Quick Start Guide Manual

Sigfox Access Station Nano NAP-Series

Remote solution X sigfox



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General Information

NAP is a gateway equipment that comes in three versions. These are categorized by the capability of internet connection. NAP3 connects the Sigfox cloud platform to an wired Ethernet cable or through Wi-Fi connection.

NAP5 features a built-in Cellular module which supports LTE Cat M1 as a default capability. (LTE Cat1 is a customized option for user). NAP5 doesn't support a wired network or Wi-Fi. (only LTE support)

NAP7 connects to Sigfox Cloud via an existing LAN infrastructure (Ethernet or Wi-Fi) or cellular network.

It features the ability to automatically switch networks if encountering an issue on the network, as well as checking network backhaul to support seamless data service.

Improve Sigfox Device Coverage Indoor

With the multiple backhaul capability, NAP can be installed at customer premises where Ethernet, Wi-Fi and LTE are available. This can be installed for indoor or rural outdoor with IP61 enclosure such as attics, underground, warehouses, buildings, shops, farms, offices and etc.

It can be installed in a Sigfox radio-shaded area that is out of signal range of existing access stations to further increase coverage.

Before You Start _

This quick start guide will take you through the few steps required to connect and start using your station.

Prepare the following to Access Station Micro System

- •Internet connection: either by Ethernet port or compatible LTE Cat-M1
- •In case of using Ethernet network: Ethernet cable CAT5e or above, shielded F/FTP, SF/UTP, SF/FTP
- •In case of using LTE M1 : Micro SIM card registered with mobile operator
- •Indoor 220 / 110 V AC power outlet
- Antennas come attached. *Sim cards are not provided

This guide is based on NAP-7.

NAP-3 / NAP-5 have different number of antennae.

Please refer to "Interface" in this guide.

This "Before you start" is a session for the physical installation of the NAP device to the Ethernet and LTE environment. Regarding the Wi-Fi configuration or the other connection process, please refer to the session "Activation / Configuration".

The locational information including GNSS coordinates MUST be entered during the configuration.

For further details, please visit https://service.rs-aiot.com/

Package Contents ____



- 4 Taptite & 4 Tapping Screws are included.
- 4 Wall-Plugs are included.
- Ethernet cables are not provided.
- Screwdrivers are not included; regular size is required.

Interface



- 2 antennas* for NAP-5 and NAP-7
- 1 antenna for NAP-3

*Two antenna config, includes one for Sigfox, the other for LTE

External Antenna Config _

- 2 antennas* for NAP-5 and NAP-7
- I antenna for NAP-3

*Two antenna config, includes one for Sigfox, the other for LTE

LED Description

Name	Status	Meaning			
	On	Power is normal			
Off		No power or abnormal condition			
CLOUD	On	Connected to Sigfox Cloud successfully			
LED	Off	Failed to connect to Sigfox Cloud			
	Flashing 1.8s on/0.2s off LTE Connected to peer				
LTE	Flashing 0.2s on/1.8s off	Trying to connect to peer			
	Flashing quickly 0.1s on/0.1s off	Data transfer is on going			
	On	WiFi On			
VVIFI	Off	WiFi Off			
	On	WAN Link up			
WAN	Off	WAN Link down			
	On	LAN Link up			
LAIN	Off	LAN Link down			

Powering the Station

- 1) Connect the USB C Power port to the power adapter and plug the adapter to a power outlet.
- 2) Insert the electric wire into the power cord separation prevention groove to prevent the power cord from being easily disconnected from the USB port during use.
- 3) Station will boot up automatically.
- 4) To reboot the station, press the Reset button and it will automatically reboot.

Ethernet Connection_

Step 1 Installation Location

Place or fix the Access Station Nano at the desired location. Make sure you leave enough space to access the ports and you can see the side to check the LED display.

Step 2 Connect the Station to the Internet

- 1) In case of using Ethernet connect the Ethernet cable to the station's Ethernet WAN port.
- 2) Connect the other end of the Ethernet cable to the Ethernet wall socket or router.



LTE Connection For NAP-5 / NAP-7

- 1) In case of using LTE M1 remove the cover of the SIM card port on the bottom of the station.
- 2) Unscrew SIM card port.
- 3) Slide the SIM socket cover in the Open direction, and then lift the socket cover up wards.
- 4) Place the SIM card by aligning the cut edge of the SIM card with the edge of the socket.
- 5) Close the SIM socket cover downwards and slide it in the Lock direction to lock it.
- 6) Tighten the cover of the SIM card port with a screw.



