

DelREMO-V2.0

Local Configuration Details

10-Jan-2017
Version - 01



Requirement for DelREMO Configuration:

- Laptop with Windows 7 or Above (32/64 Bit OS)
- LAN cable (Straight)
- Data Card or Wi-Fi facility (Optional for remote access to Admin)
- Insulated Screw Driver Set
- Normal GSM SIM with GPRS activated **OR**
- Ethernet with DHCP (Dynamic Host Configuration Protocol) **OR**
- Static IP
- *Without Proxy & Firewall*
- Necessary, connected inverters and Sensors.

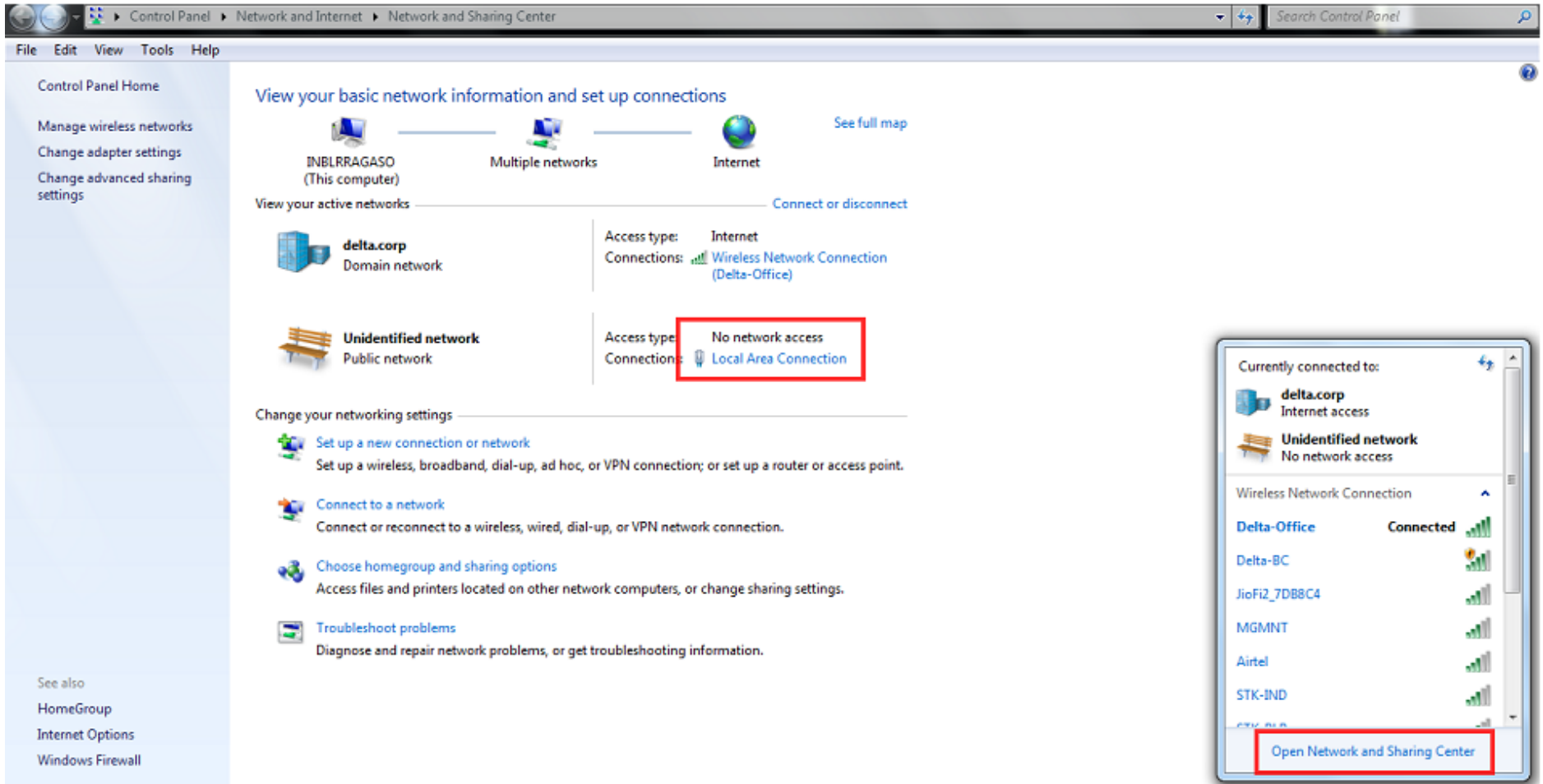


Connection to Laptop

- Un-pack the DelREMO from the box and take out the DelREMO and Adaptor from the box.
- Connect the adaptor to +24V and -24V at the DelREMO side and connect the adaptor to the power supply of $230 \pm 10V$.
- Now connect the LAN (Straight)cable from Laptop to DelREMO.
- Set you laptop for Default IP Address i.e. **192.168.100.29** and Subnet mask **255.255.255.0** (Follow the below slides)

Connection to Laptop

- Open Network and sharing centre and then click on [Local Area Network](#) and then follow the next slides..



The screenshot displays the Windows Network and Sharing Center interface. The main area shows 'View your basic network information and set up connections' with a diagram of the network topology: INBLRRAGASO (This computer) connected to Multiple networks, which is connected to Internet. Below this, 'View your active networks' lists two networks: 'delta.corp' (Domain network, Internet access) and 'Unidentified network' (Public network, No network access). The 'Unidentified network' section is highlighted with a red box, showing 'Access type: No network access' and 'Connections: Local Area Connection'. The 'Change your networking settings' section includes links for 'Set up a new connection or network', 'Connect to a network', 'Choose homegroup and sharing options', and 'Troubleshoot problems'. A sidebar on the left contains links for 'Control Panel Home', 'Manage wireless networks', 'Change adapter settings', and 'Change advanced sharing settings'. A bottom sidebar lists 'See also' links: 'HomeGroup', 'Internet Options', and 'Windows Firewall'.

Currently connected to:

- delta.corp Internet access
- Unidentified network No network access

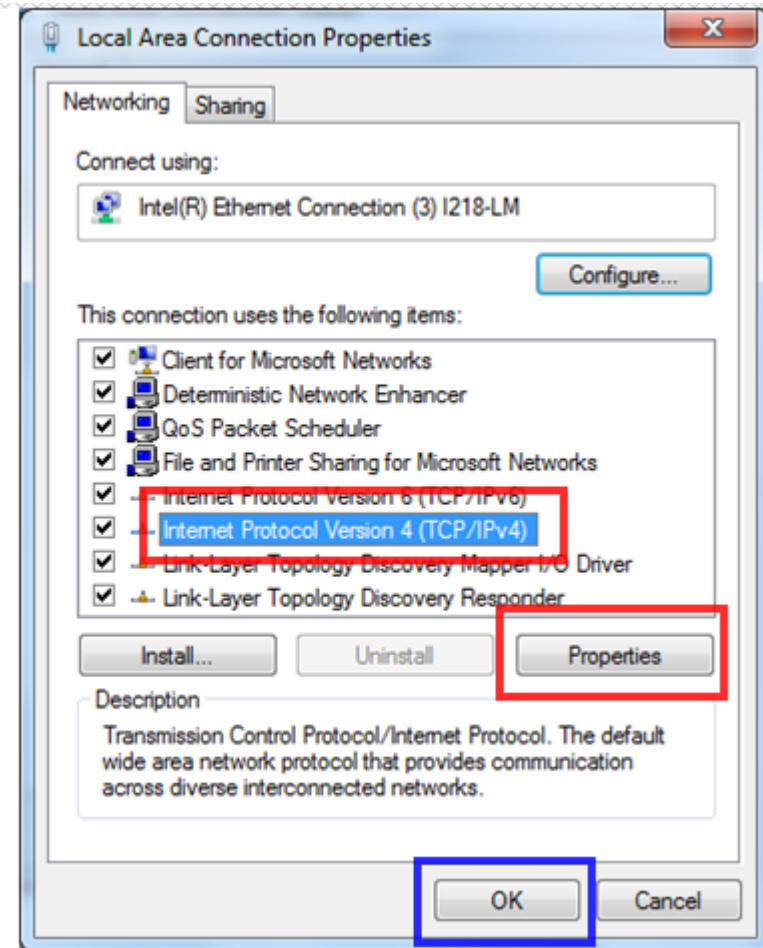
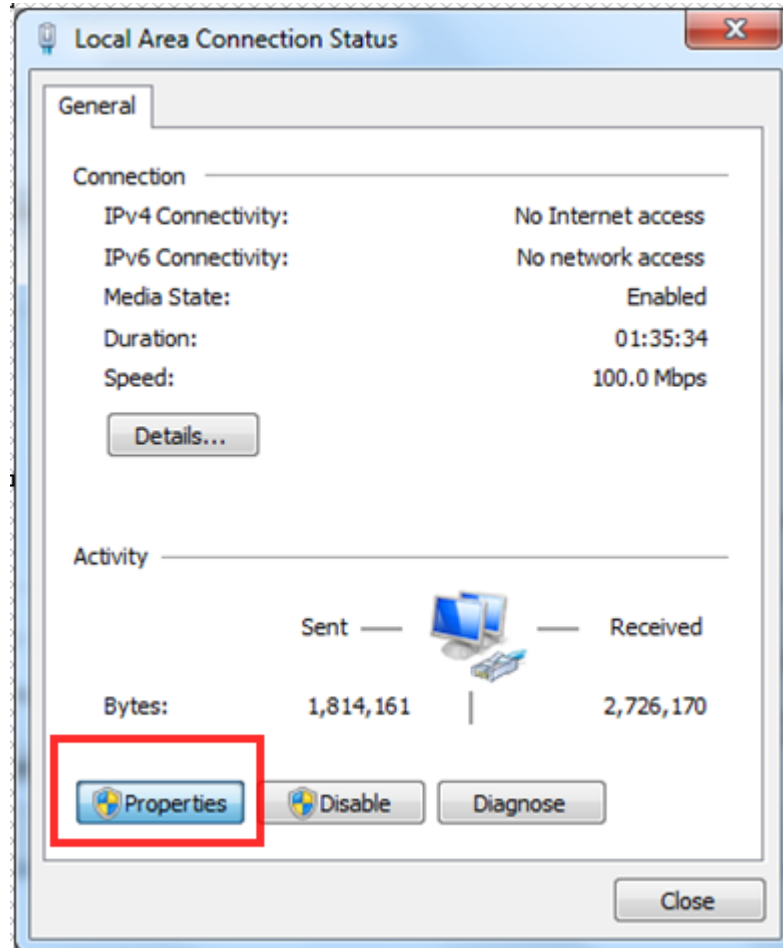
Wireless Network Connection

