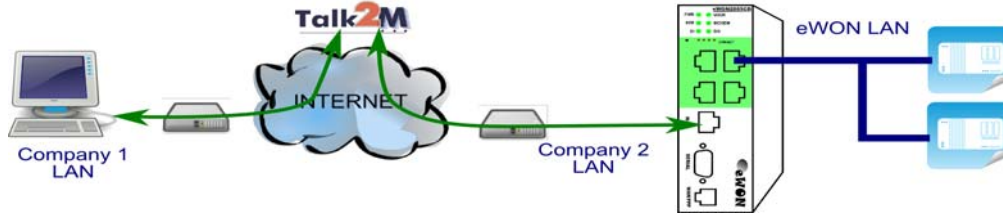


# Remotely connect from an eWon Flexy to Omron NJ MAC and also send an email when there is an alarm

## Installing eWON & Talk2M - Customer check list

**Objective:** This checklist allows you to prepare the installation of an eWON unit. This checklist should be used in conjunction with the Installation and Getting Started guides for your eWON and for Talk2M. These guides are available at <http://wiki.ewon.biz/Support>



### 1) eWON unit configuration

#### a) Download eBuddy.

The software companion tool eBuddy, will allow you to easily change your eWON's IP address, update the firmware, and create backups. eBuddy is available at [http://wiki.ewon.biz/Support/01\\_Getting\\_Started](http://wiki.ewon.biz/Support/01_Getting_Started)

#### b) Upgrade the firmware.

It is recommended to upgrade the eWON unit to the latest firmware. Firmware 8.0s2 or higher is required for Talk2MFree+. Use eBuddy to upgrade the firmware.

### 2) Network configuration

The eWON must be configured properly to integrate into your existing networking scheme and to allow proper routing through the eWON. Use the following tables to review your networking decisions.

**NOTE:** The eWON's LAN and machine devices **MUST** be within the same subnet.

The eWON's LAN address and WAN address **MUST NOT** be within the same subnet.

The eWON's LAN address and the remote PC subnet **MUST NOT** overlap.

#### eWON LAN Interface (green port(s)) configuration

LAN IP Address	
Subnet Mask	
PLC IP Address(es)	

#### eWON WAN configuration

##### WAN Interface (Second Ethernet)

Static IP or DHCP?	
WAN IP address	
WAN Subnet Mask	
WAN Gateway IP	
WAN DNS	
HTTP Proxy settings	

##### GSM Modem

SIM Phone number	
Network Carrier	
APN	
Signal Strength > 14	
Username	
Password	

### 3) eCatcher Connection

#### a) Download eCatcher.

eCatcher is available at [http://wiki.ewon.biz/Support/07\\_Download/10\\_EWON\\_Softwares](http://wiki.ewon.biz/Support/07_Download/10_EWON_Softwares)

#### b) Install eCatcher with administrator rights.

#### c) Confirm any needed proxy settings.

If you reach the Internet through an NTLM proxy, the login must include the domain name: DOMAIN\user

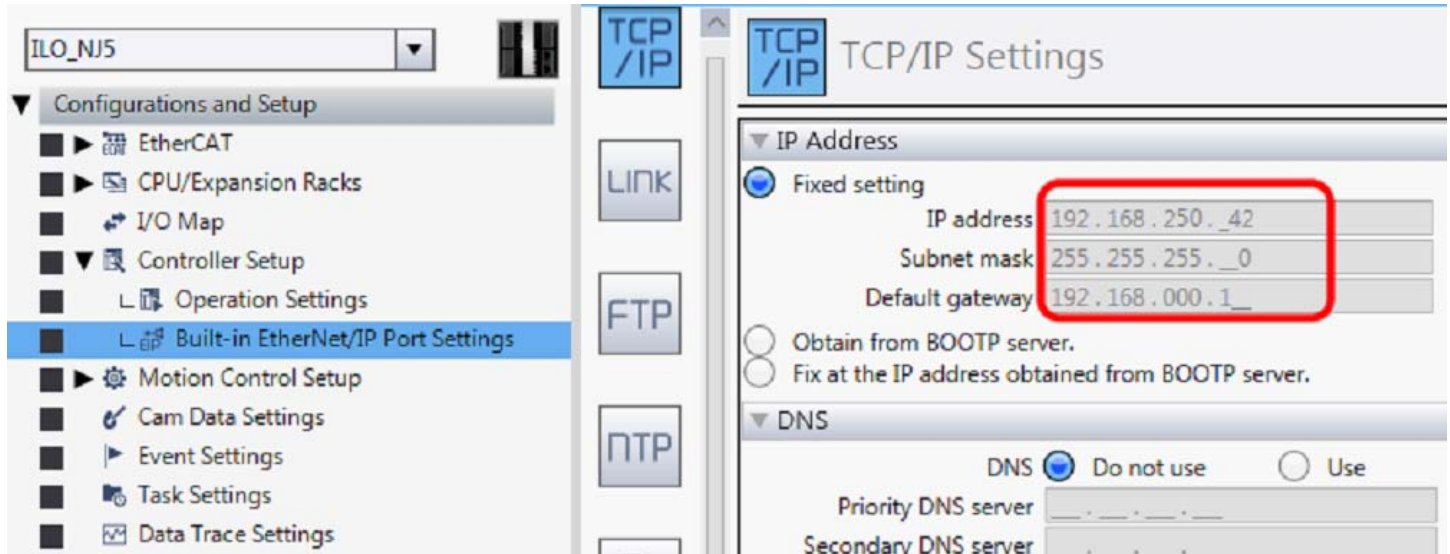
#### d) Confirm required ports are open.

