# 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 <a href="http://wiki.ewon.biz/Support/01\_Getting\_Started">http://wiki.ewon.biz/Support/01\_Getting\_Started</a>

#### 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

- 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

# NJ Setup

#### NJ Ethernet Setup:

ILO_NJ5		TCP/IP Settings
▼ Configurations and Setup		
EtherCAT		▼ IP Address
CPU/Expansion Racks	LINK	Fixed setting
🛃 🛃 I/O Map		IP address 192.168.250.42
Controller Setup		Subnet mask 255.255.2550
Coperation Settings	стр	Default gateway 192.168.000.1_
■ L 📅 Built-in EtherNet/IP Port Settings	FIF	O Obtain from BOOTP server.
■ ► ⊕ Motion Control Setup		Fix at the IP address obtained from BOOTP server.
Cam Data Settings		T DNS
Event Settings	INTP	
Task Settings		Driacity DNS capier
Data Trace Settings		Secondary DNS server

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

ECAT EtherCAT	var Global Variables 🗙					
Name	🔺 🛛 Data Type	Initial Value	AT	Retain	Constant	Network Publish
EwonMsg1	BOOL		%W20.00			Publish Only
EwonMsg2	BOOL		%W20.01			Publish Only
EwonMsg3	BOOL		%W20.02			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

😫 eCatch	ner (5.0.1 build 16	5908)							3
0	Active cor	noction				OE [ref: 132	413-13] <u>Loqout</u>	English 🔻	?
eWONs	Active col	mection		No active connec	ction.				_
Users	My eWON	5							
R	🕂 Add 🛛	Properties 📰 Log	💉 Connect	C Refresh			_		
-44	Name	▲ Status	Description	1		User(s) connected	Custom Field 3	Custom Fi	eld 2
Account	Omron_NJ	🔗 Online	Sysmac						
	•			TH .					Þ
					Credit:EU	R15.00	Id	le Talk2M	0

#### Once you are connected you will see a connection like below

🚅 eCatch	ner (5.0.1 build 16908)						
					OE [ref: 132413	-13] Logout	English 🔻 ?
6	Active connect	tion					
eWONs	(Talk2M)	2 <u>Omron NJ</u> 10.220.136	. 152 (LAN: 192. 168. 250. 0 <b>. 19/24</b> All devices on	19) Sysmac Panel Automa the network are reachable	tion Center by connected users.		Disconnect
USE S	My eWONs						
<b></b>	+ Add 📝 Pro	operties 🔝 Log 👧	Disconnect 💽 Re	fresh			
Account	Name	→ Status	Description		User(s) connected	Custom Field 3	Custom Field 2
	Omron_NJ	Connec.	Sysmac		mac		
	•		m				Þ
				Credit:EUR	15.00	] ]	dle Talk2M 🕕

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



Communications Setup		
Connection type		
Select a method to connect with the Controller to use ever	y time you go online.	
O Direct connection via USB		
O Direct connection via Ethernet		
Remote connection via USB		
<ul> <li>Select one method from these options at every</li> </ul>		
O online connection.		
Direct connection via USB		
Direct connection via Ethernet     Remote connection via USB		8
Ethernet connection via a hub	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE OWNER OWNER OWNER OWNE OWNER OWNE	
Remote IP Address		
Select a method to connect with the Controller to use ever	y time you go online.	
19	2.168.250.42	
USB Communication	ns Test Ethernet Communications Test	t
Test OK		
Options		
	Cancel	

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

		A 🛛 🕅 🥅 🔼 🔌 /	58 💉 🖡 🚺 🖸	입 입 🖸 🔍	Q, 110
ILO_Basic - ILO_Program	× Var Global Variables				
Variables					
2 P.On	Seisw Assi OFF ON	Selsw SSSL OFF ON			EwonMsa1
					%W20.00
	TesteWon1				
		T T 0//0			EuropMag2
	ILO_Panel_Power_Up	TimerTurnOff.Q			Ewoniwisgz
					%W20.01
	TesteWon2				101120101
	P_Off				EwonMsg3
	TesteWon3				%W20.02
Vatch2					
Name		Online value	Modify	Comment	Data type
TesteWon1	True		TRUE FALSE		BOOL
			TRUE FALSE		0001
lesteWon2	False		TRUE FALSE		BOOL

