

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 - SmartLoggerV300R001C00SPC040

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Enspire		Deployment V	Vizard Over View Monitoring Quer	y Settings	Maintenance		ll 🔔 🕛 🕐
Software Upgrade	So	oftware Upgrade					
Product Information			Select an upgrade file	Choose File No	file chosen Upload		
 Security Settings 	(No.	Device	Device status	Curr. ver.	Target ver.	Upgrade Progress
 System Maint.] 1	Logger(Local)	۲	V300R001C00SPC040		
 Device Log 	(2	PLC	•	V100R001C72SPC210		
 Onsite Test 	(3	33KTL(COM1-2)	0	V200R001C90SPC116		
License Management							
- Device Mamt							
Connect Device	1						
SmartModule							
Device List							
Export Param.							
Clear Alarm							
Data Re-collection							Þ
Adjust total energy yield	-	Software Upgrade					
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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

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E nspire	Deployment Wizard Over View Monitoring Query Settings Maintenance
🛢 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 v
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	•
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Step 6 – Check the mobile data status

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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	4G module status	The card is in position.
	IP address	NA
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	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 ~
+ Comm. Param.	STS overtemperature protection	Enable V
D Dower Adjustment	Reset the external router	No control V
• Fower Aujustment	Mobile network sharing	Disable V Disable
Remote Shutdown	Third party server	Enable 0
© DI	/ larget Net	WAN V
 Alarm Output 	Built in MBUS collection interval	
Smart Tracking Algorithm	Built-IN WBOS CONECTION INTERVAL	0 10, 1318
		Submit
 Other Parameters 		
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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	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 🗸		
Comm Dearm	STS overtemperature protection	Enable 🗸		
Comm. Param.	Reset the external router	No control 🗸 🗸		
Power Adjustment	Mobile network sharing	Enable 🗸		
e Remote Shutdown	Mobile network shared port	WAN Port 🗸 🗸		
DI	Third party server	WAN Port		
	Target Net	WAN		
C Alarm Output	SSH	Enable 🗸		
Smart Tracking Algorithm	Built-in MBUS collection interval	0	[0, 15] s	
Other Parameters		Submit		
		300/111		
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Step 9 – Submit the settings am be aware about the vulnerability of Cyber-attacks by using this function

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Enspire	Deployment Wizard Over View Monitoring	Query Settings	Maintenance	⁴⁶ 1 (▲º º º º)
User Param.	Other Parameters			
Date&Time	RS485 upgrade rate autonegotiation	Enable	~	
Plant	Data forwarding	Enable	~	
Revenue	IEC1D4 Push Data Period	0		
Save Period	All SPD detection alarm	Disable	×	
Comm. Param.	STS overtemperature protection	Enable		
Power Adjustment	Mob	- Condor	~ 	
Remote Shutdown	Mobile n			
e Di	After this fund to the pu	tion is enabled, the Sma blic network and vulnera	rtLogger will be exposed ble to cyber attacks.	
 Alarm Output 		Confirm		
Smart Tracking Algorithm	Built-in MBUS collection interval	0	[0, 15] s	
Other Parameters		Submit		
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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	4ª 👔 🔼 🛄 🛄 🔮
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	
= Comm. Param.	Subnet mask 255, 255, 255, 0	
Wireless Network	Default gateway 192, 168, 0, 1	
Wired Network	Secondary DNS server 0, 0, 0, 0	
RS485	AN Port Parameters	
Management System	IP address 192 168 8 10	
Modbus TCP	Subnet mask 255, 255, 255, 0	
IEC103	Cubmit 0	
IEC104		
FTP		
Email		
Power Adjustment		
Remote Shutdown		
• Di	*	
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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.

	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
Client for Microsoft Networks	IP address: 192, 168, 0, 15
Price and Printer Sharing for Microsoft Networks Post Scheduler Internet Protocol Version 4 (TCP/IPv4)	Subnet mask: 255 . 255 . 0
Microsoft Network Adapter Multiplexor Protocol	Default gateway: 192 . 168 . 0 . 10
Microsoft LLDP Protocol Driver	
Internet Protocol Version 6 (TCP/IPv6) V	Obtain DNS server address automatically Smart Logger WAN address
Internet Protocol Version 6 (TCP/IPv6) Install Uninstall Properties	Obtain DNS server address automatically Obtain DNS server addresses Smart Logger WAN, addresse Preferred DNS server: 8 . 8 . 8 . 8
Internet Protocol Version 6 (TCP/IPv6) Install Uninstall Properties Description	Obtain DNS server address automatically Obtain DNS server address automatically Obtain DNS server addresses Preferred DNS server:
Internet Protocol Version 6 (TCP/IPv6) Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Obtain DNS server address automatically Smart Logger WAN Use the following DNS server addresses: address Preferred DNS server: 8 , 8 , 8 , 8 Alternate DNS server: Validate settings upon exit Advanced Advanced