

InHand Networks InConnect Service

"One-stop" Convenient Networking Service

User Manual

Issue: V2.2-2020.03

www.inhand.com.cn InHand Networks

Declaration

Thank you for choosing our product. Before using the product, read this manual carefully. The contents of this manual cannot be copied or reproduced wholly or partially in any form without the written permission of InHand.

Due to the continuous updating of products, information in this document cannot be completely consistent with actual products. The actual system functions shall prevail. InHand will update this document with the update of system functions. Please find the latest information in the official of InHand or the InConnect platform.

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Conventions

Symbol	Indication
>>	Content in it indicates a button name. For example, the OK button.
	Content in "" indicates a window name or menu name. For example, the pop-up window "New User".
>>	A multi-level menu is separated by the double brackets ">>". For example, the multi-level menu File >> New >> Folder indicates the menu item [Folder] under the sub-menu [New], which is under the menu [File].
[▲] Caution	It means reader be careful. Improper action may result in data loss or damage to device.
☑ Note	Notes contain detailed descriptions and helpful suggestions.

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1. About the Platform

The InHand Connect Service cloud platform (InConnect) is a "one-stop" networking service for enterprise customers. With user-friendly interfaces, InConnect is easy to use and compatible with networking devices of InHand highly recognized by customers around the world. It helps you to quickly connect with global business outlets, break regional restrictions, realize safe and stable interconnection of device and information in different regions, and facilitate enterprise information construction and digital transformation.





Quick Start with InConnect:



2. Registration and Login

1. Registration

On a browser, enter <u>https://ics.inhandnetworks.com</u> to access the registration page of InConnect. Google Chrome is recommended.

2. Login

After registration, enter the email account for registration and password to log in to InConnect. After login, on the Settings page, **modify the password** and **bind a mobile phone number.** You can use the bound mobile phone number for login next time.

InConnect	Server Config Firmware Administration	Download Client 🙁 xuyan-test 🕮 🍘
Change password	Unbound	G Lagout
* Old Password:	Old Password	
* New Password :	At least 6 passwords, case insensitive	
Repeat Password :	Confirm Password	
Save		

3. Connect a Router to InConnect

After a router is added, InConnect automatically delivers the running configuration to create secure network connection.

You can add a router as follows:

- 1. In the Router List of InConnect, add a router.
- 2. On the web page of the router, connect the router to InConnect.

The details are described below.

3.1. Add a Router to InConnect

 Choose Server >> Routers >> Create Router. On the page displayed, enter a name and serial number for the router, select the router model and then click Save. You can view the serial number on the router nameplate or on the Web Management page. You must select the correct model; otherwise, connection to the router may fail.

S InConnect	Server	Config	Firmware	Administration						8 ×		
Home / Server Group: default				Address: ap.ics.i	nhandiot.com:1	6361		Subnet: 10.16.0.0/15				
Ready: Ready Updated At: 2020-03-18 15:06:5	50			Create Router				× ed At: 2020-03-18 1	5:01:03			
				* Name :	Name							
Users		0		* Device Model :	IR901		~			0	Create Us	er
Name V Please enter		Email		* Serial Number:	Serial Numbe	r		Creation Time			Ro Expo	ion
xuyanmailbox@163.cor	m :	xuyanmailb	ox@163.cor					a month ago	2	0	± Mor	e∨
test Admin		888@hotm	ail.com					a month ago	2	0	소 Mor	e∨
测试		7444164350	@qq.com				Cancel	5 months ago	2	0	L Mor	e∨
xuyan-test Admin		xuyan@inha	and.com.cn		10.16.0.2	valid	Never logged in	5 months ago	L		L Mor	e∨
									×	1 >	10 / page \	
Routers									C		Create Rout	er

Figure Add a router to InConnect

inhand	Administration >> System	English	中文 Username: adm
Administration •		Your password has security risk, please click here to change! 🕷]
Network			Alarm
Services •	System Status	í	
Link Backup	Name	Router-9910	Total Alarms: 0
Routing	Model	IR915P	Alarm Summary
Firewall •	Serial Number	RP9151735030005	
VPN +	MAC Address	0018.0507.2d00	stop
APP		0018.0507.2d01	Stop
Industrial	Firmware Version	1.0.0.r10406	
Tools	Bootloader Version	2011.09.r7903	
Wizards •	Davica Tima	2020 02 25 17:00:42	
	Device time	2020-03-25 17.09.42	
	PC Time	2020-05-25 17:09:43 Sync Time	
	Op time	9 days, 03:17:09	
Save Configuration	Memory consumption Total/Free	120.15MB / 39.34MB (32.74%)	
	Network Status		
	Cellular 1 [Settings]		
Copyright ©2001-2019	Status	Disconnected	
All rights reserved.	Signal Level	. (0 asu -113 dBm)	
	Desister Chetur	see tabala a	

Figure Router web page

 If the router is displayed in the Router List, the router is added. InConnect allocates a virtual IP address for the added router. After the InConnect client is installed and configured, you can use this virtual IP address to remotely access the router. For more details, see 4. Install the Client.

Q Mu ind.com.cn	ultiple Virtual IP 10.16.0.2	Account Sta valid	tus Login State Logged out 15 hours ago	Creation Time 5 months ago	Create User Es Export Action < 1> 10/page ∨
© Mu ind.com.cn	ultiple Virtual IP 10.16.0.2	Account Sta valid	tus Login State Logged out 15 hours ago	Creation Time 5 months ago	C Create User
⊙ Mu ind.com.cn	ultiple Virtual IP 10.16.0.2	Account Sta	tus Login State Logged out 15 hours ago	Creation Time 5 months ago	Create User Image: Second
© Mu ind.com.cn	ultiple Virtual IP 10.16.0.2	Account Sta valid	tus Login State Logged out 15 hours ago	Creation Time 5 months ago	5₀ Export Action 2 2 1 4 1 4 1 1 10/page ∨
⊘ Mu and.com.cn	ultiple Virtual IP 10.16.0.2	Account Sta	tus Login State Logged out 15 hours ago	Creation Time 5 months ago	Action 2 □ ↓ More~ (1) > 10 / page ∨
and.com.cn	10.16.0.2	valid	Logged out 15 hours ago	5 months ago	∠ More∨ < 1 > 10 / page ∨
					< 1 > 10 / page <
					O Create Bouter
۹					Export
Serial Number	Subnet	Virtual IP	Login State	Current Version	Action
RP9151735030005	10.16.4.0/24	10.16.0.9	Logged in 15 hours ago	1.0.0.r10406	
					< 1 > 10 / page >
	Serial Number RP9151735030005	Serial Number Subnet RP9151735030005 10.16.4.0/24	Serial Number Subnet Virtual IP RP9151735030005 10.16.4.0/24 10.16.0.9	Serial Number Subnet Virtual IP Login State RP9151735030005 10.16.4.0/24 10.16.0.9 Logged in 15 hours ago	Serial Number Subnet Virtual IP Login State Current Version RP9151735030005 10.16.4.0/24 10.16.0.9 Logged in 15 hours ago 1.0.0.r10406

3.2. Configure Router Connection

After adding a router to InConnect, you need to configure the connection from the router to InConnect on the router web page. Before configuration, make sure that the router is connected to the network. For details about connecting devices to the network, see the appendix.