- Delta-Office Connected
- Delta-BC
- JioFi2_7DB8C4
- MGMNT
- Airtel
- STK-IND

[Open Network and Sharing Center](#)

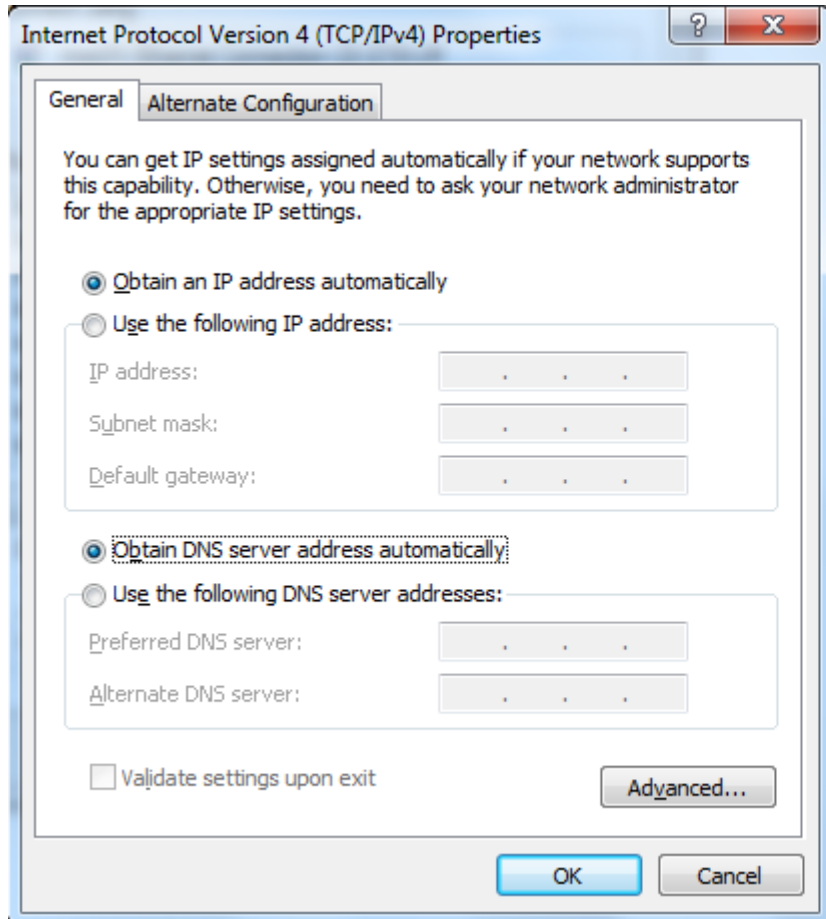
Connection to Laptop

- Click on Properties
- Click Internet protocol Version 4 (TCP/IPv4) as shown in below picture.



Connection to Laptop

- Click on Use the following IP Address
- Enter the IP Address as shown in the below picture and Press OK.



Internet Protocol Version 4 (TCP/IPv4) Properties

General Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☒ Obtain an IP address automatically

☐ Use the following IP address:

IP address: . . .

Subnet mask: . . .

Default gateway: . . .

☒ Obtain DNS server address automatically

☐ Use the following DNS server addresses:

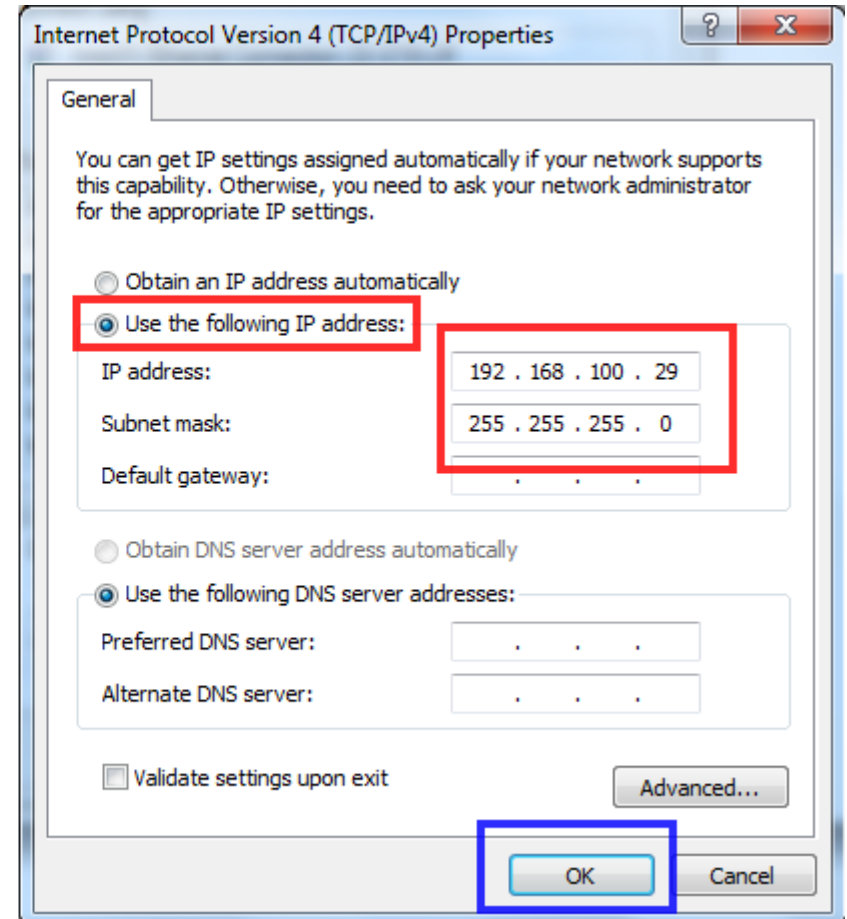
Preferred DNS server: . . .

Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel



Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 100 . 29

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

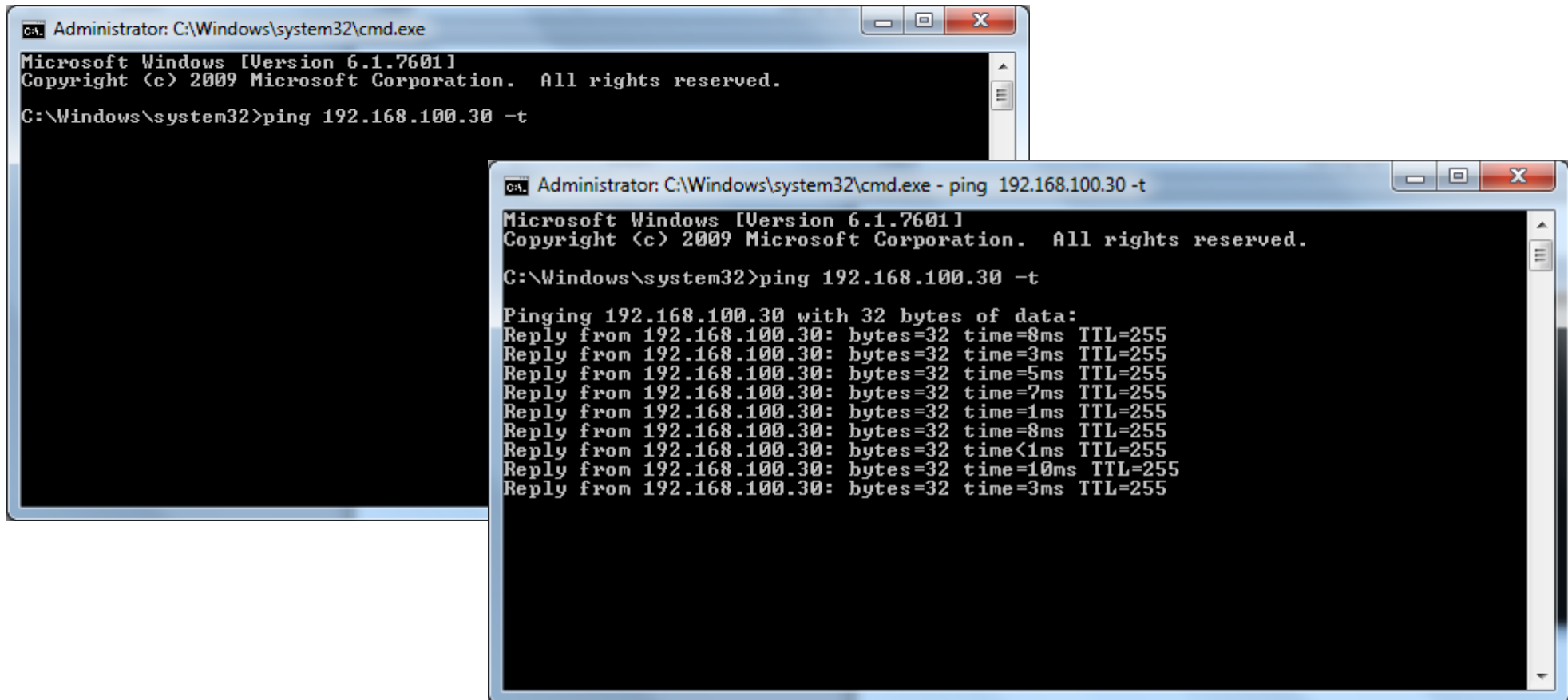
☐ Validate settings upon exit

Advanced...