The Talk2MConnection Checker will make sure that you can successfully reach the Talk2M servers through either UDP (port 1194) or TCP (port 443). The Talk2M Connection Checker is available at

[http://wiki.ewon.biz/Support/06\\_Knowledge\\_Base/Questions\\_and\\_Answers/Talk2M\\_connection\\_checker](http://wiki.ewon.biz/Support/06_Knowledge_Base/Questions_and_Answers/Talk2M_connection_checker)

# NJ Setup

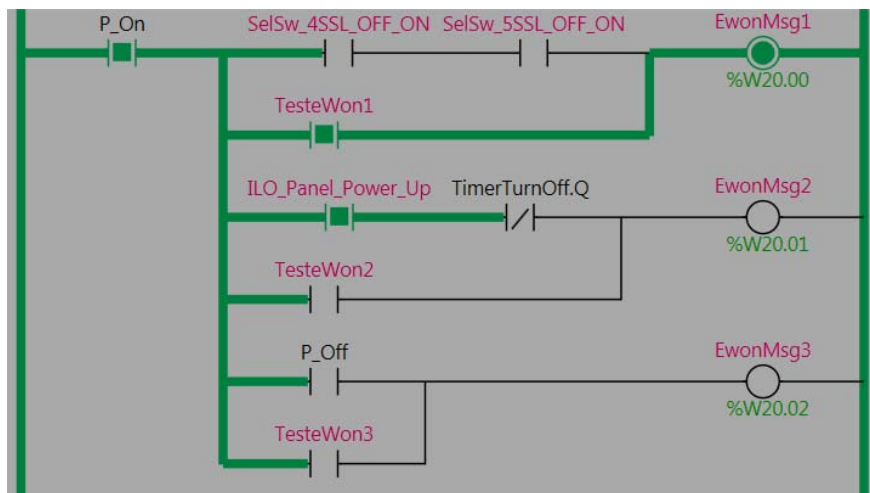
## NJ Ethernet Setup:



## NJ Global Variables (if you will activating alarms):

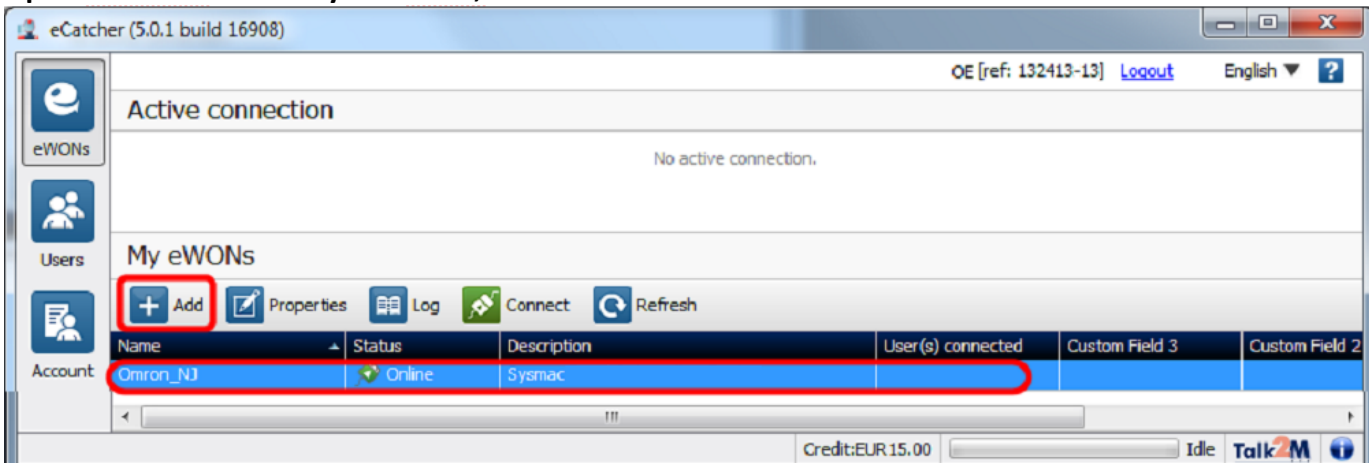
Name	Data Type	Initial Value	AT	Retain	Constant	Network Publish
EwonMsg1	BOOL		%W20.00	<input type="checkbox"/>	<input type="checkbox"/>	Publish Only
EwonMsg2	BOOL		%W20.01	<input type="checkbox"/>	<input type="checkbox"/>	Publish Only
EwonMsg3	BOOL		%W20.02	<input type="checkbox"/>	<input type="checkbox"/>	Publish Only