3.2.1. IR600-series Routers

After connecting a router to a PC, enter **192.168.2.1 or 192.168.1.1** on the browser, and then enter the login account **adm** and the password **123456** respectively to log in to the device web page. On the web page, choose **Services** >> **Device Networks**, enter **ics.inhandnetworks.com** in the **Server** field, and enter the email account you used to register the InConnect account in the **Registered Account** field.

System Network	Services Firewa	II QoS VPN	Tools	Application	Status	More Help
	Yo	ur password have security	risk, please click	here to change	!	InHand Networks Co., Ltd.
		Device	Manager			
nable	9					
ervice Type	InConnect Service •					
erver	ics.inhandnetworks.co	om 🔻				
egistered Account	xxx@inhand.com.cn	Sign up/Sig	in in			
te Name						
3S info Upload Interval	1	Hours				
eries Info Upload Interval	1	Hours				
hannel <mark>K</mark> eepalive	30	Seconds				
Apply Cancel						

The page varies with the device firmware version. The actual page shall prevail.

3.2.2. IR900/IG900/VG710 Series

After connecting a router to a PC, enter **192.168.2.1** or **192.168.1.1** on the browser, and then enter the login account **adm** and the password **123456** respectively to log in to the device web page. On the web page, choose **Administration** >> **Device Networks** or **Device Manager**, select **InConnect Service** from **Service Type**, choose **ics.inhandnetworks.com** in the **Server Address** field, and enter the email account you used to register the InConnect account in the **Registered Account** field.

inistration	►		Your password has	security risk, please click here to cha
ork	*			
ces	Device Manager Enable			
Backup	Service Type	InConnect Service *		
ing	Server Address	ics.inhandnetworks.com •		
vall	Secure Channel			
	 Registered Account 	xuyan@inhand.com.cn	Sign up/Sign in	
	Site Name			
ustrial	Asset Number			
5	Show Advanced Options			
arde	•			

Click Apply & Save. If the status is Connected, the device is connected to InConnect:

inhand	Administration >> Device	e Networks	English	中文 Username: adm
	Status Device Networks	Device Management Legacy		Logout
Administration	•	Your password has security risk, please click here to	o change! ×	
Network	•			Alarm
Services	Device Networks			
Link Backup	 Device Networks 	Connected		Total Alarms: 0
Routing	 Description 	Connection Accepted		Alarm Summary
Firewall	•			
VPN	•		Manual Refresh * Refresh	in 3 s ▼
APP	*			Stop
Industrial	*			
Tools				
Wizards	*			
Save Configuration				
Copyright ©2001-20	19			
All rights reserved.	Ltd.			
2000 1				

ANote

The page varies with the device firmware version. The actual page shall prevail.

4. Install the Client

InConnect automatically creates a secure connection channel for the accessed router. You can install and configure the client on a local PC or a mobile phone to access the secure connection channel to access and control the remote onsite devices.

4.1. Install and Use OpenVPN in Windows

1. Download the OpenVPN client to InConnect and install the client.

🚫 InConnect	Server	Config	Firmware	Administration		Download Client	8 xuyan-test	۲	0
Home / Server									
Group: default				Address: ap.ics.inhandiot.com:16361	Subnet: 10.16.0.0,	/15			- 1
Ready: Ready				Created: Created	Created At: 2020-	03-18 15:01:03			- 1
Updated At: 2020-03-18 15:06	5:50								- 1
Ready: Ready Updated At: 2020-03-18 15:06	5:50			Created: Created	Created At: 2020-	03-18 15:01:03			

2. In the **Users** list of InConnect, download the configuration file.

😂 InConnect	Server Co	onfig Firmw	are Administr	ation				Client 📀 xu	yan-test 🌐
ne / Server									
up: default			Addr	ess: ap.ics.inhand	iot.com:16361		Subnet: 10.16.0.0/15		
dy: Ready			Creat	ed: Created			Created At: 2020-03-18 15:01:03		
ated At: 2020-03-18 15:06	:50								
Users								0	Create User
Name V Please ente	er Username	٩							📾 Export
Name	Email		⑦ Multip	e Virtual IP	Account Status	s Login State	Creation Time		Action
xuyan-test Admin	xuyan@	inhand.com.cn		10.16.0.2	valid	Logged out 15 hours ago	5 months ago	20	⊥ More⊻
								< 1 > [10 / page \vee
Routers								0	reate Router
Name V Please ente	er Router Name	٩							s Export
				Culturat	Virtual ID	Login State	Current Version		0.00
Name	Signal	Serial Nur	nber	subnet	VITUATIP	Login state	current version		Action

3. On the OpenVPN GUI shortcut, click Run as administrator. Click the icon 🗊 in the lower-right corner, and then click **Import file** to import the configuration file to the OpenVPN client.

Connect
Disconnect
Reconnect
Show Status
View Log
Edit Config
Clear Saved Passwords
Import file
Settings
Exit

4. Click **Connect**. When the icon turns green, the current user is connected to the secure connection channel.

Re	econnect
Sh	iow Status
Vi	ew Log
Ec	lit Config
Cl	ear Saved Passwords
Im	port file
Se	ttings
Ex	it



5. Test whether the virtual IP address of the router can be accessed.

The address cannot be pinged when Windows Defender Firewall is enabled. We recommend that you disable the firewall or enable ICMP first.