OK Cancel

Connection to Laptop

- Open the Command page and ping the IP **192.168.100.30**
- Then you will get the reply from the IP **192.168.100.30** as shown in the 2nd picture. If you got the below response then the DelREMO is communicating with the Laptop.



The image shows two overlapping screenshots of a Windows Command Prompt window. The top window shows the command prompt with the command `ping 192.168.100.30 -t` entered. The bottom window shows the output of the command, which is a continuous stream of ping replies from 192.168.100.30, indicating a successful connection.

```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>ping 192.168.100.30 -t

Administrator: C:\Windows\system32\cmd.exe - ping 192.168.100.30 -t
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

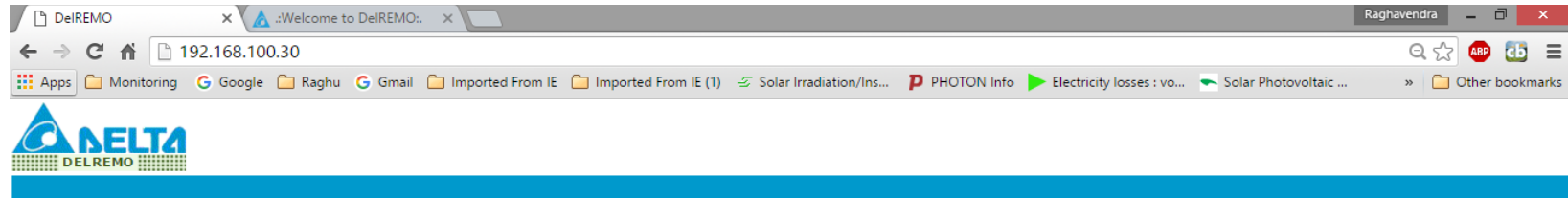
C:\Windows\system32>ping 192.168.100.30 -t

Pinging 192.168.100.30 with 32 bytes of data:
Reply from 192.168.100.30: bytes=32 time=8ms TTL=255
Reply from 192.168.100.30: bytes=32 time=3ms TTL=255
Reply from 192.168.100.30: bytes=32 time=5ms TTL=255
Reply from 192.168.100.30: bytes=32 time=7ms TTL=255
Reply from 192.168.100.30: bytes=32 time=1ms TTL=255
Reply from 192.168.100.30: bytes=32 time=8ms TTL=255
Reply from 192.168.100.30: bytes=32 time<1ms TTL=255
Reply from 192.168.100.30: bytes=32 time=10ms TTL=255
Reply from 192.168.100.30: bytes=32 time=3ms TTL=255
```



Local Configuration

- Open the *Google Chrome Browser* only
- Now enter the IP address **192.168.100.30** as shown in below picture.

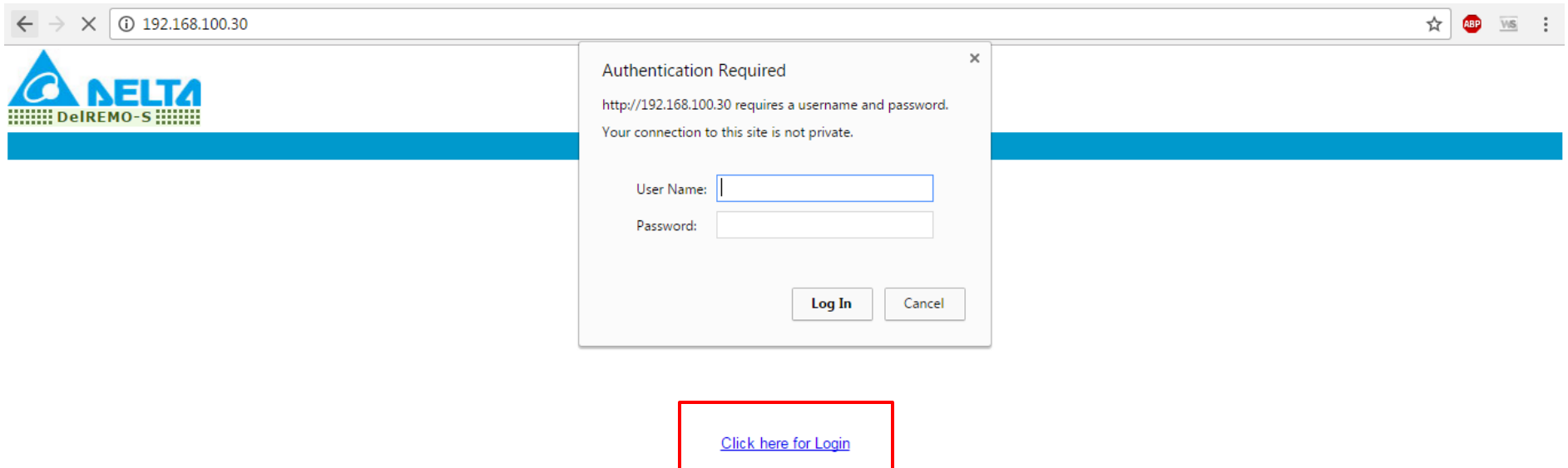


[Click here for Login](#)



Local Configuration

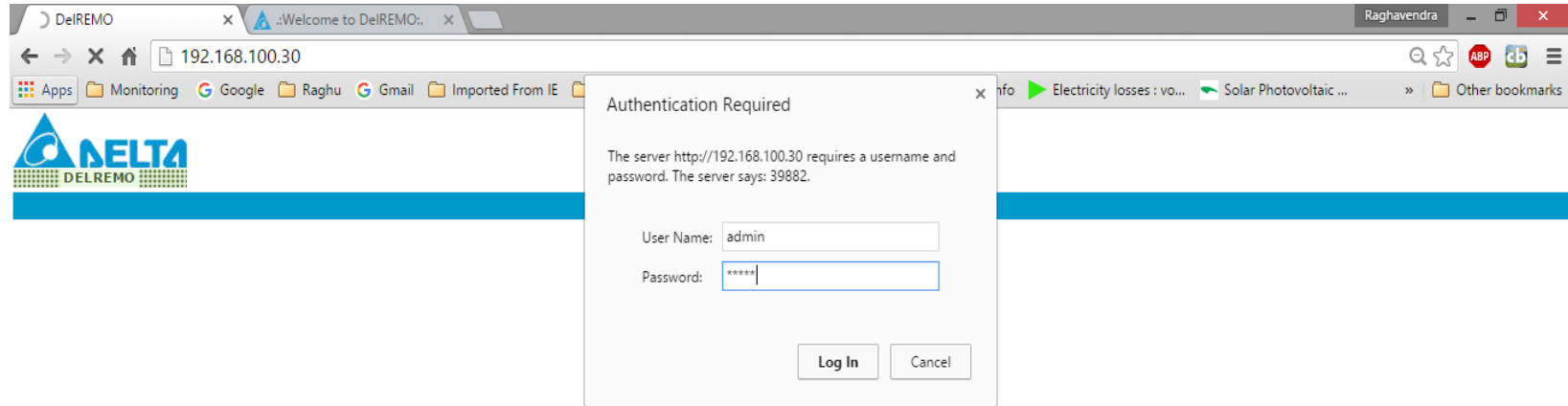
- [Click here](#) to Login.
- Login window will open





Local Configuration

- Enter User name as **admin**
- Password: **delta**




[Click here for Login](#)



Local Configuration

- After logging in Home Page will open as below

← → ↻ ⓘ 192.168.100.30/protect/index.htm ☆ ABP VMS ⋮

 DelREMO-S

31/01/2017 , 17:50:02

Welcome, admin | Logout Site ID : Demo Site Name : DelRemo PV Monitoring ?

• Home

- SiteStatus
- EMStatus
- InverterStatus
- + Interface
- Configure
 - Site
 - Sensors
 - Power Ctrl
 - Noc
 - Ports
 - AutoUpdate
 - Clock
- + Download
- + Upload
- Statistics
- Device Information

• Home

System Information

Status : SYSTEM_OK

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01


Copyright © 2012 Delta Electronics



Site Status

- Click on site status and you can see the Module Temperature sensor value, Ambient Temperature value, Irradiance sensor value, and Wind Sensor and Digital inputs values respectively .

← → ↻ 192.168.100.30/protect/index.htm ☆ ABP VMS

 DeIREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017 , 18:08:20

• SiteStatus

- EMStatus
- InverterStatus
- + Interface
- Configure
 - Site
 - Sensors
 - Power Ctrl
 - Noc
 - Ports
 - AutoUpdate
 - Clock
- + Download
- + Upload
- Statistics
- Device Information

• Measurements

DPs	Values
Solar Irr	000
Module Temp	-019
AI3(voltage)	000
AI4(voltage)	000
AI5(current)	000
AI6(current)	000
AI7(current)	000
AI8(current)	000
Digital Inputs	000
Digital Outputs	003
Power Control	000



Inverter Status

- Click on the Inverter status you can see the detected inverter as shown in the picture.