Open the USIM slot on the bottom of the NAP. Insert the USIM according to the shape of the corner as shown in the figure below, close the iron lid, and Slide it to the right to lock it in place.

Place the station upside down carefully

Activation / Configuration

- 1) By default, the station is setup for automatic DHCP connection.
- 2) Check the Support Section of this guide if you need to reconfigure the Ethernet or LTE network settings.
- The Access Station NAP is ready and operational as soon as the boot up is done, the connectivity established. This should take less than 1 minutes in normal temperature conditions.
- 4) To activate the device, the GNSS coordinates must be manually inputted by the user via the Android App or Web UI. Please refer to "NAP Settings" for more information.
- 5) Check the Support Section of this guide if you need to reconfigure the Ethernet.

How to Configure the Web

Step 1. Connect the station to PC

1) Connect the Ethernet cable to the station's Ethernet LAN port. Connect the other end of the Ethernet cable to PC.



- 2) In Windows 11, go to Start > Settings > Network & internet > Ethernet
- 3) Choose your Ethernet adapter and click **V** to show detail options.

← Settings	- • ×
A howdoudo Local Account	Network & internet > Ethernet
Find a setting	G andy5G ~
System	Get help
8 Bluetooth & devices	₽ Give feedback
Network & internet	
Personalization	
Apps	
Accounts	
3 Time & language	
🐵 Gaming	
X Accessibility	
Privacy & security	
Ø Windows Update	

Step 2. Find IP assignment and click Edit

1) Select "Automatic (DHCP)" and Save

← Settings			- 0 ×
R howdoudo Local Account	letwork & internet	> Ethernet	
Find a setting P	Connected		^
System	Network profile type		
8 Bluetooth & devices	O Public (Recommended) Your device is not discoverable	on the network. Use this in most cases—when a	connected to a
📔 👻 Network & internet			
/ Personalization	Edit IP settings	ct this if you need file sharing o	or use apps that
Apps	Automatic (DHCP)		inces on the network.
Accounts			
3 Time & language	Sur Cu		Edit
Gaming	Save		05
X Accessibility	connected to this network	reduce data usage when you're	Uff U
Privacy & security	Set a data limit to help control o	lata usage on this network	
Windows Update	IP assignment:	Automatic (DHCP)	Edit
	DNS server assignment:	Manual	Edit
	IPv4 DNS servers:	168.126.63.1 (Unencrypted)	
	Link speed (Receive/Transmit):	1000/1000 (Mbps)	Сору
	IPv6 address:	fdc7:ed80:354b::255 fe80::1c53:981c:d3fb:88fd%6	

Regular Installation

Step 1. Run Web browser and connect to http://192.168.10.1:8899/



Step 2. Enter Username & Password

- Default Username : rsadmin
- Default Password : rsadmin0000!!
- Default Username & Password is the same for all the NAP Devices
- Recommend to change them for your security



How to use Web UI

After successfully connecting to the Web the below will appear. You can get NAP status information,

and also configure NAP through the Web UI.



NAP Configuration_

NAP Status Information :

Shows various information for Sigfox service

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open all close all	Status	
Sigfox NAP	NAP Status	
NAP Settings	NAP Version	1.0.3
Status Management	Module F/W Version	1.0.3pre
EndPoint Log	Auth URL	https://sigfox-2.est.edge.globalsign.com
E LTE Settings	Token URL	https://apg-auth.sigfox.com
🗉 💼 Wi-Fi Settings	gRPC URL	apg.sigfox.com
Logout	RMS URL	https://gate.rs-aiot.com
	Fwup URL	https://gate.rs-aiot.com
	Serial Number	SN7M000036
	Maker Name	RemoteSolution
	NAP ID	0006000003D
	Model Name	PROD_TEST1
	Longitude	126.9362
	Latitude	37.385977
	Tx Active	1
	Max Power	23
	Uplink Frequency	923300000
	Downlink Frequency	922300000
	Downlink Method	2
	LBT Min	5
	LBT Max	60
	LBT Delay	4
	LBT Num	0
	LBT Power	-65
	4	

GNSS Coordinates

Specify the latitude & longitude value of GNSS

Coordinate value can be obtained from the mobile application provided by Remote Solution or google map by user.





