



amnimo C Series
Release Notes

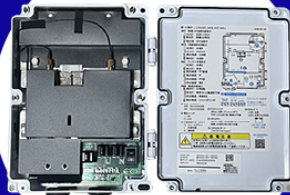
AC10



AC15






AC25



How to confirm compatible models

This document corresponds to multiple models of Compact Router. The following shows the icon of the compatible model.

	amnimo C Series Indoor-Type Compact Router AC10
	amnimo C Series Indoor-Type Wireless LAN Compact Router AC15
	amnimo C Series Outdoor-Type Wireless LAN Compact Router AC25

RF Supported Band

There are two types of model numbers for compact routers with wireless LAN depending on the difference between the two types of supported frequency bands. In this document, they are referred to as 011JP type and 061JP type, respectively.

Type		011JP type (AC10-011JP, AC15-011JP, AC25-011JP)	061JP type (AC15-061JP, AC25-061JP)
Mobile Network	LTE (FDD)	B1, B3, B18, B19, B21	B1, B3, B18, B19, B26
	LTE (TDD)	–	B39(sXGP), B41(AXGP)
	W-CDMA	B1, B6, B8, B19	B1, B6, B8, B19

Types of firmware for compact routers

There are two types of firmware for compact routers. Please be careful when updating.

Firmware	For the latest version, please refer to the URL ^{*2}
Application part ^{*1}	<ul style="list-style-type: none"> Indoor compact router https://(account):(password)@package.amnimo.com/firmware/ac10.amf Indoor type compact router with wireless LAN https://(account):(password)@package.amnimo.com/firmware/ac15.amf Compact router with outdoor type wireless LAN https://(account):(password)@package.amnimo.com/firmware/ac25.amf
Hardware control part ^{*1}	<ul style="list-style-type: none"> Indoor compact router https://(account):(password)@package.amnimo.com/firmware/ac10-modem.amf Indoor type compact router with wireless LAN <ul style="list-style-type: none"> • 011JP type https://(account):(password)@package.amnimo.com/firmware/ac15-011jp-modem.amf • 061JP type https://(account):(password)@package.amnimo.com/firmware/ac15-061jp-modem.amf Compact router with outdoor type wireless LAN <ul style="list-style-type: none"> • 011JP type https://(account):(password)@package.amnimo.com/firmware/ac25-011jp-modem.amf • 061JP type https://(account):(password)@package.amnimo.com/firmware/ac25-061jp-modem.amf

*1 For details on how to check the firmware version, refer to "2.4.1 Displaying the Firmware Version" and "5.1 Displaying the Mobile Module" in the "[Edge Gateway Series CLI User's Manual](#)".

*2 To access the firmware, you will need an account and password. Please contact our support separately.

Chapter 1 Release Notes

The following shows the new functions added and the changes made since the first release.



→ For the restrictions and known problems, refer to "2.1 Restrictions and known problems".

1.1 Latest version

■ Version 2.5.0 (2025/5/15)

OSS version up, Functions have been added, function improvements, specification changes, and bug fixes have been implemented.

TARGET FIRMWARE (version)

- Application part (2.5.0)
- Hardware control part
 - AC10 (1.0B09)
 - AC15/25 (011JP type : 1.0B09, 061JP type : 2.0B03)






For the firmware of the application part, the 011JP type and 061JP type of AC15/AC25 have been integrated into one firmware.

Due to this change, firmware update from version 1.13.0 or earlier to this version or later of the firmware for **AC15/AC25 cannot be performed directly and will result in an error**. Please update to [version 2.3.0](#) once when updating firmware to this version.








TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10
- amnimo C Series Indoor-Type Wireless LAN Compact Router AC15
- amnimo C Series Outdoor-Type Wireless LAN Compact Router AC25










OSS バージョンアップ

- Upgraded OSS related to SSH function, packet capture function, DNS function, firmware download function, and IPsec function.   

FUNCTIONS ADDED

- In the GUI function, if a setting is unsaved after a setting change, the status is now displayed in the GUI.   
- In the GUI function, the Amnimo diagnostic information function has been added.   
- PPP functionality is now available in the GUI function of the AC10 indoor compact router. 

SPECIFICATION CHANGED






- In the scheduling function, the ping source interface for keep-alive settings can now be configured. 
- In the schedule function, when the schedule type is keep-alive, the fail-safe retry setting can be configured.   
- In the schedule function, the fail-safe setting has been removed when the schedule type is general-control.   
- The specifications related to the resetting of the wireless LAN chip have been changed for the scheduling function. This change enables the resetting of the wireless LAN chip even in the general-control setting.  

Schedule type	Action Setting	
	Version 2.3.0 or earlier	Version 2.5.0 or later
keep-alive	<pre>action wifi ap ap-ifname [reset <enable disable>]. action wifi sta STA-IFNAME [reset <enable disable>].</pre>	<pre>action wifi-reset</pre>
general-control	(Not applicable)	<pre>action wifi-reset [random RANDOM-TIME uptime UPTIME].</pre>


















Version 2.5.0 or later, with "action wifi-reset" in place, will not start properly if downgraded to version 2.3.0 or earlier. On the other hand, if "action wifi ap" or "action wifi sta" is set prior to version 2.3.0, it will be recognized as "action wifi-reset" and start normally when upgraded to version 2.5.0 or later.

