192.168.100.30/protect/index.htm

Apps Monitoring Google Raghu Gmail General True, Reactive, and Ap chandigarh sector 23

Other bookmarks

DELTA DelREMO-S

Welcome, admin | Logout

Site ID : DELREMO_DF Site Name : DelRemo PV Monitoring

02/01/2017 , 14:53:44

Home SiteStatus FMStatus **InverterStatus** + Interface + Configure + Download + Upload Statistics Device Information

Measurements

Inverters 1-5 6-10 11-15 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55 56-60

Parameters	Inv1	Inv2	Inv3	Inv4	Inv5
PollCycle	16				
SerialNo.	--	--	--	--	--
Last Comm	Failed	Failed	Failed	Failed	Failed
Com Quality	0/14	0/14	0/14	0/13	0/13
Inv. Status	0	0	0	0	0
AC Voltage	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000
AC Current	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000
AC Power	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000
AC Frequency	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000	0.000,0.000,0.000
DC Voltage	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000
DC Current	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000
DC Power	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000
Energy(Today,Total)	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000
Run Time(Today,Total)	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000	0.000,0.000
Power ctrl Type	000	000	000	000	000
Power ctrl value	000	000	000	000	000
Errors(Hex)	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000
Warnings(Hex)	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000
Faults(Hex)	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000	0000 0000 0000

Firmware: DelRemo_S_Firm_GNGW V1.04B3 Build Dec 16 2016 11:54:59
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics



Inverter configuration setting

- Now enter the site name and address.
- *Enter the inverter count as available in the site*

← → ↻ 192.168.100.30/protect/index.htm ☆ 🔴 🔴 🔴 🔴 🔴

DeIREMO-S

31/01/2017, 18:11:46

Welcome, admin | Logout Site ID : Demo Site Name : DelRemo PV Monitoring

• Home • SiteStatus • EMStatus • InverterStatus - Interface • Modem - Configure • Site • Sensors • Power Ctrl • Noc • Ports • AutoUpdate • Clock + Download + Upload • Statistics • Device Information

• Configuration → Site

Site Configuration

Site ID : Demo Site Name : DelRemo PV Monitoring Address : Bangalore

Inverters Settings

Inverter Count 5

Energy Meter Setting

Energy Meter ELite 440 Energy Meter Count 1

Submit

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics



Sensors Configuration

- *If the sensors are same which are supplied for DelREMO Ver 1 then no need to change the sensors values.*
- If customer using their own sensors then contact Support Team for Sensor Config.

← → ↻ 192.168.100.30/protect/index.htm ☆

DELTA
DelREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017 , 18:12:06

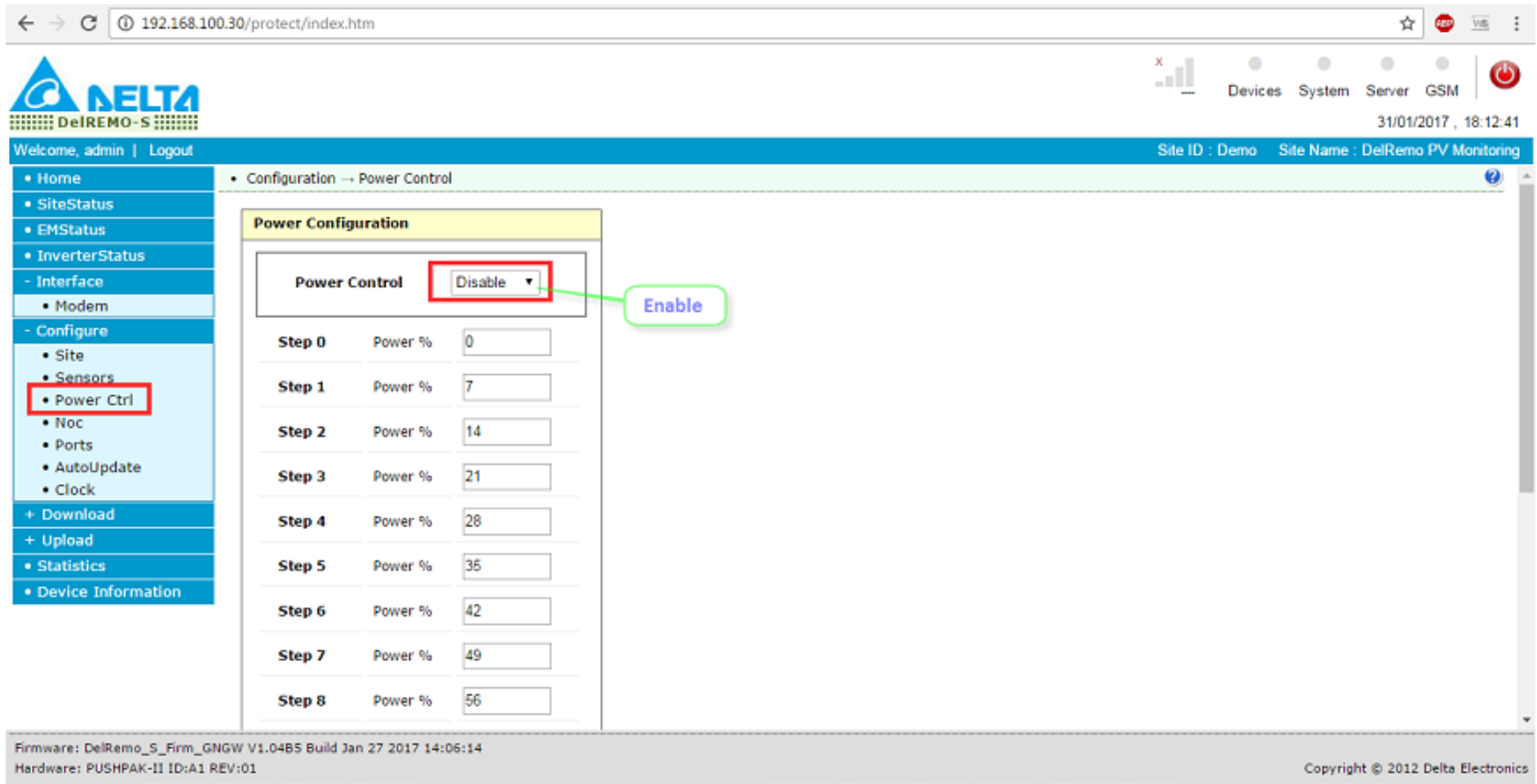
Configuration → Sensors

Sensors Configuration

Sensor1 (0-10V)	Name	Solar Irr	Type	CUSTOM	Offset	0	Multiplier	12000
Sensor2 (0-10V)	Name	Module Temp	Type	CUSTOM	Offset	-20	Multiplier	1000
Sensor3 (0-10V)	Name	AI3(voltage)	Type	NONE	Offset	0	Multiplier	20000
Sensor4 (0-10V)	Name	AI4(voltage)	Type	NONE	Offset	-20	Multiplier	900
Sensor5 (4-20mA)	Name	AI5(current)	Type	NONE	Offset	-15	Multiplier	375
Sensor6 (4-20mA)	Name	AI6(current)	Type	NONE	Offset	-300	Multiplier	2500
Sensor7 (4-20mA)	Name	AI7(current)	Type	NONE	Offset	-88	Multiplier	1186
Sensor8 (4-20mA)	Name	AI8(current)	Type	NONE	Offset	-25	Multiplier	625

Submit Submit

- Contact Support team for Power Control Configuration.



192.168.100.30/protect/index.htm

DELTA DelREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

Configuration → Power Control

Power Configuration

Power Control: Disable Enable

Step	Power %	Value
Step 0	Power %	0
Step 1	Power %	7
Step 2	Power %	14
Step 3	Power %	21
Step 4	Power %	28
Step 5	Power %	35
Step 6	Power %	42
Step 7	Power %	49
Step 8	Power %	56

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics




GSM Configuration

- In “Interface” Click on “Modem” then Enable the **SIM 2** and Select APN as **Auto** then Apply.

Note: Refer the available APN details sheet. If APN is not mentioned in the SPN details sheet then enter APN manually.

The screenshot displays the DELTA DelREMO-S web interface. The left sidebar contains a navigation menu with the following items: Home, SiteStatus, EMStatus, InverterStatus, Interface (highlighted with a red box), Configure, Download, Upload, Statistics, and Device Information. Under the 'Interface' menu, 'Modem' is selected. The main content area is titled 'Interface -> Modem' and contains three sections: 'Modem Information', 'SIM 1 Status', and 'SIM 2 Status'. The 'Modem Information' section shows 'Make : Quectel_Ltd' and 'Software Version : M95FAR01A04'. The 'SIM 1 Status' section shows 'Use : Enabled', 'Operator : ----', 'Signal Strength(0-32) : 00', 'GSM Service : deactive', and 'GPRS Service : deactive'. The 'SIM 2 Status' section shows 'Use : Enabled', 'Operator : ----', 'Signal Strength(0-32) : 00', 'GSM Service : deactive', and 'GPRS Service : deactive'. A red oval highlights the 'Auto' radio button in the 'Assign APN' section, and another red oval highlights the 'Enabled' dropdown in the 'SIM 2 Status' section. Both sections have an 'Apply' button highlighted with a blue box. The top right of the interface shows the date and time '02/01/2017, 15:07:20' and the site information 'Site ID : DELREMO_DF Site Name : DelRemo PV Monitoring'.



- 

Welcome, admin | [Logout](#)

Site ID : DELREMO_DF Site Name : DelRemo PV Monitoring

01/02/2017 , 12:21:08

[Home](#)
[Configuration → NOC](#)

[Devices](#)
[System](#)
[Server](#)
[GSM](#)

Firmware: DelRemo_S_Firm_GINGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01



GSM Configuration (APN saved data)

- APN Details: APN details for different network provider.

