

Cassia M2000 User Manual

Official Version 2025/03/14



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1.Overview

M2000 is a compact Bluetooth gateway that supports 4G and Wi-Fi connectivity. It is easy to install and use and has excellent Bluetooth performance. Additionally, it is cost-effective, stable, secure, and scalable. M2000 is part of Cassia Network's enterprise-level Bluetooth gateways and can be managed through the Cassia Network's Access Controller (AC). M2000 is ideal for situations that require mobility and rapid deployment, but do not need high Bluetooth device density. It is commonly used for monitoring mobile vital signs, remote healthcare at home, and for monitoring vehicle assets. Moreover, M2000 has robust applications in supply chain management, as well as for people and asset tracking on campuses and medical institutions.

Notes for the M2000 official version:

- SIM card is not included in the M2000.
- The cellular connection with NB-IOT has very limited bandwidth (<5Kbps) and high network latency (1.6s-10s), so M2000 firmware will need to be further customized in the future to work in this case.
- AC software needs to be upgraded to the following Cassia-AC-2.2.0.24 version to support M2000.
- AC software and M2000 firmware are available at: https://www.cassianetworks.com/support/ knowledge-base/
- M2000 GA firmware cannot be upgraded on M2000 beta hardware.

2.Local Console

2.1 Login

01. Please record the last six digits of the MAC address on the back of the M2000 chassis.



- 02. Connect to the M2000's Wi-Fi hotspot using a computer or mobile phone.
- The hotspot's name is cassia-xxxxx.
- The password is the same as the name, cassia-xxxxx xxxxx is the last six digits of the M2000's MAC address.



For instance, if the MAC address of an M2000 is CC:1B:E0:E3:0D:8C, both the Wi-Fi hotspot name and password are cassia-E30D8C.



03. After connecting to the M2000's Wi-Fi hotspot, open a web browser and enter 192.168.40.1 into the address bar. You will be prompted to enter a username and password. The default username is admin, and the password is admin.

5	Cassia
Username	
Password	
	Login

2.2 Status

01. Upon successful login, you will be able to view the basic M2000 information on the 'Status' page, including its MAC address and the IP address.

Status	ton Fig	Service	 Other
Status	Contrig	Service	other
Status			
Model			
M2000			
мас			
CC:1B:E2:E0:10:0C			
Wi-Fi IP			
192.168.80.158			
Cellular IP			
0.0.0.0			
Firmware Version			
2.2.0.2402211829			
Uptime			
50sec			
AC Online Time			
25sec			
AC Server Address			
112.126.95.79			
	Copyright © C	Cassia Networks	



2.3 Configuration

2.3.1 Using 4G to connect to the network

01. Insert the Micro SIM card into the M2000.

Refer to the diagram below. Make sure that the beveled corner of the SIM card is facing the lower left corner.



02. Connect the USB power supply to the M2000.

After 30 seconds, the M2000 will finish booting up and connect to the carrier's 4G network. The SYS light and 4G light will both turn solid.



03. To connect with the AC server, go to the Configuration page on the M2000 local console.

Enter the AC address (only AC version Cassia-AC-2.2.0.24 supports M2000) and click Apply. The AC version is available at: *https://www.cassianetworks.com/support/knowledge-base/ac-server-software/*



Status	Config	Service	 Other
Basic			
Tx Power		1	
19			~
Access Control AC Address	ler		
112.126.95.79			
Hotspot Hotspot Mode	-2		
Disable			~
Wi-Fi(2.4Ghz o Client Mode	nly)		
Disable			~
Celluar Modem APN			
Apply	3		

Please get in touch with your AC administrator to check if the M2000 is showing online on the AC.

Notes:

- When inserting the SIM card, make sure that the beveled corner of the SIM card is facing the lower left corner, as shown in the diagram above.
- When inserting the SIM card, push it in with your fingernail or the tip of a pen until it is held in place by the slot.
- When removing the SIM card, push it in with your fingernail or the tip of a pen until it pops out.

2.3.2 Using Wi-Fi to connect to the network

- 01. Click on the Configuration page first, enable Wi-Fi client mode, and complete SSID and other settings based on your Wi-Fi router information. For example, set the Security Mode to WPA2-PSK, enter the password, and click save.
- 02. To connect with the AC server, enter the AC address (only the 2.2.0 AC version supports M2000) and click Apply.