## NJ Program: (When bit W20.00 turns on an email is sent from the eWon Flexy to the user)

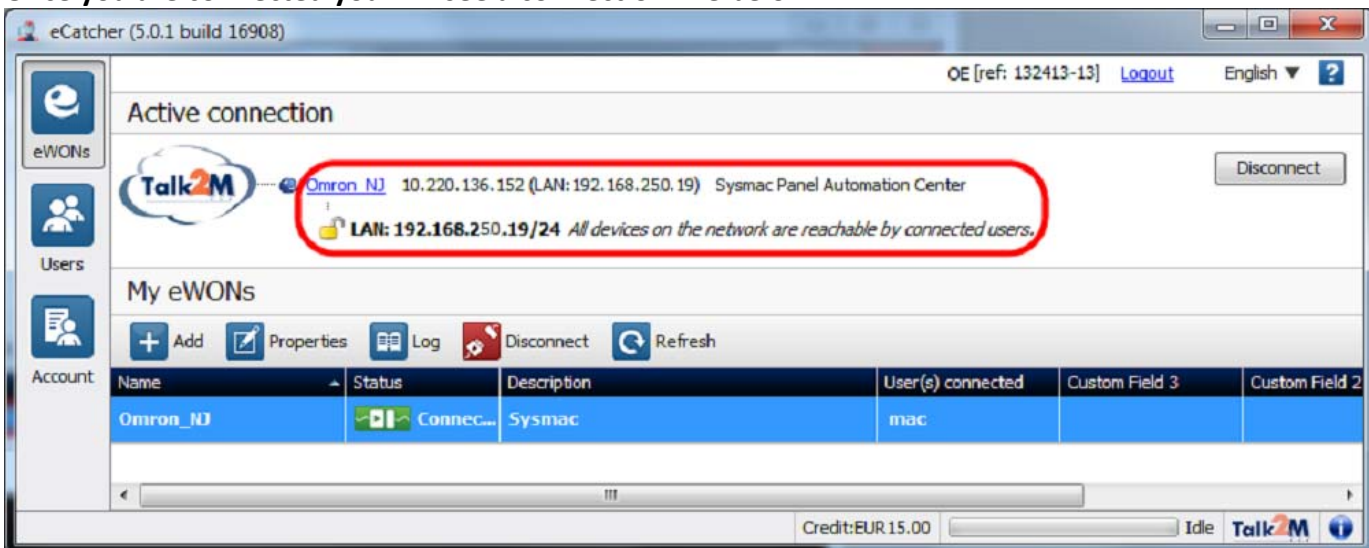


# To remotely access your MAC/PLC/HMI through the eWon Flexy or Cosy

