





USER GUIDE

cnArcher

System Release 1.0



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Cambium Networks	

About This User Guide

This document explains how to deploy the cnArcher along with important safety measures. It is intended for use by the system designer, system installer, and system administrator.

Purpose

Cambium Networks cnArcher documents are intended to instruct and assist personnel in the operation, installation, and maintenance of the equipment and ancillary devices. It is recommended that all personnel engaged in such activities be properly trained.

Cambium Networks disclaims all liability whatsoever, implied or express, for any risk of damage, loss or reduction in system performance arising directly or indirectly out of the failure of the customer, or anyone acting on the customer's behalf, to abide by the instructions, system parameters, or recommendations made in this document.

Cross-references

References to external publications are shown in italics. Other cross-references, emphasized in blue text in electronic versions, are active links to the references.

This document is divided into numbered chapters that are divided into sections. Sections are not numbered but are individually named at the top of each page, and are listed in the table of contents.

Feedback

We appreciate feedback from the users of our documents. This includes feedback on the structure, content, accuracy, or completeness of our documents. To provide feedback, visit our support website: https://support.cambiumnetworks.com.

Chapter 1: Introduction

cnArcher communicates with the SM LAN port through a wireless connection from the a mobile device to a wireless router.



Figure 1: cnArcher to SM communication

For the best installation ergonomics in the field, Cambium Networks recommends to use portable Wi-Fi AP with PoE such as the **LinkTechs PowerLINK**. The LinkTechs PowerLINK PoE is a compatible patch cable required for the device to communicate with the SM. Use 48V power converter for 450i SM installations.

Installers can also use a separate Wi-Fi AP (in **Bridge** mode) and power supply to communicate SM with cnArcher.

By default, cnArcher is designed for IP communication with default factory SMs containing the 169.254.1.1 IP address. Operators can also specify a custom IP address.

Preparing to use cnArcher in your network

To use cnArcher in your network, perform the following steps:

1. Acquire radio, network, and security settings.

Work with your network administrator to determine which radio, network, and security settings are used across networks and how sectors/towers are configured. These configurations and security credentials are essential to ensure that SMs configured by cnArcher, and ready to connect with APs in your network. Non-default SNMP community strings (for cnArcher read/write access to the device) can be configured in cnArcher UI (Settings > Community string).

2. Assemble cnMaestro credentials and configurations.

cnArcher is designed to automatically onboard new SMs to cnMaestro. Onboarding SM devices require the network **CAMBIUM_ID** and **Onboarding Key** are configured in cnArcher. If an On-Premises cnMaestro is a resident in the network, cnArcher supports both Cloud and On-Premises cnMaestro deployments.

3. Prepare the wireless router.

To support communication between cnArcher and the SM LAN port, the wireless router must be configured in the **Bridge** mode. In this mode, packets are forwarded between cnArcher and SM with no additional routing.

Chapter 2: Installing cnArcher

To download and install cnArcher, click the following links:

- For iOS https://apps.apple.com/us/app/cnarcher/id1401836635
- For Android https://play.google.com/store/apps/details?id=com.cambiumnetworks.cnMaestro.installer

Chapter 3: Initial Setup

cnMaestro setup

If cnArcher is used for first time, then the user must configure cnMaestro (if applicable), radio scanning parameters, and downloaded SM software package. After initial setup is complete, the configuration can be updated at any time by navigating to the **Settings** menu.

cnMaestro configuration

To configure cnMaestro, perform the following steps:

1. Select your cnMaestro deployment type or select No as shown in "cnMaestro configuration" below.

lf you war without us <u>Demo Mo</u>	It to explore ing real ha <u>de</u> .	e the function rdware, plea	nality of cnArcher se use the PMP
Do you us	e cnMaest	ro?	
O Yes, o	nMaestro o	cloud	
O Yes, o	nMaestro o	on premises	
O No			
Select account the ne	t "No" if you Int, even if o etwork.	u don't have cnMaestro is	a cnMaestro used to manage
لََّا Cor	ıfigure cnAı	rcher, please	<u>Scan it Now</u> .
		NEXT	

Figure 2: cnMaestro configuration

- cnMaestro cloud configuration An internet connectivity for the mobile device is required.
 - i. Enter and validate cnMaestro User credentials.
 - ii. Configure CAMBIUM_ID and Onboarding Key.