Status	Config	Service	 Other
	1		
Basic Tx Power			
3			~
Access Control	Ler		
112.126.95.79			
Wi-Fi Client Mode	2		
Enable			~
SSID			
lab_2g	8		
Security Mode			
NPA2-PSK			~
Password			
•••••			
IP Allocation			
DHCP			~
DNS1			
DNS2			
Celluar Modem			



After 30 seconds, the M2000 will finish booting up and connect to the AC server. Please get in touch with your AC administrator to check if the M2000 is showing online on the AC.



Notes:

 M2000 can only connect to the internet through the 2.4Ghz Wi-Fi router and does not support 5Ghz Wi-Fi router.

2.4 Service

The M2000 MQTT Bypass Service can route BLE advertising packets directly to the MQTT server by configuring MQTT and scanning setting information in the Service tab.



Status	Config	O Service	 Other
Overall			
Service Access			
mqtt			
Data Push Interval(m	ns)		
100			
Data Cache Size(pack	(ets)		
20			
мотт			
Host			
Port			
Connection Type			
Long			~
User Name			
Password			
Topic			
Qos			
At most once (0)			v
Encryption Mode			
None			v
Scan Setting			
Scan Mode			
OFF			~
Name Filter			
e.g. Cassia_AP,Cassia*,*C	Cassia		
MAC Filter			
e.g. CC:1B:E0:E0:00:01,CC	C:1B:E0*		
UUID Filter			
e.g. 0201,0202			
RSSI Filter			
e.g60			
Value Filter			
offset da	ita		
Duplicates Filter			
e.g. 0,1,>=1000			
Include Timestamp			
No			~



2.5 Others

Users can perform various operations on the "Others" page, such as modifying their login password, rebooting, resetting, and signing out.

Status	Config	Service	 Other
Portal Password			
Old Password			
New Password			
Confirm Password			
Apply			
Web Security			
Allow Origin			
*			
HTTPS Enable			
Disable			~
Apply			
Actions			
Reboot Reset	Sign Out		



2.6 Parameter Description

01. Status Tab (Not Changeable)

meter	Description
Model	M2000
MAC	Gateway MAC Address - printed on the bottom of the M2000
Wi-Fi IP	Gateway IP address for Wi-Fi connection
Cellular IP	Gateway IP address for cellular connection
Firmware Version	Firmware version
Uptime	The gateway up time in hours since the last reboot
AC Online Time	The time of the gateway connected with the AC. If not connected, it shows offline.
AC Server Address	AC Server Address

02. Config Tab

Parameter	Description
Tx Power	Transmit power for Bluetooth. The default value is 19dbm (or 8dbm for Japan). To change this, follow local regulations for the maximum transmit power for 2.4 GHz devices.
AC Server Address	AC Server IP address or domain name. Note: Remove http:// or https:// header or port number
Country Code	Country code configuration for the Wi-Fi function. The default value is US. This option can only be set from the AC server by the administrator.
Client Mode	Wi-Fi Client Enable or Disable (default)
SSID	SSID of Wi-Fi AP
Security Mode	Wi-Fi Security Mode: None (no password or encryption, default value), WPA2-PSK WPA[TKIP]+WPA2[AES]
Password	The password of Wi-Fi AP's SSID.
IP Allocation	DHCP (default) or Static IP
IP	Static IP address
Netmask	Static IP network mask
Gateway	Static IP network gateway
DNS1	DNS server address 1
DNS2	DNS server address 2