P Customize Settings			- 0	×
← → ∽ ↑ 🔗 > Control Panel → System ar	nd Security > Windows Defender Firewall > Customize Settings	ٽ ~	Search Control Panel	
Cu	stomize settings for each type of network			
You	can modify the firewall settings for each type of network that you use.			
Priv	vate network settings			
	O Turn on Windows Defender Firewall			
	Block all incoming connections, including those in the list of allowed apps			
	Notify me when Windows Defender Firewall blocks a new app			
	Turn off Windows Defender Firewall (not recommended)			
Pub	olic network settings			
	🗩 🔿 Turn on Windows Defender Firewall			
	Block all incoming connections, including those in the list of allowed apps			
_	Votify me when Windows Defender Firewall blocks a new app			
	Turn off Windows Defender Firewall (not recommended)			
	V			
	ОК	Cancel		

Open **Command Prompt** of Windows and ping the router's virtual IP address 10.16.0.9:

S InConnect	Server Co	nfig Firmwar	re Administratio	n				d Client 🔕 xuyan-test 🛞
ne / Server								
up: default			Address	ap.ics.inhandi	ot.com:16361		Subnet: 10.16.0.0/15	
dy: Ready			Created:	Created			Created At: 2020-03-18 15:01:03	3
lated At: 2020-03-18 15:06:	50							
Users								C Create User
Name V Please ente	r Username	۹						🕫 Export
Name	Email		⑦ Multiple	Virtual IP	Account Status	Login State	Creation Time	Action
xuyan-test Admin	xuyan@	inhand.com.cn		10.1 <mark>6.0.2</mark>	valid	Logged out 15 hours ag	5 months ago	∠ ① L More×
								< 1 > 10 / page <
Routers								C Create Router
Name V Please ente	r Router Name	Q			1			🔯 Export
Name	Signal	Serial Num	ber Sub	net	Virtual IP	Login State	Current Version	Action

If the address can be pinged, the current user is interconnected to the remote router, as shown in the following figure:



4.2. Install and Use OpenVPN in Android Systems

1. Scan the QR code in InConnect to download the OpenVPN client of the Android edition:



2. Install the client. The running page is as follows:



Please note that you can only import profile using URL if it is supported by your VPN provider

-	

- 3. Download the OpenVPN configuration file from InConnect and send the file to your mobile phone.
- 4. Click FILE, select a configuration file, and then choose IMPORT >> ADD.



الد ^ي الم ^ي دين الم	© 1□1 ■1 09:06	الد؛ الد ^ي وتق مع	0 IDI	09:06
← Imported Profile	ADD	≡ Profile	es	1
Profile successfully impored the successf	rted	DISCONNECTI Ope ap.ic Ixuy	ED nVPN Profile s:sinhandnetworks.com an@inhand.com.cn]	0

5. After OpenVPN is connected, use the ping tool of the mobile phone, enter the router's virtual IP address, and test whether the address can be pinged. If the address can be pinged, the current user is interconnected to the remote router.

00° ".il ".il =	०~ ୖୖ୕୰ Ⅰ ΩI 🔤 09:26	œ ، ال، ⁴ ال، ⁴ وœ	ন্দ 🗇 🗊 💷 09:33
E Profiles		Ping Ping	:
		IP: 10.16.0.9	10
	2NI Profile	Stop	0
ap.ics.in [xuyan@	handnetworks.com pinhand.com.cn]	64 bytes from 10.16.0.9: i time=79.8 ms	cmp_seq=1 ttl=64
CONNECTION ST	ATS	64 bytes from 10.16.0.9: i time=78.8 ms	cmp_seq=1 ttl=64
3KB/s		64 bytes from 10.16.0.9: i time=112 ms	cmp_seq=1 ttl=64
oB/s			
	T BYTES OUT		
DURATION 00:00:24	PACKET RECEIVED 20 sec ago		
YOU	•		
YOUR PRIVATE IP	•		

5. Remotely Access the Router's Downstream Devices(like PLCs, HMIs, etc.)

Add downstream devices(like your PLCs, HMIs, Camera, and so on.) of a router to InConnect so that the user can access and control them from workstation.

When a downstream device is added, InConnect automatically delivers the running configuration to create a secure network connection.

The procedure is described below:

1. On the Services page, click Device Management.

ted At: 2020-03-18 15:06:	50								
Jsers								0	Create User
Name V Please enter	r Username 🔍 🔍								🖡 Export
Name	Email	(⑦ Multiple	Virtual IP	Account Status	s Login State	Creation Time		Action
-	vuvan@inhand	.com.cn (10.16.0.2	valid	Logged out 15 hours ago	5 months ago	2	⊥ More∨
xuyan-test Admin	, agon <u>e</u> mano							< 1 >	10 / page \vee
Routers								< 1 >	10 / page ∨ Create Router
xuyan-test Admin kouters Name V	Router Name Q							< 1 >	10 / page ∨ Create Router
Routers Name V Please enter Name	r Router Name Q Signal S	erial Number	Subr	net	Virtual IP	Login State	Current Version	< 1 >	10 / page ∨ Create Router
Kouters Name Please enter Office Router Unit	Router Name Q Signal S .ntl R	erial Number P9151735030005	Subr 5 10.11	net 6.4.0/24	Virtual IP 10.16.0.9	Login State Logged in 16 hours ago	Current Version 1.0.0/10406	< 1 > 0 0	10 / page ∨ Create Router

2. Enter the IP address of the downstream device. InConnect automatically maps a virtual IP address for the downstream device. You can add a maximum of 254 downstream devices for each router.

As shown in the following figure, the real IP address of the downstream device is 192.168.2.1, and the mapped virtual IP address is 10.16.4.1.

Office Router U	nit			×
IP	Name	Virtual IP	Action	
192.168.2.1	PLC-1	10.16.4.1	0	*
192.168.2.1	Please enter name		6	

3. Ping the virtual IP address of the downstream device and check whether the device can be accessed remotely.



6. Management Function

6.1. User Management

1. Add a User

On the home page, click **Create User** to create an account for another system user.

sers							Create User
Name \vee Please enter	Username Q						≣ ⊳ Export
lame	Email	⑦ Multiple	Virtual IP	Account Status	Login State	Creation Time	Actio
xuyan-test Admin	xuyan@inhand.com.cn		10.16.0.2	valid	Logged in 2 minutes ago	5 months ago	A D I More

2. Role Description

InConnect supports two user roles and each role has different permissions on system functions:

Organization administrator: has all permissions.

Device administrator: only has permissions of basic operations on the devices.

3. Multi-terminal Description

If **Multiple** is enabled for a user, the user can access remote devices on multiple terminals in a secure manner.

