

ADVANTECH PLMN Whitelist Router App User Guide

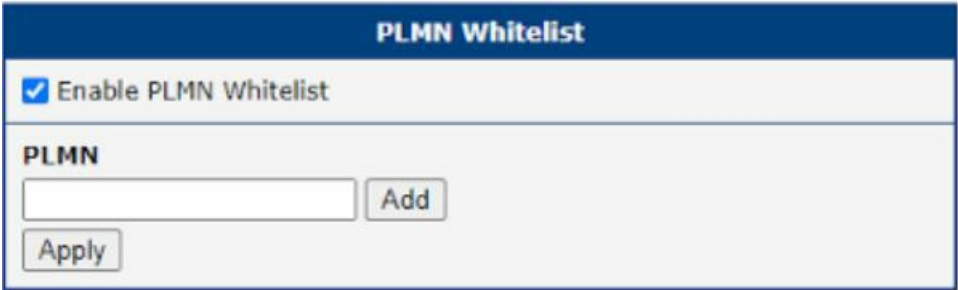
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ADVANTECH PLMN Whitelist Router App



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Used symbols



Danger – Information regarding user safety or potential damage to the router.



Attention – Problems that can arise in specific situations.



Information – Useful tips or information of special interest.



Example – Example of function, command or script.

Changelog

PLMN Whitelist Changelog

Item Description

- Enable PLMN Whitelist Enables PLMN Whitelist functionality.
- PLMN List of added PLMN items are displayed here.
- Table 1: PLMN Whitelist Config Items

v1.0.0 (2021-12-03)

- First release

Basic Information

PLMN

In telecommunication, a public land mobile network (PLMN) is a combination of wireless communication services offered by a specific operator in a specific country. A PLMN is identified by a globally unique PLMN code, which consists of an MCC (Mobile Country Code) and an MNC (Mobile Network Code). Hence, it is a five- to six-digit number identifying a country, and a mobile network operator in that country, usually represented in the form 001-01 or 001-001.

The Czech Republic has MCC 230 and MNCs for our operators are the following: In this router app the PLMN representation form drops the separating dash so for example T-Mobile PLMN would be 23001

MNC Operator

- 01 T-Mobile
- 02 O2
- 03 Vodafone
- 04 Nordic Telecom

Blacklist vs. Whitelist

Blacklisting, or delisting, is a security measure that keeps certain people, websites or programs from a computer or network. In other words, it refers to the practice of blocking unauthorized access to a system resource. A blacklist is a list of hosts that are not allowed to access a certain service, and this list is often used by antivirus software as well as firewalls. Whitelisting, or allowlisting, is a defensive measure, used to protect against malware and other malicious software. It works by allowing only trusted executables, applications and websites to run on an organisation's systems. Whitelisting is a cyber-security term that refers to the process of identifying and permitting safe content. It means blocking all other content from entering the network by default and then only permitting specific files that have been pre-approved.

Router App Description

Web Interface

After the Router App installation, the module's GUI can be invoked by clicking the router app name on the Router Apps page of router's web interface. The left part of this GUI contains a menu with a Customization menu section, a Troubleshoot menu section and an Administration menu section. The administration menu section contains only the Return item, which switches back from the module's web page to the router's web configuration pages. The main menu of the router app GUI is shown in the Figure below.

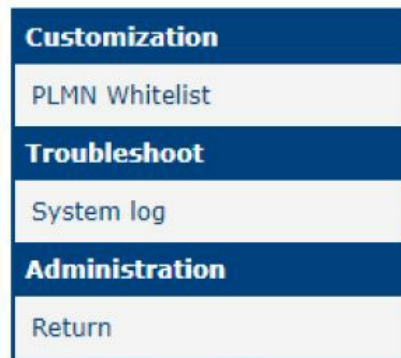


Figure 1: Menu

PLMN Whitelist

The customization menu section contains the PLMN Whitelist item where all the setting of this router app takes place. For adding another just type the PLMN into the textbox click add and then apply. There can be multiple PLMNs whitelisted. In the image below the T-Mobile, O2 is added and Vodafone is just being added.