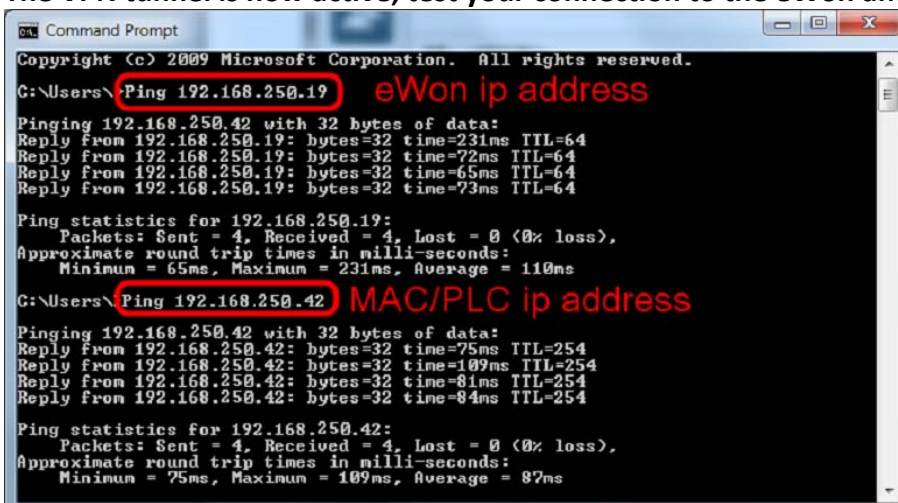
Open eCatcher and Add your eWon, then double click on the connection name



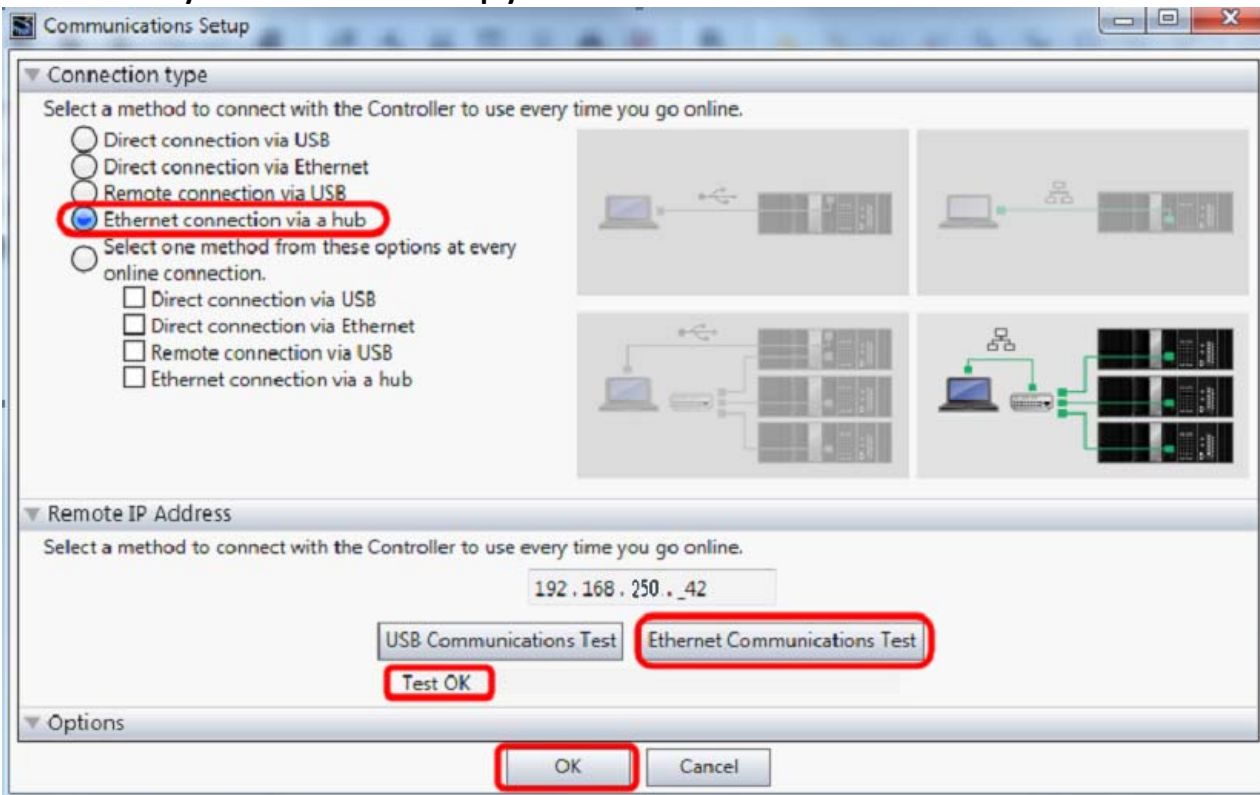
Once you are connected you will see a connection like below



