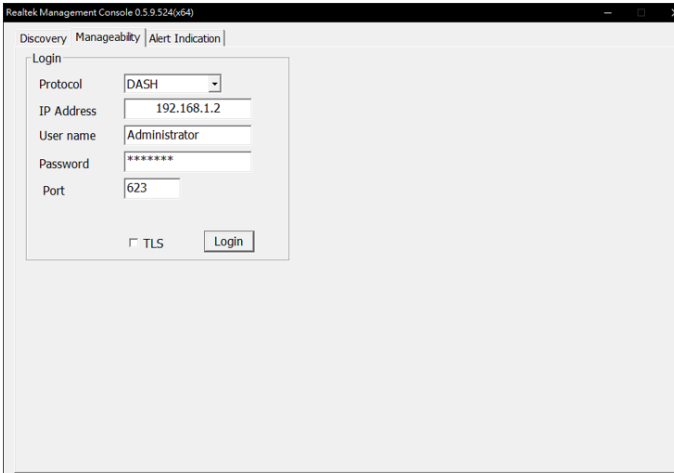
2-2-2 Turn File Sharing On

1. Select the **Start button > Settings > Network & Internet > Sharing options**.
2. Expand **All Networks**.
3. Under **Public folder sharing**, select **Turn on sharing so anyone with network access can read and write files in the Public folders**.



Chapter 3 Realtek Management Console

3-1 Login

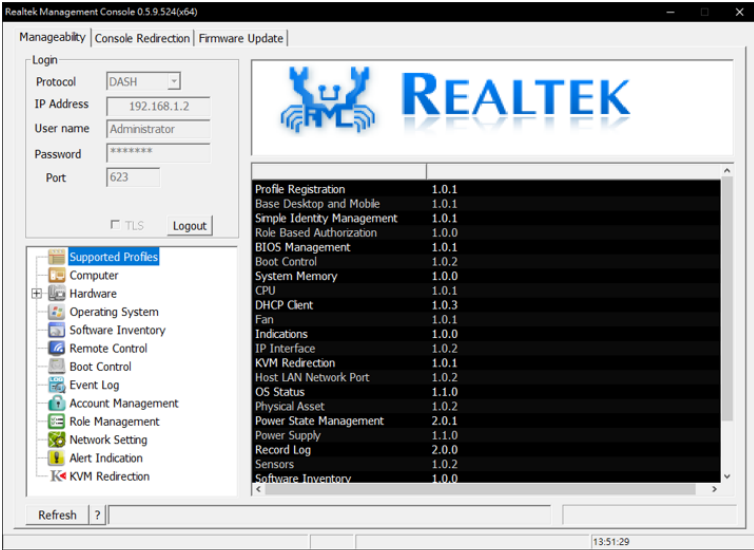


In Manageability page, enter the following values to login.

- **IP Address:** 192.168.1.2
- **User name:** Administrator
- **Password:** Realtek

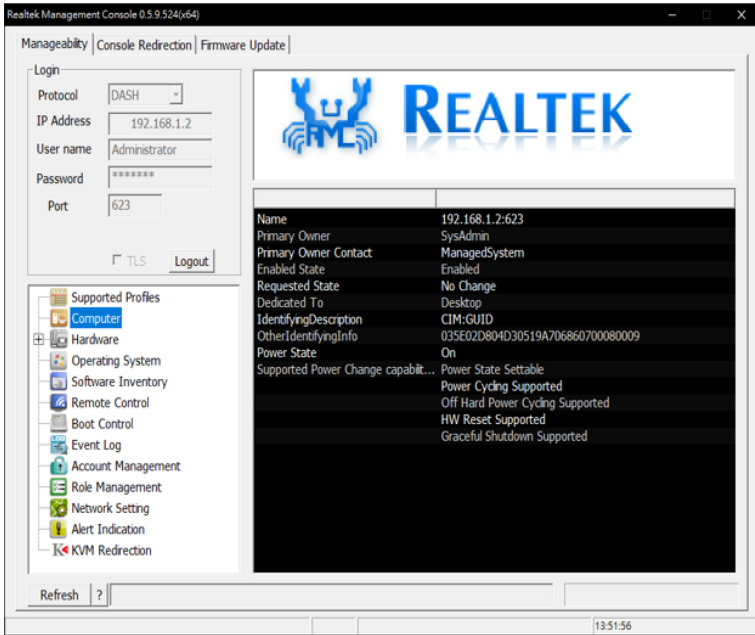
3-2 Manageability Menu

The Manageability displays a submenu for monitoring the information and function, includes Computer, Hardware, Operating System, Software Inventory, Remote Control, Boot Control, Event Log, Account Management, Role Management, Network Setting, Alert Indication, and KVM Redirection.