PLMN Whitelist	
<input checked="" type="checkbox"/> Enable PLMN Whitelist	
PLMN	
<input type="text"/>	<input type="button" value="Add"/>
<input type="button" value="Apply"/>	

Figure 2: PLMN Whitelist

Item Description

- Enable PLMN Whitelist Enables PLMN Whitelist functionality.
- PLMN List of added PLMN items are displayed here.
- Table 1: PLMN Whitelist Config Items

System log

The system log section contains log messages.

PLMN Whitelist	
<input checked="" type="checkbox"/> Enable PLMN Whitelist	
PLMN	
23001	Delete
23002	Delete
23003	Add
Apply	

Figure 3: PLMN Whitelist

Related Documents

System Log	
System Messages	
2022-07-26 12:50:28	plmnWhitelist: Try PLMN: 23003
2022-07-26 12:50:29	mwan1d[20032]: started
2022-07-26 12:50:29	mwan1d[20032]: powering down
2022-07-26 12:50:35	mwan1d[20032]: powering up
2022-07-26 12:50:45	mwan1d[20032]: preparing
2022-07-26 12:50:57	mwan1d[20032]: selected SIM: 1st
2022-07-26 12:50:58	mwan1d[20032]: selected APN: gprs.agnep
2022-07-26 12:50:59	mwan1d[20032]: waiting for registration
2022-07-26 12:51:00	mwan1d[20032]: starting usbd
2022-07-26 12:51:00	usb1d[20292]: started
2022-07-26 12:51:00	usb1d[20292]: establishing connection
2022-07-26 12:51:04	usb1d[20292]: connection established
2022-07-26 12:51:04	usb1d[20292]: local IPv4 address 10.80.0.6
2022-07-26 12:51:04	usb1d[20292]: primary DNSv4 address 10.0.0.1
2022-07-26 12:51:04	usb1d[20292]: script /etc/scripts/ip-pre-up-mwan started
2022-07-26 12:51:04	bard[1365]: usb0 connection is available on mwan
2022-07-26 12:51:04	usb1d[20292]: script /etc/scripts/ip-pre-up-mwan finished
2022-07-26 12:51:04	usb1d[20292]: script /etc/scripts/ip-up-mwan started
2022-07-26 12:51:04	usb1d[20292]: script /etc/scripts/ip-up-mwan finished
2022-07-26 12:51:04	bard[1365]: backup route selected: "Mobile WAN"
2022-07-26 12:51:05	bard[1365]: script /etc/scripts/ip-up usb0 started
2022-07-26 12:51:05	dnsmasq[1859]: reading /etc/resolv.conf
2022-07-26 12:51:05	dnsmasq[1859]: using nameserver 10.0.0.1#53
2022-07-26 12:51:05	bard[1365]: script /etc/scripts/ip-up usb0 finished, status = 0x0
2022-07-26 12:52:29	plmnWhitelist: Correct operator
Save Log Save Report	

Figure 4: System log

You can obtain product-related documents on the Engineering Portal at [icr. Advantech. cz](http://icr.advantech.cz) address. To get your router's Quick Start Guide, User Manual, Configuration Manual, or Firmware go to the Router Models page, find the required model, and switch to the Manuals or Firmware tab, respectively. The Router Apps installation packages and manuals are available on the Router Apps page. For the Development Documents, go to the DevZone page.

Documents / Resources



[ADVANTECH PLMN Whitelist Router App](#) [pdf] User Guide
PLMN Whitelist Router App, PLMN, Whitelist Router App, Router App, App

References

- [A Advantech 4G, 5G Cellular Routers & Gateways for IoT applications - Engineering Portal](#)
- [A Advantech 4G, 5G Cellular Routers & Gateways for IoT applications - Engineering Portal](#)
- [A DevZone - Cellular Routers Engineering Portal](#)
- [A Router Apps - Cellular Routers Engineering Portal](#)
- [A Router Models - Cellular Routers Engineering Portal](#)
- [User Manual](#)