BUG FIXES (Application part)

- Fixed a problem in which PPP service was not stopped after deleting PPP settings from the advanced settings in the GUI function. (No.48)   
- In the wireless LAN access point function, when using 2.4GHz and 5GHz at the same time, the system would disconnect in rare cases and could not be reconnected from the station side. (No.49)  









Simultaneous use of 2.4GHz and 5 GHz in actual operation for throughput and connection stability is not recommended.




- In the wireless LAN function, when using W53 mode or W56 mode in the 5 GHz band, if there was no movable channel due to DFS radar, it would not output a radio wave and would not work. (No.51) 
- Fixed a bug that could cause the firmware upgrade to fail if the firmware upgrade was performed immediately after startup. (No.53)   
- In the scheduling function, when PPP is manually connected, the system reconnects after PPP disconnection even if the action of PPP disconnection is set in general-control. (No.55) 
- In the PPP function, the PPP connection did not stop even if the related peer setting was deleted while PPP was connecting. (No.56) 
- Fixed a problem in the interface function where the link mode setting was fixed to 100baseT-Auto even if the setting was changed. (No.57) 
- In the interface function, a problem in which a setting other than 100baseT-Auto could be selected for the link mode setting has been corrected. (No.59)  
- Fixed a bug that caused the Amnimo monitoring application device to reboot after 10 minutes after the DHCP server failsafe was disabled from the enabled state. (No.60)   
- Fixed a bug that caused the IP address to be deleted when the Ethernet port was linked down. (No.61)   

- Fixed a bug that could cause the NAT/filter configuration process to fail. (No.62)   
- Fixed a problem in which the PMTU setting was reflected on all interfaces, not just the one being configured. (No.63)   
- In the NTP function, when synchronization by link-up of a specific interface is set, the NTP server continues to operate even if the interface in question is disabled. (No.64)   
- Fixed a problem in the NTP function that caused the NTP server to restart when linking up interface functions not set to sync-interface. (No.65)   
- In the NTP function, a bug that could cause the setting process to fail has been corrected. (No.66)   
- In the wireless LAN access point function, a problem in which the 5 GHz setting was not reflected when switching to the separately set 2.4 GHz setting has been corrected. (No.68)  
- Fixed a bug in which the file numbers assigned when rotating syslog message files were not sequentially numbered. (No.69)   
- In the packet capture function, an error occurred when executing packet capture when the interface is UP but no IP address is assigned. (No.70)   
- Fixed a problem in which the failsafe function did not work when the service startup process terminated abnormally. (No.71)   
- In the mobile module function, a problem was corrected in which the 3G fixed or 4G fixed setting function by rat service did not work. (No.72)   
- In the wireless LAN access point function, a problem was corrected in which communication could not be established with devices whose MAC addresses were displayed in the list of devices connected to the access point. (No.73)   

BUG FIXES (Hardware control part)

- In the mobile interface function, when band 19 is used on a 3G line, it is displayed as band 12 on the mobile line communication status display and log. (No.52)   
- Fixed a bug in the IP address setting of the mobile communication interface that could prevent communication regardless of the same network address. (No.67)   

URLs for firmware for full updates

model	Referenced URL
	Applications part https://(account):(password)@package.amnimo.com/firmware/ac10-2.5.0-62900.amf Hardware control section https://(account):(password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf
	Applications part* https://(account):(password)@package.amnimo.com/firmware/ac15-061-2.5.0-b62898.amf Hardware control part* 011JP Type  https://(account):(password)@package.amnimo.com/firmware/ac15-modem-ME3630AC15V1.0B09-b62306.amf Type ・ 061JP https://(account):(password)@package.amnimo.com/firmware/ac15-modem-ME3630AC15V2.0B03-b62306.amf

*The firmware for AC15 and AC25 is the same.

1.2 Versions released in the past

Version 2.4.0 (2024/1/30)

Functions have been added, function improvements, specification changes, and bug fixes have been implemented.




TARGET FIRMWARE (version)

- Application part (2.4.0)
- Hardware control part AC10 (1.0B06) *No change




TARGET DEVICE

- amnimo C Series Indoor Compact Router AC10





FUNCTIONS ADDED

- Added mobile IP transparent mode function. 
- The hardware firmware version is now displayed on the device information screen of the GUI function. 
- The communication duration has been added to the display parameters of the mobile communication status display function in the CLI and GUI functions. 

FUNCTIONAL IMPROVEMENTS

- The access speed of the setting data function has been improved. 
- In the IPsec function, only one domain can be set for “fqdn” and “userfqdn” of the local/remote ID configuration parameters. I tried to do that. 
- In the interface function, if the same network address exists in another interface, a warning is output at the time of setting. 

SPECIFICATION CHANGED











- In the account function, it has been changed so that only single-byte numbers cannot be specified for the account name and group name. ^{※1} 
- In the NAT setting or filter setting of the CLI function, an error occurs when a large value is specified first in a place where the port range can be specified, such as "startport:endport". ^{※2} 
- Changed the default value of proxy ARP to disabled. 
- In the schedule function, the execution action (PPP/mobile) of the general-control setting has been changed to reconnect when the action destination is always connected. 




*1 If you specify a character string with only single-byte numbers in version 1.x.x, if you upgrade to this version or later, the user or group will not be available and will not start properly.

*2 If you have specified a large port range value in version 1.x.x or later, it will not start normally if you upgrade to this version or later.