3-2-1 Computer

This page displays the current information of the related device.



3-2-2 Hardware

This page displays the hardware information of the related device, such as BIOS, Processor, Memory, Fan, Sensor, Battery, and Asset.

The screenshot shows the Realtek Management Console interface. The top navigation bar includes 'Manageability', 'Console Redirection', and 'Firmware Update'. The left sidebar shows a tree view with 'Hardware' expanded and 'BIOS' selected. The main content area displays the BIOS configuration page, which includes a 'Set BIOS' button and a table of BIOS parameters.

BIOS name	MC12-NB0-00
Manufacturer	American Megatrends International LLC
Version	D19
SoftwareElementState	Executable
SoftwareElementID	BIOS-262148
Target OperatingSystem	66 (Not Applicable)
Windows Boot Manager	Enabled
UEFI: Built-in EFI Shell	Enabled
UserPassword	
AdminPassword	

The screenshot shows the Realtek Management Console interface with the 'Processor' page selected. The left sidebar shows 'Hardware' expanded and 'Processor' selected. The main content area displays the Processor configuration page, which includes a 'Processor' button and a table of processor parameters.

Element Name	Processor
Device ID	Processor:1114112
Processor family	107 (AMD Zen(TM) Processor Family)
Processor Stepping	AMD Ryzen 9 5950X 16-Core Processor
CPU Status	CPU Enabled
Health Status	OK
Cur Clock Speed	3400 MHz
Max Clock Speed	5050 MHz
Ext bus speed	100 MHz
LoadPercentage	0
Enabled State	Enabled
Requested State	Enabled
Operational State	OK

Realtek Management Console 0.5.9.524(v64)

Manageability | Console Redirection | Firmware Update

Login

Protocol: DASH

IP Address: 192.168.1.2

User name: Administrator

Password: *****

Port: 623

TLS Logout

Supported Profiles

- Computer
- Hardware
 - BIOS
 - Processor
 - Memory (RAM)
 - Fan
 - Sensor
 - Battery
 - Asset
- Operating System
- Software Inventory
- Remote Control
- Root Control

Refresh ?

13:53:01

Total System Memory

L1 - Cache L2 - Cache L3 - Cache

Element Name	Total System Memory
Device ID	Memory:393250
Health Status	OK
Enabled Status	Enabled
Requested Status	Not Applicable
Access Type	Read/Write Supported
Total Memory	16 GB
Is Volatile Memory	YES

Realtek Management Console 0.5.9.524(v64)

Manageability | Console Redirection | Firmware Update

Login

Protocol: DASH

IP Address: 192.168.1.2

User name: Administrator

Password: *****

Port: 623

TLS Logout

Supported Profiles

- Computer
- Hardware
 - BIOS
 - Processor
 - Memory (RAM)
 - Fan
 - Sensor
 - Battery
 - Asset
- Operating System
- Software Inventory
- Remote Control
- Root Control

Refresh ?

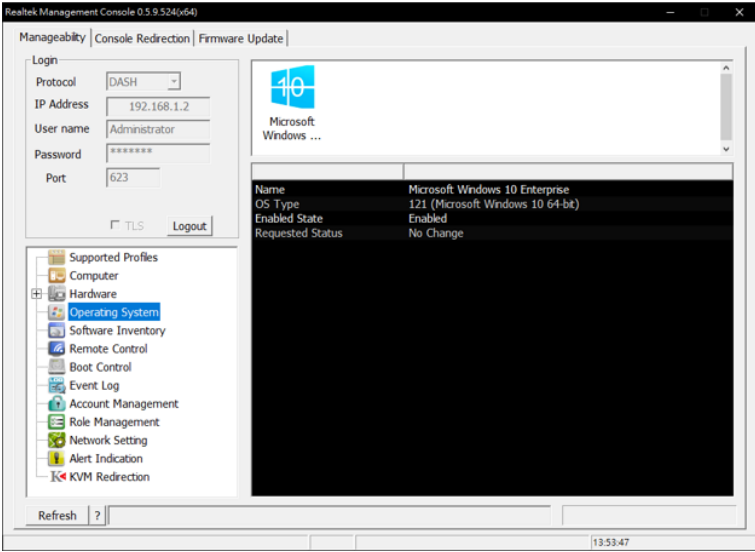
13:53:24

Baseboard Chassis Processor PhysicalMe... 310 33700 M.2

Element Name	Baseboard
Manufacturer	GIGABYTE
Model	MC12-N80-00
Serial Number	Default string
Tag	Card:131074
Version	1.x