3. AC Operations

3.1 Check M2000 information details

\$	Cassia I	oT Access Co	ontroller Cassia A	AC A1100							Refresh R	ate 20s 🗸	🗋 🕜 Help 🔘 admin
Ø	Group	• Status	 M2000 	 Backha 	ul 🔻				Discover	Add		••• Sea	urch Q
<u>60</u>	#	Group	Gateway Name	Status	Public IP	Private IP	ма	C Address ↑	Model	Versi	on	Online Time	Container Status
â	8	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.153	cc :	1B:E2:E0:10	:10 M2000	2.2.0.	2402222249	2h 29m 23s	NOT_SUPPORT
	6	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.152	CC :	1B:E2:E0:10	:14 M2000	2.2.0.	2402222249	2m 35s	NOT_SUPPORT
	15	● ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.151	CC :	:1B:E2:E0:10	:18 M2000	2.2.0.	2402222249	2h 30m 16s	NOT_SUPPORT
	7	🎙 🔖 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.150	cc	1B:E2:E0:10	:1C M2000	2.2.0.	2402222249	2h 30m 8s	NOT_SUPPORT
	14	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.149	cc :	1B:E2:E0:10	:20 M2000	2.2.0.	2402222249	2h 29m 23s	NOT_SUPPORT
	10	🎙 💊 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.148	CC :	1B:E2:E0:10	:24 M2000	2.2.0.	2402222249	2h 29m 49s	NOT_SUPPORT
	9	N2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.147	cc	:1B:E2:E0:10	:28 M2000	2.2.0.	2402222249	2h 30m 54s	NOT_SUPPORT
۵.	11	🎙 💊 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.145	CC	:1B:E2:E0:10	:2C M2000	2.2.0.	2402222249	2h 29m 6s	NOT_SUPPORT
	13	🎙 🔖 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.144	CC :	:1B:E2:E0:10	:30 M2000	2.2.0.	2402222249	2h 29m 57s	NOT_SUPPORT
28	12		Cassia Gateway	ONLINE	192.168.0.133	192.168.80.142	CC :	1B:E2:E0:10	:34 M2000	2.2.0.	2402222249	2h 30m 40s	NOT_SUPPORT
\$	Cassia I	oT Access Co	ontroller Cassia A	AC A1100							Refresh R	ate 20s 👻	🔿 🕜 Help 🔘 admin
Ø	Group	• Status	 M2000 	Backha	ul T			Cassia Gate	way ONLINE	<u>क</u>			@ ⊗
60	#	Group	Gateway Name	Status	Public IP	Private IP	м	Details	Container	Confi	g Tools		
a	8	N2000 N S	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.153	сс						
	6		Cassia Gateway	ONLINE	192.168.0.133	192.168.80.152	сс	MAC	ew		CC:1B:E2:	E0:10:10	
	15	♦ ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.151	сс	Model Firmware	e Version		M2000 2.2.0.2402	222249	
	7	🎙 🔖 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.150	сс	Private IF	P		192.168.80	0.153	
	14	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.149	сс	Public IP Last Offli	ine Time		192.168.0. 2024-02-2	133 3 02:06:21 UTC	;
	10	९ ♥ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.148	сс	AC Onlin Gateway	e Time Up Time		2h 29m 42 2h 30m 7s	S	
	9	♥ № M2000	Cassia Gateway	ONLINE	192.168.0.133	192,168.80.147	сс	CPU Usa	age				
٨.	11	🎙 💊 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.145	сс	Storage	Usage Usage				
	13	● ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.144	сс	Uplink	(Wi-Fi)				
	12	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.142	сс						
\$	Cassia I	oT Access Co	ontroller Cassia S	Sandbox							Refresh F	Rate 20s 🗸	C @ Help @ admit
(2) ~	Group	 Status 	 M2000 	 Backha 	ul 🔻			M2000 Test		Taola			<u>به</u> د
2	#	Group	Gateway Name	Status	Public IP	Private IP	MAG	Details	Coning	TUUIS			
(F)	3	Kevin	M2000 Test 1	ONLINE	162.244.250.15	6 10.62.3.80	CC ::	Overv	iew				
5	2	Kevin	M2000 Test 2	OFFLINE	162.244.250.14	19 10.80.39.67	cc::	Uplink	(cellular)				
	1	Kevin	M2000 Test 3	ONLINE	162.244.250.14	9 10.80.38.3		Down Byte	ytes 🕐		4.43MB 234.10ME	5	
	50 /page	▼ prev	1 next	30				Uplink M	IAC				
								IMEI			86710706 31003000	3493188 2296815	
								ICCID Signal S	strength		89010303 GOOD	300022968151	
0													
ц. С													
8													