BUG FIXES

- Fixed a bug in the CLI function that caused the command history of administrator mode and user mode to be common. (No.37) 
- Fixed a bug that could not be set by omitting pkt-type in the NAT setting and filter setting of the CLI function. (No.38) 
- Fixed a bug that prevented communication from being possible even if one IP address was disabled when an IP address with the same network address was set in the chassis. (No.39) 
- Fixed an issue in the device management system where the activation process may not be completed due to a communication error between the device and the cloud while activating the device. (No.40) 
- Fixed a situation where the failsafe value of the agent program of the device management system overlapped with the failsafe value of the scheduling function. (No.41) 
- Fixed a phenomenon that the DNS server may not start in rare cases. (No.42) 
- When changing PPP parameters, the message "Failed to restore settings.Fixed the phenomenon of "Occurrence of ". (No.43) 
- Fixed a bug that caused the NTP server list to remain in the NTP server list display when the NTP acquisition function of the DHCP client of the interface function was disabled. (No.44) 
- Fixed a bug that may prevent you from connecting if you change the settings while the mobile function is enabled when setting up the mobile function. (No.54) 
- Fixed a bug that If DHCP client is set in the interface function, the value set in "mtu" will be used even though "dhcp4 mtu" is set to obtain the MTU of the DHCP server. (No.58) 

URLs for firmware for full updates

model	Referring URL
	<ul style="list-style-type: none"> • Application part https://(account):(password)@package.amnimo.com/firmware/ac10-2.4.0-60917.amf • Hard control part https://(account):(password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

Version 2.3.0 (January 25, 2024)

Functions have been added, function improvements, specification changes, and bug fixes have been implemented.





TARGET FIRMWARE (version)

- Application part (2.3.0)
- Hardware control part AC15/25 (011JP type : 1.0B07, 061JP type : 2.0B02) *No change









TARGET DEVICE

- amnimo C Series Indoor-Type Wireless LAN Compact Router AC15
- amnimo C Series Outdoor-Type Wireless LAN Compact Router AC25







FUNCTIONS ADDED

- The hardware firmware version is displayed on the device information screen of the GUI function.  
- The communication duration has been added to the display parameters of the mobile communication status display function in the CLI and GUI functions.  

FUNCTIONAL IMPROVEMENTS

- The wireless LAN driver has been updated.  
- The access speed of the setting data function has been improved.  
- In the IPsec function, only one domain can be set for “fqdn” and “userfqdn” of the local/remote ID configuration parameters.  
- In the interface function, if the same network address exists in another interface, a warning is output at the time of setting.  

SPECIFICATION CHANGED








- In the account function, it has been changed so that only single-byte numbers cannot be specified for the account name and group name. *1  
- In the NAT setting or filter setting of the CLI function, an error occurs when a large value is specified first in a place where the port range can be specified, such as "startport:endport". *2  
- Changed the default value of proxy ARP to disabled.  














*1 If you specify a character string with only single-byte numbers in version 1.x.x, if you upgrade to this version or later, the user or group will not be available and will not start properly.



*2 If you have specified a large port range value in version 1.x.x or later, it will not start normally if you upgrade to this version or later.

BUG FIXES

- Fixed a bug in the CLI function that caused the command history of administrator mode and user mode to be common. (No.37) 
- Fixed a bug that could not be set by omitting pkt-type in the NAT setting and filter setting of the CLI function. (No.38)  
- Fixed a bug that prevented communication from being possible even if one IP address was disabled when an IP address with the same network address was set in the chassis. (No.39)  
- Fixed an issue in the device management system where the activation process may not be completed due to a communication error between the device and the cloud while activating the device. (No.40)  
- Fixed a situation where the failsafe value of the agent program of the device management

- system overlapped with the failsafe value of the scheduling function. (No.41)  
- Fixed a phenomenon that the DNS server may not start in rare cases. (No.42)  
- When changing PPP parameters, the message "Failed to restore settings.Fixed the phenomenon that occurs. (No.43)  
- Fixed a bug that caused the NTP server list to remain in the NTP server list display when the NTP acquisition function of the DHCP client of the interface function was disabled.(No.44) 
- Fixed a bug that caused the connection status of the related interface to not be displayed properly when the wireless LAN access point was disabled.(No.45)  
- Fixed a bug that If DHCP client is set in the interface function, the value set in "mtu" will be used even though "dhcp4 mtu" is set to obtain the MTU of the DHCP server. (No.58)  

URLs for firmware for full updates

model	Referring URL
	<ul style="list-style-type: none"> • Application part* • 011JP Type https://(account):(password)@package.amnimo.com/firmware/ac15-011-2.3.0-b60511.amf
	<ul style="list-style-type: none"> • 061JP Type https://(account):(password)@package.amnimo.com/firmware/ac15-061-2.3.0-b60511.amf
	<ul style="list-style-type: none"> • Hardware control part* • 011JP Type https://(account):(password)@package.amnimo.com/firmware/ac15-modem-ME3630AC15V1.0B07-b51106.amf
	<ul style="list-style-type: none"> • 061JP Type https://(account):(password)@package.amnimo.com/firmware/ac15-modem-ME3630AC15V2.0B02-b59103.amf

* The firmware of AC15 and AC25 is the same.

Version 1.13.0 (September 29, 2023)

Functions have been added, improved, changed, and bug fixes have been implemented.


TARGET FIRMWARE (version)

- Application part (1.13.0)
- Hardware control part AC10 (1.0B06), AC15/25 (1.0B07) *No change




TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10
- amnimo C Series Indoor-Type Wireless LAN Compact Router AC15
- amnimo C Series Outdoor-Type Wireless LAN Compact Router AC25



FUNCTIONS ADDRED

- In the device management function, we have added a PoE control function from the cloud side. 

