



Controller using DDNS

ver.1.0

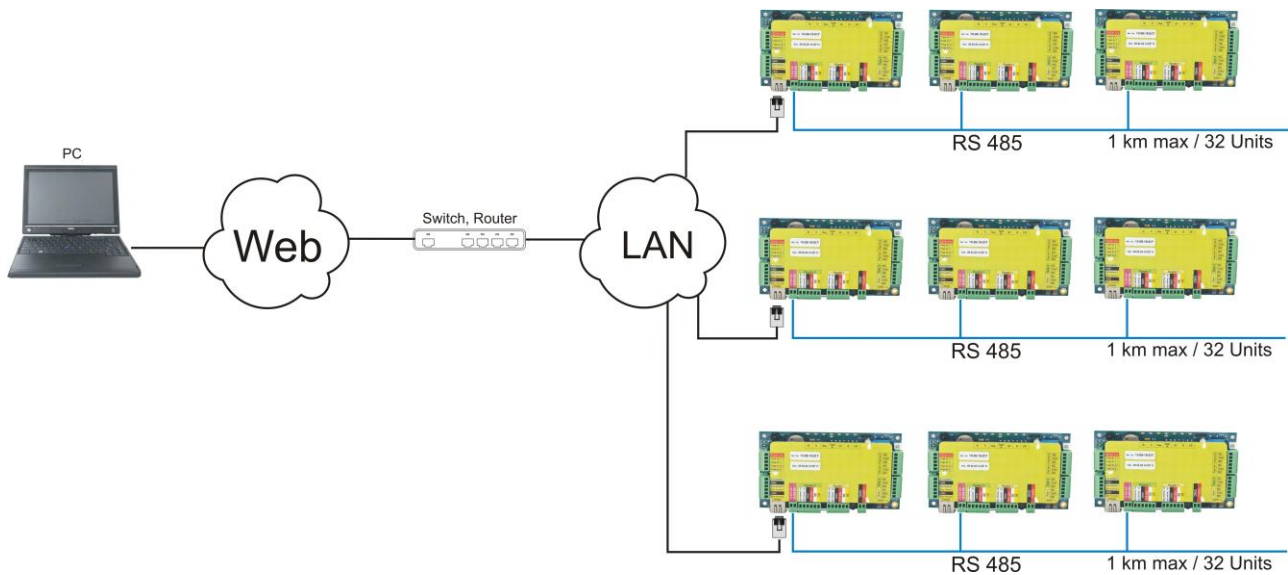
If the site where the installation is made is different than the site where the PROS software will run and there is no static IP on the installation then there are two basic ways to achieve interconnection:

Method I (Recommended)

Configure the Router at the installation site to obtain DNS domain

Method II

Configure one EWS Controller to obtain DNS domain



Method I (Recommended)

“Configure the router at the installation site to obtain DNS domain”

Requirements:

The router at the installation site supports Dynamic DNS Service

Step1: Register DNS Hostname at DDNS service (choose one supported by your router). The example given bellow is with TP Link Router.

- Click on Dynamic DNS
- Select the service provider

TP-LINK® 54M Wireless Router with eXtended Range™

54M Wireless Router
Model No.: TL-WR541G / TL-WR542G

DDNS

Service Provider: **Dyndns (www.dyndns.org)** [Go to register...](#)

User Name:

Password:

Domain Name:

☒ Enable DDNS

Connection Status: Succeeded!

Go to the web site of the selected Provider (in this case **dyndns.org**) to register a hostname.

1. Click on Get Started and this window will appear. Click on Sign Up under the DynDNS Free column.

DynDNS Free	DynDNS Pro	DynDNS Custom
FREE	\$15.00/yr	\$29.95/yr
Sign Up	Sign Up	Sign Up
2	25	75
Choose from one of ours	Choose from one of ours	Custom Domain
-	✓	✓
1	1	1
5 Unicast	5 Unicast	5 Unicast
-	Update history (24 hr.)	Update history (24 hr.)
-	-	-
Sign Up	Sign Up	Sign Up

- 2.

Add New Hostname

You don't currently have a [Dynamic DNS Pro service](#) in your account.

To get the full benefits of Dynamic DNS, including premium subscriber domains and other features, [add Dynan your shopping cart](#) (or try it with \$1.99 [monthly subscription](#)).

Hostname:

Wildcard: ☐ create "*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)

Service Type: ☒ Host with IP address
☐ WebHop Redirect (URL forwarding service)
☐ Offline Hostname

IP Address:
[Your current location's IP address is 89.205.29.136](#)
TTL value is 60 seconds. [Edit TTL...](#)

Mail Routing: ☐ I have mail server with another name and would like to add MX hostname...

What do you want to use this host for?
Select services and devices you would like to use with this hostname.
Work From Home Office or VPN:
☐ vpn ☐ remote file access ☐ remote desktop ☐ mail server ☐ web server
☐ chat server ☐ ftp backup ☐ ssh ☐ database ☐ voip
Hosting and Design For Web Sites and Blogs:
☐ blog ☐ gallery ☐ wiki ☐ portfolio ☐ ecommerce ☐ web page
Remote Access For Devices:
☐ dvr ☐ webcam ☐ data storage ☐ cctv ☐ printer ☐ alarm and security
☐ thermostat ☐ weather station ☐ game server ☐ home automation

[Add To Cart](#)

- Enter Hostname (ex. **my-company**)
- Click on the link in order to obtain Your Dynamic IP address.
- Select type of application i.e. "alarm and security"
- Click "Add to Cart"

- 3.