← → ↻ 192.168.100.30/protect/index.htm

DelREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017 , 18:19:04

Upload → Database → APN

Upload Database for APN

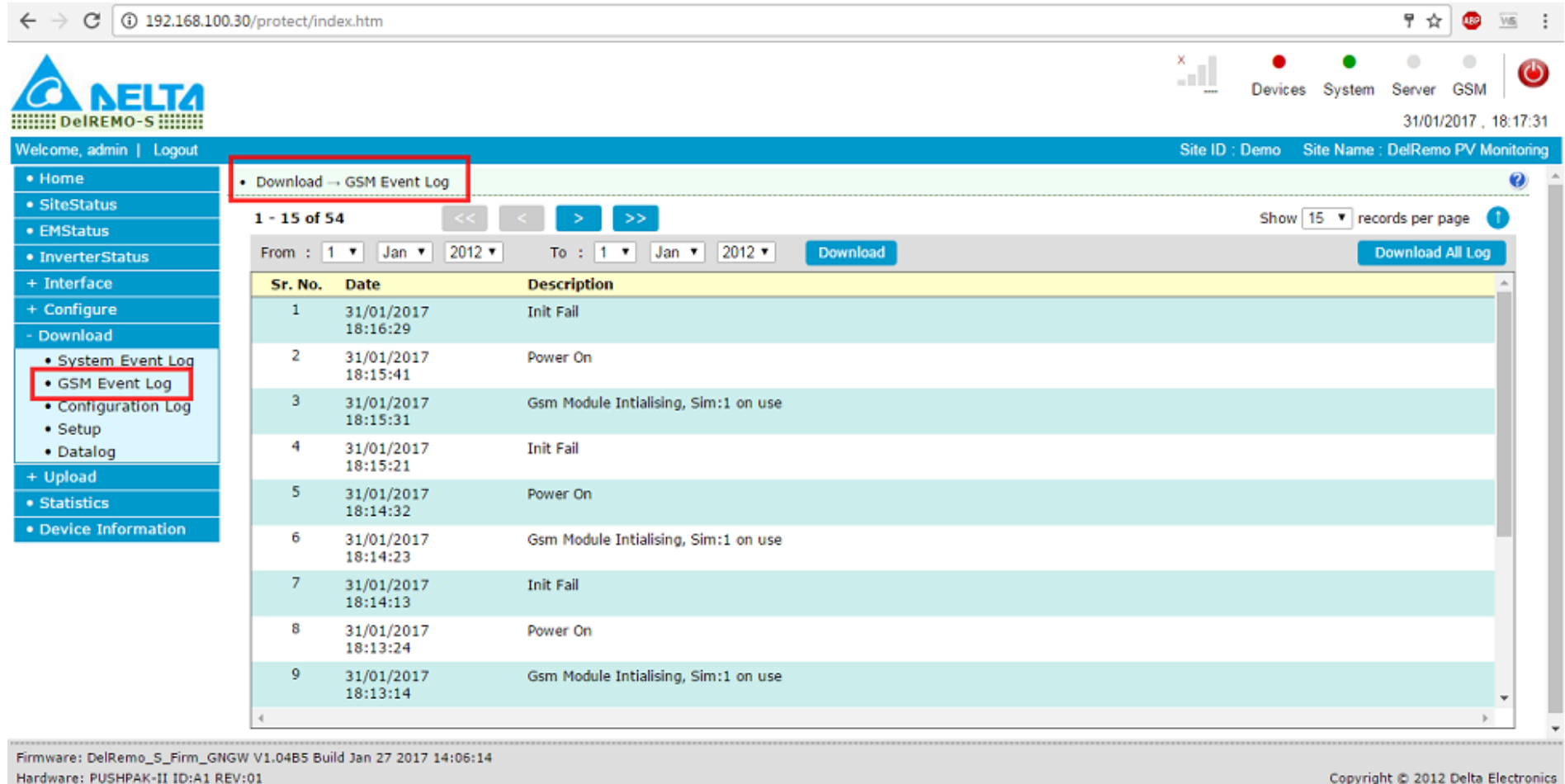
Sr. No.	Operator Name	APN
1.	AirTel	airtelgprs.com
2.	IDEA	internet
3.	Vodaphone	www
4.	Jio	jionet
5.		
6.		
7.		
8.		
9.		
10.		

Upload

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics

- Click on the GSM event log: Here you will get to know the Sim card is connected or not.



The screenshot shows the DELTA DeIREMO-S web interface. The browser address bar displays `192.168.100.30/protect/index.htm`. The interface includes a top navigation bar with status indicators for Devices, System, Server, and GSM, along with a power button icon. The date and time are shown as 31/01/2017, 18:17:31. The site information is Site ID: Demo and Site Name: DelRemo PV Monitoring.

The left sidebar contains a menu with the following items: Home, SiteStatus, EMStatus, InverterStatus, Interface, Configure, Download, System Event Log, GSM Event Log, Configuration Log, Setup, Datalog, Upload, Statistics, and Device Information. The 'Download' menu item is expanded, and 'GSM Event Log' is highlighted.

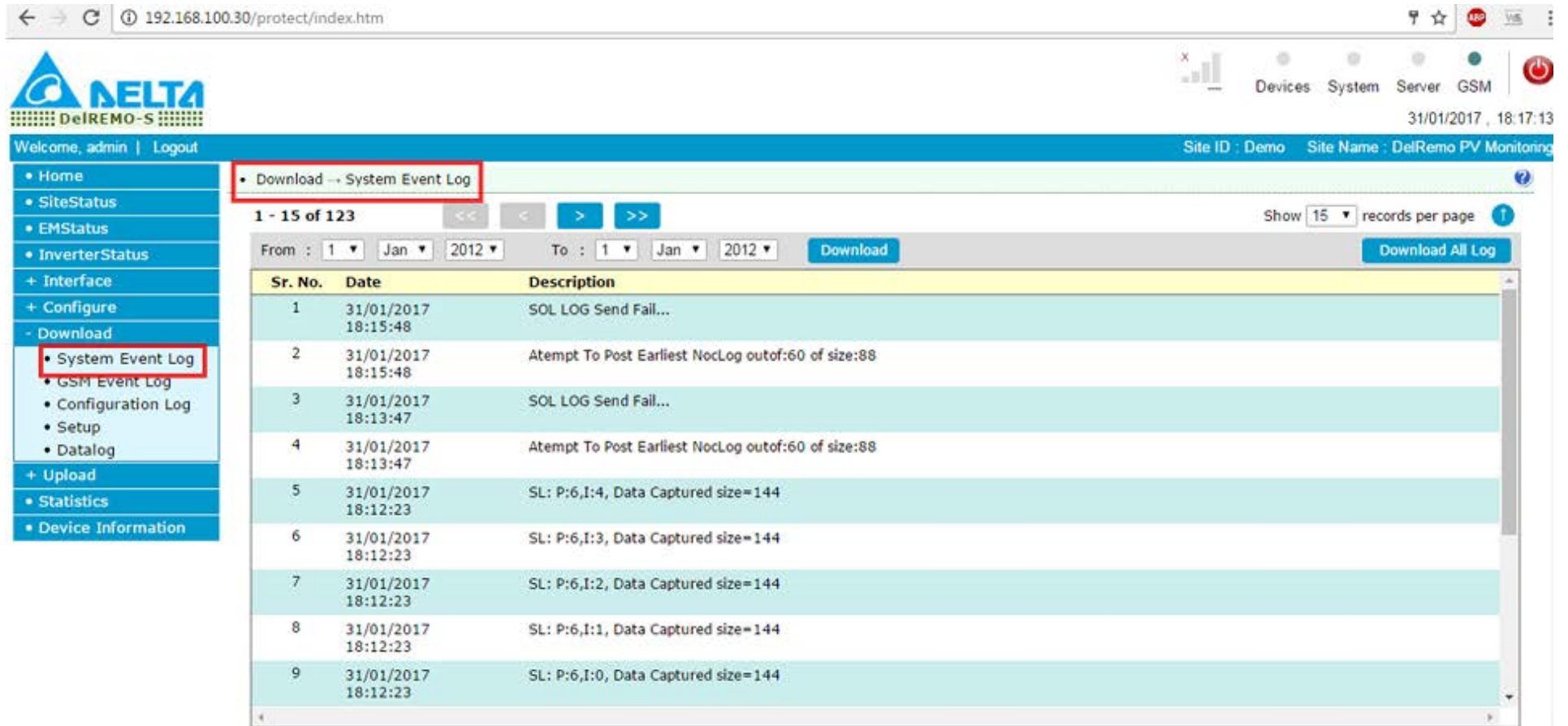
The main content area displays the GSM Event Log. It shows a list of 15 records out of 54. The records are filtered by date from 1 Jan 2012 to 1 Jan 2012. The table has columns for Sr. No., Date, and Description. The records show various events including Init Fail, Power On, and GSM Module Initialising.

Sr. No.	Date	Description
1	31/01/2017 18:16:29	Init Fail
2	31/01/2017 18:15:41	Power On
3	31/01/2017 18:15:31	Gsm Module Initialising, Sim:1 on use
4	31/01/2017 18:15:21	Init Fail
5	31/01/2017 18:14:32	Power On
6	31/01/2017 18:14:23	Gsm Module Initialising, Sim:1 on use
7	31/01/2017 18:14:13	Init Fail
8	31/01/2017 18:13:24	Power On
9	31/01/2017 18:13:14	Gsm Module Initialising, Sim:1 on use

The footer of the interface displays the firmware version: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14 and the hardware version: PUSHPAK-II ID:A1 REV:01. The copyright notice is Copyright © 2012 Delta Electronics.

System Event Log

- Click on the System event log: Here you will get to know weather device sent data log or not?