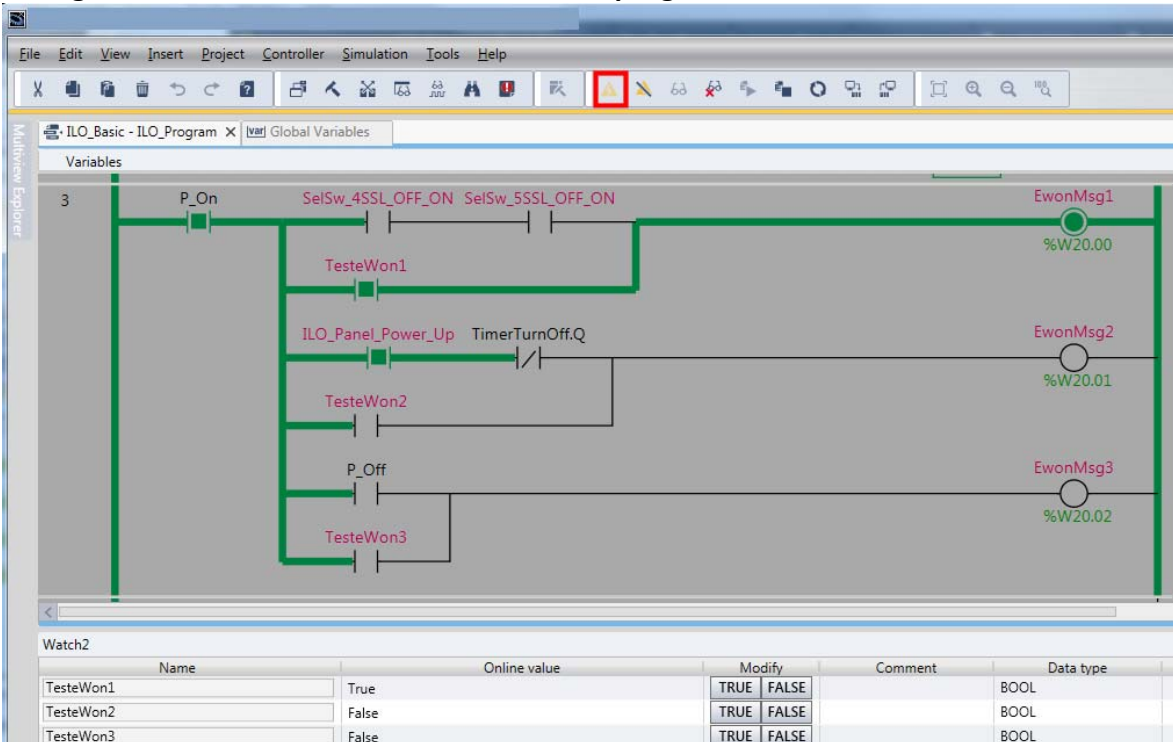
The VPN tunnel is now active, test your connection to the eWon and MAC/PLC by pinging it



Now launch Sysmac Studio and setup your communications as if it was an Ethernet connection via a hub



Now go online and monitor, edit, transfer the program:



# eWon Flexy Configuration Setup

## System Setup:

The screenshot shows the 'System Setup' page for 'Ethernet LAN Connection'. The 'Address Setup' section is highlighted with a red box and contains the following fields:

IP address	192.168.225.19
Subnet mask	255.255.255.0
Default gateway	192.168.0.1

The 'DNS Setup' section below it shows:

Primary DNS IP address	75.75.75.75	Leave blank (or 0.0.0.0) if no DNS
Secondary DNS IP address	75.75.76.76	

## Wifi Setup:

The screenshot shows the 'Wifi WAN Connection' configuration page. The 'Network Selection' section is highlighted with a red box and contains:

Current Connection	OMRON-guest
Network Selection	List
Network Name	OMRON-guest
Network Passphrase	••••••••••

The 'Address Setup' section below it shows:

Address Setup	DHCP
IP address	192.168.1.217
Subnet mask	255.255.254.0
Default gateway	192.168.0.1

The 'DNS Setup' section shows 'Via DHCP' checked:

Primary DNS IP address	75.75.75.75	Leave blank (or 0.0.0.0) if no DNS
Secondary DNS IP address	75.75.76.76	

The 'DHCP Config' section shows:

Network name		Ex: myewon or myewon.example.com (a-z,0-9, Cfr: RFC 4702), value common to LAN and WAN
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## General/Alarms (for Email Server address):

The screenshot shows the 'General' configuration page. The 'Alarms' section is highlighted with a red box and contains:

Action retrg. interval	86400 sec	Action occurs again if condition is still true.
Retry actor	1 time(s)	Number of times the action is retried in case of error (>=1)
Action retry interval	120 sec	Interval before retry in case of error (>=30)

The 'SMTP' section is also highlighted with a red box and contains:

SMTP Server Address	relay.tel2m.com	Usually something like smtp.domain.com or mail.domain.com (can be an IP address)
SMTP Server Port	25	The default value is 25. It must only be changed in very special cases.
E-Mail "From" User name	rom@omron.com	This will be used to send E-Mails, it must be compatible with your account name on the SMTP server.
User name		Fill this only if SMTP requires authentication, otherwise leave empty.
Password	••••••••	Password for SMTP authentication (only if above field used).