6.2. Router Management

6.2.1. Router Details

Choose Service >> Routers >> Name and check the router details.

tod Att. 2020 02 10 15:0	ISIED	- In the second second	ridninistration				Downie	wanor vega 👦
iteu At: 2020-03-18 15:0	0.50							
Jsers								Create User
Name V Please en	ter Username	۹						₽ Export
Name	Email		③ Multiple	Virtual IP	Account Status	Login State	Creation Time	Action
xuyan-test Admin	xuyan@inh	hand.com.cn		10.16.0.2	valid	Logged out an hour ago	5 months ago	∠ □ ± More×
								< 1 > 10 / page <
outers								< 1 > 10 / page <
outers Name V Please en	ter Router Name	٩						<
touters Name V Please en	ter Router Name Signal	Q Serial Number	Subn	et	Virtual IP Log	in State	Current Version	<
Name V Please en Name kouter Unit	ter Router Name Signal attl	Q Serial Number RP9151735030	Subm 005 10.16	et 4.0/24	Virtual IP Log 10.16.0.9 Log	in State ged out an hour ago	Current Version 1.0.0r10406	<
Name V Please en Name • Office Router Unit	ter Router Name Signal attil	Q Serial Number RP9151735030	Subn 005 10.16	et 4.0/24	Virtual IP Log 10.16.0.9 Log	in State ged out an hour ago	Current Version 1.0.0.r10406	<

You can perform operations on online routers, such as remote web management, remote configuration, forced offline, and firmware upgrade.

N InConnect	Server	Config	Firmware	Administration		J.	Download Client	횑 Mainor Vega 🏾 🛞 🕜
← Office Router Un	it Online	1				🖵 Web management	🕸 Remote config	uration 🖉 Edit
Serial Number: RP9151735030 Creation Time: 2020-03-25 17	D005 1:44:14			Device Models: IR900 Update Time: 2020-03-26 10:52:54		Firmware Version: 1.0.0. Online Time: 32 minute:	r10406 土 s ago upgrade	forced offline
Detailed Information								
IP:182.150.21.232 RSSI:allf 朝 Login Protocol:mqtt				Phone: IMSI: IMEI:		Address : Configure synchronization ICCID :	state: SYNC succeed	ed
Flow Status				2020-03	Connection Status	🕒 Charl	2020-03-2	5 ~ 2020-03-26 🗎
1.08 0.8 0.6 0.4 0.2					Abnormal Online Offline	12.00 03.75	00:00	10:54

6.2.2. Remote Web Management

You can access the router's web management page remotely through InConnect.

Click \square . The router's web management page is displayed, on which you can remotely manage the router.

lated At: 2020-03-1	18 15:06:50							
Users							o	Create User
Name V Ple	ase enter Username 🛛 🤇	2						5 Export
Name	Email	⊚ м	ultiple Virtual IP	Account State	us Login State	Creation Time		Action
🔋 xuyan-test 🖪	dmin xuyan@inha	nd.com.cn	10.16.0.2	valid	Logged out an hour ago	5 months ago	<u> </u>	ک Moreγ
							< 1	> 10 / page 🗸
Routers							0	Create Router
Name V Ple	ase enter Router Name 🛛 🕻	2						5 Export
Name	Signal	Serial Number	Subnet	Virtual IP	Login State	Current Version	<u></u>	Action
Office Router Un	it all	RP9151735030005	10.16.4.0/24	10.16.0.9	Logged out an hour ago	1.0.0.r10406	Q	
N	Administration >> Syste	em					English	中文 Username
nand	Administration >> Syste	em Your	password has see	curity risk, plea	ase click here to change!	¢	English	中文 Usernam GLogou
hand istration + rk +	Administration >> Syste Status Essic Setup	em Your j	password has see	curity risk, plea	ase click here to change! #	4	English	中文 Usernamo GeLogout
nand istration + rk + es +	Administration >> Syste Status Essic Setup	em Your j	password has see	curity risk, plea	ase click here to change!	8	English	中文 Usernamu GLogout
istration + rk + ss + ackup +	Administration >> Syste Status Basic Sotup System Status Name	em Your j Router-991	Dassword has see	curity risk, plea	ase click here to change!	4	English	中文 Usernamu Logout Alarm Total Alarms: 0 Alarm Summary
istration + rk + ss + ackup + g +	Administration >> Syste Status Essic Sotup System Status Name Model Social Numbers	Router-991 IR915P PP01512325	Dagoons	curity risk, plea	ase click here to change!	4	English	中文 Usernam 「Lagout 「Alarm Total Alarms: 0 Alarm Summary
hand istration / rrk / es / ackup / ig / il	Administration >> Syste Status Essic Setup System Status Name Model Serial Number MAC Address	em Your Router-991 IR915P RP91517355 0018.0507.2	password has see 0 030005 rd00	curity risk, plea	ase click here to change! a	4	English	中文 Usernam GLogout Alarm Alarm Summary 泉 3 6
hand istration / es / ackup / ig / ill /	Administration >> Syste Status Essic Setup System Status Name Model Serial Number MAC Address	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2	Dassword has see 0 030005 1400	curity risk, plea	ase click here to change!	8	English	中文 Usernamu Cogout Alarm Total Alarms: 0 Alarm Summary Suit 3 s
hand histration srk es ackup hg h ll h	Administration >> Syste Status Essic Setup System Status Name Model Serial Number MAC Address Firmware Version	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 1.0.0.r10400	Dassword has see 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	curity risk, plea	ase click here to change! #	4	English	Ф文 Usernamu Cologout Alarm Total Alarms: 0 Alarm Summary ‰ 3 s
nand istration b istration b	Administration >> Syste Status Desic Sotup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version	Router-991 IR915P RP9151735 0018.0507.2 00.010406 2011.09.r79	Dassword has see 0 030005 1300 1300 1300 1300 1300 1300	curity risk, plea	ase click here to change!	1	English	中文 Usernamu Glogout Alarm Total Alarms: 0 Alarm Summary 和 3 s
nand istration / istration /	Administration >> Syste Status Pasic Sotup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 1.0.0.r10406 2011.09.r79	Dassword has see D D D D D D D D D D D D D D D D D D	curity risk, plea	ase click here to change!	1	English	中文 Usernamu Gaogou Alarm Total Alarms: 0 Alarm Summary 系記 3 8
hand istration istra	Administration >> Syste Status Dasic Setup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 1.0.0.r10406 2011.09.r79 2020-03-26	Dassword has see D D D D D D D D D D D D D D D D D D	curity risk, plea	ase click here to change!	1	English -	中文 Usernami Cogour Alarm Total Alarms: 0 Alarm Summary 象 3 e
hand istration ork es ackup ackup ig ill it	Administration >> Syste Status Dasic Setup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time PC Time	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 1.0.0.r10400 2011.09.r79 2020-03-26 2020-03-26	Dassword has see D D300005 Cd00 Cd01 5 03 10:52:11 10:52:12 Sync Ti	curity risk, plea	ase click here to change!	t	English	中文 Usernam Cogou Alarm Total Alarms: 0 Alarm Summary % 3 s
hand	Administration >> Syste Status Desic Sotur: System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time PC Time Up time	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 1.0.0.r10400 2011.09.r79 2020-03-26 2020-03-26 9 days, 20:5	Dassword has see D D300005 kd00 kd01 j 03 10:52:11 10:52:12 Sync Ti 9:39	curity risk, plea	ase click here to change!	¢	English	中文 Usernam Logout Alarm Total Alarms: 0 Alarm Summary % 3 s
hand istration istra	Administration >> Syste Status Dacic Setup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time PC Time Up time CPU Load (1 / 5 / 15 min Memory consumption Total/Free	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 000-03.26 9 days, 20:5 9 days, 20:5 9 0.00 / 0.03 , 120.15MB /	Dassword has see D D D D D D D D D D D D D D D D D D	curity risk, plea	ase click here to change!	1	English	中文 Usernami Cogout Alarm Total Alarms: 0 Alarm Summary 家記 3 c
hand histration rrk ackup ackup ag ull trial configuration	Administration >> Syste Status Esci Setup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time PC Time Up time CPU Load (1 / 5 / 15 min Memory consumption Total/Free Network Status	Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 1.0.0.10404 2011.09.r79 2020-03-26 2020-03-26 9 days, 20:5 \$) 0.00 / 0.03 , 120.15MB /	Dassword has see 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	curity risk, plea	ase click here to change! 1	2	English	Φ文 Usernamu Alarm Total Alarms: 0 Alarm Summary s _m 2 3 s
hand instration instration instration instration instruction instructin instruction instru	Administration >> Syste Status Essic Setup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time PC Time Up time CPU Load (1 / 5 / 15 min Memory consumption Total/Free Network Status Cellular 1 [Settings]	m Your Router-991 IR915P RP9151735 0018.0507.2 0019.0507.2 00	Dassword has see 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	curity risk, plea	ase click here to change! #	4	English	Username Alarm Total Alarms: 0 Alarm Summary %
hand istration istra	Administration >> Syste Status Essic Setup System Status Name Model Serial Number MAC Address Firmware Version Bootloader Version Device Time PC Time Up time CPU Load (1 / 5 / 15 min Memory consumption Total/Free Network Status Cellular 1 [Settings] Status	m Your Router-991 IR915P RP9151735 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0018.0507.2 0019.0507 2020-03-26 9 days, 20:5 0.00 / 0.03 , 120.15MB / Disconnector	Dassword has see 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	curity risk, plea	ase click here to change! 1	a	English	♥文 Usernamu Calogour Alarm Total Alarms: 0 Alarm Summary % 3 s