End Point Log

NAP shows recent 50 message logs from end point

Log show end point's device ID, rssi, frequency and received time in UTC

Note) Log don't show end point's encrypted payload data, you can read it in the Sigfox backend



LTE Configuration

Here shows the current status of LTE modem

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<u>open all close all</u>	Status					
Sigfox NAP	Status					
NAP Settings	Access Technology	Cat-M1				
Status	Band	LTE BAND 5				
Connection	Channel	2500				
⊡ Internet Settings ⊡ Internet Settings	RSSI	-102				
Administration	RSRP	-127				
	RSRQ	-13				
	SINR	96				
	MCC	45				
	MNC	05				
	PDP Type	IPV4V6				
	SIM State	USIM ready				
	4					,

APN Settings(LTE setting)

- 1) In LTE settings -> Connection menu
- 2) Select pre-defined APN or Enter custom APN



WAN Setup Primary

DHCP configuration.

In case of using DHCP Select WAN Connection Type: Wired(DHCP)

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open all close all Sigfox NAP	You may configure	Area Network (V choose different connection parameters according to t	VAN) Se	ettings ole for your environ connection type.	iment. E	Besides	, you may a	also
	Wide /	Area Network (WAN	Wired (ngs	~			
	Enable S	econdary WAN	OON	OFF				
(Logout)				Apply			Cancel	
	•							

Click Apply

"In the case of NAP-7, Multi-Backhaul (LTE, Ethernet, Wi-Fi) function is provided, but if you want to connect two or more backhauls at the same time, you need to set up primary and secondary backhaul.

At this time, basic Internet communication is performed with the backhaul set as the primary, and if the primary backhaul becomes unable to communicate, it operates as the secondary backhaul as the backup backhaul.

After that, when the primary backhaul returns to normal, communication is resumed as the primary backhaul."

Static IP configuration

WAN Connection Type: Wired (Static IP)

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Wide Area Network (W	VAN) Settings			
You may choose different connection configure parameters according to the	n type suitable for your enviro he selected connection type.	nment. Bes	sides, you may a	lso
WAN Connection Type	Wired (Static IP)	~		
Static Mode				
IP Address				
Subnet Mask				
Default Gateway				
Primary DNS	8.8.8.8			
Secondary DNS	168.126.63.1			
Wide Area Network (WAN) 2 Settings			_
	Apply		Cancel	
	ture 192.168.10.1:8899/home.a at work O Documentation - o	ture 192.168.10.1:8899/home.asp at work Documentation · o NXP Sign In DocS Solution Sigc Fox Wide Area Network (WAN) Settings You may choose different connection type suitable for your enviro configure parameters according to the selected connection type. WAN Connection Type Wired (Static IP) Static Mode	Exerce 192.168.10.1:8899/home.asp at work Documentation - o NXP Sign In DocS Rasple	issure 192.168.10.1:8899/home.asp at work Documentation - o NXP Sign In DocS Raspberry Pi Foru SigFox NAP Wide Area Network (WAN) Settings You may choose different connection type suitable for your environment. Besides, you may al configure parameters according to the selected connection type. WAN Connection Type Wired (Static IP) Static Mode IP Address Subnet Mask Default Gateway Primary DNS 8.8.8.8 Secondary DNS 168.126.63.1 Wide Area Network (WAN) 2 Settings Enable Secondary WAN ON Apply Cancel

Enter IP address, Subnet Mask, Default Gateway, DNS address Click Apply

WAN Connection Type: LTE

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open all∣close all Sigfox NAP ⊕ NAP Settings	Vide Area Networ You may choose different con configure parameters accordi	k (WAN) Settings nection type suitable for your en ng to the selected connection type	ivironment. E pe.	Besides, you ma	y also
En Internet Settings	WAN Connection Type	LTE	~		
WAN LAN Client Lists Wi-Fi Settings	Wide Area Network (WAN) 2 Settings			
	Enable Secondary WAN	OON OFF			
(Logout)		A	oply	Cancel	
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WAN Connection Type:	WiFi(STA)
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open all close all	You may	Area Network (W choose different connection parameters according to th	(AN) Se type suitable e selected c	ttings e for your environ onnection type.	ment. E	Besides,	, you may a	lso
NAP Settings	WAN Cor	nnection Type	WiFi (ST	A)	~			
WAN LAN Client Lists W-Fi Settings Administration	Wide	Area Network (WAN)	2 Settin	gs				
Logout	Enable S	econdary WAN	OON	OFF				
				Apply			Cancel	
	4		_	_	-	-		,

Click Apply

"Before selecting WiFi(STA), you have to configure STA mode first in the Wi-Fi Settings -> STA menu."