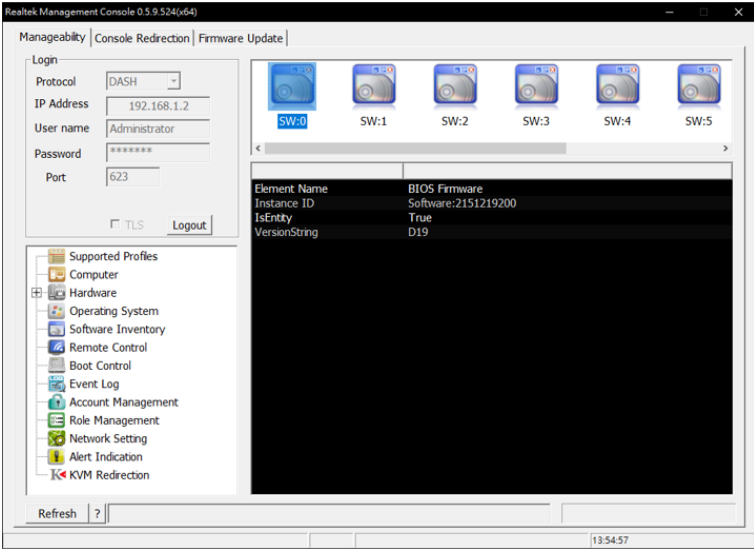
3-2-3 Operating System

This page displays the Operating System information of the related device.



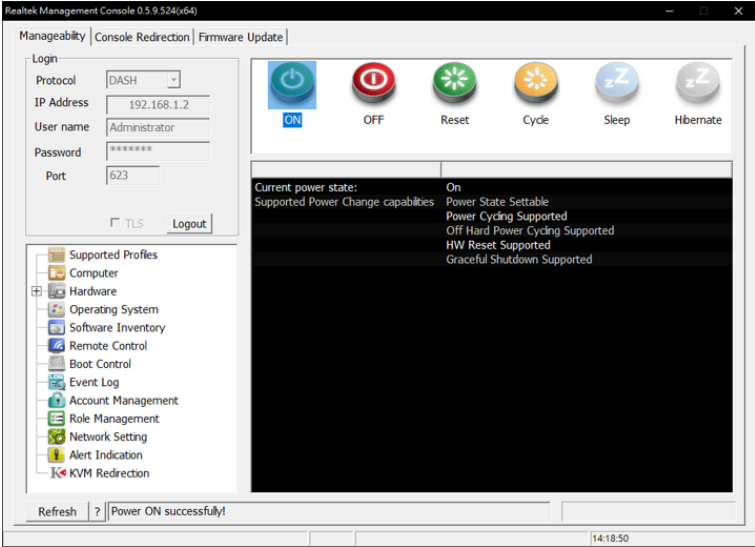
3-2-4 Software Inventory

User can track the Bios and NIC Firmware information of the selected software.



3-2-5 Remote Control

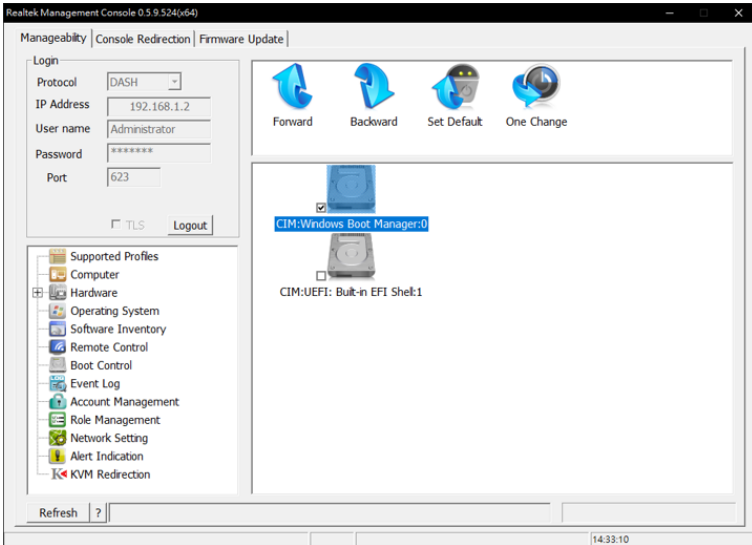
User can power on/power off/power reset/power recycle/sleep and hibernate the remote system in Remote Control page.