# eWon Flexy Configuration Setup

System Setup:

<b>CEWON</b>		Tag Setup.	Sintern Setup	JD Server Config	Kan Menz 😥
Oreren Automation Center		cret Setup:	Uren Setup	Pages Lat.	weeks
Commences .	General		Compatible	lizza	18/03/2013 15:38:30
COM Config	Ethernet LAN Connection				
E Networking	Address Setup	tuk •	Nec Address: 00103:27/01:#0120		
g-Internet Connection	SF ADDress	192.368.290.19	6-12 A		
13 VPN Connection	Subnet mask.	255.255.255.0			
-> Global	Default gateries	192.168.0.1			
- Outgoing	tees Settap				
- A Publish IP Address	Primary DVS IP address	75.75.75.75	Searce Mark (pr. 0.0.0.0) If no DMS		
Calbeck	Secondary DHS IP address	75.75.76.76			
- Proxy				Update	

#### Wifi Setup:

<b>WON</b>	View I/O Alarm Summary		γ	Diagnostic	Configuration
G Omron Automation Center		Alarm History	,	Files Transfer	Log off 🕮
<u>General</u>		Communication		<u>Storage</u>	18/05/2015 15:38:30
COM Config	WIFI WAN Connection				
En Vetworking	Current Connection	OMRON-guest 🔒 ᅙ			
- Internet Connection	Network Selection	List 👻	Mac Address: 00	:07:80:01:cd:6d	
UPN Connection	Network Name	OMRON-guest	SSID Name		
🕨 Global	Network Passphrase				
Incoming	Address Setup	DHCP -			
Publish IP Address	IP address	192.168.1.217			
- 🏡 Callback	Subnet mask	255.255.254.0			
Proxy	Default gateway	192.168.0.1			
- 🔒 Security	DNS Setup	Via DHCP			
IP Services	Primary DNS IP address	75.75.75.75	Leave blank (or	0.0.0.0) if no DNS	
Security	Secondary DNS IP address	75.75.76.76			
ស Default config	DHCP Config				
	Network name		Ex: myewon or	myewon.example.com (a-z,0-9, Cfr: RFC 470	2), value common to LAN and WAN
			Upo	late	

#### General/Alarms (for Email Server address):

<b>COWON</b>	View I/O		Alarm Summ	Tary	Diagnostic	Configuration
Orron Automation Center			Alarm Hist	ory	Files Transfer	Log off 🥵
General		Secondaria			Storman	18/05/2015 15:3
-Main settings	Identification					
	eWON Identification:	Omron				
- O Date & time - C Reboot	General Information:	Pane1				
Planner	User defined home page:	http://your_devic	e_jp/usr/ •		(dear for eWODI defi	ault home page)
SMTP (mails)	Enable user pages security:	V				
-ONTP (time)	Alarms					
	Action retrig. interval:	86400	pec	Action occurres-again	if condition is still true	
Diagnosis	Retry action:	1 Isse(s) Number of times the action is retried in case of error (>=1)				
Events logging	Action retry interval:	120	sec -	Interval before retry	n case of error (>=10)	
-@ PP9 dump -@ Debug	Enual Alarm Template:					
	SHS Alarm Template:					
	SMTP Configure Mail Transfert					
	SMTP Server Address:	relay.talk2m.co	m	Oscally something like	e untp-domain.com or mail.domain.com (can be an	IP ackitess)
	SMTP Server Port:	25		The default value is a	25. It must only be changed in very special cases.	
	EMail "From" User name:	ron@ornron.	com	This will be used to a	end EMails, it must be compatible with your account	It name on the SMTP server.
	User nume:			Fill this only if SMTP (	equires authentication, otherwise leave impty.	
	Parasecrati			Password for SMTP a	uthentication (unity if above field used).	