The user credentials must match with the user credentials created in cnMaestro, refer to Users section in *cnMaestro User Guide*.

The Onboarding Key should be pre-configured in cnMaestro, and this is based on the user credentials, refer to *Onboarding / Claim Device* section in *cnMaestro User Guide*.

• cnMaestro On-Premises configuration - Mobile device internet/network connectivity to On-Premises cnMaestro server is required.

Enter cnMaestro server URL, user credentials, and configure Onboarding Key and then validate.

2. Click Next.

Device selection

cnArcher supports the following devices:

- PMP
- ePMP
- cnRanger

Select the required device and click Next.

🥕 cnAi	rcher
Please select the device type	to configure Scan List.
O ePMP	
🔘 cnRanger	
SKIP	NEXT
⊲ 0	

Figure 3: Device selection

Radio configuration for PMP and ePMP

To configure the radio for PMP and ePMP devices, perform the following steps:

- 1. Select Configure Scan List.
- 2. Select channel frequencies and bandwidths applicable to overall network.

Configure Scan List
Set the PMP SM's channel scan list
5.7GHz 0 Channels
5.4GHz O Channels
5.20Hz 0 Channels
5.1GHz O Channels
4.9GHz 0 Channels
3GHz O Channels
2.4GHz 0 Channels
900MHz 0 Channels
DONE
< 0 □

Download the software image

Download the software image to upgrade cnArcher SMs. Internet connectivity for the mobile device is required to download the software image.

Software Images		
Download the software images y	rou want to use.	
PMP CANOPY 15.1.1 Not Downloaded		ŧ
PMP CANOPY 15.1.2 Downloading 37%		0
	NEXT	

Configuring Wi-Fi

Configure cnArcher to manage the Wi-Fi connection or configure the connection manually.

In Android phone

Configure Wi-Fi is supported only in Android 10 version and lower devices. cnArcher is not managing Wi-Fi for Android 10 and above. For users with the Android 10 version and above, configure Wi-Fi from the Android settings. Perform the below steps to configure Wi-Fi:

1. Go to Android Wi-Fi settings.

← Configure Wi-Fi
Let cnArcher manage Wi-Fi
Please select SSID below. cnArcher will configure a static IP when it needs to talk to the SM, and switch to DHCP when it needs to talk to cnMaestro.
Rescan WI-Fi SSIDs
SSID
Select One
Wi-Fi Password
Wi-Fi Password
Static IP
169.254.1.37
CONNECT
Connected to : Home
cnArcher is not managing Wi-Fi
Skip Wi-Fi Setup

- 2. Select SSID.
- 3. Select **Static** for IP settings.
- 4. Set IP address to 169.254.1.x network (other than 169.254.1.1 as SM is access through this IP).
- 5. Set Gateway to 169.254.1.1.

6. Set DNS to 192.168.0.1.



In iOS

With Android, the application is able to control the Wi-Fi settings for the user. But on iOS, it is not possible to control the Wi-Fi settings. To configure Wi-Fi, perform the below steps:

- 1. Go to **iPhone Wi-Fi** settings.
- 2. Select the dongle interface.
- 3. Change **Configure IP** from automatic to manual.
- 4. Set IP address to 169.254.1.x network (other than 169.254.1.1 as SM is access through this IP).
- 5. Set Subnet Mask to 255.255.255.0.

6. Set Router value to **192.168.0.1**.

< Back	Configure IPv4	Save
Automatic		
Manual		
BootP		
MANUAL IP		
IP Address	16	69.254.1.33
Subnet Mask	255	5.255.255.0
Router		192.168.0.1

Chapter 4: Software Upgrade

Software upgrade is supported only for PMP and ePMP devices. Click **Download** to upgrade the SM software.

