

Mobile data network sharing on Smart Logger 3000



Huawei Technologies Co. Ltd.

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This document describes the steps in order to share the mobile data from a 4G SIM Card inside Smart Logger 3000, to other devices through **WAN** or **LAN** port. Please note that the Smart Logger cannot behave like a wireless router. Only Ethernet cable connection is supported.

Procedure

Step 1 - Check your Smart Logger 3000 software version

This feature is available for the software versions equal with or later than - SmartLogger V300R001C00SPC040

Ensoire							English - 🕡 🕞
Enspire		Deployment	Wizard Over Viev	w Monitoring Query Setting	s Maintenance		II (<u>A</u> º <u>8</u> º <u>9</u> 0
Software Upgrade	Softw	are Upgrade					
Product Information				Select an upgrade file: Choose File	No file chosen Upload		
Security Settings		No.	Device	Device statu	s Curr. ver.	Target ver.	Upgrade Progres
System Maint.		1	Logger(Local)	۲	V300R001C00SPC040		
Device Log		2	PLC	٠	V100R001C72SPC210		
Onsite Test		3	33KTL(COM1-2)	0	V200R001C90SPC116		
License Management							
– Device Mgmt.							
Connect Device							
SmartModule							
Device List							
Export Param.							
Clear Alarm							
Data Re-collection	•						
Adjust total energy yield	✓ Soft	ware Upgrade	Stop Upgrade				
Time 2021-01-28 17:17					🐝 Copyright ©		

Step 2 – Insert the SIM Card in a mobile phone and activate the Internet subscription

Check using a mobile phone if you can access the Internet using the mobile data from the SIM Card.

Using the mobile phone set a PIN code for SIM or Disable PIN security.

Step 3 – Insert the SIM card in the Smart Logger SIM Slot







Step 4 – Enter the PIN code of the SIM card (if the SIM has a PIN)

Step 5 – Set APN Mode to Automatic

🗲 @ power system	English v 🔞 🕞
Enspire	Deployment Wizard Over View Monitoring Query Settings Maintenance 44 1 🛕 🔒 🚇
🛢 User Param.	A WLAN
Date&Time	WLAN Always ON 🗸
Plant	SSID Logger_101980105963
Revenue	Password [a-z;/A-Z;/0-9'(8-19 characters, at least two types of characters)
Save Period	Submit
E Comm. Param.	Mobile Data(4G/3G/2G)
Wireless Network	Monthly traffic package 0.00 [0.00, 1024.00] MB
Wired Network	* Network mode 4G/3G/2G automatic ▼
RS485	APN mode Automatic V
Management System	Authentication type CHAP ~
Modbus TCP	APN internet
IEC103	APN dialup number *99#
IEC104	APN user name
FTP	APN user password
Email	Submit
Power Adjustment	•
Time 2021-01-27 23:19	Grid dispatch P : Disable Q : Disable Q : Disable 🖇 Copyright © Huawei Technologies Co., Ltd. 2020. All rights reserved.



Step 6 – Check the mobile data status

Enspire		English v 🕧 🕞
Enspire	Deployment Wizard Over View Monitoring	Query Settings Maintenance
• Plant Running Info.	Mobile Data	
 Active Alarm 	IMEI	866758049034511
• Plant Yield	SIM card No.	8940101610180364765F
Performance Data		The card is in position.
	IP address	
Device Running Info.	Signal strength	Medium
Mobile Data	Network operator	orange orange
	Network standard	4G
	Monthly used traffic	0.00MB
	Monthly remaining traffic	0.00MB
	Average daily used traffic	0.00MB
	Traffic status	No package configured
h Time 2021-01-27-23:19	Grid dispatch P : Disable Q : Disable	📣 Copyright © Huawei Technologies Co., Ltd. 2020. All rights reserved.

Step 7 – Set the Mobile network sharing to Enable

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Enspire	Deployment Wizard Over View Monitoring O	Query Settings Maintenance 46 (A.9. 1.9. 0.9.)
🗉 User Param.	Other Parameters	
Date&Time	RS485 upgrade rate autonegotiation	Enable 🗸
Plant	Data forwarding	Enable v
Revenue	IEC104 Push Data Period	0 [0, 3600] s
Save Period	Al1 SPD detection alarm	Disable V
	STS overtemperature protection	Enable
Power Adjustment	Reset the external router	No control V
	Mobile network sharing	Disable V Disable
Remote Shutdown	Third party server	Enable 🔮
O DI	Target Net	WAN ~
 Alarm Output 	SSH	
 Smart Tracking Algorithm 	Built-in MBUS collection interval	0(0, 15] s
		Submit
Other Parameters		
Time 2021-01-27 23:20	Grid dispatch P : Disable Q : Disable	🌉 Copyright © Huawei Technologies Co., Ltd. 2020. All rights reserved.



Step 8 – Set the mobile network shared port

This port define where the cable for third party devices should be connected in order to use the Smart Logger Internet. Set to **WAN** or **LAN** port (**WAN** Port Recommended).