\$	Cassia	IoT Access Controller Cas	sia AC A1100		Refresh Rate 20	s 🗸 🔿 🕐 Help 🔘 admin
Ø	Conn	ected Detected Locationin	g History		Export Connect History	CC:1B:E2:E0:10:10
<u>8</u>	#	Time	Device	Gateway	Event	Reason
ŝ	1	2024-02-23 12:37:38	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	connected	
Ś	2	2024-02-23 12:37:37	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	disconnected	host disconnect
ĽŶ1	3	2024-02-23 12:37:06	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	connected	
٩	4	2024-02-23 12:37:04	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	disconnected	host disconnect
	5	2024-02-23 12:36:34	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	connected	
	6	2024-02-23 12:36:33	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	disconnected	host disconnect
	7	2024-02-23 12:36:02	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	connected	
۵ •	8	2024-02-23 12:36:01	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	disconnected	host disconnect
0	9	2024-02-23 12:35:31	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	connected	
8	10	2024-02-23 12:35:28	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	disconnected	host disconnect
	11	2024-02-23 12:34:58	AA:AA:AA:88:88:03	CC:1B:E2:E0:10:10	connected	

3.2 Configure M2000 from AC

\$	Cassia	IoT Access C	ontroller Cassia A	CA1100						Refresh Rate 20s	С 🕐 Неір	(8) ad	dmin
Ø	Group	• Status	 M2000 	 Backha 	aul 🔻			Cassia Gateway ONLINE	1			()	Ø
<u>k~</u>	#	Group	Gateway Name	Status	Public IP	Private IP	м	Details Container	Config	Tools			
â	8	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.153	сс	General					
Ś	6	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.152	сс	Country of	United S	tates		•	
1Å	15	♦ ♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.151	сс	Deployment			Sav	e	
Ð	7	♦ ♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.150	сс		0				
	14	● ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.149	сс	Name	Cassia G	ateway	Cou		
	10	🍬 💊 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.148	сс	Crown	42.40	× • M2000 ×	54		
	9	♦ ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.147	сс	Group	◆ 友良 ● F100	X • M2000 X	X2000		
Д•	11		Cassia Gateway	ONLINE	192.168.0.133	192.168.80.145	cc		► X100	0 🗞 x1000 🔖 X200	00_API 💊 Simu	ator	
@ ~	13	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.144	сс		Simu	lator1 💊 发货 💊 M	12000 + Add		
8	12	♦ M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.142	сс				Sav	e	
		<u>∞ ∞ M2000</u>	Caccia Catoway	011 815	103 169 0 133	103 160 00 143		.10.53.50.10.30 103000	2202	100000010 0h 00m 01	•	8	
\$	Cassia	IoT Access C	ontroller Cassia A	C A1100						Refresh Rate 20s 🗸	🔿 🕐 Неір	() adr	min
Ø	Group												
<u>62</u>		 Status 	 M2000 	 Backha 	ul 🔻			Cassia Gateway				()	×
	14	N2000	M2000 Cassia Gateway	Backha ONLINE	ul • 192.168.0.133	192.168.80.149	сс	Cassia Gateway ONLINE ? Details Container	Config	Tools		@ (×
â	14	 M2000 M2000 	M2000 Cassia Gateway Cassia Gateway	Backha ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.148	сс	Cassia Gateway ONLINE ? Details Container	Config	Tools		()	×
(1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	14 10 9	 M2000 M2000 M2000 M2000 	M2000 Cassia Gateway Cassia Gateway Cassia Gateway	Backha ONLINE ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.148 192.168.80.147	сс сс сс	Cassia Gateway CHLINE ? Details Container Networks Wi-Fi(5Ghz Wi-Fi is	Config not suppo	Tools rted)		(×