## I/O Server Configuration (for setting up alarms):

ewON  
Omron Automation Center

Tag Setup System Setup **IO Server Config** Main Menu

Script Setup Users Setup Pages List

IO Server: FINS Edit Clear Init Global Config 18/05/2015 10:34:53

**FINS IO Server & Gateway settings**

**COM Setup**

Reply Timeout: 200 ms 50..50000, default: 3000

Ethernet FINS network: 0 0..127, default: 0

Ethernet FINS node: 0 0..254, default: 0

**Topic A:**  Enabled

Topic Name: A

Protocol: FINS TCP

Global Device Address: 0.42.192.168.250.42 No Help

Poll Rate: 100 ms Default: 2000

**Topic B:**  Enabled

Topic Name: B

Protocol: FINS TCP Default: SERIAL

Global Device Address: 1.42.192.168.250.42 No Help

Poll Rate: 100 ms Default: 2000

**Topic C:**  Enabled

Topic Name: C

Protocol: FINS TCP Default: SERIAL

Global Device Address: No Help

Poll Rate: ms Default: 2000

## Tag Setup (for setting up alarms):

ewON  
Omron Automation Center

Tag Setup System Setup IO Server Config Main Menu

Script Setup Users Setup Pages List

**Identification**

Tag Name: Alarm0 Page: Default

Tag Description: W20.00 On

**I/O Server Setup**

Server Name: FINS Topic Name: A

Address: W20#0 No Help

Type: Boolean Force Read Only:  eWON value = IO Server Value \* 1 + 0

**Tag Visibility**

**Global settings**

Published value: eWON value \* 1 + 0 REMARK: Value published is unsigned 16bits for ModbusTCP and signed 32 bits for SNMP

**Modbus TCP**  Enabled

Register: 1  Use 32-bit format (not available for booleans)

**SNMP**  Enabled

OID: 1 Value published: .1.3.6.1.4.1.8284.2.1.3.1.11.1.4.OID (Max value 32767)

**Instant Value**

Group A  Group B  Group C  Group D

**Alarm Setup**  Alarm Enabled

Alarm Level Low: 0 Alarm Level High: 1 Value Deadband: 0

Alarm Level LowLow: Alarm Level HighHigh: Leave empty HiHi if unused and LoLo if unused

Boolean Alarm Level: 1

Activation Delay: 0 sec Auto acknowledge:  (Auto ACK on RTN)

Alarm Hint:

**Alarm Setup (for setting up email address(es) used for alarms):**  
**(the # followed by @vtext.com in the email section allows you to send a text message to a Verizon phone)**

**US Provider List**

- AT&T: number@txt.att.net
- T-Mobile: number@tmomail.net
- Verizon: number@vtext.com
- Sprint: number@messaging.sprintpcs.com or number@pm.sprint.com
- Virgin Mobile: number@vmobl.com
- Tracfone: number@mmst5.tracfone.com
- Metro PCS: number@mymetropcs.com
- Boost Mobile: number@myboostmobile.com
- Cricket: number@sms.mycricket.com
- Nextel: number@messaging.nextel.com
- Alltel: number@message.alltel.com
- Ptel: number@ptel.com
- Suncom: number@tms.suncom.com
- Qwest: number@qwestmp.com
- U.S. Cellular: number@email.uscc.net

**I/O Monitor (for monitoring alarms or I/O):**

Tag Name	Value	New Value	Update	Description
Alarm0	0	0	Update	W20.00 On
Alarm1	0	0	Update	W20.01 On
Alarm2	1	1	Update	W20.02 On

**Email Sent from eWON Flexy and received in email Inbox:**



**Panel Alarm**

To:  ron.com, 8473339938@vtext.com.

Event on Tagname: Alarm0  
 Status: ALM, Level: LVL  
 \*\*\* Tagname Description:  
 W20.00 On