FUNCTIONAL IMPROVEMENTS



- Firmware update function has been improved.   

SPECIFICATION CHANGED




- The default “security type” of the wireless LAN access point function has been changed from "wpa2-psk-wpa3-sae-mixed-mixed"* to "wpa2-psk-wpa3-sae-mixed-a es" I changed it to.  

* Since TKIP is not supported in WPA3 Personal, "wpa2-psk-wpa3-sae-mixed-mixed" is a deprecated setting.




This setting will be removed in a future update.

- In the wireless LAN function, BMPS (Beacon Mode Power Save) has been disabled.  

BUG FIXES

- Regarding the CLI function, even if you set a value that causes an error when setting the route of the interface function DHCP, PPP, and mobile, the bug that may be enabled as the actual setting has been fixed. (No.36)   
- Fixed a bug in the CLI function that caused the command history of administrator mode and user mode to be common. (No.37)

URLs for firmware for full updates

model	Referring URL
	<ul style="list-style-type: none"> • Application Department* https://(account):(password)@package.amnimo.com/firmware/ac10-1.13.0-54492.amf • Hardware control unit* https://(account):(password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf
	<ul style="list-style-type: none"> • Application Department* https://(account):(password)@package.amnimo.com/firmware/ac15-1.13.0-b54490.amf
	<ul style="list-style-type: none"> • Hardware control unit* https://(account):(password)@package.amnimo.com/firmware/ac15-modem-ME3630AC15V1.0B07-b51106.amf

* AC15 and AC25 firmware are the same.

Version 1.12.0 (September 4, 2023)

Functions have been added to amnimo C series compact routers equipped with outdoor type

wireless LAN.

Specification changes and bug fixes have also been implemented.

TARGET FIRMWARE (version)

- Application part (1.12.0)
- Hardware control part (1.0B07)

TARGET DEVICE

- amnimo C Series Indoor-Type Wireless LAN Compact Router AC15
- amnimo C Series Outdoor-Type Wireless LAN Compact Router AC25

FUNCTIONAL IMPROVEMENTS (hardware control part)

- The initialization process of DIP switch control* has been improved.

* Neither AC15 nor AC25 currently provides a function that uses DIP switches, so there is no need to update.

SPECIFICATION CHANGED (Application part)

- The specification that is in the UP state when wlan1 of the interface is disabled has been changed to the specification that is in the DOWN state.
- When all bound interfaces of the bridge interface are in the DOWN state, the specification has been changed to the D OWN state.

BUG FIXES (Application part)

- Fixed a bug in interface settings that may fail when the interface setting is enabled after enabling the D HCP client setting. (No.24)
- Regarding the CLI function, the command string for generating P IN code for WPS function has been corrected from "p in generate" to "pin generate". (No.25)
- Fixed a bug that disabled the DHCP client disabled the static IP address when the DHCP client setting in the interface settings was enabled and a static IP address was set. (No.26)
- Fixed a bug that the action setting of P PP cutting in the schedule function did not work. (No.28)
- Fixed a bug that when multiple DHCP relays were used at the same time, IP was not issued to one of the clients. (No.30)
- Fixed a bug that allowed the related wireless LAN settings to be disabled on the wireless LAN interface where the DHCP server is set. (No.31)
- Fixed a bug that some DHCP client IPs were deleted when DHCP client settings were set on multiple interfaces. (No.32)
- Fixed a bug that after pressing the WPS execute button, a timeout error may occur in rare cases even if the connection is completed. (No.33)
- Fixed a bug that may cause an error when switching access points of wireless LAN stations. (No.34)

URLs for firmware for full updates

model	Referring URL
	<ul style="list-style-type: none"> • Application Department* https://(account):(password)@package.amnimo.com/firmware/ac15-1.12.0-b53324.amf
	<ul style="list-style-type: none"> • Hardware control unit* https://(account):(password)@package.amnimo.com/firmware/ac15-modem-ME3630AC15V1.0B07-b51106.amf

* AC15 and AC25 firmware are the same.

■ Version 1.10.0 (June 14, 2023)

amnimo C Series Wireless LAN Compact Router has been released.


TARGET DEVICE

- amnimo C Series Indoor-Type Wireless LAN Compact Router AC15

TARGET FIRMWARE (versions)

- Application part (1.10.0)
- Hardware control part (1.0B06)

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none">• Application part https://(Account):(Password)@package.amnimo.com/firmware/ac15-1.10.0-b46354.amf• Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac15-modem-ME3630ACV1.0B06-b43059.amf

Version 1.11.0 (June 30, 2023)

The functions have been added for amnimo C series Indoor-Type Compact Routers.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10


TARGET FIRMWARE (versions)

- Application part (1.11.0)
- Hardware control part (1.0B06) *No change

FUNCTION ADDED

- In the schedule type "general-control" of the schedule function, the functions to perform software reboot and hardware reboot by setting random execution waiting time and startup elapsed time have been added.

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none"> • Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.11.0-b49054.amf • Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

Version 1.9.3 (May 5, 2023)

The bugs have been fixed.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10

TARGET FIRMWARE (versions)

- Application part (1.9.3)
- Hardware control part (1.0B06) *No change

FUNCTIONAL IMPROVEMENTS

- The power failure resistance of the setting data storage process has been improved.