Home screen

≡ Home		
	SCANNING 🕦	
Product	PMP 450 SM 5.7 GHz	
MSN	6069PG0KYE	
ESN	0A-00-3E-A0-A6-77	
Software	CANOPY 16.2 SM	
Reconstruction Second	e External Antenna Bi internal gain. ange	
Ready to configure the scan list on the SM. You can change the scan list by going to <u>Settings</u> .		
CONF	GURE SCAN LIST	

Figure 4: Home screen

The required software version for ePMP and PMP are **3.5.2** and **15.2** respectively.

Software download

Latest software packages are downloaded to the mobile device (if not download previously). The user can select the beta software from phone storage. The released software can be downloaded through cnArcher. Click download icon ($\stackrel{\clubsuit}{}$) to download the software package.

← PMP Software Images	С
I Tap here to choose beta softwar from phone storage	e image file
DELETI	
Download the software images you v	vant to use.
PMP CANOPY 20.2.2.1 📩 Not Downloaded	Ŧ
PMP CANOPY 20.2.1 🏠 Not Downloaded	±
PMP CANOPY 16.2.3.1 🏠 Not Downloaded	±
PMP CANOPY 16.1.11 🏠 Not Downloaded	±
PMP CANOPY 16.0.1.1 🏠 Not Downloaded	±
< ○	

Figure 5: Software download

SM connection and upgrade

After the software download, connect mobile Wi-Fi with cnArcher dongle to upgrade the device.

Upgrade Software	(;
Please reconnect to SM WiFi. C RETRY	

Figure 6: SM connection and upgrade

Chapter 5: cnArcher SM Installation Sequence

The installation and upgrading of SM are supported in both Android and iOS operating systems.

PMP/ePMP SM installation sequence

To install PMP/ePMP SM, perform the following steps:

Home screen

Note

Ready to configure the scan list on the SM. The user can change the scan list by navigating to **Settings** page.

≡ Home	
	SCANNING 🗊
Product MSN	PMP 450 SM 5.7 GHz 6069PG0KYE
ESN	0A-00-3E-A0-A6-77
Software	CANOPY 16.2 SM
Ready to config can change the	IBi internal Antenna IBi internal gain. lange ure the scan list on the SM. You scan list by going to <u>Settings</u> .
CONF	GURE SCAN LIST

Figure 7: Home screen

SM configuration

All SM configuration is consolidated to a single screen, where the user can configure security, color code or SSID, and IP configuration.

Security None Pre-shared key AAA
Radio
Color code
IP Configuration
SM Name
SM Height (Meters) from ground level
NAT
IP Settings DHCP •
Management VLAN
User Data VLAN
NEXT

Figure 8: SM configuration

AP evaluation

Adjust the SM location and re-evaluate if necessary. DHCP option 66 configuration may prohibit SM LAN access upon registration. The user can manually enter the color code for PMP or preferred AP SSID for ePMP without performing **AP evaluation**. This picks up the list of APs already available on the SM and displays the results faster. The user can restart AP evaluation (if required) that performs AP scan in the SM.



Figure 9: AP evaluation

Nearby APs

Nearby APs are displayed on maps where the user can view the relative location of the AP with respect to GPS location of the phone. The user can calibrate the mobile device to locate the relative position of the AP with respect to the location. Nearby towers are available if cnMaetro is configured and cnArcher displays the nearest visible APs as shown in "Nearby APs" below.



Figure 10: Nearby APs

Alignment

Note

After connecting to an AP, cnArcher displays an **Alignment** page to finalize SM positioning adjustments. To get the best performance of link, the user must ensure that the **Receive Power Level** is maximum during alignment by pointing correctly.



Proper alignment is important to prevent interference in other cells.