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WAN Setup Secondary

Select Enables Secondary WAN: ON

Select WAN Connection type: DHCP/Static/LTE/WiFi(STA)

*Note: You have to select different type with above (LTE or WiFi(STA))

If you enable secondary WAN,

NAP will monitor network status with check period & IP1/1P2 address

When primary or secondary WAN communication failure, NAP will switch to alternative WAN

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open all close all	Wide Area Network	(WAN) Settings	
Sigfox NAP	You may choose different connec configure parameters according t	tion type suitable for your environme o the selected connection type.	ent. Besides, you may also
Eren LTE Settings	WAN Connection Type	Wired (DHCP)	▼
WAN LAN Client Lists Wi-Fi Settings	Wide Area Network (WA	N) 2 Settings	
± Administration	Enable Secondary WAN	ON OFF	
Logout	WAN Connection Type	LTE	✓
	Wired/WiFi Connection Check Period (secs.)	15	
	LTE Connection Check Period (secs.)	80	
	IP1 for connection confirmation	168.126.63.1	
	IP2 for connection confirmation	8.8.8.8	
	٩	Apply	Cancel

Click Apply

LAN Configuration

- 1) If LAN IP address and WAN IP address have the same subnet you need to change LAN IP address and DHCP server settings
- 2) Default LAN IP address is 192.168.10.1
- 3) Enter new LAN IP address and DHCP Server settings.
- 4) LAN IP address and DHCP Server's Start IP Address & End IP address have to be same subnet
- Eg.) IP address : 192.168.20.1 Start IP Address: 192.168.20.2 End IP Address: 192.168.20.254 Primary DNS: 8.8.8.8(google) or other DNS address Secondary DNS: any DNS address Lease Time: value in minutes
- 5) Click Apply



NAP Client List

Client list connected to NAP

NAP shows the list of the client which is connected to NAP through the LAN or WiFi



Wi-Fi Configuration_

Select Wi-Fi On/Off: Wi-Fi AP mode On or Off

Note) Default WiFi AP function is "OFF" you can change "ON" to use WiFi AP function

To improve security for WiFi AP, you have to change default Pass Phrase more complex in Wi-Fi Settings -> Security menu

Recommend to create new pass phrase with combination of upper case, lower case, number and special characters

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open all close all Sigfox NAP 	Basic Wireles You could configure th Network Name (SSID) setting items. Wireless Network Mo	e minimum number of Wireles and Channel. The Access Poi	s settings for comm int can be set simpl	nunication y with onl	, such as ly the minim	um
Client Lists	Wi-Fi On/Off	OFF	Apply		Cancel	
Security STA Station List Administration						
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Wi-Fi Configuration_

Select Wi-Fi On/Off: Wi-Fi AP mode On or Off

- 1) Network Mode: 11b/g/n or mixed mode
- 2) Network Name(SSID): Enter SSID of AP mode, Default is "Sigfox_NAP"
- 3) Check Hidden 🗹 to hide SSID
- 4) Frequency (Channel) : Select specific channel number or Auto Select
- 5) Click Apply

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open all close all Sigfox NAP	You coul Network setting it	d configure the minimum nu Name (SSID) and Channel. ems.	mber of Wireless settings for The Access Point can be set	comm simply	unication with onl	i, such as ly the minim	ıum
Internet Settings	Wireless Network Mode Operation						
	Wi-Fi On	/Off	ON	~			
Client Lists	Wireless	Network					
Basic	Driver Ve	ersion	4.1.2.2				
Security	Network	Mode	11b/g/n mixed mode	~			
Station List	Network	Name(SSID)	Sigfox_NAP17		Hidder	ו 🗹	
🗄 📹 Administration	BSSID		00:1F:96:FF:35:50				
Logout	Frequen	cy (Channel)	AutoSelect	~			
	4		Apply			Cancel	