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Enspire	Deployment Wizard Over View Monitoring O	Query Settings	Maintenance	🎋 👔 🔼 🎴 🔍 🔍 🔍
= User Param.	Other Parameters			
Date&Time	RS485 upgrade rate autonegotiation	Enable 🗸	•	
Plant	Data forwarding	Enable 🗸	•	
Revenue	IEC104 Push Data Period	0	[0, 3600] s	
Save Period	All SPD detection alarm	Disable 🗸	•	
	STS overtemperature protection	Enable 🗸	•	
Comm. Param.	Reset the external router	No control 🗸	•	
Power Adjustment	Mobile network sharing	Enable 🗸	•	
Remote Shutdown	Mobile network shared port	WAN Port 🗸 🗸		
• DI	Third party server	WAN Port 1 LAN Port 2		
	7 Target Net	WAN Y	-	
 Alarm Output 	SSH	Enable 🗸	•	
Smart Tracking Algorithm	Built-in MBUS collection interval	0	[0, 15] s	
Other Parameters		Submit		
		Submit		
Time 2021-01-28 00:13	Grid dispatch P:Disable Q:Disable		👋 Copyright © Huawei Techn	nologies Co., Ltd. 2020. All rights reserved.

Step 9 – Submit the settings am be aware about the vulnerability of Cyber-attacks by using this function

Ensoure system				English v 🔞 🕞
Enspire	Deployment Wizard Over View Monitoring	Query Settings	Maintenance	<u> </u>
User Param.	Other Parameters			
Date&Time	RS485 upgrade rate autonegotiation	Enable	~	
Plant	Data forwarding	Enable	~	
Revenue	IEC104 Push Data Period	0		
Save Period	All SPD detection alarm		×	
🗉 Comm. Param.	STS overtemperature protection Reset the external router		~	
E Power Adjustment	Mob	- Condor	~ 	
Remote Shutdown	Mobile n			
e Di		tion is enabled, the Sma blic network and vulnera	rtLogger will be exposed able to cyber attacks.	
 Alarm Output 		Confirm		
Smart Tracking Algorithm	Built-in MBUS collection interval	0	[0, 15] s	
Other Parameters		Submit		
h Time 2021-01-27 23:20			🐝 Copyright © Huaw	ei Technologies Co., Ltd. 2020. All rights reserved.



Step 10 – Check the Smart Logger LAN or WAN port parameters in order to configure the third party devices that should be connected on it.

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Enspire	Deployment Wizard Over View Monitoring Query Settings Maintenance	🧐 🚺 🚺 🛄 🖉 🛄 🖉
🛚 User Param.	Wired Network Parameters	
Date&Time	WAN/LAN port working mode WAN+LAN V	
Plant	WAN & SFP Port Parameters	
Revenue	DHCP Disable (Set it using the SUN2000 app.)	
Save Period	IP address 192, 168, 0, 10 0	
= Comm. Param.	Subnet mask 255, 255, 255, 0	
Wireless Network	Default gateway 192, 168, 0, 1 Primary DNS server 0, 0, 0, 0	
Wired Network	Secondary DNS server 0, 0, 0, 0	
RS485	LAN Port Parameters	
Management System	IP address 192, 168, 8, 10	
Modbus TCP	Subnet mask 255, 255, 255, 0	
IEC103	Submit 9	
IEC104	Submit	
FTP		
Email		
Power Adjustment		
Remote Shutdown		
• DI	*	
In Time 2021-01-28 00:14	Grid dispatch: P : Disable Q : Disable 🖉 Kopyright © Huawel T	echnologies Co., Ltd. 2020. All rights reserved.

In case of using **WAN** Port, check the **IP address** and **Subnet Mask** as below.

Step 11 – Connect the cable between third party device and Smart Logger and configure the TCP/IPv4 parameters of that device to be in the same rage with Smart Logger port. After this step the Internet will be available.

Networking Authentication Sharing	General
Connect using:	You can get IP settings assigned automatically if your network supports
Intel(R) Ethemet Connection (6) I219-LM	this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure This connection uses the following items:	Obtain an IP address automatically Use the following IP address;
Client for Microsoft Networks	IP address: 192.168.0.15
QoS Packet Scheduler Gos Packet Scheduler Internet Protocol Version 4 (TCP/IPv4)	Subnet mask: 255 . 255 . 255 . 0
Image: Microsoft Network Adapter Multiplexor Protocol	Default gateway: 192 . 168 . 0 . 10
Microsoft LLDP Protocol Driver	Obtain DNS server address automatically
Internet Protocol Version 6 (TCP/IPv6) <	Use the following DNS server addresses: address
-	
Install Uninstall Properties Description	Use the following DNS server addresses: address
Install Vninstall Properties	Use the following DNS server addresses: address Preferred DNS server: 8 , 8 , 8 , 8