≡	Alignment		
Ø	Color code : 99		
	Best	Current	
	-22 .2 🕙	-22 .2	
	dBm	dBm	
-10	Signal Strength	Ratio : 1.0 dBm	
-20			
-30			
-50			
-60			
-70			
-90 📕 C	urrent dBm 📕 Best dBm		
		đ	
	RUN LIN	IK TEST	



Tips for alignment

- By adjusting the angle of the SM slowly, sweep through the appropriate adjustment angles at least two times to get the current receive power level equal to close to the best receive power level.
- The Signal Strength Ratio (SSR) displays the ratio of the vertical radio path received signal power to the horizontal radio path received signal power. This ratio can be useful for determining multipathing conditions (high vertical to horizontal ratio) for the uplink. Multipath may increase or decrease the signal level, resulting in overall attenuation that may be higher or lower than that caused by the link distance. This is problematic at the margin of the link budget, where the standard operating margin (fade margin) may be compromised.



Attention

Use **Quick Align** mode to re-align and test a previously installed link. Access Quick Align mode through the tri-bar (Ξ) menu.

Link Test

The Link Test page allows the user to measure the throughput of the radio link between two modules.

≡ Link Test		DEMO MODE
0	Registered	
8	Color code : 36 5550.0 MHz @ 10MH	iz I
± Downline	τ.	1 Uplink
76.4	tos	23.8 _{Max}
n/a		6X
Livis Test Type Extranolated Link Test		
Excaporated Entry Test		
	C RUN AGAIN	
T History		
Time	Downlink	Uplink
12:43 PM	76.4	23.8
12:42 PM	77.4	25.3
12:42 PM	76.8	26.2
12:42 PM	73.7	25.8
12:42 PM	77.2	21.4
12:42 PM	73.3	24.2
	DONE	
4	0	

Figure 12: Link test



Notes

cnMaestro conducts the Link Test with a packet length configuration of 1522 bytes.

The Link Test tool has two modes:

Extrapolated Link test

This test estimates the link capacity by sending a small number of packets then measuring link quality. Once the test is initiated, the radio starts the session at the lowest modulation level and modulates up as data is successfully passed over the link (until the highest possible modulation level supported by the link is reached). Cambium Networks recommends running an Extrapolated Link Test on an active link with traffic present to get accurate measurements.



Note

Running the Extrapolated Link Test immediately after establishing a session does not provide an accurate results.

• Link Test with Bridging

This test bridges the traffic to simulated Ethernet ports to provide a status of link as a whole.

cnMaetsro onboarding

The user can perform the software upgrade and apply the template configuration while onboarding.

Scanning for SM 🕕	
MAC Address : 0A:00:3E:A0:A6:77 Comments	
Firmware version No change	•
Template No change	•
ONBOARD DEVICE NOW	

Figure 13: Device which is not onboarded in cnMaestro

≡ cnMaestro Onboarding
Scanning for SM 🚯
MAC Address : 0A:00:3E:A0:A6:77 Current Status : Already OnBoarded
No change 🔹
SM is already onboarded in cnMaestro
APPLY CONFIGURATION
INSTALLER NOTES

Note

Figure 14: Device which is already onboarded in cnMaestro



For cnMaestro onboarding, an internet connection is required.

Finish Installation

The **Installation Summary** displays the detailed summary of installation. Click **Detailed Summary** option from bottom of the screen to view the detailed summary.

Color code : 99 5860.0 MHz @ 10MHz		
The installation is complete.		
 Customer ID : 0A-00-3E-A0-A6-77 Customer Name : xxxxxxxxx Device Name : xxxxxxxxx Device Location : 11.9782036,75,7688252 External Antenna : No External Antenna Security : AAA IP Configured : DHCP 		
DONE		

Figure 15: Installation Summary screen

cnRanger SM installation sequence

To install cnRanger SM, perform the following steps:

Home screen

To scan the SM, click **START** in **Home** page.

≡ Home	
	Connected 1 PCI : 105 2650.0 MHz @ 20
Product MSN ESN IMEI Software	2GHz cnRanger 101 L6UK003BR87B 58:C1:7A:2D:3E:18 352971100001003 2:11.0-b7 IMSI: 901700000014490
	START
•	•

Figure 16: Home screen

SM configuration

All SM configuration is consolidated to a single screen, where the user can configure security, color code or SSID, and IP configuration.