Wi-Fi Configuration Security

- 1) Select Security Mode
- 2) Disable: Open, No security (not recommended)
- 3) WPA-PSK/WPA2-PSK/WPAPSKWPA2PSK : WiFi Protected Access
- 4) WPA Algorithm: TKIP/AES/TKIPAES, TKIPAES means support TKIP or AES
- 5) Pass Phrase: Enter password to access Wi-Fi
- 6) Key Renewal Interval: WPA group rekey interval, default is 3600 sec
- 7) Click Apply

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open all <u>close all</u> Sigfox NAP Đ- Đ NAP Settings	Wireles: Setup the wir	S Security/En	cryption Settings	uthorized a	ccess a	nd monitor	e
🖳 💼 LTE Settings 🖃 💼 Internet Settings	Wireless Net	work					
WAN	SSID		Sigfox_NAP17				
Client Lists	Security Mode	9	WPA2-PSK	~			
Wi-Fi Settings Basic Security	WPA						
STA	WPA Algorithr	ns	OTKIP OAES O	TKIPAES			
Station List	Pass Phrase		Qve13@\$\$dFR5				
	Key Renewal	Interval	3600	s	econds((0~86400)	
(Logout)			Appl	y	(Cancel	

Station List

NAP shows the list of STAs which are connected to NAP through Wi-Fi



Wi-Fi Configuration <u>STA</u>

You can use WiFi STA as an internet backhaul

- 1) Select Enable STA : ON
- Find WiFi AP which you want connect in the Site Survey list if you can't find a SSID in Site Survey list, click "Scan" button again
- 3) Enter or select "SSID", "Security Mode", "Encryption Type" and "Passphrase" you can see "Security Mode" and "Encryption Type" in site survey list
- 4) Click Apply



Wi-Fi Configuration STA

- 5) Go to Internet Settings -> WAN menu
- 6) Select WAN Connection Type : WiFi(STA) You can also select WiFi(STA) as a secondary WAN

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Depen all close all Sigfox NAP NAP Settings LTE Settings MAN LAN Client Lists W-Fi Settings Administration	Wide Area Network You may choose different connec configure parameters according t WAN Connection Type	(WAN) Settings tion type suitable for your envi to the selected connection type WiFi (STA)	ronment. Besides, you may also
	Wide Area Network (WA	AN) 2 Settings	
Logout		Арр	ly Cancel

7) Click Apply

Wi-Fi Configuration <u>STA</u>

If you configure WiFi(STA) settings correctly and NAP connected to AP successfully, you can see an IP address gotten from AP in the System Information page



Administration Menu_

Login Information

- 1) Management, Language: Select English or Korean
- 2) Default Username: rsadmin, Default Password: rsadmin0000!!
- 3) Default Username & Password is the same for all the NAP Devices
- 4) Recommend to change them for your security