SPECIFICATION CHANGED

- The maximum number of SIM switches (100,000 times) has been lifted.

BUG FIXES

- Fixed an issue where, in rare cases, the Ethernet port remained in a link-down state even when connected to a LAN cable immediately after power start-up. (No.21)
- Regarding the interface settings of the GUI function, when updating the mobile module information with the refresh button, the information on the SIM 1 side was not updated. (No.22)
- Fixed an issue in the device management system where it could take up to 2 hours to activate a device from the cloud side. (No.23)

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none"> • Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.9.3-b44879.amf • Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

Version 1.9.0 (March 6, 2023)

The bugs have been fixed.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10

TARGET FIRMWARE (versions)

- Application part (1.9.0)
- Hardware control part (1.0B06) *No change

Function improved

- Improved the stability of the firmware update function.

BUG FIXES

- Fixed the bug in which when the mobile communication function is stopped after configuring the mobile communication settings (peer) and the session settings (session), if you delete the session settings of the mobile communication settings, an error will occur on the device information screen. (No.19)
- Fixed the bug in which if configuring the FQDN settings of the FQDN blacklist control of the proxy function, the URL whitelist control will be enabled unintentionally. (No.20)
- Fixed the bug in which the mobile line disconnection process will not work when the keep alive of the DMS function fails. (No.21)

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none">• Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.8.3-b36601.amf• Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

■ Version 1.8.1 (December 19, 2022)

The functions have been added and the bugs have been fixed.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10

TARGET FIRMWARE (versions)

- Application part (1.8.1)
- Hardware control part (1.0B06) *No change

BUG FIXES

- Fixed the bug in which downloading the configuration file fails. (No.15)
- Fixed the bug in which a communication error may occur when multiple filter settings are deleted at the same time. (No.16)

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none"> • Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.8.1-b34741.amf • Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

Version 1.8.0 (December 2022, 12)

The functions have been added and the bugs have been fixed.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10

TARGET FIRMWARE (versions)

- Application part (1.8.0)
- Hardware control part (1.0B06) *No change

FUNCTION ADDED

- Added the proxy server function
- Added the group authority setting function for accounts
- Added the alias definition settings to the DNS function
- Added the pass-through settings to the IPsec function


SPECIFICATION CHANGED

- If a number is used as the first letter of a user name when setting an account, it will be treated as an error. (No.2)

BUG FIXES

- Regarding the interface settings of the GUI function, the checkbox for "Invalid confirmation at startup" has been deleted. (No.9)
- Regarding the interface settings of the CLI function, fixed the bug in which after deleting the IP address, if you edit the relevant interface settings on the interface setting screen of the GUI function, the settings will not be displayed and cannot be edited. (No.11)
- Fixed the phenomenon in which after starting the DHCP server, "Can't create new lease file: Permission denied" will be output on a regular basis. (No.12)

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none"> • Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.8.0-b33331.amf • Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

Version 1.7.0 (September 30, 2022)

The functions have been added and the bugs have been fixed.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10

TARGET FIRMWARE (versions)

- Application part (1.7.0)
- Hardware control part (1.0B06) *No change

FUNCTION ADDED

- IPsec function
- DHCP relay function
- remote.it function


SPECIFICATION CHANGED · FUNCTIONAL IMPROVEMENTS

- PA1 of the temperature display has been deleted. (PA1 is not used.)
- Regarding the CLI function, the "manufacturer" column of the DHCP release information display has been deleted.
- Made a change not to use Web fonts. (When the mobile communication slows down, the font display will be delayed.)
- Added the network operator selection function for the mobile settings, and expanded the MTU setting range.
- Added the status column to the routing information display.
- Regarding the NAT and packet filter settings, added the esp/ah parameter setting and the source port number specification range used for dynamic SNAT.
- Changed the display specification so that an activated interface (in UP state) can be selected as an interface that can be selected by an interface option of the packet-dump command.
- Added a button for saving the current settings to the device on each setting screen.
- Fixed the time display caption on the time setting screen.

BUG FIXES

- Fixed the problem in which even if the time zone is changed, the change will not be displayed for the time settings of the schedule function. (No.1)
- Fixed the problem in which the starting time of AC10 is displayed wrongly on the history of Device Management System. (No.5)
- Fixed the problem in which if a file system different from the one of the actual storage is selected for [Add storage], an error dialog will be displayed. (No.6)
- Fixed the problem in which if updating the firmware of the hardware controller of the GUI function, an error will occur. (No.7)
- Regarding the interface settings of the CLI function, fixed the problem in which even if "no dhcp ntp" is set, the NTP server distributed from the DHCP server will be enabled. (No.8)

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none"> • Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.7.0-b28228.amf • Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

■ Version 1.6.1 (August 10, 2022)

The functions have been improved.

TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10


TARGET FIRMWARE (versions)

- Application part (1.6.1)
- Hardware control part (1.0B06)

Function improved · BUG FIXES

- Fixed the problem in which when the temperature control function is working, the syslog message will be output as about 40°C or higher.

URLs for firmware for full updates

Model	Referenced URL
	<ul style="list-style-type: none"> • Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.6.1-b24823.amf • Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-modem-ME3630ACV1.0B06-b26717.amf

■ Version 1.6.0 (July 15, 2022)

amnimo C Series Compact Router has been released.