10:07 🖻 🗂 🔕	•	2∎
≡ SM Con	figuration	
	Connected 1 PCI : 105 2650.0 MHz @ 20	
Configuration Host Name Cambium		
Bridging	0	
Radio		٦
enter preferr	ed PCI	:
	Scan for APs	stro)
	NEXT	
•	• •	

Figure 17: SM configuration

AP evaluation

The user can manually enter the Physical Cell Identity (PCI) without performing **AP evaluation**. Adjust SM location and re-evaluate if necessary.

≡ АР	Scan Results	
	Connected D PCI: 105	
	2650.0 MHZ @ 20	
F	PCI : 115	
PLMN :	40445	-8
2347 M	nz @ 3 Mhz	dBm
🗣 Eval	1	
ADD CE	LL TO PRIORITY LIST	
F	PCI : 115	
÷		
PLMN :	40445	-7.3
2362 M	hz @ 3 Mhz	dBm
🗣 Eval	1	
ADD CE	L TO PRIORITY LIST	
F	PCI : 105	-1
÷		
PLMN :	00101	-9.3
2650 M	hz @ 4 Mhz	dBm
Seval 🕒 Eval	1	
	•	

Figure 18: AP evaluation

Alignment

Note

After connecting to an AP, cnArcher displays an **Alignment** page to finalize SM positioning adjustments. To get the best performance of link, the user must ensure that the **Receive Power Level** is maximum during alignment by pointing correctly.



Proper alignment is important to prevent interference in other cells.

	E Alignment			
	Conn PCI : 2650.0 M	Connected 1 PCI : 105 2650.0 MHz @ 20		
	Best -56.86 dBm	Current -56.91 dBm		
	Signal Strength	Ratio : -0.6 dBm		
-40				
-60				
-80				
-100				
-120	Current dBm 📕 Best dBm			
	PROC	CEED		
	• •			

Figure 19: Alignment

Tips for alignment

- By slowly adjusting the angle of the SM, sweep through the appropriate adjustment angles at least two times to get the current receive power level equal to close to the best receive power level.
- The Signal Strength Ratio (SSR) displays the ratio of the vertical radio path received signal power to the horizontal radio path received signal power. This ratio can be useful for determining multipathing conditions (high vertical to horizontal ratio) for the uplink. Multipath may increase or decrease the signal level, resulting in overall attenuation that may be higher or lower than that caused by the link distance. This is problematic at the margin of the link budget, where the standard operating margin (fade margin) may be compromised.



Attention

Use **Quick Align** mode to re-align and test a previously installed link. Access Quick Align mode through the tri-bar (\equiv) menu.

Finish Installation

The **Installation Summary** displays the detailed summary of installation. Click **Detailed Summary** option from bottom of the screen to view the detailed summary.

Color code : 99 5860.0 MHz @ 10MHz		
The installation is complete.		
 Customer ID : 0A-00-3E-A0-A6-77 Customer Name : xxxxxxxxx Device Name : xxxxxxxxx Device Location : 11.9782036,75.7688252 External Antenna : No External Antenna Security : AAA IP Configured : DHCP 		
DONE		

Figure 20: Installation Summary screen

Chapter 6: Quick Align

Quick Align helps user to set SM better aligned with AP. This process takes user with alignment and SM link test steps. An option to perform AP evaluation again is also given. This is supported for **PMP**, **PTP**, **ePMP**, and **cnRanger** devices. Android operating system supports **PTP**, **PMP**, and **ePMP** devices. iOS supports only **PMP** and **ePMP** devices. This is performed on SM that are installed previously. Use **Quick Align** mode to re-align and test a previously installed link. Access **Quick Align** mode via the tri-bar (\equiv) menu in cnArcher.



Note

The $\ensuremath{\textbf{Quick Align}}$ is supported for both Andriod and iOS operating systems.

Chapter 7: Apply Staging Configuration to SM

Create a configuration template for PMP SM or ePMP SM and set the description to **cnArcher_Initial_ Configuration**. cnArcher downloads and cache this configuration template. Installer can now apply **Initial Configuration** to the SM before starting the installation. This feature is supported for PMP and ePMP devices.