192.168.100.30/protect/index.htm

DELTA DeIREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017, 18:17:13

Devices System Server GSM

Download --> System Event Log

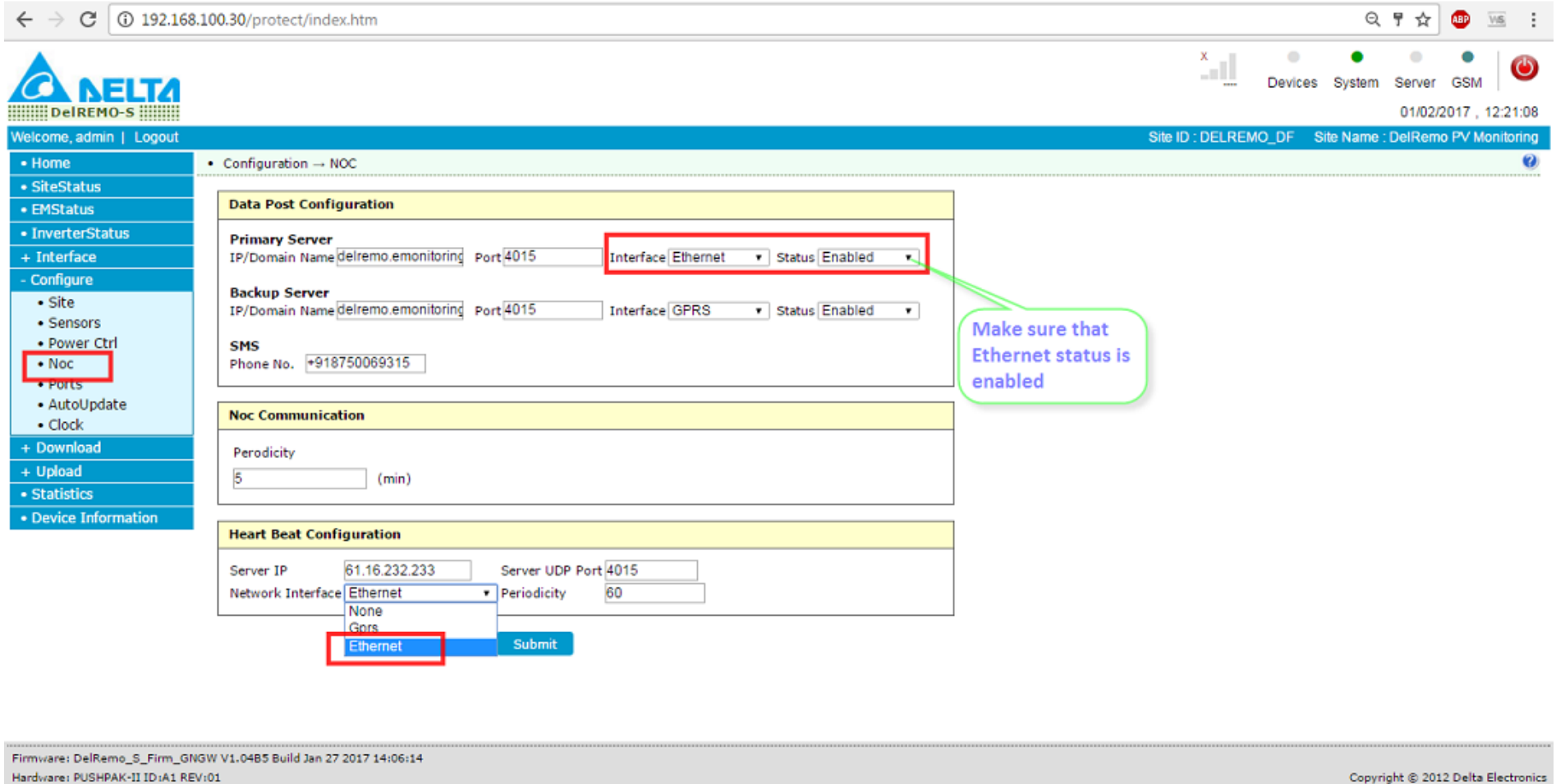
1 - 15 of 123

From : 1 Jan 2012 To : 1 Jan 2012 Download Download All Log

Sr. No.	Date	Description
1	31/01/2017 18:15:48	SOL LOG Send Fail...
2	31/01/2017 18:15:48	Attempt To Post Earliest NocLog outof:60 of size:88
3	31/01/2017 18:13:47	SOL LOG Send Fail...
4	31/01/2017 18:13:47	Attempt To Post Earliest NocLog outof:60 of size:88
5	31/01/2017 18:12:23	SL: P:6,I:4, Data Captured size=144
6	31/01/2017 18:12:23	SL: P:6,I:3, Data Captured size=144
7	31/01/2017 18:12:23	SL: P:6,I:2, Data Captured size=144
8	31/01/2017 18:12:23	SL: P:6,I:1, Data Captured size=144
9	31/01/2017 18:12:23	SL: P:6,I:0, Data Captured size=144

Ethernet Mode Setting

- Enable the Ethernet For “Ethernet” communication mode.
- Enable the Network interface as “Ethernet” as shown below.



The screenshot shows the DELTA DelREMO-S web interface. The browser address bar displays `192.168.100.30/protect/index.htm`. The interface includes a top navigation bar with links for Home, SiteStatus, EMStatus, InverterStatus, Interface, and Configure. The left sidebar contains a menu with options like Site, Sensors, Power Ctrl, and Nc. The main content area is titled "Configuration -> NOC" and contains three sections: "Data Post Configuration", "Noc Communication", and "Heart Beat Configuration".

In the "Data Post Configuration" section, the "Primary Server" settings are highlighted with a red box. The "Interface" dropdown is set to "Ethernet" and the "Status" dropdown is set to "Enabled". A green callout bubble points to these settings with the text: "Make sure that Ethernet status is enabled".

The "Noc Communication" section shows a "Periodicity" of 5 minutes.

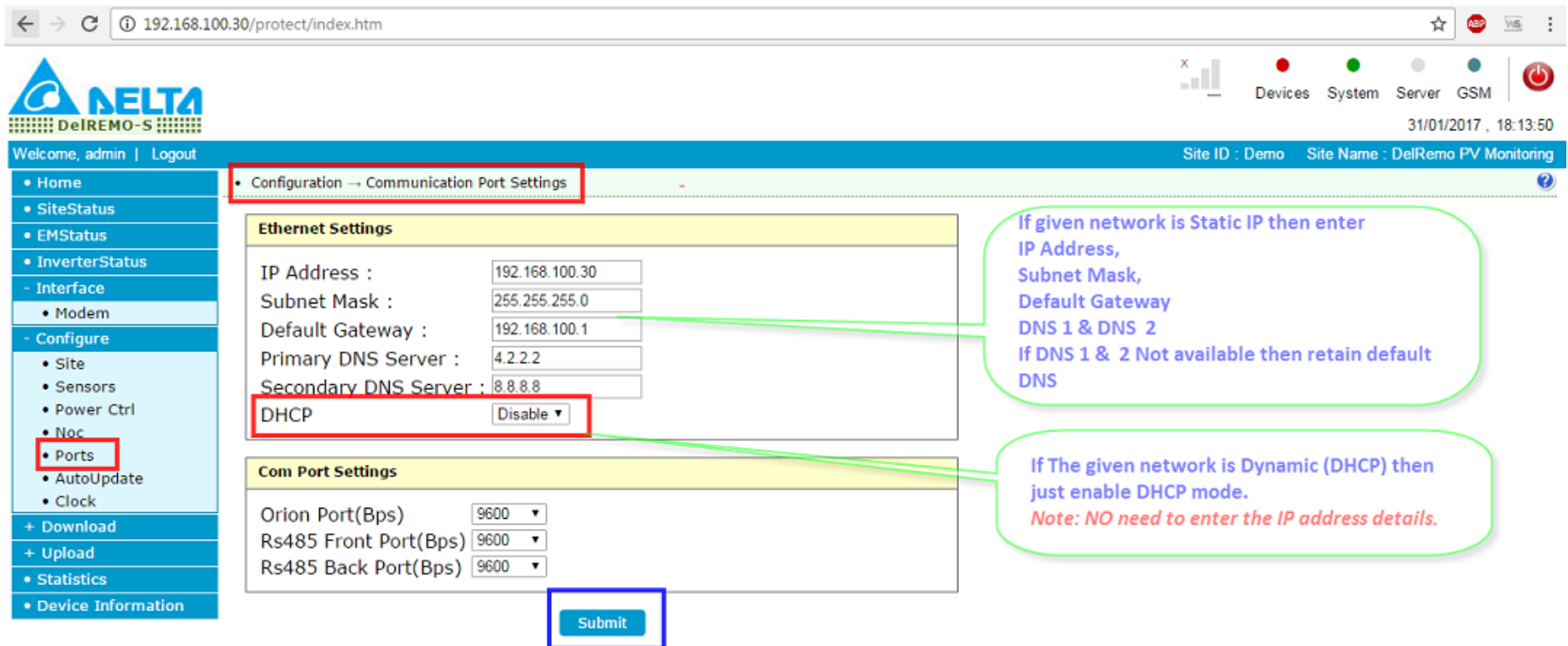
The "Heart Beat Configuration" section shows the "Server IP" as 61.16.232.233, "Server UDP Port" as 4015, and "Network Interface" as "Ethernet". The "Periodicity" is set to 60. A red box highlights the "Ethernet" option in the "Network Interface" dropdown.

The bottom of the page displays the firmware version: "Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14" and the hardware version: "Hardware: PUSHPAK-II ID:A1 REV:01". The copyright notice "Copyright © 2012 Delta Electronics" is also present.

IP Address Setting

Here in Port settings **DHCP** and **Static IP** Options available;

- If the given network is Static IP then **disable** “**DHCP**” then enter the IP address provided by the client. (Follow below steps)
- If the given Ethernet network is “**DHCP**” then Just enable **DHCP**.



192.168.100.30/protect/index.htm

DELTA DelREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

Configuration -> Communication Port Settings

Ethernet Settings

IP Address : 192.168.100.30
Subnet Mask : 255.255.255.0
Default Gateway : 192.168.100.1
Primary DNS Server : 4.2.2.2
Secondary DNS Server : 8.8.8.8
DHCP: Disable

Com Port Settings

Orion Port(Bps) 9600
Rs485 Front Port(Bps) 9600
Rs485 Back Port(Bps) 9600

Submit

If given network is Static IP then enter IP Address, Subnet Mask, Default Gateway DNS 1 & DNS 2
If DNS 1 & 2 Not available then retain default DNS

If The given network is Dynamic (DHCP) then just enable DHCP mode.
Note: NO need to enter the IP address details.