1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 10 9 11	 M2000 M2000 M2000 M2000 M2000 	M2000 Cassia Gateway Cassia Gateway Cassia Gateway Cassia Gateway Cassia Gateway	Backha ONLINE ONLINE ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.148 192.168.80.147 192.168.80.145	сс сс сс	Cassia Gateway CHLINE ? Details Container Networks Wi-Fi(5Ghz Wi-Fi is Mode	Config not suppo	Tools rrted)		•	8
() () () () () () () () () () () () () (14 10 9 11 11 13	 M2000 M2000 M2000 M2000 M2000 M2000 M2000 	M2000 Cassia Gateway Cassia Gateway Cassia Gateway Cassia Gateway Cassia Gateway Cassia Gateway	Backha ONLINE ONLINE ONLINE ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.148 192.168.80.147 192.168.80.145 192.168.80.144	22 20 20 20 20 20 20 20 20 20 20 20 20 2	Cassia Gateway CHURE ? Details Container Networks Wi-Fi(5Ghz Wi-Fi is Mode SSID	Config not suppo Client lab_2g	Tools rrted)		•	8
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 10 9 11 13 12	 Status M2000 M2000 M2000 M2000 M2000 M2000 M2000 M2000 	M2000 Cassia Gateway	Backha ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.143 192.168.80.147 192.168.80.144 192.168.80.144	22 20 20 20 20 20 20 20 20 20 20 20 20 2	Cassia Gateway Container (Details Container (Networks Wi-Fi(5Ghz Wi-Fi is SID) Security Mode	Config not suppo Client lab_2g WPA2-PS	Tools rrted)			3
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 10 9 11 13 12 5	 Status M2000 	M2000 Cassia Gateway	Backha Online Online Online Online Online Online Online Online Online	UI • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.147 192.168.80.147 192.168.80.145 192.168.80.142 192.168.80.142	22 20 20 20 20 20 20 20 20 20 20 20 20 2	Cassia Gateway Oncode of Container of Contai	Config not suppo Client lab_2g WPA2-PS	Tools rrted)			8
6 12 19	14 10 9 111 13 12 5 5	 Status M2000 	M2000 Cassia Gateway Cas	Backha ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.147 192.168.80.147 192.168.80.144 192.168.80.144 192.168.80.143 192.168.80.143))))))))))))))))))))))))))	Cassia Gateway Container Details Container Networks WI-Fi(5Chz WI-Fi is Mode SSID Security Mode Password IP Allocation	Config not suppo Client lab_2g WPA2-PS DHCP	Tools rrted)		•	8
۲ ۳ ۳ ۹ ۲	14 10 9 11 13 12 5 4 17	 Status M2000 	M2000 Cassia Gateway Casa	Backha	UI • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.143 192.168.80.147 192.168.80.145 192.168.80.142 192.168.80.142 192.168.80.141 192.168.80.140	22 22 22 22 22 22 22 22 22 22 22 22 22	Cassia Gateway Container Details Container Networks WI-FI(5Ghz WI-FI IS Mode SSID Security Mode Password IP Allocation	Config not suppo Client lab_2g WPA2-PS DHCP	Tools rrted) SK			8
<u>م</u> م 2 د 0	14 10 9 11 13 13 5 5 4 17 16	Status Status M2000	M2000 Cassia Gateway Casa	Backha ONLINE ONLINE	ul • 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133 192.168.0.133	192.168.80.149 192.168.80.147 192.168.80.147 192.168.80.144 192.168.80.144 192.168.80.143 192.168.80.143 192.168.80.148	22 22 22 22 22 22 22 22 22 22 22 22 22	Cassia Gateway Container Details Container Networks WI-FI(5Chz WI-FI is Mode SSID Security Mode Password IP Allocation DNS1	Config not suppo Client lab_2g WPA2-PS DHCP	Tools rrted) SK			8



3.3 OTA firmware update

01. Upload M2000 firmware to the AC server from the AC Maintenance Tab -> Gateway's Firmware Update section:

\$	Cassia IoT Access Controller Cassia AC A110	0		R	tefresh Rate 20s 🗸 🗨	⑦ Help	(2) admin
Ø	Maintenance						
<u>84</u>	Gateway's Firmware Update	Gatew	ay's Firmware Update		L L	pload	
4	Container Update	#	Version		Size		
Ś	APP Update	□ 1	M2000 2.2.0.2402222249		1.58 MB		
1Ŷ	Access Controller Update						
٢	CentOS Patch						
	Multiple AC Viewer						
	DI Update						
	Bluetooth Debugger						