6.2.3. Manually Deliver Configuration

After a router or a downstream device is added, InConnect automatically delivers the running configuration to create a secure network connection.

When a router is online but is in logout state, you can click the running configuration delivery button to create a connection again.

ame 🗸 Plea	ase enter Usernam	ie Q							Bo	Expo
lame		Email		③ Multiple	Virtual IP Account Status	Login State	Creation Time			Act
zhangning@inh	hand.com.cn	in zhangr	ning@inhand.com.cn		valid	Latest logged in 2 months ago	5 months ago	2 0		Mor
									10/r	ane
									1076	age
outers								0	Create	Rout
outers								0	Create	Rou
auters	ase enter Router N	lame Q						0	Create	Rou Expr
outers 4ame ∨ Plea ame	ase enter Router N Signal	lame Q Serial Number	Subnet	Virtual IP	Login State	Current Version		0	Create	Rou Exp Ac
outers Jame V Plea ame 万 备1	ase enter Router N Signal utll	lame Q Serial Number 15 693	Subnet 8 10.16.2.0/24	Virtual IP 10.16.0.3	Login State Logged out a month ago	Current Version 1.0.0.r0(test)-2019-12-13-00	-54-52	0	Create	Rou Exp Ac
ame ∑ 7 7 81	ase enter Router N Signal atil atil	lame Q Serial Number 15 693 12 75	Subnet 8 10.16.2.0/24 1 10.16.6.0/24	Virtual IP 10.16.0.3 10.16.0.6	Login State Logged out a month ago Logged out 2 months ago	Current Version 1.0.0.r0(test)-2019-12-13-00 1.0.0.r10406	-54-52	0	Create	Rou Exp Ac
outers Name ∨ Plea ame 了 备1 目动化展	ase enter Router N Signal attl attl attl	ame Q Serial Number 15 693 12 55 R 2	Subnet 8 10.16.2.0/24 1 10.16.6.0/24 1 10.16.3.0/24	Virtual IP 10.16.0.3 10.16.0.6 10.16.0.4	Login State Logged out a month ago Logged out 2 months ago Never logged in	Current Version 1.0.0:r0(test)-2019-12-13-00 1.0.0:r10406 1.0.0;9919	-54-52	0	Create	Rou Exp Ac

6.2.4. Update the Router Configurations in Batches

You can use this function to update the configurations of routers connected to InConnect in batches.

1. Add a Configuration Template

On page **Config**, and then click **+**. Select a configuration file or enter the configuration. On the local management page of the router, you can download the original configuration file, modify the configuration file, and then upload the modified configuration file to InConnect to update the router configurations in batches.

InConnect Server Config Firmw	are Administration	Doymicad Client. 🛞 xuyan-test 🌐 🎯
Home / Config		
Configuration List	Create Configuration Template	×
	* Template name: config-1	
Template name	Device Models: IR900 V	Status Action
	Import config file:	
	Configuration content: I #system config language Chinese hostname Router-9910 ip domain-name router.com.cn clock timezone UTC-8	
	Description:	

2. Click **Batch Config** and select the routers to which you want to deliver the configuration. Then, the configurations can be updated in batches. After receiving the configuration command, online devices update their configurations immediately, while offline devices will update their configurations after they are online again.

Server Server	Carlos Demonstra Administrativa			Constant)	Client 🛞 xuyan-test 🌐 🎯
Home / Config	Select Routers			×	
Configuration List	Name	Search	Reset		÷
	Router Name	Serial Number	Current Version	^	
Please enter template name	Office Router Unit	RP9151735030005	1.0.0.r10406		
Template name				Act	ion
config-1				Vie	w details Batch config 🛛 🗍
					< 1 > 10 / page <
				-	
	1 item selected Clear		< 1 > 10/	page 🗸	
			Cance		
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3. On the **Config** page, you can view the update progress and status of all the routers to which this configuration is applied.

