

## Remote Access to NB HMIs and CJ or CP Series PLCs Quick Start Guide

### **Overview:**

- 1. Omron has partnered with eWON, a global supplier of connectivity software tools, for a simple to implement solution for remote access to PLCs and HMIs at a customer.
- 2. This guide covers steps to download eWON connectivity tools and how to configure the router for NB series HMIs and CJ or CP series PLCs.
- 3. eWON solves the biggest problem with industrial remote access connecting quickly and securely through a customer's LAN without knowing the network setup beforehand.



## OMRON

## Remote Access Made Easy with eWON

An eWON/ Omron Collaboration

## eWON is the global leader in secure remote access.

Founded in 1991, eWON is a Belgian manufacturer of industrial connectivity devices. Over the last 15 years, eWON has become the global market leader for intelligent cloudmanaged remote access devices, and works with manufacturers of PLCs and automation systems throughout the world.

### Solution Advantage



By combining Omron's automation expertise with eWON's connectivity knowhow, OEMs and machine builders get a cohesive, global solution for remote access.

The experience is as good as

The eWON COSY 141

being next to the machine. eWON allows users to upload projects, gain remote use of an HMI, debug the PLC program and, if necessary, download new settings or programs, all done remotely to immediately support the customer.

### No More IT Challenges!

Once an eWON device is configured, it can be deployed anywhere in the world. Because the eWON makes an outbound connection, it eliminates the need for customer network/ firewall changes. In most cases, **it just works**.

It is the best solution to the biggest problem with industrial remote access - connecting quickly and securely through a customer's LAN without knowing the **B**twork setup beforehand.

### Fully Compatible with Partner products

Omron's business is Machine Automation, they provide the latest in sensing, motion and control technology, to help customers develop better machines.

As a trusted worldwide partner in Automation, providing customers the support to operate globally requires secure remote connectivity. Remote access made possible by eWon allows Omron to expand its communications offerings.



### Quick Facts

- Simple remote maintenance for CJ or CP PLC with NB HMI setup.
- Outbound communication means no complications with IT depts.
- Quickly support your customer
- Eliminate expensive trips
- Easy and secure remote access using existing LAN
- Preconfigure your eWON before deployment





Step	Action	Illustration
1.	Download and Install eCatcher and eBuddy onto your Windows PC http://www.ewon.us/us/Support/software-download.html Note: On Windows 7 Right click the eCatcher installation file and run as administrator.	
2.	Launch eCatcher and select "Create Free+ Account." From there, you'll fill out all the information we need to activate your account. *Make sure you use a valid email address! We'll send you an email with a link that activates your new account.	Login Username: Password: Forgot password Account: ewonusa Create a Free + account Create a Free + account Connect Automatically Login
3.	Log in with your new account and click the "+" button to add a new device. Now you'll name your eWON, fill out some custom fields (if desired) and get your activation key <i>*Click "Copy to Clipboard" to save yourself some time.</i>	eWON list         Image: Construction of the second of the database for during the construction of Tables.         Configure on Activation for the database for during the construction of Tables.         Image: Construction for the database for during the construction of Tables.         Image: Construction for the database for during the construction of Tables.         Image: Construction for during the construction of Tables.         Image: Construction for the database for during the construction of Tables.         Image: Construction for during the construction of Tables.
4.	nnect an Ethernet cable from your computer to one of the r LAN ports on your COSY.	
5.	Connect an Ethernet cable from your network to the WAN port so the COSY is able to reach the internet.	
6.	Open eBuddy and select the "Set IP Address" option. Here we will set the LAN IP address of your eWON. * Make sure to pick an IP address that won't conflict with your eWON's WAN IP or your computer's IP! More information can found here: http://wiki.ewon.biz/COSY/0_Set_eWON_Machine_LAN_IP_address	Serial Number:         1203-0060-59           IP Address:         192 . 168 . 120 . 100           Subnet Mask:         255 . 255 . 255 . 0





7.	Set your computer's IP address to be in the same range as the IP address chosen for the eWON's LAN. *These settings are accessible from the Control Panel in the Network and Sharing Center.	Internet Protocol Version 4 (TCP/IPv4) Properties
8.	Open your web browser and enter the LAN IP address of your eWON into the address bar. *The default username and password are both "adm"	
9.	Select the "Quick Launch Wizard" button and fill out each section of the wizard completely. *You will be asked for the "Activation Key" that was copied to your clipboard earlier. *There are four sections that need to be completed: System, Internet, Talk2M, and Gateway.	CALCRONAL CALCRONAL
10.	Lastly, unplug the Ethernet cable connecting your computer to the eWON's LAN part and return your computer's IP settings to the original configuration.	
12.	Congratulations! Your eWON is now ready to go, simply open eCatcher, select your eWON, and click connect!	eWON list





13.	The NB is not compatible with the eWON's Plug'n Route feature. To disable Plug'n Route, browse to the eWON's web page and select "Settings"	Settings
14.	Click on "Maintenance" and check the "Show advanced options" checkbox.	System V Itemet Itali216 V Gatevaly V Mandemance Glubal Configuration Language English = Reduct en/On: English = Reduct en/On: English = Show advanced optima: Show advanced opti
15.	Click the "Edit COM configuration" to view the COSY's configuration page.	Edit COM configuration
16.	Find the parameter "NATItf" and double click the value to pull up the editor. Change the value to equal "0". Click "Ok"	Edit value Natltf: 0 Restore previous value 3 Cancel Ok
17.	Click the "Save" button to save the configuration change and reboot the COSY to apply the change. <b>NOTE</b> : After you have disabled Plug'n Route, you must set the gateway in all Ethernet devices behind the eWON to be the eWON's LAN IP address. Unless the gateway is set, you will not be able to reach the device through a remote connection.	Save





18.	The NB requires changes to the MTU size of the Talk2m-eCatcher Connection network adapter. To modify this value, bring up your Network Control Panel and select "Change Adapter Settings"	Image: Second Stating Second Statin
19.	Double click on the Talk2m- eCatcher Connection network adapter	Control Panel + Network and Internet + Network Connections +
20.	From the Talk2m-eCatcher Connection Properties pane, select configure. Click on the Advanced tab, select the MTU property and set the value to 800. Click OK	Tali2m       Catcher Connection Properties         Intervolving       Intervolving         Intervolving       Connection         Intervolving       C





Configure Omron CJ2	
In CX Programmer, set the PLC IP Address.	C TAC- Of Programmer (Browing)     How Programmer (Browing)       D SF 000 Vacuum based Into C Browner Statuted Into Watching Marge       D SF 000 Vacuum based Into C Browner Vacuum Va
In this case the IP address is 0.0.0.0 which means default 192.168.250.x. x is the node number which is set by the node number rotary switches on the PLC near the Ethernet cable. (0 to 99). If you type in an address you get the full address range. For FIN's the auto mapping of Ethernet to FIN's only works to 254 on a Class C network.	C22M-EIP21 [Edit Parameters]         TCP/IP         IP Address
Set the dynamic IP address feature	CDM-SIP22 [Edd Parameters]       Image: Compare State St
In CX Programmer, to find the PLC when connected remotely, select show all and then setting the network type to Ethernet – which gives you the Omron FIN's protocol.	Image: Section Section 1         Image: Section Section 2         Image: Sec





## Get Up and Running with Omron and eWON

Select and Connect in Under 20 Minutes





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