3-2-6 Boot Control

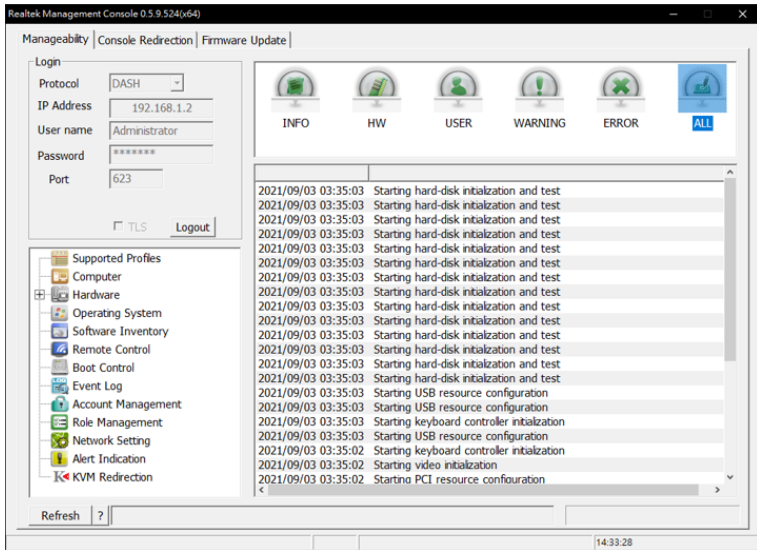
User can configure the boot order of the devices attached in the managed client.

- **Set Default:** System always boot from the selected hard disk.
- **Once Change:** System boot one time from the selected hard disk



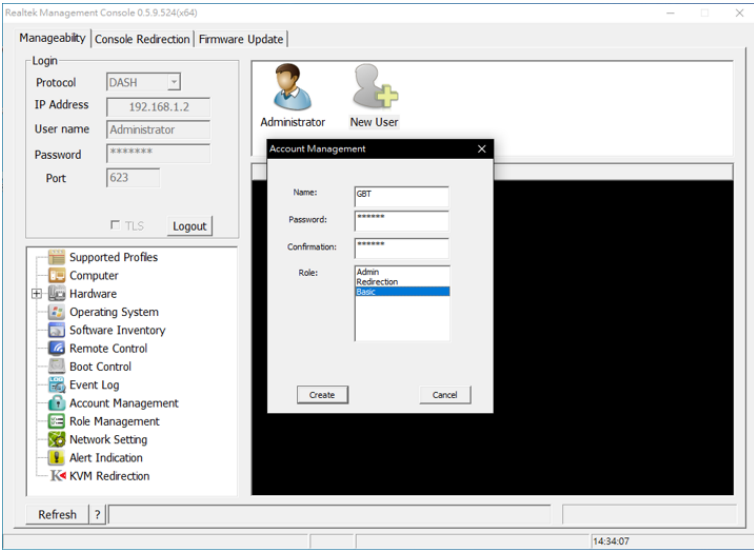
3-2-7 Event Log

This page displays the connected system event log information.