C	Nonnect	Server	Config	Firmware	Administration			Download Clie	nt 횑 xuyan-test	۲	0
÷ ,	config-1										0
	Model: IR900			1	/ersion description:						
	I #system config language Chinese hostname Router-9910 ip domain-name router.cc clock timezone UTC-8 service password-encrypt I #log config I	om.cn								•	
	1 Selected routers			0 Pending		0 Executing	Complete	0 Failed			
	Selected routers								Batch	onfig	
	Router Name			Seri	ial Number		Current Version	Status			
	Office Router Unit			RP9	151735030005		1.0.0.r10406	Completed	×		

4. In the **Configuration List** section, you can view or delete a configuration or update configurations in batches.

🚫 InConnect	Server	Config	Firmware	Administration			Download Client	xuyan-test	۲	0
Home / Config										
Configuration List								÷		
Please enter template n	ame		Q	All Models	Y					
Template name				Device Creation Time Models	Description	Status	Action			
config-1				IR900 2020-03-26 10:22:01			View details	Batch config	0	
								1 > 10 / pag	je 🗸 🛛	
			c	Copyright © 2019 InHand Networks. A	A Global Leader in Industrial IoT. All Rights Reserved.					

6.2.5. Upgrade Router Firmware in Batches

You can use this function to upgrade the firmware for routers connected to InConnect in batches.

1. Add Firmware

On page **Firmware** and then click **+**. Select the firmware you want to upgrade and then click **OK**. The firmware is uploaded to InConnect.

No InConnect Server Config Firmware	Administration		Đ	ownload Client 🛞 xuyan-test 🛞
me / Firmware	Create Firmware	×		
Firmware List	Select the firmware:			+
	Ø IR9-V1.0.0.r11700.bin			
Firmware Name	Philipare Name, TK9-V1.0.0117700.001	1	Progress	Action
IR9-V1.0.0.r11700.bin	Firmware Version : V1.0.0.r11700		-	View details Batch upgrade
IR9-V1.0.0.r9919.bin	Device Models : IR900		no device added	View details Batch upgrade
				< 1) > 10 / page </td
	5 min	60 uin		
	Version description :			
		Cancel		

2. In the **Firmware List** section, click **Batch Upgrade**, and then select routers of which you want to upgrade the firmware. Then, the firmware is upgraded in batches. After receiving the upgrade command, online devices execute the upgrade task immediately, while offline devices will execute the upgrade task after they are online again.

C InConnect Server	Carlos Provincia Administra			Constand Client 🛞 xuyan-test 🛞 🛞
Home / Firmware	Select Kouters			X
Firmware List	Name	Search	Reset	+
	Router Name	Serial Number	Current Version	•
	Office Router Unit	RP9151735030005	1.0.0.r10406	
Firmware Name				Action
IR9-V1.0.0.r11700.bin				View details Batch upgrade 🛛 🗖
IR9-V1.0.0.r9919.bin				View details Batch upgrade 🛛 🗖
				< 1 > 10 / page V
	1 item selected Clear		< 1 > 10/pa	
			Cancel	ок
		Hand Networks. A Global Leader in Industria	al IoT. All Rights Reserved.	

3. On the **Firmware** page, you can view the upgrade progress and status of routers to which the firmware is applied.

	NConnect	Server	Config	Firmware	Administration			Download Client	xuyan-test	• •
÷	IR9-V1.0.0.r11700.bin									0
	Model: IR900				Firmware Version:	V1.0.0.r11700	Version des	scription:		
	1 Selected router	s		0 Pending		0 Executing	1 Completed	0 Failed		
	Selected routers								Batch up	ograde
	Router Name			Se	rial Number		Current Version	Status		
	Office Router Unit			RP	9151735030005		1.0.0.r10406	Completed	×	
									< 1 > 10 / page	e 🗸]
					Copyright © 2019 InH	and Networks. A Global Le	ader in Industrial IoT. All Rights Reserv	ved.		

4. In the **Firmware List** section, you can view or delete a firmware or upgrade the firmware in batches.

C InConnect Server C	onfig Firmware Administration		Download Client	(2) xuyan-test	۲	0
Home / Firmware						
Firmware List				Ŧ		
Please enter firmware name	Q All Models V					
Firmware Name	Device Firmware Version Creation Time Description	Progress	Action		_	
IR9-V1.0.0.r11700.bin	IR900 V1.0.0.r11700 2020-03-26 10:00:57		View details	Batch upgrade		
IR9-V1.0.0.r9919.bin	IR900 V1.0.0.r9919 2019-11-27 10:43:15	no device added	View details	Batch upgrade	Ð	
				< 1 > 10 / pa	ge 🗸)	
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6.3. System Management

6.3.1. Task

When viewing the tasks delivered by InConnect to routers, you can redeliver or cancel these tasks:

N InConnect	Server Config Fi	mware Administration	n					d Client	xuyan-t	est 🤅	•
8 Administration	Home / Administ	ration / Task									
🔁 Task											
Gonsumption	All	Executing 0	Pending 3	Failed	Completed					C	0
Billing	All types	✓ Plei	ase enter gateway i	name Q							
Audit log	Router Name	Туре	Status	Progress	Created By	Creation Time	Start Time	Update Time	Action		
Company Info	Office Router Unit	run config apply	COMPLETED	_	🛛 😗 System	3 minutes ago	3 minutes ago	3 minutes ago	С	0	
	Office Router Unit	Import Firmware Package	COMPLETED		🛛 😗 System	26 minutes ago	26 minutes ago	26 minutes ago	C	0	
	Office Router Unit	run config apply	COMPLETED	-	🛛 🥑 System	29 minutes ago	29 minutes ago	29 minutes ago	C	0	
	Office Router Unit	run config apply	COMPLETED		System	an hour ago	an hour ago	an hour ago	С	0	
	测试设备1	run config apply	PENDING		System	17 hours ago			C	0	
	15号泵站	run config apply	CANCELED		System	17 hours ago			C	0	
	35号泵站	run config apply	PENDING		System	17 hours ago			C	\otimes	
	Office Router Unit	fetch running config	COMPLETED		• 👩 System	17 hours ago	36 minutes ago	36 minutes ago	С	0	
*	Office Router	run config apply	CANCELED		🛚 😗 System	17 hours ago	17 hours ago	an hour ago	С	0	

6.3.2. Usage

You can use this function to record the traffic used for the router or the user to create the secure connections.

The total connection duration and total traffic are updated once every hour, and the detailed usage of routers and users is updated once every minute: 20

Administration	Server Config Firmware Administration Home / Administration / Consumption		Download Client 🙁 xuyan-test 🕮
Administration			
Task	Total Duration	Total Flow	
Consumption			
Billing	Total Access Time:		Total Flow:
Audit log	16h 49min		308.10 КВ
Company Info	16h 49min 27s		Uplink traffic: 181.54 KB Downstream traffic: 126.56 KB
	2020-03-26		
	2020-03-26	Used Traffic	Usage Time
	2020-03-26	Used Traffic 134.29 KB	Usage Time 9h 54min 5s
	2020-03-26	Used Traffic 134,29 KB	Usage Time 9h 54min 5s < 1 > 10 / page >

6.3.3. Settlement/Billing

InConnect is billed based on the traffic that is used to create the secure connections between all clients and users.

