### **Configuring the 20xx Inbuilt Ethernet Device.**

中国代理商:

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### Overview

This document describes the process for configuring the 20xx range of loggers inbuilt Ethernet adaptor.

### Prerequisites

Before proceeding with the installation you will require all of the following:

- A 20xx logger with inbuilt Ethernet
- A networked PC that is able to access the network on which you intend to connect the 20xx logger
- An Ethernet connection on the network you wish the SQ20xx logger to reside.
- Before proceeding you must speak to your network administrator to get the following information regarding the network you will be connecting the SQ20xx logger to:
  - The network gateway
  - The network subnet mask
  - An available IP address.
    - This should ideally be a static IP address.
    - If a static address cannot be found then the next best would be an assigned address.
    - The worst case would be a leased address with a significant timeout.

NOTE: One of the above must be found. Failure to do so could result in problems communicating with the logger in the event of a reset caused by a power failure.

- When you have the details from your network administrator as detailed above note them down here as they will be required when setting up communications from within SquirrelView and the logger.

- IP address.
- Subnet mask \_\_\_\_.
- Network gateway \_\_\_\_\_.

### Setting the 20xx Loggers IP Address.

### 20xx Discovery

The 20xx Discovery program will allow you to find and select the 20xx logger(s) to be setup.

#### To run:

- 1. Go to the following directory:
  - a. \Program Files\SquirrelView\Tools\SQ20xx\_Ethernet
- 2. Double click on the file Finder.exe. The 20xx Discovery program should appear as below after completing a search for connected 20xx loggers.

onfiguration	Devices			-
Configure IP Settings	IP Address	MAC Address	Name	Product
	169.254.136.138	00:40:9d:2a:eb:20	Grant Data Logger	SQ20xx Ethernet
Reboot Device				
<u>R</u> efresh List				
Device Info				
Open Web Interface				

Next click on the logger you wish to configure in the list of devices:

onfiguration	Devices			
Configure IP Settings	IP Address	MAC Address	Name	Product
	169.254 136 138	00:40:9d:2a:eb:20	Grant Data Logger	SQ20xx Ethernet
Reboot Device				
<u>R</u> efresh List				
Device Info				
 Open Web Interface				

Then click on the 'Configure IP Settings' button to display the configuration dialog

e IP Settings	IP Address	MAC Address	Name	Product
o nº o counigo	169.254.136.138	00:40:9d:2a:eb:20	Grant Data Logger	SQ20xx Ethernet
ot Device				
esh List				
ce Info				
Interface				

From this dialog you can type in the settings provided by your network administrator by selecting the 'Manually configure network settings' radio button.

Set IP Address		×
	subnet mask and gateway to your network administrator if y ion.	
Product:	SQ20xx Ethernet	
MAC Address:	00:40:9d:2a:eb:20	
C Automatically ob	otain network settings via DH(	CP
Manually config	ure network settings	-
IP Address:	169 . 254 . 136 . 13	8
Subnet Mask:	255 , 255 , 0 , 0	
Default Gateway	0.0.0.0	
Password:	Cancel	

After filling in the three fields type **dbps** into the password field.

Finally click 'Apply' to send your settings to the logger.

- Configuration of the IP settings is now complete.

### **Email Notification Setup**

The logger may be setup to send an email when a new alarm is raised. Before starting to setup the alarm notification you need to ensure you have the following:

- Access to a web browser which can be connected to the 20xx device
- Mail Server Address
- Logger IP address
- Email Address for recipient

To setup email notification perform the following steps:

- Open web browser
- Type in the address of the 20xx logger followed by /home.htm
  - e.g. http://192.168.1.237/home.htm
  - Enter username and password
    - Username 'root' (default)
    - Password 'dbps' (default)
- Select alarms

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Grant	SQ20xx Ethernet Configuration and Management	
ome	Home	😗 Hel
onfiguration		
Network	Getting Started	
Serial Ports	<b>Tutorial</b> Not sure what to do next? This Tutorial can help.	
GPIO Alarms System	System Summary	
Remote Management	Model: SQ20xx Ethernet	
Users	IP Address: 169.254.136.138	
anagement	MAC Address: 00:40:9D:2A:EB:20	
Serial Ports	Description: None	
Connections	Contact: None	
<b>Iministration</b> File Management	Location: None	
Backup/Restore Update Firmware Factory Default Settings	Device ID: 0000000-0000000-00409DFF-FF24E262	
System Information	User Interface	
Reboot	Web Interface (Default): Enabled	
gout	Custom Interface; Launch Set as Default	

- Tick the 'Enable alarm notifications' tick box
- Type in the IP address of your companies mail server
- Type in the email address of the logger
- Tick 'Enable' tick box of the alarm you wish to use
- Click on the 'Apply Button' at the bottom of the window

Grant Instruments

Inbuilt Ethernet Configuration

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Serial Ports GPIO	🕞 Enab	le alarm no	tification	5					
Alarms	Ma	il Server Ad	dress (SM	4TP): 🕕.0	0.0.0				
System		From E	-Mail Add						
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anagement Serial Ports	1.000								
Connections	Alarm Co	nditions							
dministration	Enable	Alarm	Туре	Trigger	SNMP Trap	Send To	Email Subject		
File Management Backup/Restore		Alarm 1	gpio	*****	disabled				
Update Firmware	Г	Alarm 2	apio	*****	disabled				
Factory Default Settings		Alarm 3	qpio	*****	disabled				
System Information Reboot		Alarm 4	qpio	*****	disabled				
			Concisions						
ogout	ALC: U	Alarm 5	gpio	* * * * *	disabled				
		Alarm 6	gpio	*****	disabled				
		Alarm 7	gpio	* * * * *	disabled				
		Alarm 8	gpio	x x x x x	disabled				
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- Click on the alarm you wish to configure, this should be the same alarm that you enabled in the previous step.