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

<b>Cewon</b>	Tag Setup	System Setup	10 Server Config	Han Menu 🔞								
Conron Automation Center	Script Setup	Usen Setup	Pages List	Let								
10 Servert FINS • Edit Clea	r. Int	Gabal Cortig	18/05/2015 10:04:5									
FDRS 10 Server & Galeway sett	ings											
COH 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:	legic A: Dinated											
Topc Name:												
Protocol:	Firs TOP •											
Gobal Device Address:	0,42,192.168.250.42	NoHelp										
Pol Rate	100 MS	Default: 2000										
Topic D:	C Enabled											
Topic Name:	+											
Protocol:	Fins TOP .	Firs TO • Defail: SRIA.										
Gobal Device Address:	1,42,192.168.250.42	Noticlo										
Pol Rate	100 MS	Default: 2000										
Topic C: Envice												
Topic Name:	с											
Protocol:	Firs TOP 🔹			Default: SERIAL								
Gobal Device Address:	No Heb											
Pol Rate	MS			Default: 2000								

### Tag Setup (for setting up alarms):

<b>WON</b>	Tag	Setup	Sys	stem Setup	IO Server Config		Main Menu	10				
G Omron Automation Center	Script	: Setup	Us	sers Setup	Pages List			Wiz				
Identification												
Tag Name:	Alarm0		Page:	Default 🔻								
Tag Description:	Tag Description:											
I/O Server Setup												
Server Name:	FINS 🔻	Topic Name:	A	-								
Address:	W20≢0 No Help											
Туре:	Boolean  Force Read Only:  Boolean  Boo											
Tag Visibility												
Global settings	Global settings											
Published value:	eWON value * 1	+ 0	REMARK: V	alue published is unsigned 16	its for ModbusTCP and signed 32 bits for	r snmp						
Modbus TCP	Enabled											
Register	1 Use 32-bit format (not available for booleans)											
SNMP	🔲 Enabled											
OID	1	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	o D										
Alarm Setup	Alarm Enabled											
Alarm Level Low:	0	Alarm	Level High:	1	Value Deadban	d:	0					
Alarm Level LowLow:		Alarm	Level HighHigh:		Leave empty Hi	eave empty HiHi if unused and LoLo if unused						
Boolean Alarm Level:	Boolean Alarm Level:											
Activation Delay:	0 sec Auto admowledge: CAuto ACK on RTN)											
Alarm Hint:			a									

7/10/2015

#### 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) Tag Setup System Setup 10 Server Config Over Modification for tag Setup Ubers Setup Pages Lat New Modification for tag Setup Over Config New Modification fo

Children Advances of Collab		Contract of the Automatical States		Contraction of the second	and the second se		
Alarm Notification for tag	acmQ						
Ettail upon	M ALM		RTN 🔲 END				
Short Message:	Format as short message						
EMail to:	ron@or	mron.com, 8473	339938@vtext.c	ex: uz 10dom.ci,uz 20dom.ci			
EMail CC:							
EMail Subject:	Panel A	Jarm (Input Sec	tion)				
EMail Attachment(s):		_	-		ai ex: A[\$dtEV]		
SMS upon	ALM	ACK 🔲	RTN 🔲 END				
SMS Destination:					ex:0456334453,gsm,0;045645123,gsm,0		
SM5 Subject							
Put FTP upon	ALM		RTN 📕 END				
Destination Flic Name:							
File Content:							
SHIMP Trap upon	AIN		RTN 🔲 END				
Trap Subjects							

- 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):

	ewon		View I/O	Alarm Summary			Diagnostic		Configuration
ñ	Omron Automation Center			Alarm History			Files Transfer		Log off 🎒
	Show Graph For Select	<u>on</u>	ging <u>Table</u> Page: Default		-	✓ Update 18/0			
	۵	Tag Name	Value		New Value			Description	
	Alarm0				0	0 👻	Update	W20.00 On	
	Alarm1				0	0 👻	Update	W20.01 On	
	D Alarm2				1	1 🔻	Update	W20.02 On	

#### Email Sent from eWon Flexy and received in email Inbox:



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