On the **Billing** page, you can recharge the account for the networking services provided by InConnect. Before payment, you must agree with the Payment Terms:



Note

To ensure normal service connection, InConnect provides a 10-GB traffic credit. If you do not recharge your account after the 10-GB traffic credit is used up, your InConnect service is suspended. After you recharge your account to the traffic credit, your service is restored immediately.

After recharging, you can view your charges details on the **Charges** tab page or download the recipient to view your order details. InConnect updates your usage logs periodically on the **Billing** page based on your usage. It sends a monthly bill through email on the first day of each month, indicating your traffic usage and billing information of the previous month:

🚫 InConnect	Server	Config	Firmware	Administratic	ən			Download Client	횑 Mainor Vega 🏾 🛞 🧕
Administration		Home / Admin	istration /	Settlement					
Task Consumption		Billin Vour acc soon to	ng count balanc avoid service	e has been in arre e suspended.	ars. Please recharge	Current Month's Bill \$ 0.49 / 200.70 MB	Account Balan \$ -2.96	ce⊚ Currer 8.8	ntly Available Traffic ()
Audit log									
E Company Info		Payment	i (Charges	Consumption Details	Monthly Bill			
		Order Num	iber	Order	Account	Time	Amount	Pay	Handle
		ICS2019123	31003	xuyan	@inhand.com.cn	2019-12-31 08:40:30	\$ 300	Credit-card	Download
		ICS2019103	81012	xuyan	@inhand.com.cn	2019-10-31 11:25:43	\$ 100	Credit-card	Download
								<	1 > 10/page V
~				Copyright © 20	19 InHand Networks. A Glo	bal Leader in Industrial IoT. All Rights Re	served.		

6.3.4. Company Information

On the **Company Info** page, you can maintain the background information of the current account's owner.

6.3.5. Log

You can view login and operations records of InConnect on the page of Audit Log.

7. **FAQ**

Q1: How many user accounts and routers can I add to one InConnect account?

A1: You can add a maximum of 4,000 user accounts and routers. You can connect a maximum of 254 downstream devices to each router.

Q2: Is it billed by bandwidth or by traffic?

A2: It is billed by traffic at a unit price of USD 2.5/GB.

Q3: What is the minimum monthly traffic for a router when it does not generate any traffic data and the network is normal?

A3: About 30-40 MB.

Q4: Where is the InConnect server deployed? Amazon in the U.S. or Amazon in China? 22

A4: For users inside China, the server is deployed in Amazon in China. For users outside China, the server is deployed in Amazon in the U.S.

8. Appendix Router Networking

The following takes IR915 as an example. For details about networking of other devices, see the hardware user manual or visit <u>https://www.inhandnetworks.com/.</u>

Disable the "cellular interface" when accessing the network without the SIM card; otherwise repeated dial-up is performed, interfering the network connection.

etv Stat	vork >> Cellular	
En	able	
	Apply & Save	Cancel

8.1. Method 1: Access the network through dial-up or SIM card

1. Insert the SIM card to the slot 1 and tighten the 4G LTE antenna to the ANT terminal.





When inserting or removing the SIM card, you must disconnect the device from the power supply to avoid data loss or damage to the device.

- 2. Open the browser and log in to the device. (See Method 2: Ethernet).
- Choose Network >> Cellular >> Enable. Wait until the network connection status is Connected and an IP address is allocated. Then, the network is connected through the SIM card. If a private network card is still used, fill in the dial-up parameter set.

Administration	•							Your pass	word has security	y risk, please click here to chang
Network	E.				_					
ervices	•	Enable								
ink Backup	•				SIM1	SIM2				
outing	•	Profile			auto	▼ auto ▼				
irewall		Roamin	ig							
		PIN Co	de							
PN		Networ	к Туре		Auto		•			
APP		Static II	5							
ndustrial	-	Connec	tion Mode		Alway	s Online 🔻				
ools	•	Redial I	nterval		10	s				
Wizards	•	ICMP D	etection Serv	ver						
		ICMP D	etection Inte	rval	30	s				
		ICMP D	etection Tim	eout	5	s				
		ICMP D	etection Max	Retries	5					
		ICMP D	etection Strie	t						
		Show A	Advanced Op	tions						
		Profile								
		Index	Network Type	APN		Access Number	Auth Method	Username	Password	
		1	GSM	3gnet		*99***1#	Auto	gprs	*****	
			GSM 🔻				Auto 🔻			
Save Configuration									Add[1/10]	
Save configurat	UII									



4. When two SIM cards are inserted to the device, select **Dual SIM Enable**.

	Status Cellular		Logout
•		Your password has security risk, please click here to change! *	
:	Enable	8	Alarm
		SIM1 SIM2	Total Alarms: 0
	Profile	• otus • otus	Alarm Summary
	Roaming	8 8	
	PIN Code		231 * Sh
•	Network Type	Auto *	
*	Static IP		
	Connection Mode	Adways Online *	
	Redial Interval	10 5	
•	ICMP Detection Server		
	ICMP Detection Interval	30 5	
	ICMP Detection Timeout		
	ICMP Detection Max Petries		
	ICMP Detection Strict		
	Show Advanced Ontions		
	Initial Commands		
	RSSI Poll Interval	120 (cf: disable)	
	Dial Timeout	120 6	
	MTH	100	
	MOL	100	
	Ure default anorman		
tion	Lice Deer DNS		
	LCP Interval	55 K(I)r (Itcable)	
	LCD Max Patrias	<u>a</u>	
	Infinitaly Dial rates		
	Dual SIM Enable	s	
	Main SIM	SAM ·	
	Max Number of Dial	8	
	Min Connected Time	0 Withdiable	
-2019	CSO Threshold	0 (0 (0 disable)	
Co. Ltd.	save missioned	a la lionaranti	

8.2. Method 2: Ethernet

1. Connect the LAN (FE 1/1 or GE1/1) port to a PC and the WAN port to the Internet.



2. Set the IP addresses of the PC and router to be in the same network segment.

Method 1: Automatically get the IP address (recommended)