Firmware Upgrade

Upload Firmware, NAP support firmware update in Web UI

For updating new firmware

1) Click "Choose File" button



2) Select firmware image file and open it

💿 Open								×
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Organize 👻 New folder						≣ -		0
Y 🔶 Quick access	Name	Date modified	Туре	Size				
	RS_NAP_FIRMWARE_0.7.8_20220717.bin	7/17/2022 7:39 PM	Binary File	11,585 KB				
Desktop 📌	RS_NAP_FIRMWARE_0.7.9_20220718.bin	7/18/2022 8:09 PM	Binary File	11,585 KB				
🕁 Downloads 📌	RS_NAP_FIRMWARE_0.7.9_20220718.img	7/18/2022 10:38 AM	ALZip IMG File	11,586 KB				
Documents *	RS_NAP_FIRMWARE_0.7.9_20220718_N.img	7/18/2022 10:38 AM	ALZip IMG File	248 KB				
Pictures 📌	RS_NAP_FIRMWARE_0.7.9_20220718_NR.img	7/18/2022 10:38 AM	ALZip IMG File	11,832 KB				
	RS_NAP_FIRMWARE_0.7.9_20220719.bin	7/19/2022 11:31 AM	Binary File	11,585 KB				
	RS_NAP_FIRMWARE_0.7.9_20220720.bin	7/20/2022 5:23 PM	Binary File	11,585 KB				
	RS_NAP_FIRMWARE_0.7.9_20220721.bin	7/21/2022 3:00 PM	Binary File	11,585 KB				
	RS_NAP_FIRMWARE_0.7.9_20220721_NR.img	7/21/2022 4:22 PM	ALZip IMG File	11,890 KB				
	RS_NAP_FIRMWARE_0.7.9_20220725.bin	7/25/2022 12:02 PM	Binary File	11,009 KB				
> 🔵 OneDrive - Personal	RS_NAP_FIRMWARE_0.7.9_20220725.img	7/25/2022 2:33 PM	ALZip IMG File	11,586 KB				
This DC	B RS_NAP_FW_0.6.7_20220322.zip	3/22/2022 5:33 PM	ALZip ZIP File	10,308 KB				1
y 📮 inis PC	igg source.tar.bz2	10/15/2019 4:29 PM	ALZip BZ2 File	180,734 KB				1
> 🖄 Network	svpn_embedded_package_v1.0.3.1_136_aprotech.tar.gz	3/7/2022 10:50 AM	ALZip GZ File	2,111 KB				
	<pre>ge tgsvpn_conf.tar.gz</pre>	3/7/2022 1:43 PM	ALZip GZ File	1 KB				
	TOOLS.INI	4/28/2022 12:29 AM	구성 설정	7 KB				
File <u>n</u> ar	ne: RS_NAP_FIRMWARE_0.7.9_20220725.img				~	All Files (*.*)		~
	ι					<u>Open</u>	Cancel	5.

3) Click Open

open all close all	Upgrade Firmware
Sigfox NAP NAP Settings TE Settings W-TE Settings W-Fi Settings M-Wi-Fi Settings M-Ministration Management Upload Firmware	Upgrade the Router firmware to obtain new functionality. It takes about 1 minute to upload and upgrade flash. Please be patient. Caution! A corrupted image will hang up the system. Only when client connects to Router with a RJ45 cable, upgrade firmware works. Update Firmware Location Choose File RS_N0.img Apply
4) Click Apply	/



5) Upload Firmware

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<u>open all close all</u>						
Sigfox NAP		Device is rebooting. Please wait for	r <mark>a m</mark> oi	ment.		
 NAP Settings LTE Settings 		The page will be refreshed in 87 s	second	l(s).		
internet Settings Internet Settings						
Administration						
Management						
Settings Management						
Statistics						
Access Log						
Logout	4					► F

- 6) After writing firmware image to internal flash memory, NAP will reboot automatically
- 7) Wait for $2 \sim 3$ mins to reboot and reconnect to Web UI
- 8) Check the S/W Version in System Information to confirm firmware update success

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	Solution Valuable Convenience	SigFox NAP					
	Production Information						
<u>open all close all</u>	System Information						
Sigfox NAP	SSID	Sigtox_NAP					
NAP Settings TE Settings	H/W Version	1.0					
Internet Settings	S/W Version	1.0.3					
Wi-Fi Settings Administration	Modem Version	01.012.01.012					
	Connection Status	Connected					
Logout	System Up Time	4 mins, 10 secs					
	USIM Status	USIM ready					
		864200054264198					
	Telephone Number	+46/191017591770					
	NAP Information						
	NAP Version	1.0.3					
	Module F/W Version	1.0.3pre					
	Serial Number	SN7M000036					
	NAP ID	0006000003D					
	Internet Information		1				
	Connected Type	DHCP					
	WAN IP Address	192.168.0.27					
	MAC Address	00:1F:96:46:6A:D2					
	Subnet Mask	255.255.255.0					
	Default Gateway	192.168.0.1					
	Primary DNS	168.126.63.1					
	Secondary DNS	8.8.8.8					
	Local Network						
	Local IP Address	192.168.10.1					
	Local Netmask	255.255.255.0					
	MAC Address	02:1F:96:46:6A:D2					
	DHCP Server	Enable					
	4		•				

Load Factory Defaults

All configurations are restored to factory default settings



1) NAP will reboot automatically,

2) Wait for 2 ~ 3 mins to reboot and reconnect to Web UI

Statistics

NAP shows memory usage



Debugging Mode – Access Log

- 1) NAP shows access log for Web UI
- 2) Access Log



Thank you

Remote solution X sigfox