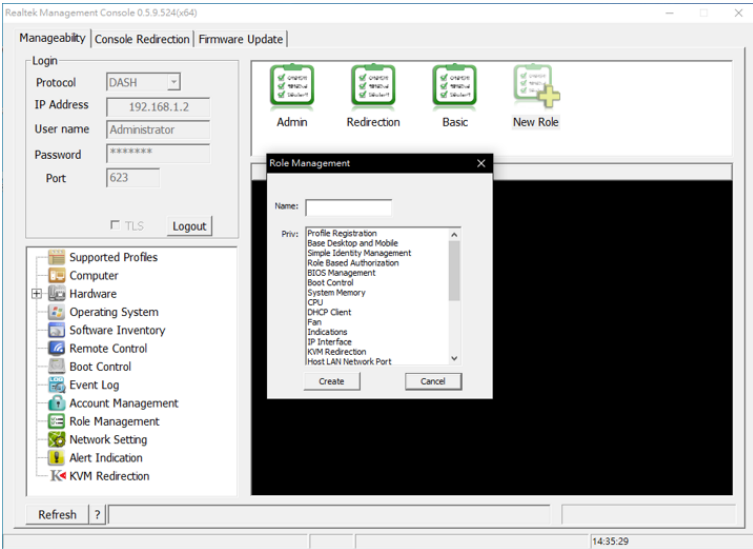
3-2-8 Account Management

User can create different account and set the authority level.



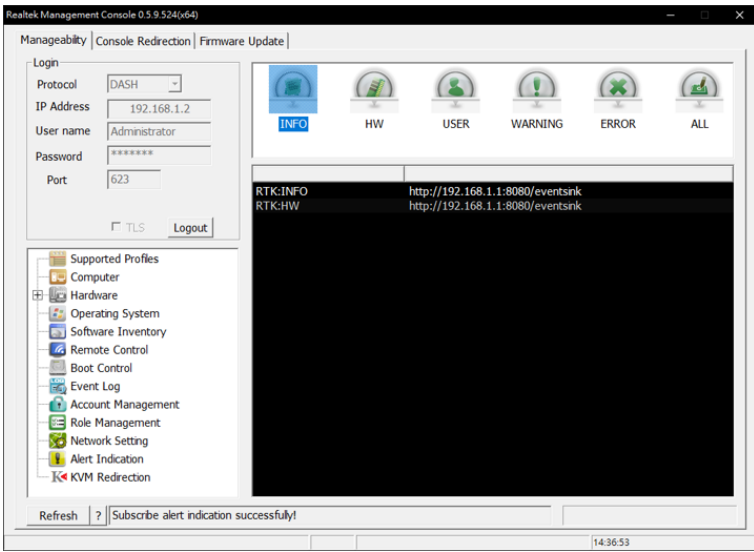
3-2-9 Role Management

User can create new role and set the authority level.

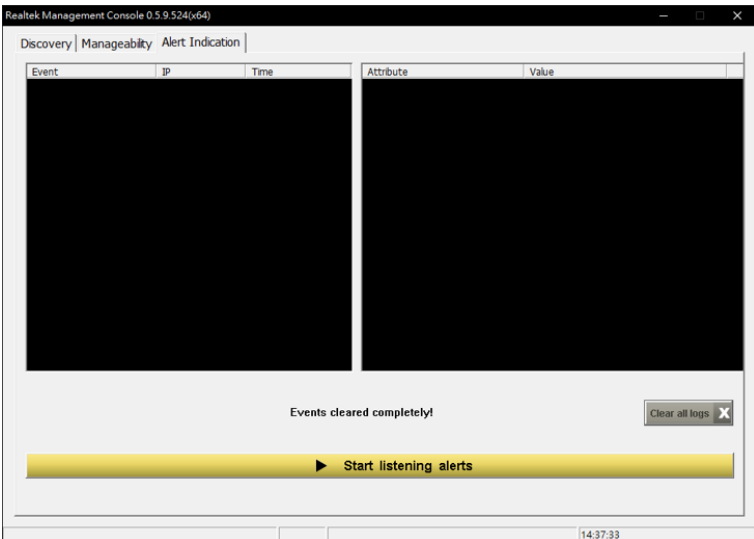


3-2-10 Alert Indication

User can configure alerts to monitor the client system from selected event log(INFO, HW, USER, WARNING, ERROR, ALL).



Select any event log and click "Start listening alerts".



Server sent alerts to client after system reboot.

The screenshot shows the Realtek Management Console interface. At the top, there are tabs for 'Discovery', 'Manageability', and 'Alert Indication'. The 'Alert Indication' tab is active, displaying a list of events in a table. The table has columns for 'Event', 'IP', and 'Time'. The events listed include 'DASH Heart Beat' and multiple 'Starting hard-disk init...' entries for IP 192.168.1.2, with times ranging from 14:38:23 to 14:45:47. To the right of the event list is a 'Details' pane with columns for 'Attribute' and 'Value'. The details shown are: 'IndicationTime' (20210906 14:38:45), 'Message' (Starting hard-disk initialization and test), 'MessageID' (PET111), and 'SystemName' (192.168.1.2). Below the event list, a status bar indicates '32 event(s) and 45 heart beat(s) happened...'. There is a 'Clear all logs' button with an 'X' icon. At the bottom, there is a 'Stop listening alerts' button. The bottom right corner of the console shows the time '14:45:55'.