Method 2: Use a fixed IP address. Set the EF/GF ports of the PC and router to be in the same network segment. Set the initial IP address of the router to 192.168.2.1 and the subnet mask to 255.255.255.0. Select **Use the following IP address**. Enter an IP address ranging from 192.168.2.2 to 192.168.2.254, a subnet mask 255.255.255.0, and the default gateway 192.168.2.1, and then click **OK**.

		for the appropriate IP settings.	
) <u>O</u> btain an IP address automati	cally	O Obtain an IP address autom	atically
) Use the following IP address:		• Use the following IP address	S:
^p address:	· · · ·	IP address:	192.168.2.10
ubnet mask:		Subnet mask:	255 . 255 . 255 . 0
efault gateway:		Default gateway:	192.168.2.1
) O <u>b</u> tain DNS server address au	tomatically	Obtain DNS server address	automatically
) Use the following DNS server a	iddresses:	• Us <u>e</u> the following DNS serve	er addresses:
		Preferred DNS server:	8.8.8.8
referred DNS server:			
referred DNS server: Jternate DNS server:	· · ·	Alternate DNS server:	

Automatically get the IP address

Use a fixed IP address

3. In the address bar of the browser, enter the default gateway address 192.168.2.1 to enter the gateway web login page.



4. Enter the username and password and then click Sign In.

http://192.1	68. <mark>2</mark> .1	
Your conne	ction to this site i	s not private
Username	adm	username : adm
Password	•••••	password : 123456

5. Choose **Network** >> **New WAN**. Configure an IP address for the WAN port to connect the router to Internet.

Wizards	New LAN
	New WAN
	New Cellular
	New IPsec Tunnel
	IPsec Expert Config
	New L2TPv2 Tunnel
Save Configuration	New Port Mapping

We recommend that you select Dynamic Address (DHCP). If you select Static IP
 Address, manually configure the network parameters and then save the configuration.

		New WAN	Your password has secur
rds >> New WAN		Interface	fastethernet 0/1 V
WAN		Туре	Static IP 🔹
	Your password has security risk please click he	Primary IP	10.5.16.156
		Netmask	255.255.255.0
erface	fastethemet 0/1 x	Gateway	10.5.16.1
e	Dynamic Address (DHCP) V	Primary DNS	8.8.8.8
-		NAT	×

Dynamically allocate the IP address

Configure parameters of the static IP address

 Choose Tools >> Ping. In the Host field, enter a common Chinese website to test whether the router can connect to the Internet. If the following figure is displayed, the router can connect to the Internet.

inhand	Tools >> Ping English	中文 Username: adm
Administration	Your password has security risk, please click here to change! *	
Network •		Alarm
Services +		Aidin
Link Backup	Host baidu.com Ping	Total Alarms: 0
Routing +	Ping Count 4	Alarm Summary
Firewall	Packet Size 32 Bytes	
VPN +	Expert Options	% 3 s ▼
App +		Stop
Industrial	PTNG baidu.com (220.181.38.148): 32 data hvtes	
Tools +	40 bytes from 220.181.38.148: seq=0 ttl=53 time=40.986 ms	
Wizards +	40 bytes from 220.181.38.148; seq=1 tti=53 time=40.465 ms 40 bytes from 220.181.38.148; seq=2 tti=53 time=39.263 ms	
Save Configuration	we bytes from 200181-30148: Segas Starss Time=w0.912 MS baidu com ping statistics 4 packets transmitted, 4 packets received, 0K packet loss round-trip min/avg/max = 39.263/40.406/40.986 ms	
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8.3. Method 3: Wi-Fi

1. Use a network cable to connect the PC to the gateway LAN port, and connect the Wi-Fi antenna to the WLAN1/2 port.



- 2. Set the IP addresses of the PC and the router to be in the same network segment. (See <u>Method 2: Ethernet</u>).
- 3. Access the device web management page. (See Method 2: Ethernet).

 Choose Network >> WLAN, select Client from Interface Type, enter the Wi-Fi parameters, and then click Apply & Save. Click the Status tab. The network connection status is Connected.

hand	1	Network >> Wi-Fi Status Wi-Fi IP Setup SS	ID Scan	
inistration	- >			Your password has security risk, please click here to change! *
work ices Backup ting	+ + + +	Enable Station Role Default Route	✔ Client ▼	
wall N	+ + +	SSID Auth Method Encrypt Mode	inhand1-5G Scan WPA2-PSK V AES V	
ustrial Is	+	WPA/WPA2 PSK Key		
dius		Apply & Save Ca	ncel	
inhand		Network >> Wi-Fi	SID Core	

	Status Wi-Fi IP Setup	SSID Scan	Manual has so with vide along a did have to show at the
Administration			Your password has security risk, please click here to change: *
Network	MIL EL CANANA		
Services	vvi-Fi Status		
Link Backup	Station Role	Client	
Routing	 Status 	Connected	
Firewall	 SSID 	inhand1-5G	
VPN	MAC Address	04:7f:0e:01:98:37	
APP	Auth Method	WPA2-PSK	
to do at to t	Encrypt Mode	AES	
Industrial	IP Address	192.168.200.78	
Tools	Netmask	255.255.255.0	
Wizards	Gateway	192.168.200.1	
	DNS	61.139.2.69 202.98.96.68	
	Connection time	0 day, 00:00:06	

5. Choose **Wizards** >> **New WAN**, and configure the parameters as follows:

inhand	Wizards >> New WAN		
Administration	•		Your passv
Network			
Services	Interface	dot11radio 1	
Link Backup	Туре	Dynamic Address (DHCP) V	
Routing	▶ NAT	2	
Firewall	Apply & Save	Cancel	
VPN	Apply & Save	Cancer	
APP	•		
Industrial	•		
Tools	•		
Wizards	•		

 Choose Firewall >> Network Address Translation (NAT). If a connection named dot11radio 1 is displayed, Wi-Fi is connected.

nistration	•				Your passwor	d has security risk, please click here to change!
vork	+ Network A			-		
vices	Network Ad	idress Transia	tion(IVAT) Rul	es		
Backup	Action	Source	Match	Translated Address	Description	
ting	▶ SNAT	Inside	ACL:100	cellular 1		
/all	▶ SNAT	Inside	ACL:179	dot11radio 1		
	•			Add	Modify Delete	
	+					
strial	Inside Netw	ork Interface	5			
s	•	ID		Interface		
arde	•	1	gigat	oitethernet 0/1		
carus	2			۲]		
				Add[1/100]		
	Outside Net	work Interfa	ces			
		ID		Interface		
		1	de	ot11radio 1		
		2		cellular 1		
	3		gigabitethe	ernet 0/2 🔹		
				Add[2/100]		
	1					
	Annh	0.0				
		V V 0110 1	anco			