TARGET DEVICE

- amnimo C Series Indoor-Type Compact Router AC10

TARGET FIRMWARE (versions)

- Application part (1.6.0)
- Hardware control part (1.0B05)

URLs for firmware for full updates



















Model	Referenced URL
	<ul style="list-style-type: none">• Application part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.6.0-b23553.amf• Hardware control part https://(Account):(Password)@package.amnimo.com/firmware/ac10-1.6.0-b23416-modem.amf







Chapter 2 Important Notices

This chapter describes the important notices when using this device.
































2.1 Restrictions and known problems



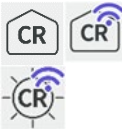





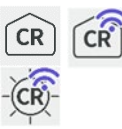
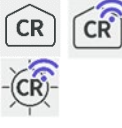
2.1.1 Restrictions and known problems related to the latest version












No.	Details	Range of influence	TARGET DEVICE
77	In the wireless LAN access point function, the security type is <ul style="list-style-type: none"> ● open ● open-wep128 ● open-wep64 ● shared-wep128 ● shared-wep64 is not displayed in the list view of devices connected to the access point, it may not appear in the list view of devices connected to the access point.	2.5.0~	 
76	The CLI function does not display poe settings when show config is executed in administrator or configuration mode.	1.12.0~	
75	When WPS connection is implemented with "wifi connect wps pbc" in the WPS setting of the CLI function, the LED of the wireless LAN blinks.	1.10.0~	 
74	In the wireless LAN access point function, "no channel short-guard-interval" cannot be disabled even if it is set.	1.10.0~	 
54	If you change the settings while the mobile function is enabled when setting up the mobile function, you may not be able to connect. → WORKAROUND Disable the mobile feature behavior, make a configuration change, and then enable the behavior.	1.6.0~ 2.3.0	  
50	When WPA3 is used as the security type for wireless LAN, it is rarely possible to connect. → WORKAROUND Same as N o.49.	1.10.0~	 
47	The wifi wps and user group settings are not displayed when show config is run in administrator mode or configuration mode with the CLI function.	1.6.0~	  
46	The time is not set even after setting 2000-01-01 00:00:00 in the GUI function and restarting.	1.6.0~	  


























No.	Details	Range of influence	TARGET DEVICE
18	<p>For accounts that belong to the added group setting, even if all of them are moved to another group, the added group setting cannot be deleted.</p> <p>→ WORKAROUND After deleting all of the accounts belonging to the added group setting, delete it.</p>	1.8.0~	 
14	<p>Even if you enter Ctrl+D when entering the initial password, you will not return to the login screen.</p> <p>→ WORKAROUND Reset the power supply.</p>	1.6.0~	 
10	<p>The automatic logout function of the account settings of the CLI function does not work.</p>	1.6.0~	 






2.1.2 List of BUG FIXES for the latest version










No.	Details	Range of influence	TARGET DEVICE
73	In the wireless LAN access point function, it may not be possible to communicate with the device whose MAC address is displayed in the list of devices connected to the access point.	1.10.0 to 2.3.0	 
72	In the mobile module function, the 3G fixed or 4G fixed setting function by rat service does not work.	1.7.0~ 2.4.0	  
71	Fail-safe function does not work when service startup process terminates abnormally.	1.6.0~ 2.4.0	  
70	In the packet capture function, an error occurs when executing packet capture when an IP address is not assigned, although the interface is UP as an interface.	1.6.0 to 2.4.0	  
69	The file numbers assigned to syslog message files when they are rotated may not be sequentially numbered.	1.6.0 to 2.4.0	  
68	In the wireless LAN access point function, the 5 GHz setting may not be reflected when switching to the separately set 2.4 GHz setting.	1.10.0 to 2.3.0	 
67	In the IP address setting of the mobile communication interface, communication may not be possible regardless of the same network address. *This is a limitation related to the hardware control part.	1.0B05~ 1.0B07,. 2.0B03	  
66	In the NTP function, the setting process may fail.	1.6.0 to 2.4.0	  
65	In the NTP function, the NTP server is restarted during link-up of interface functions not configured for sync-interface.	1.10.0 to 2.4.0	  
64	In the NTP function, if the NTP server is configured to synchronize with a specific interface link-up, the NTP server will continue to operate even if that interface is disabled.	1.10.0 to 2.4.0	  
63	The PMTU setting is reflected on all interfaces, not just the one that is set.	1.6.0 to 2.4.0	  










No.	Details	Range of influence	TARGET DEVICE
62	NAT/filter configuration process may fail.	1.6.0 to 2.4.0	
61	If the Ethernet port is linked down, the IP address is deleted.	1.6.0 to 2.4.0	
60	The Amnimo monitoring application device reboots after 10 minutes after the DHCP server failsafe is disabled from the enabled state.	2.3.0, 2.4.0	
59	In the interface function, a setting other than 100baseT-Auto can be selected for the link mode setting.	1.13.0 to 2.3.0	
58	Fixed a bug that If DHCP client is set in the interface function, the value set in "mtu" will be used even though "dhcp4 mtu" is set to obtain the MTU of the DHCP server.	1.6.0~1.13.0	
57	In the interface function, the link mode setting is fixed to 100baseT-Auto even if the setting is changed.	1.13.0 to 2.4.0	
56	In the PPP function, PPP connection does not stop even if the associated peer setting is deleted while PPP is connected. → WORKAROUND To stop the PPP connection, disable the PPP setting on the interface side.	2.4.0	
55	In the scheduling function, when PPP is manually connected, the system reconnects after PPP disconnection even if the action of PPP disconnection is set in general-control.	1.6.0 to 2.4.0	
53	If a firmware update is performed immediately after startup, the firmware update may fail. → WORKAROUND Please allow some time and perform the firmware update again.	2.3.0 to 2.4.0	
52	In the mobile interface function, if band 19 is used on a 3G line, it will appear as band 12 on the mobile line communication status display and log. *This is a limitation related to the hardware control part.	1.0B05~1.0B07, 2.0B03	