Figure 21: Apply Staging Configuration to SM

Chapter 8: Onboarding

cnPilot and cnRanger SIM pack onboarding is now supported by cnArcher.



Onboarding is supported only in Android operating system.

← Claim
Serial No/MSN
Locate Serial Number for cnPilot E
We can burn networks: Lawtan, TRITURA Note: Note
CLAIM

Note

Figure 22: Onboarding

Chapter 9: Spectrum Analysis

The integrated spectrum analyzer is a useful tool for troubleshooting and RF planning. This feature is supported only for PMP devices.

P

Note

Spectrum Analysis is supported only in Android operating system.



Figure 23: Spectrum Analysis screen

Chapter 10: Work Orders

Work orders aggregates all information about customers, devices, and deployment records for the installer.

This information can be used for:

- Displaying open work orders sorted by distance
- Viewing completed installations, including configured parameters and installation time
- Navigation to the installation site.

Create work orders

- 1. Scan the work order QR code using the device camera. Generate cnArcher work order QR codes from https://www.cambiumnetworks.com/cnarcher-workorder/
- 2. Manually enter the work order details.



- 3. Navigate to the site and start the installation.
- 4. Click **Start Install** in work order to start the installation for each work order or by select the checkbox next to the customer name in the **Home** screen.

The SM installations associated with a work order displays the work order icon () at the topright.

5. Verify and share the installation results .

The installation summary contains information about all of the SM configuration parameters and

installation.

← Installation Summar	y .	<
Customer Info		
Customer ID	Customer 1	
Customer Name	John Smith	
Address	3800 Golf Road, Rollimg Meadows, II	
Phone	11234567890	
SM Info		
Product	PMP 450 SM 900 MHz	
MSN	6069RU14EA	
MAC	0A-00-3E-45-FC-63	
Software Version	CANOPY 15.1.2 SM-DES	
External Antenna	No External Antenna	
Device Name	SM1	
Time & Location		
Latitude	40.8275164	
Longitude	-87.764701	
Install Complete Time	May 28, 2018 7:08:57 PM	
Install Duration	00:09:29	
Security		
Security Config	None	
Encryption	DES	
Link Test		
Mode	Extrapolated	
Downlink		
Throughput	24.5 Mbps	
Modulation	n/a	
Received Power	-60.0dBm	
Signal Strength Imbalance (V-H)	0.0	
\bigtriangledown	0 0	

Note

Create work order feature is supported for both Android and iOS operating systems.

Work order modes

There are two work order modes in cnArcher:

- Editable work order
- Automated work order



Figure 24: Work order modes

Editable work order

SM configuration parameter settings are automatically populated by the work order, and editable by the installer.

Automated work order

SM configuration parameter settings are not editable by the installer. All the SM configuration parameters are applied by the current work order.

Chapter 11: cnArcher Demo Mode

cnArcher Demo Mode feature is used to step through the cnArcher installation sequence without physically installing the SM equipment. To access Demo Mode, click tri-bar (\equiv) menu in cnArcher.

n Archer		
If you want to explore the functionality of cnArcher without using real hardware, please use the PMP Demo Mode.		
Do you use cnMaestro?		
O Yes, cnMaestro cloud		
O Yes, cnMaestro on premises		
○ No		
Select "No" if you don't have a cnMaestro account, even if cnMaestro is used to manage the network.		
If the administrator has sent you a QR code to configure cnArcher, please Scan it Now.		
NEXT		
< ○ □		

Figure 25: Demo mode access from initial set up



Figure 26: Demo Mode access from side navigation bar

Chapter 12: Settings

Settings page helps user to configure cnMaestro, ePMP/PMP radio settings, and import/export cnArcher configuration. This is supported for both Android and iOS operating systems. The user can modify the following settings:

- cnMaestro settings
- PMP/ePMP settings
- App settings
- Advanced settings

← Settings
PMP SETTINGS
Scan List Choose Bandwidth and Frequency of SM to configure.
PMP SM Security None
PMP Software Images For SM software upgrade
Installer Username Tap to change installer username
Installer Password Tap to change installer password
EPMP SETTINGS
Scan List Choose Bandwidth and Frequency of SM to configure.
ePMP SM Security None
ePMP Software Images For SM software upgrade
Installer Password Tap to change installer password
APP SETTINGS
Import Configuration Import other user configuration to config cnArcher
DONE

Figure 27: Settings

cnMaestro settings

cnMaestro settings are allowed with Cloud/On-Premisess settings. The user must configure **Cambium ID** and **onboadring key** for Cloud onboadring.