Event	IP	Time
*. DASH Heart Beat		20210906 14:45:47
32. Starting hard-disk init...	192.168.1.2	20210906 14:38:45
31. Starting hard-disk init...	192.168.1.2	20210906 14:38:43
30. Starting hard-disk init...	192.168.1.2	20210906 14:38:41
29. Starting hard-disk init...	192.168.1.2	20210906 14:38:39
28. Starting hard-disk init...	192.168.1.2	20210906 14:38:37
27. Starting hard-disk init...	192.168.1.2	20210906 14:38:35
26. Starting hard-disk init...	192.168.1.2	20210906 14:38:33
25. Starting hard-disk init...	192.168.1.2	20210906 14:38:31
24. Starting hard-disk init...	192.168.1.2	20210906 14:38:29
23. Starting hard-disk init...	192.168.1.2	20210906 14:38:27
22. Starting hard-disk init...	192.168.1.2	20210906 14:38:25
21. Starting hard-disk init...	192.168.1.2	20210906 14:38:23
20. Starting hard-disk init...	192.168.1.2	20210906 14:38:21
19. Starting hard-disk init...	192.168.1.2	20210906 14:38:19
18. Starting USB resourc...	192.168.1.2	20210906 14:38:23
17. Starting USB resourc...	192.168.1.2	20210906 14:38:21
16. Starting keyboard co...	192.168.1.2	20210906 14:38:19
15. Starting USB resourc...	192.168.1.2	20210906 14:38:17

Attribute	Value
IndicationTime	20210906 14:38:45
Message	Starting hard-disk initialization and test
MessageID	PET111
SystemName	192.168.1.2

32 event(s) and 45 heart beat(s) happened...

Clear all logs X

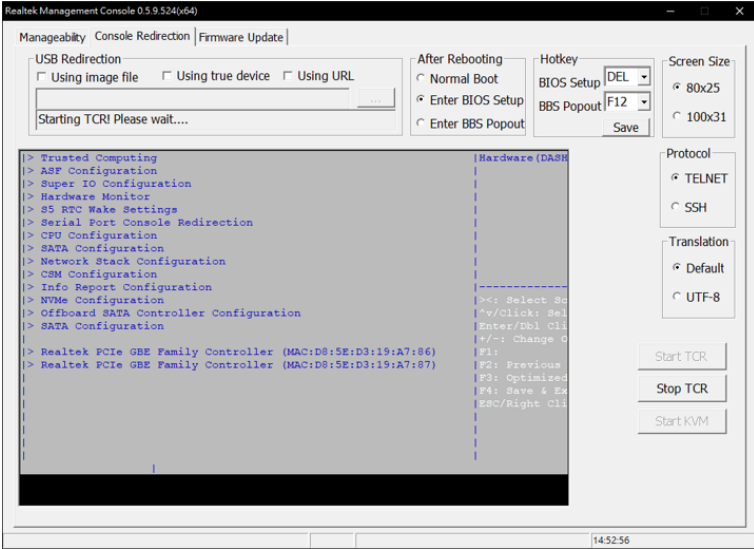
Stop listening alerts

14:45:55

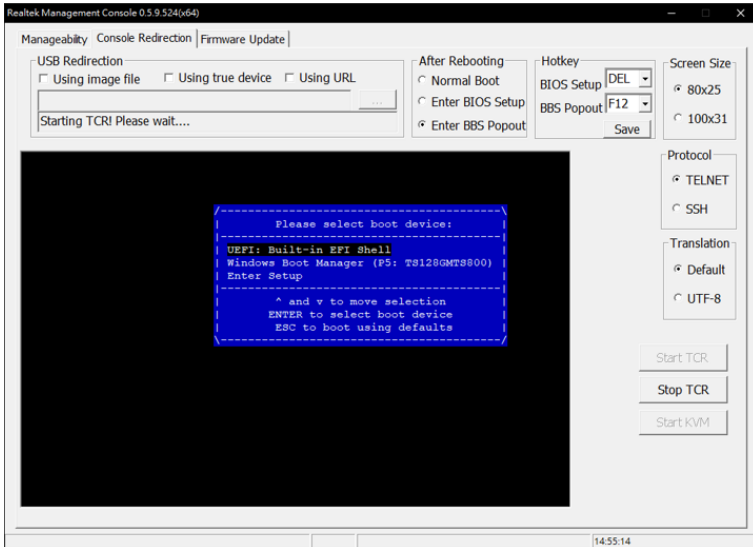
3-3 Text Console Redirection (TCR)

The console redirection provides options for USB redirection and control for rebooting to BIOS.