No.	Details	Range of influence	TARGET DEVICE
51	<p>In the wireless LAN function, when using W53 or W56 mode in the 5 GHz band, if there is no movable channel due to DFS radar, it will not output a radio wave and will not work.</p> <p>→ WORKAROUND</p> <p>Setting the bandwidth to 20 MHz makes it easier to secure a movable channel and reduces the frequency of this phenomenon.</p> <pre>amnimo(cfg)# wifi access-point amnimo-5G amnimo(cfg-wifi-ap-amnimo-5G)# show config enable band 5GHz ssid amnimo-5g-xxxxxxxxx channel mode w53 ← When channel mode is fixed to W53 channel width 20MHz ← Set the bandwidth to 20MHz.</pre>	1.10.0~ 2.3.0	 
49	<p>In the wireless LAN function, when using 2.4GHz and 5GHz at the same time[*], connection is rarely established.</p> <p>→ WORKAROUND</p> <p>Implement keep-alive for specific wireless LAN devices in the scheduling function, and implement settings to reset the wireless chip upon disconnection detection.</p> <pre>amnimo(cfg)# schedule keep-alive wifireset amnimo(cfg-sch-ka-wifireset)# show config no enable datetime * * * * * ← Check every minute action wifi ap wlan0 reset enable ← Reset wireless LAN chip ping dest 192.168.0.32 ← Wireless LAN device to check connection no ping source ping interval 3 ping count 3 no ping deadline ping timeout 10 ping delay 0 ping wait 3 failsafe reboot 3</pre>	1.10.0~ 2.3.0	 
48	Deleting PPP settings from the advanced settings in the GUI function does not stop PPP service.	1.10.0~ 2.4.0	 
45	Fixed a bug that caused the connection status of the related interface to not be displayed properly when the wireless LAN access point was disabled.	1.10.0, 1.12.0, 1.13.0	 
44	Fixed a bug that caused the NTP server list to remain in the NTP server list display when the NTP acquisition function of the DHCP client in the interface function was disabled.	1.6.0~ 1.13.0	  



No.	Details	Range of influence	TARGET DEVICE
43	When changing PPP parameters, "Failed to restore settings." Fixed the phenomenon that occurs.	1.10.0, 1.12.0, 1.13.0	 
42	Fixed a phenomenon that the DNS server may not start in rare cases.	1.6.0~ 1.13.0	  
41	Fixed a place where the failsafe value of the agent program of the device management system overlapped with the failsafe value of the schedule function.	1.6.0~ 1.13.0	  
40	Fixed an issue in the device management system where the activation process may not be completed due to a communication error between the device and the cloud while activating the device.	1.6.0~ 1.13.0	  
39	Fixed a bug that prevented communication from being possible even if one IP address was disabled when an IP address with the same network address was set in the chassis.	1.10.0, 1.12.0, 1.13.0	 
38	Fixed a bug that could not be set by omitting pkt-type in NAT settings and filter settings of the CLI function.	1.6.0~ 1.13.0	  
37	Regarding the CLI function, the command history of administrator mode and user mode is common.	1.6.0~ 1.9.3,1.11.0	
36	Regarding the CLI function, even if a value that causes an error occurs at the time of the route setting of DHCP, PPP and mobile of the interface function, it may be valid as an actual setting.	1.6.0~ 1.12.0	  
34	An error may occur when switching the access point of a wireless LAN station.	1.10.0	
33	After pressing the WPS execute button, a timeout error may occur even if the connection is completed.	1.10.0	
32	If there are DHCP client settings on multiple interfaces, the IP of some DHCP clients may be deleted.	1.6.0~ 1.11.0	 
31	On the wireless LAN interface where the DHCP server is configured, it is possible to disable the related wireless LAN settings.	1.10.0	

No.	Details	Range of influence	TARGET DEVICE
30	<p>When DHCP relay is used on multiple interfaces at the same time, IP is not issued to one of the clients.</p> <p>Example. In the following settings, IP is issued on the network-A side, but IP is not issued on the network-B side.</p> <pre> amnimo# show config dhcp-relay # ---- transition to configure mode ---- configure # ---- dhcp-relay network-A configure ---- dhcp-relay network-A enable listen wlan0 server 192.168.4.1 exit # ---- dhcp-relay network-B configure ---- dhcp-relay network-B enable listen br0 server 192.168.4.1 exit # ---- exit configure mode ---- exit </pre>	1.10.0	
28	<p>The action setting (disconnect ppp) of PPP disconnect in the schedule function does not work properly.</p>	1.10.0	
26	<p>If the DHCP client setting is enabled and a static IP address is set in the interface settings, the static IP address setting is not reflected when the DHCP client setting is disabled.</p>	1.10.0	
25	<p>For the CLI function, the string of the command for generating PIN code for the WPS function is "p in generate" (originally "pin generate").</p>	1.10.0	
24	<p>If the interface is disabled and the DHCP client configuration is enabled, the configuration may not be possible and an error may occur.</p> <pre> amnimo(cfg)# interface lan0 amnimo(cfg-interface-lan0)# no enable amnimo(cfg-interface-lan0)# no dhcp4 amnimo(cfg-interface-lan0)# dhcp4 amnimo(cfg-interface-lan0)# enable error: interface control failed: Service start failure. EL:3100 </pre> <p>➔ WORKAROUND</p> <p>Make sure to enable the interface before enabling the DHCP client settings.</p> <pre> amnimo(cfg-interface-lan0)# enable amnimo(cfg-interface-lan0)# dhcp4 </pre>	1.10.0	





