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ddress 💩 http://169.254.136.138/co	nfig/alarms/alarms	_config.htm							Links <sup>:</sup>
Grant	SQ20	cx Ethe	rnet	Config	uration a	and Ma	nagement		_
	8							8	Help
Home	Alarms	Configur	ation						
Configuration Network	Alarm No	tification Set	tings						
Serial Ports	🗆 Enat	ole alarm not	tification	S					
GPIO Alarms	Ma	iil Server Ado	dress (SI	ите): 0.0	0.0.0				
System Remote Management Users			Mail Add			-1.1			
Management Serial Ports Connections	Apply Alarm Co	nditions							
Administration	Enable	Alarm	Туре	Trigger	SNMP Trap	Send To	Email Subject		
File Management Backup/Restore		Alarm 1	gpio	****	disabled				
Update Firmware	Г	Alarm 2	gpio	* * * * *	disabled				
Factory Default Settings System Information		Alarm 3	gpio	*****	disabled				
Reboot		Alarm 4	gpio	* * * * *	disabled				
Logout		Alarm 5	gpio	* * * * *	disabled				
		Alarm 6	gpio	*****	disabled				
		Alarm 7	gpio	****	disabled				-
		Alarm 8	gpio	XXXXX	disabled				

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- In the 'Pin 2' pull down box select the 'Low' option
  - Ensure that all other pins are set to 'Ignore'
- Tick the 'Send E-mail to the following recipients when the alarm occurs' tick box
- Type in the email address you wish the notification to be sent to \_
- Type in the text you wish to appear in the subject field of the email.
  Finally click on the 'Apply Button' then logout of the 20xx device setup page.

5Q20xx Ethernet Configuration ar	id Management - Microsoft Internet Explorer			_ 8 ×
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Address 🔊 http://169.254.136.138/con	fig/alarms/alarm_edit.htm?1		• 🖓 Go	Links ×
Grant	SQ20xx Ethernet Configuration and Management			
Home	Alarm 1 Configuration		0	Help
Configuration Network	Alarm Conditions			
Serial Ports GPIO	<ul> <li>Send alarms based on GPIO pin states</li> </ul>			
Alarms System Remote Management Users	Pin 1:  Ignore ▼ Pin 2: Low ▼ Pin 4:  Ignore ▼ Pin 5:  Ignore ▼	Pin 3:	Ignore	-
Management Serial Ports Connections	Alarm recurrence time: 10 secs			
Administration File Management Backup/Restore	Every: 10 secs			
Update Firmware Factory Default Settings System Information Reboot	C Send alarms based on serial data pattern matching Pattern: default			
Logout	Alarm Destinations			
	Send E-mail to the following receipients when alarm occurs To: CC: Priority: Normal			
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# The SQ20xx Applet.

#### Prerequisites

Before proceeding with the installation you will require all of the following:

- You must complete the previous section(s) in this document i.e. the device must be configured and communicating with SquirrelView.
- The users browser must have the latest Java Virtual Machine from Sun Microsystems installed. (See following section)

### Checking The Browser JVM Version

Before running the SQ20xx Applet the Java Virtual Machine (JVM) of the browser should be upgraded to the latest version from Sun Microsystems. To check the JVM on a machine running Microsoft Internet Explorer perform the following steps:

- 1. Start Microsoft Internet Explorer browser.
- 2. Select the 'Tools' menus and then the 'Internet Options..' menu item.
- 3. In the next dialog click on the 'Advanced' tab.
- 4. Scroll through the list of items and check for an entry with the title 'Java (Sun)'. If this does not exist or the version number is less than 'Java 2 v1.4.2\_04' then you should carry out the steps in the 'Updating the Java JVM' section.

#### Updating the Java JVM

The latest JVM can be downloaded from the web site www.java.com. From this site select the 'Manual Download' link and then download the appropriate file for your operating system. If you are using Microsoft Windows use the 'Windows (Offline Installation)' link and double click on the downloaded file to install the JVM.

### **Execution Over an Intranet**

You may now run the SQ20xx applet by entering the IP address of the SQ20xx device in a browser.

This will bring up the SQ20xx Ethernet Configuration and Management window.

- Enter username and password
  - Username 'root' (default)
  - Password 'dbps' (default)

Click on the 'Set as Default'

This will enable a connection straight to the SQ20xx applet in future when the IP address is entered into the browser. The Username and Password will need to be enter each time.

To enter the SQ20xx Ethernet Configuration and Management window after this you will need to type in the IP address of the 20xx logger followed by /home.htm to the browser.

• e.g. http://192.168.1.237/home.htm

### **Execution Over the Web**

Once the SQ20xx Applet is working over the intranet the user must get access to this from the internet to view the applet from the web. To do this the users I.T. department should allow access to the devices IP address from an IP address or URL external to the companies.