- Enter BIOS Setup
 - Step1 : Select **Enter BIOS Setup**.
 - Step2 : Setup the Hotkey.
 - Step3 : Click "**Start TCR**".
 - Step4 : Reboot the system.



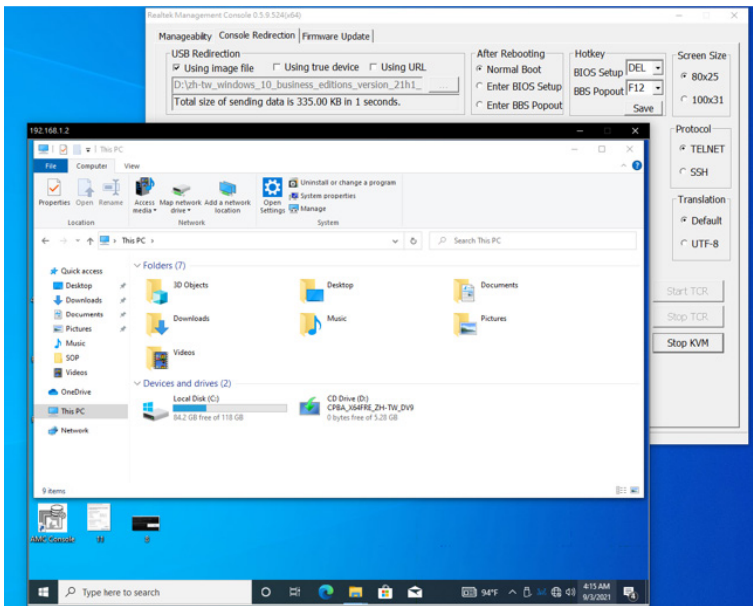
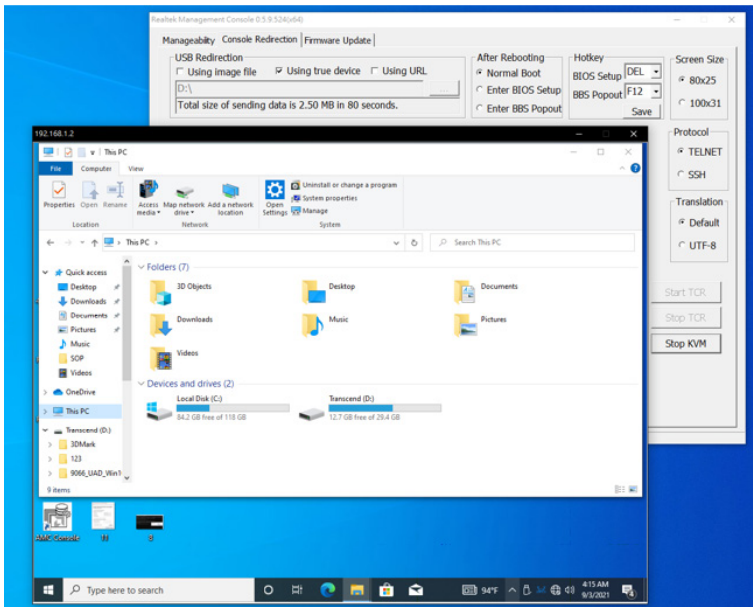
- Enter BBS Popout
Step1 : Select **Enter BBS Popout**.
Step2 : Setup the Hotkey.
Step3 : Click "**Start TCR**".
Step4 : Reboot the system.



- USB Redirection & KVM

Step1 : Select **Using true device (from server's removable USB devices)** or **Using image file (from server's image files)**.

Step2 : Click **"Start KVM"**.



3-4 Firmware Update

Step1 : Select **UpdateFormURI** (from server's NIC Firmware).

Step2 : Choose the file.

Step3 : Click "**Start Update**".