No.	Details	Range of influence	TARGET DEVICE
23	In the device management system, it may take up to 2 hours to activate the device from the cloud side. → WORKAROUND When activating the device, please restart the device after confirming the Internet connection.	1.5.0~ 1.9.0	
22	Regarding the interface settings of the GUI function, when updating mobile module information with the refresh button, the information on the SIM 1 side is not updated.	1.6.0~ 1.9.0	
21	Immediately after starting the power supply, in rare cases, the Ethernet port remains in the link down state even when the LAN cable is connected. → WORKAROUND The device can link up when external communication processing occurs via the Ethernet port, such as the keep-alive function.	1.6.0~ 1.9.0	
20	If configuring the FQDN settings of the FQDN blacklist control of the proxy function, the URL whitelist control will be enabled unintentionally. → WORKAROUND If configuring the FQDN settings of the FQDN blacklist, check the setting for enabling/disabling the URL whitelist control, and set it to disable.	1.8.0~ 1.8.1	
19	When the mobile communication function is stopped after configuring the mobile communication settings (peer) and the session settings (session), if you delete the session settings of the mobile communication settings, an error will occur on the device information screen. → WORKAROUND If the mobile communication is not used, delete the mobile communication not the session settings.	1.6.0~ 1.8.1	
16	A communication error may occur when multiple filter settings are deleted at the same time. → WORKAROUND Delete the filter settings one by one.	1.6.0~ 1.8.0	
15	Downloading the configuration file may fail. → WORKAROUND If the power supply to the device is turned off while downloading the configuration file, this error may occur.	1.6.0~ 1.8.0	
12	When starting the DHCP server, "Can't create new lease file: Permission denied" will be output on a regular basis.	1.6.0~ 1.7.0	
11	For the interface settings of the GUI function, the checkbox for "Invalid confirmation at startup" exists.	1.6.0~ 1.7.0	

No.	Details	Range of influence	TARGET DEVICE
9	Regarding the interface settings of the CLI function, after deleting the IP address, if you edit the relevant interface settings on the interface setting screen of the GUI function, the settings will not be displayed correctly and cannot be edited.  WORKAROUND If this error occurs, after adding the IP address by the interface setting function of the CLI function again, edit the interface settings of the GUI function.	1.6.0~ 1.7.0	
8	Regarding the interface settings of the CLI function, even if "no dhcp ntp" is set, the NTP server distributed from the DHCP server will be enabled.	1.6.0~ 1.6.1	
7	If updating the firmware of the hardware controller of the GUI function, an error will occur.	1.6.0~ 1.6.1	
6	If a file system different from the one of the actual storage is selected for [Add storage], an error dialog will be displayed.	1.6.0~ 1.6.1	
5	The starting time of AC10 is displayed wrongly on the history of Device Management System.	1.6.0~ 1.6.1	
4	When the temperature control function is working, the syslog message will be output as about 40°C or higher.  Even when a log is output, the NAND flash adopted to this product can be maintained for more than 10 years.	1.6.0	
1	Even if the time zone is changed, the change will not be displayed for the time settings of the schedule function. (The time zone for the schedule function has been fixed to UTC.)	1.6.0~ 1.6.1	

2.1.3 Restriction not modified

No.	Details	Range of influence	TARGET DEVICE
2	If a number is used as the first letter of a user name when setting an account, it will be treated as an error.  Usernames starting with a number are not recommended by custom. This restriction is set as a specification.	1.6.0~	

Revision History

Version	Date of issue	Revision details	TARGET DEVICE
1 st	July 15, 2022	Due to the release of the firmware V1.6.0.	
2 nd	August 10, 2022	Due to the release of the firmware V1.6.1.	
3 rd	September 30, 2022	Due to the release of the firmware V1.7.0.	
4 th	December 2, 2022	Due to the release of the firmware V1.8.0.	
5 th	December 19, 2022	Due to the release of the firmware V1.8.1.	
6 th	January 24, 2023	Added No.19 to the known problems.	
7 th	March 6, 2023	Due to the release of the firmware V1.9.0.	
8 th	May 25, 2023	Due to the release of the firmware V1.9.3.	
9 th	June 14, 2023	Due to the release of the firmware V1.10.0.	
10 th	June 30, 2023	Due to the release of the firmware V1.11.0.	
11 th	September 4, 2023	Due to the release of the firmware V1.12.0.	 
12 th	September 29, 2023	Due to the release of the firmware V1.13.0.	  
13 th	November 20, 2023	Corrected the release content of V1.13.0.	  
14 th	November 28, 2023	Removed No.29 as an unrelated problem for all firmware.	
15 th	January 25, 2024	Due to 016JP type release and firmware V2.3.0 releases.	 
16 th	January 29, 2024	Corrected the release content of V2.4.0.	
17 th	February 16, 2024	Added No.57,58 to the known problems.	  
18 th	May 15, 2024	Due to the release of the firmware V2.5.0.	  



Edge Gateway Series Release Notes
May 15, 2024 18th Edition

IM AMD06A91-01EN

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