Ethernet Mode Setting

- The server IP/Domain name and GPRS Server IP/Domain name as; "220.225.253.148" and URL: "delremo.emonitoring.co.in" Port: "4015"

← → ↻ 192.168.100.30/protect/index.htm

DELTA DeIREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017, 18:13:28

• Home

• SiteStatus

• EMStatus

• InverterStatus

- Interface

• Modem

- Configure

• Site

• Sensors

• Power Ctrl

• Noc

• Ports

• AutoUpdate

• Clock

+ Download

+ Upload

• Statistics

• Device Information

• Configuration → NOC

Data Post Configuration

Primary Server

IP/Domain Name delremo.emonitoring Port 4015 Interface Ethernet Status Disabled

Backup Server

IP/Domain Name delremo.emonitoring Port 4015 Interface GPRS Status Enabled

SMS

Phone No. +918750069315

Noc Communication

Periodicity

5 (min)

Heart Beat Configuration

Server IP 61.16.232.233 Server UDP Port 4015

Network Interface Gprs Periodicity 60

Submit

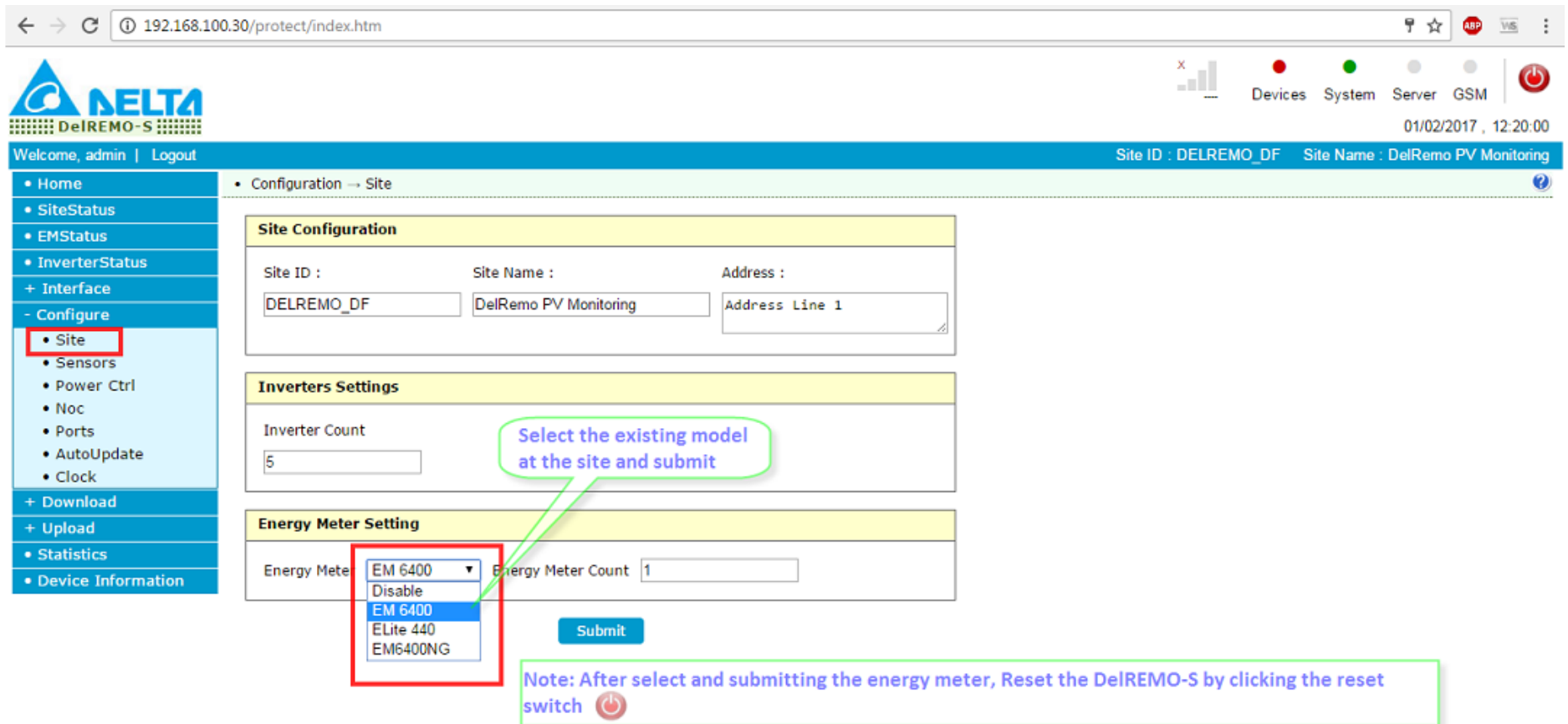
Firmware: DelRemo_S_Firm_GNGW V1.04B3 Build Jan 27 2017 14:06:14

Hardware: PUSHPAK-II ID:IA1 REV:01

Copyright © 2012 Delta Electronics

Energy Meter Setting

- Select the **Site** and select the energy meter model which is at site and then submit. (Follow the procedure shown in below snap.
- **Note:** After select and submitting the energy meter, Reset the DelREMO-S by clicking the reset switch.



The screenshot displays the DELTA DelREMO-S web interface. The browser address bar shows the URL `192.168.100.30/protect/index.htm`. The interface includes a top navigation bar with the DELTA logo, a status bar with system indicators (Devices, System, Server, GSM), and a timestamp of 01/02/2017, 12:20:00. The main content area is titled "Configuration -> Site" and contains three sections: "Site Configuration", "Inverters Settings", and "Energy Meter Setting".

In the "Energy Meter Setting" section, the "Energy Meter" dropdown menu is open, showing options: "EM 6400", "Disable", "EM 6400", "ELite 440", and "EM6400NG". The "Energy Meter Count" is set to 1. A red box highlights the dropdown menu, and a green callout bubble points to it with the text: "Select the existing model at the site and submit".

A "Submit" button is located below the "Energy Meter Setting" section. A green callout bubble points to the "Submit" button with the text: "Note: After select and submitting the energy meter, Reset the DelREMO-S by clicking the reset switch".



Energy Meter Setting

- You can see the Energy Meter values here

Note: The values can be confirmed by comparing with Modbus.

← → ↻ 192.168.100.30/protect/index.htm ☆ AEP V&S

DeIREMO-S

Devices System Server GSM 31/01/2017, 18:29:27

Welcome, admin | Logout Site ID : Demo Site Name : DelRemo PV Monitoring

- Home
- SiteStatus
- **EMStatus**
- InverterStatus
- + Interface
- + Configure
- + Download
- + Upload
- Statistics
- Device Information

- Measurements

Parameters	EM1	EM2	EM3	EM4	EM5
PollCycle	2				
Last Comm	Failed	Failed	Failed	Failed	Failed
Com Quality	0/3	0/3	0/2	0/2	0/2
Meter Sr.No.	--	--	--	--	--
Modbus ID	0	0	0	0	0
R-ph Voltage	0.000	0.000	0.000	0.000	0.000
Y-ph Voltage	0.000	0.000	0.000	0.000	0.000
B-ph Voltage	0.000	0.000	0.000	0.000	0.000
Avg Voltage	0.000	0.000	0.000	0.000	0.000
RY-ph Voltage	0.000	0.000	0.000	0.000	0.000
YB-ph Voltage	0.000	0.000	0.000	0.000	0.000
BR-ph Voltage	0.000	0.000	0.000	0.000	0.000
R-ph Current	0.000	0.000	0.000	0.000	0.000
Y-ph Current	0.000	0.000	0.000	0.000	0.000
B-ph Current	0.000	0.000	0.000	0.000	0.000
Neutral Current	0.000	0.000	0.000	0.000	0.000
Avg Power Factor	0.000	0.000	0.000	0.000	0.000

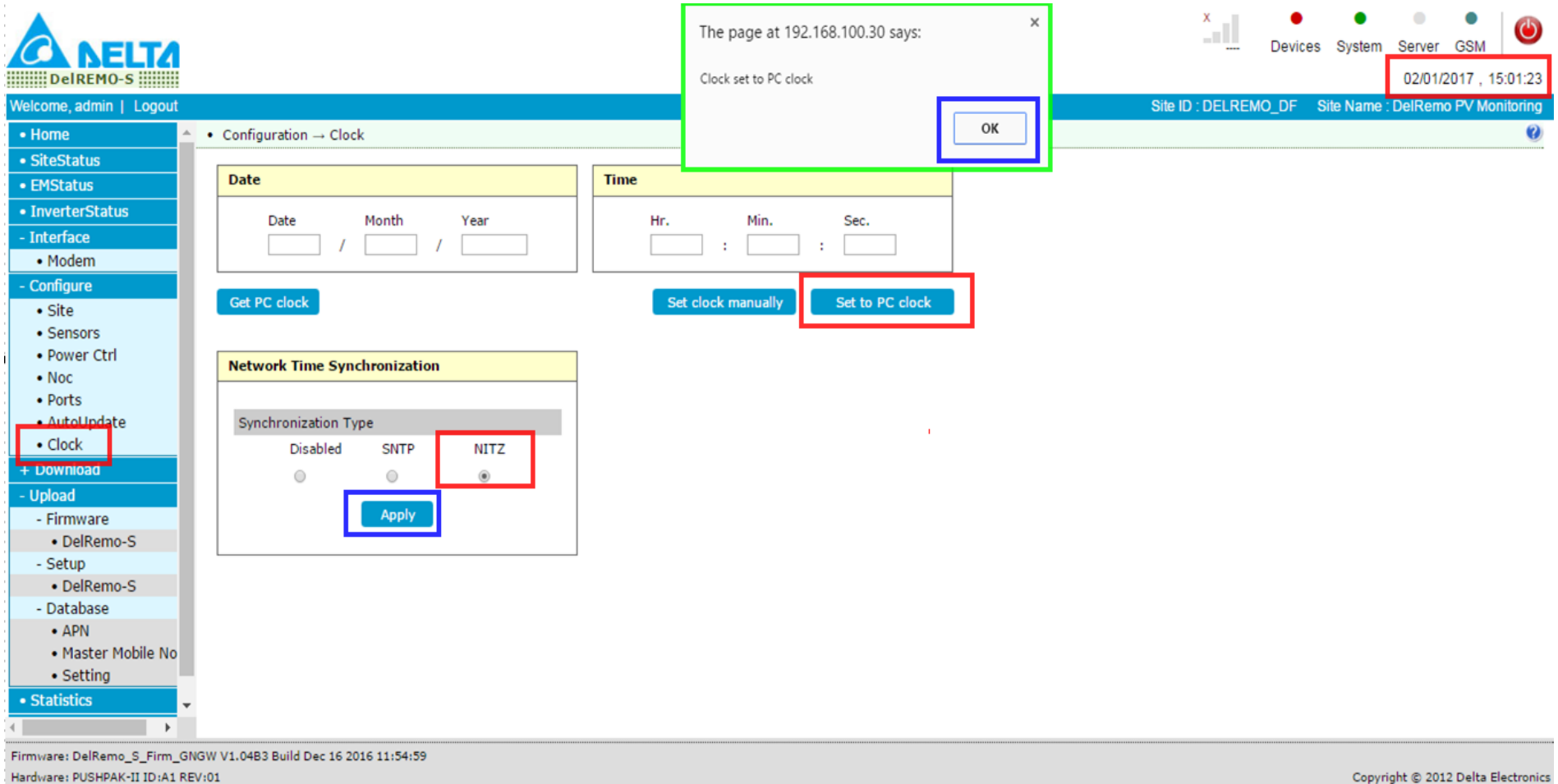
Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics

Clock Setting

- Click on the Clock: Click on Set PC book and then Click ok.

Note: The PC time and date should be correct.



The screenshot displays the DELTA DelREMO-S web interface. The sidebar menu on the left includes options like Home, SiteStatus, EMStatus, InverterStatus, Interface, Modem, Configure, Site, Sensors, Power Ctrl, Noc, Ports, AutoUpdate, Clock (highlighted), Download, Upload, Firmware, DelRemo-S, Setup, DelRemo-S, Database, APN, Master Mobile No, Setting, and Statistics. The main content area shows the 'Configuration -> Clock' page. It features two input fields for 'Date' (Date, Month, Year) and 'Time' (Hr., Min., Sec.). Below these are buttons for 'Get PC clock', 'Set clock manually', and 'Set to PC clock'. The 'Network Time Synchronization' section shows 'Synchronization Type' with radio buttons for 'Disabled', 'SNTP', and 'NITZ' (selected). An 'Apply' button is also present. A modal dialog box is open, displaying the message 'The page at 192.168.100.30 says: Clock set to PC clock' with an 'OK' button. The top status bar shows the date and time as 02/01/2017, 15:01:23.



Configuration Log

- **Configuration Log:** Configuration log can be viewed here.

← → ↻ 192.168.100.30/protect/index.htm

DeIREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017, 18:17:48

• Home

• SiteStatus

• EMStatus

• InverterStatus

+ Interface

+ Configure

- Download

- System Event Log
- GSM Event Log
- **Configuration Log**
- Setup
- Datalog

+ Upload

• Statistics

• Device Information

• Download → Configuration Log

1 - 3 of 3

From : 1 Jan 2012 To : 1 Jan 2012 Download

Show 15 records per page Download All Log

Sr. No.	Date	Description
1	31/01/2017 17:36:14	System Reset
2	31/01/2017 17:13:26	System Reset
3	30/01/2017 11:06:44	System Reset

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14

Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics



Data Log

- Click on the [Data Log](#): The data log of Solar power plant has been stored here on date wise; and it can be downloaded if required.

Browser address bar: 192.168.100.30/protect/index.htm

DELTA DelREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017, 18:18:08

Devices System Server GSM

Solar Logs On SD

File	Size	File	Size	File	Size	File	Size
01052012.csv,	34028	16122016.csv,	7705	19122016.csv,	4387	22122016.csv,	21915
28122016.csv,	49622	02012017.csv,	11085	27012017.csv,	70676	28012017.csv,	279836
29012017.csv,	279836	30012017.csv,	131422	31012017.csv,	8924		

Left sidebar menu:

- Home
- SiteStatus
- EMStatus
- InverterStatus
- + Interface
- + Configure
- Download
 - System Event Log
 - GSM Event Log
 - Configuration Log
 - Setup
 - Datalog**
- + Upload
- Statistics
- Device Information

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics



Updating New firmware

- Upgrading the Firmware: Click on the [Firmware](#) then to [DelREMO-S](#) and then [Choose File](#) the latest firmware from PC then click on [Upload](#).

The screenshot displays the DELTA DelREMO-S web interface. The top navigation bar includes the DELTA logo, the text 'DelREMO-S', and status indicators for Devices, System, Server, GSM, and a power button. The date and time '02/01/2017, 15:00:50' are shown on the right. Below the navigation bar, a blue banner displays 'Welcome, admin | Logout' and 'Site ID : DELREMO_DF Site Name : DelRemo PV Monitoring'. The left sidebar contains a menu with options: Home, SiteStatus, EMStatus, InverterStatus, Interface (Modem), Configure (Site, Sensors, Power Ctrl, Noc, Ports, AutoUpdate, Clock), Download, Upload (highlighted with a red box), Setup (Database, APN, Master Mobile No, Setting), Statistics, and Device Information. The main content area shows the breadcrumb 'Upload → Firmware → DelRemo-S' and a section titled 'Upload New Firmware for DelRemo-S'. This section contains a 'Choose File' button (highlighted with a red box), the text 'No file chosen', and an 'Upload' button (highlighted with a blue box). The footer displays 'Firmware: DelRemo_S_Firm_GNGW V1.0483 Build Dec 16 2016 11:54:59', 'Hardware: PUSHPAK-II ID:A1 REV:01', and 'Copyright © 2012 Delta Electronics'.

Statistics details (Unsent data)

- **Statistics:** The Unsent NOC records can be seen here also the GPRS Connection status ie. **GPRS Local IP** can be confirmed from this page.

← → ↻ 192.168.100.30/protect/index.htm

DELTA DelREMO-S

Welcome, admin | Logout

Site ID : Demo Site Name : DelRemo PV Monitoring

31/01/2017 , 18:19:23

• Home

• SiteStatus

• EMStatus

• InverterStatus

+ Interface

+ Configure

+ Download

- Upload

- Firmware

• DelRemo-S

+ Setup

- Database

• APN

• Master Mobile No

• Setting

• **Statistics**

• Device Information

• Statistics

Parameters	Value
Heap	0,0
Alarms Poll Time	0
Measurements Poll Time	0
Event Dispatch Time	0
Unsent Noc Records	66
Unsent Sms	0
GPRS LOCAL IP	0
Ethernet IP	192.168.100.30
Ethernet Subnet Mask	255.255.255.0
Ethernet Gateway	192.168.100.1
Ethernet Dhcp	Disabled
SNTP Server	pool.ntp.org, 123
SNTP Service Status	Failed:99,Success:0,LastQryResult:Dns Resolve Failed

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14

Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics



Device Information

- **Device Information:** The MAC Address and IMEI no of the DelREMO can be viewed here.

Note: The MAC Id need be share with Admin at the time of DelREMO commissioning.

The screenshot displays the DelREMO-S web interface in a browser. The address bar shows the URL 192.168.100.30/protect/index.htm. The page header includes the DELTA logo, navigation tabs (Devices, System, Server, GSM), and a status bar with the date 31/01/2017, time 18:19:41, and site information (Site ID: Demo, Site Name: DelRemo PV Monitoring). A left sidebar menu lists various options, with 'Device Information' highlighted. The main content area, titled 'Device Information', contains a table of device details. The 'Ethernet Mac Address' is highlighted with a red box.

Device Information	
Ethernet Mac Address	D8:80:39:BC:A6:F0
Wi-Fi Mac Address	NA
Modem IMEI No.	868324022695352
Modem Serial No.	Quectel_M95
Serial No.	-----
Sap Part No.	-----
Board Test.	Test Done On 28/10/2016

[Click To Run Board Test](#)

Firmware: DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14
Hardware: PUSHPAK-II ID:A1 REV:01

Copyright © 2012 Delta Electronics



Reset DelREMO-S

- After completing the local configuration click on the reset button to reset the DelREMO-S.

The screenshot shows the DelREMO-S web interface in a browser window. The address bar displays the URL `192.168.100.30/protect/index.htm`. The interface includes a top navigation bar with tabs for **Devices**, **System**, **Server**, and **GSM**. A red box highlights the **Reset DelREMO-S** button located in the top right corner. The main content area is titled **Configuration → NOC** and contains three sections: **Data Post Configuration**, **Noc Communication**, and **Heart Beat Configuration**. The **Data Post Configuration** section includes fields for **Primary Server** (IP/Domain Name: `delremo.emonitoring.c`, Port: `4015`, Interface: `Ethernet`, Status: `Enabled`) and **Backup Server** (IP/Domain Name: `delremo.emonitoring.c`, Port: `4015`, Interface: `GPRS`, Status: `Enabled`). The **SMS** section has a **Phone No.** field with the value `+918750069315`. The **Noc Communication** section has a **Periodicity** field with the value `5` (min). The **Heart Beat Configuration** section has fields for **Server IP** (`61.16.232.233`), **Server UDP Port** (`4015`), **Network Interface** (`Ethernet`), and **Periodicity** (`60`). The footer of the interface displays the firmware version `DelRemo_S_Firm_GNGW V1.04B5 Build Jan 27 2017 14:06:14` and hardware ID `PUSHPAK-II ID:A1 REV:01`. The copyright notice `Copyright © 2012 Delta Electronics` is also present.

Smarter. Greener. Together.

To learn more about Delta, please visit www.deltaww.com.