02. Select M2000 to upgrade to this firmware version.

\$	Cassia	loT Access Co	ontr Upgrad	e Gateway						e 20s 🕶 🔿	; 🥐 Help 🔘 admin
Ø	Group	• Status								Search	n Q
<u>~</u>	#	Group	Gat	Version	Select a version		~	A total of 1	items	online Time	Container Status
<pre></pre>	8	🗨 🌤 M2000	Cas	Size	M2000 2.2.0.240	2222249				h 33m 56s	NOT_SUPPORT
Ś	6	🔍 🎙 M2000	Cas	0120		Cancel	ок			m 8s	NOT_SUPPORT
TŶ1	15	🔍 🎙 M2000	Саз,							_h 34m 49s	NOT_SUPPORT
(t)	7	🗨 🎙 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.150	CC:1B:E2:E0:10:1C	M2000	2.2.0.2402222249	2h 34m 41s	NOT_SUPPORT
	14	🔍 🎙 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.149	CC:1B:E2:E0:10:20	M2000	2.2.0.2402222249	2h 33m 56s	NOT_SUPPORT
	10	🔍 🎙 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.148	CC:1B:E2:E0:10:24	M2000	2.2.0.2402222249	2h 34m 22s	NOT_SUPPORT
	9	● ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.147	CC:1B:E2:E0:10:28	M2000	2.2.0.2402222249	2h 35m 27s	NOT_SUPPORT
\$ •	11	● ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.145	CC:1B:E2:E0:10:2C	M2000	2.2.0.2402222249	2h 33m 39s	NOT_SUPPORT
Ô	13	🔍 🎙 M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.144	CC:1B:E2:E0:10:30	M2000	2.2.0.2402222249	2h 34m 30s	NOT_SUPPORT
	12	● ● M2000	Cassia Gateway	ONLINE	192.168.0.133	192.168.80.142	CC:1B:E2:E0:10:34	M2000	2.2.0.2402222249	2h 35m 13s	NOT_SUPPORT

4.Cassia RESTful API

M2000 supports the Cassia RESTful API, which can be called from the AC server or the local network. Please refer to the following link for details of the "Cassia SDK Implementation Guide." https://github.com/CassiaNetworks/CassiaSDKGuide/wiki



01. Scan

AC Q gateway Y JRA O Licens CassiaNAS Y cassia api O Home · CassiaNet O Azure ac 受 我想進_new :keep-alive data: ("bdaddrs":[{"bdaddr": "CC:DD:EE:05:00:14", "bdaddrType": "random"]], "rssi": -50, "evtType":0, "name": "CASSIA-BEACON-520", "adData": "02010612094341535349412D42454 data: ("bdaddrs":[{"bdaddr": "CC:DD:EE:05:00:55", "bdaddrType": "random"]], "rssi": -53, "evtType":0, "name": "CASSIA-BEACON-520", "adData": "02010612094341535349412D42454 data: ("bdaddrs":[{"bdaddr": "CC:DD:EE:05:00:55", "bdaddrType": "random"]], "rssi": -64, "evtType": 0, "name": "CASSIA-BEACON-785", "adData": "02010612094341535349412D42454 data: ("bdaddrs":[{"bdaddr": "CC:DD:EE:05:00:55", "bdaddrType": "random"]], "rssi": -64, "evtType": 0, "name": "CASSIA-BEACON-785", "adData": "02010612094341535349412D42454 data: ("bdaddrs":[{"bdaddr": "CC:DD:EE:06:55", "bdaddrType": "random"]], "rssi": -64, "evtType": 0, "name": "CASSIA-BEACON-785", "adData": "0201060204000C096777695F646F66F66F66F66F66 data: ("bdaddrs":[{"bdaddr": "D8:08:C8:62:5C:28", "bdaddrType": "public"]], "rssi": -64, "evtType": 0, "name": "(unknown)", "adData": "0201060302000F111FF31323342E562CE080D data: ("bdaddrs":[["bdaddr": "CC:DD:EE:22:00:24", "bdaddrType":"public"]], "rssi": -68, "evtType": 0, "name": "(unknown)", "adData": "02010603020FF11FF31323342E562CE080D data: ("bdadrs":[["bdaddr": "CC:DD:EE:22:00:24", "bdaddrType":"public"]], "rssi": -68, "evtType": 0, "name": "(unknown)", "adData": "0201060302F0FF16FF0506552707382334000 data: ("bdaddrs":[["bdaddr": "CC:DD:EE:22:00:24", "bdaddrType":"random"]], "rssi": -64, "evtType": 0, "name": "(unknown)", "adData": "0201060302F0FF16FF0506552707382334000 data: ("bdaddrs":[["bdaddr": "CC:DD:EE:22:00:24", "bdaddrType":"random"]], "rssi": -64, "evtType": 0, "name":"(CASSIA-BEACON-R42", "adData": "02010612094341535349412D42454 data: ("bdaddrs":[["bdaddr": "CC:DD:EE:22:00:24", "bdaddrType":"random"]], "rssi: -64, "evtType": 0, "name":"(Unknown)",	1434F4E2D353230"} 1434F4E2D503933"} 530"} 1434F4E2D3F3835"} 800003254EE03"}
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02. Connect device