PMP/ePMP settings

These **PMP/ePMP settings** allows the users to perform the following settings:

- Modify or verify the scan list configuration from Settings.
- Supports PMP/EPMP software download for SM upgrade.
- Set or modify the security setting. PMP supports **None, Pre-Sharedkey** and **AAA**. ePMP supports **None, WPA2** and **AAA**.
- Set custom username and password of ePMP and PMP SM. The default username and password is **admin**.

App settings

Use cnArcher **Export Configuration** and **Import Configuration** to share the configuration with other installers.

The **Export Configuration** function creates a **JSON text file** that can be converted to a QR code later. This QR code can be scanned by using the **Import Configuration** function.

Consider using a website such as <u>http://goqr.me/</u> to create the QR code. Copy the text exported from cnArcher to create the QR code.

Note

The large non-contiguous SM scan lists may create large export files. If these files are converted to QR codes, then it may cause some difficulties in scanning the QR code.

Upon import, cnArcher overwrites current settings with the configuration imported through QR code

Advanced settings

The user can modify the SM LAN IP(default 169.254.1.1), http port (default 80) and SNMP community string using the **Advanced** option.

Chapter 13: Troubleshooting

If a problem occurs, attempt to answer the following questions:

- If SM is not accessible through cnArcher
 - Open Wi-Fi settings and check Wi-Fi is connected to your desired Wi-Fi dongle
 - If mobile data is ON, turn it OFF and try again
 - Open any browser and check if you are able to access the SM web page using 169.254.1.1 (SM IP address).
- If SM is not getting registered
 - Verify your security settings
 - Verify scan list configured in cnArcher settings.

Chapter 14: Report a Bug

Report a Bug is used to send a bug report. To send the report, click **Report a Bug** option from the tri-bar (\equiv) menu.



Note

Report a Bug is supported for both Android and iOS operating systems.

← Send Bug Report		
Feature/Screen	(Optional)	
What cnArcher screen or functi problematic?	on is	
Comments	(Optional)	
Help us understand what is not as expected?	working	
Cambium Support Ticket #	(Optional)	
Working with customer support existing ticket # (i.e. 191xxx)	? Enter	
CnArcher_logs.txt		
SEND		

Figure 28: Send Bug Report

Cambium Networks

Cambium Networks provides professional grade fixed wireless broadband and microwave solutions for customers around the world. Our solutions are deployed in thousands of networks in over 153 countries, with our innovative technologies providing reliable, secure, cost-effective connectivity that's easy to deploy and proven to deliver outstanding performance.

Our award-winning Point to Point (PTP) radio solutions operate in licensed, unlicensed and defined use frequency bands including specific FIPS 140-2 solutions for the U.S. Federal market. Ruggedized for 99.999% availability, our PTP solutions have an impeccable track record for delivering reliable high-speed backhaul connectivity even in the most challenging non-line-of-sight RF environments.

Our flexible Point-to-Multipoint (PMP) solutions operate in the licensed, unlicensed and federal frequency bands, providing reliable, secure, cost-effective access networks. With more than three million modules deployed in networks around the world, our PMP access network solutions prove themselves day-in and day-out in residential access, leased line replacement, video surveillance and smart grid infrastructure applications.

Cambium Networks solutions are proven, respected leaders in the wireless broadband industry. We design, deploy and deliver innovative data, voice and video connectivity solutions that enable and ensure the communications of life, empowering personal, commercial and community growth virtually everywhere in the world.

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