🧝 AC 🧝 gateway 🏋 JIRA 📀 License 🖪 CassiaNAS 💡 cassia api 💭 Home CassiaNet 📀 Azure ac 🔞 安耐糖 new						
← → C 🏠 🔺 Not secure 112.126.95.79/api2/gap/nodes/?connection_state=connected&mac=CC:18:E0:E3:15:78	@ ☆		1 E			

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5. LED Status

LED	Status	Description			
	Off	Power off			
	Fast flashing	The system is starting			
SYS	Solid on	The system is operating normally. Wi-Fi connection is NOT established.			
	Slow flashing	The system is operating normally. Wi-Fi connection is established.			
	Slow flashing (200ms High/1800ms Low)	Network searching.			
4G	Slow flashing (1800ms High/200ms Low)	Idle			
	Fast flashing (125ms High/125 Low)	Data transfer is ongoing.			
	Off	The Bluetooth chip didn't start			
BLE	Solid on	Bluetooth is operating normally.			
	Flashing	Flash twice when the Bluetoothconnection is established			



6. Obtain GPS Location

01. To acquire the GPS location from local console:

- Click the 'Update GPS' button.
- Wait for 10 seconds get GPS data, including longitude, latitude, GPS timestamp, and GPS signal.

	¢	2	
Status	Config	Service	Other
Status			
Mode1			
M2000			
MAC			
CC:18:E0:E4:A1:80			
Wi-Fi IP			
192.168.3.12			
Cellular IP			
0.0.0.0			
Firmware Version			
2.2.20000.2503131631			
Uptime			
2 hour 39 min 48 sec			
AC Online Time			
2 hour 39 min 32 sec			
AC Server Address			
112.126.95.79			
Latitude			
39.123889			
Longitude			
117.141667			
GPS Timestamp			
08:01:47			
GPS Signal			
normal			
Update GPS			



02. Retrieving GPS Location from the AC Server:

- Authenticate: Acquire a Cassia RESTful API token from the AC Server.
- Initiate GPS Request: Send a GET request to trigger real-time location tracking: GET http://[AC_IP]/api/cassia/gps/request?mac=CC:1B:E0:E4:A2:38
- Receive Data: The GPS coordinates will return in the HTTP response within ~10 seconds if the GPS signal strength is normal.

```
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  "LAT": "32.47.21",
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  "WE": "W",
  "SATELLITE1": 8,
  "SATELLITE1": 8,
  "SATELLITE1_SNR": 37,
  "SATELLITE2": 26,
  "SATELLITE2": 26,
  "SATELLITE3_SNR": 44,
  "SATELLITE3_SNR": 44,
  "SATELLITE3_SNR": 46
  }
}
```

 Store Data: Data is simultaneously stored on the gateway and can be accessed later using: GET [AC_IP]/api/cassia/info

Notes:

The LTE backhaul connection is suspended during GPS location tracking and resumes once the GPS operation is complete. As a result, GPS API requests may introduce an approximately 10-second delay in LTE network communication. During this period, BLE data is buffered, with a buffer capacity of 40KB. Packet loss is unlikely unless high-throughput BLE data is being transmitted at the same time. To minimize potential issues, it is recommended to avoid transmitting large amounts of BLE data while the gateway is processing a GPS API request.