Settings

View

My Settings

My

File

HIRING

by Dyn

Upgrade Options

Free accounts allow only two Dynamic DNS hosts.
• to add more and enjoy additional benefits for only \$15.00 per year, [purchase Dynamic DNS Pro \\$15.00](#).
• to get Dynamic DNS for **your own domain**, use [Custom DNS](#).

Dynamic DNS Hosts

my-company.dyndns.org	remove	\$0.00
-----------------------	------------------------	--------

Order Total: \$0.00

Create account or log in to continue checkout:

Username

Password

Confirm password

Email

Confirm Email

Security Image

Enter the numbers from the above image:

Subscribe to ☐ DynDNS.com newsletter (1 or 2 per month)
☐ Dyn Inc. press releases

☐ I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).

[Create Account](#)

Already Registered?

Username

Password

[Forgot your password?](#)

[Login](#)

2. If you're having difficulty creating your account, for any reason, feel free to [contact us](#).

- Fill in this form and remember the Username and the Password.
- Wait for confirmation mail and confirm the account.

4

4. Click “proceed to checkout”

The screenshot shows the DynDNS.com Shopping Cart page. The header includes the DynDNS.com logo, navigation links (DNS & Domains, Email Services, Performance & Security), a search bar, and a user welcome message (Welcome tose123) with links for My Account and Log Out. The left sidebar contains a 'My Account' menu with links to My Services, Account Settings, Billing, Active Services, Auto Renew Settings, Order History, and Billing Profile. Below the menu is a 'WE'RE HIRING' banner and a 'Powered by Dyn' logo. The main content area is titled 'Shopping Cart' and features a 'Proceed to checkout' button. Below this, there are 'Upgrade Options' and a table of 'Dynamic DNS Hosts'.

Dynamic DNS Hosts		
my-company.dyndns.org	-	remove \$0.00
Order Total:		\$0.00

Below the table is another 'Proceed to checkout' button.

5. Click “Activate Services”

The screenshot shows the DynDNS.com Free Services Checkout page. The header is identical to the previous page. The left sidebar is also identical. The main content area is titled 'Free Services Checkout' and includes a message: 'Once you have confirmed the contents of your cart your services will be instantly activated.' Below this is a table showing the services to be activated.

Service	Period	Price
Dynamic DNS Hosts		
my-company.dyndns.org	-	\$0.00
Sub-Total:		\$0.00

Below the table is an 'Activate Services >>' button.

6. Copy the Hostname “my-company.dyndns.org”

The screenshot shows the DynDNS.com Host Services page. The header is identical to the previous pages. The left sidebar is also identical. The main content area is titled 'Host Services' and includes a message: 'my-company.dyndns.org successfully activated.' Below this is a table showing the host services.

Hostname	Service	Details	Last Updated
my-company.dyndns.org	Host	89.205.29.136	Apr. 12, 2011 8:29 AM

Below the table is a 'Show us some love!' message with social media sharing links (Facebook, Twitter) and a '+ My Services' button.

Step2: Set your router to use that DYNDNS Service.

The screenshot shows the web interface of a TP-LINK 54M Wireless Router. The header includes the TP-LINK logo and the text "54M Wireless Router with eXtended Range™". On the left, a sidebar lists navigation options: Status, Basic Settings, Quick Setup, Network, Wireless, Advanced Settings, DHCP, Forwarding, Security, Static Routing, IP QoS, IP & MAC Binding, Dynamic DNS, Maintenance, and System Tools. The main content area is titled "DDNS" and contains the following fields and controls:

- Service Provider:** A dropdown menu set to "Dyndns (www.dyndns.org)" with a link to "Go to register..."
- User Name:** A text input field containing "mycompany"
- Password:** A text input field filled with dots
- Domain Name:** A text input field containing "my-company.dyndns.orgg"
- Enable DDNS:** A checked checkbox
- Connection Status:** Displays "Succeeded!"
- Buttons:** "Login", "Logout", and "Save" buttons.

- Paste the Hostname "my-company.dyndns.org"
- Put the Username and the Password
- Check "Enable DDNS"
- Click "Login"
- After successful configuration, "Succeeded" message will appear in the "Connection status" field

Step3: Setup Port forwarding for the EWS

TP-LINK® 54M Wireless Router with eXtended Range™

54M Wireless Router
Model No.: TL-WR541G / TL-WR542G

- Status
- Basic Settings
- Quick Setup
- Network
- Wireless
- Advanced Settings
 - DHCP
 - Forwarding
 - Virtual Servers**
 - Port Triggering
 - DMZ
 - UPnP
 - Security
 - Static Routing
 - IP QoS
 - IP & MAC Binding
 - Dynamic DNS
- Maintenance
- System Tools

Virtual Servers

ID	Service Port	IP Address	Protocol	Status	Modify
1	4010	192.168.1.21	ALL	Enabled	Modify Delete
2	8080	192.168.1.15	ALL	Enabled	Modify Delete
3	80	192.168.1.21	ALL	Enabled	Modify Delete

[Add New...](#) [Enable All](#) [Disable All](#) [Delete All](#)

[Previous](#) [Next](#)

- Click on Forwarding/Virtual servers
- Click "Add New"

TP-LINK® 54M Wireless Router with eXtended Range™

54M Wireless Router
Model No.: TL-WR541G / TL-WR542G

- Status
- Basic Settings
- Quick Setup
- Network
- Wireless
- Advanced Settings
 - DHCP
 - Forwarding
 - Virtual Servers**
 - Port Triggering
 - DMZ
 - UPnP
 - Security
 - Static Routing
 - IP QoS
 - IP & MAC Binding
 - Dynamic DNS
- Maintenance
- System Tools

Add or Modify a Virtual Server Entry

Service Port: (XX-XX or XX)

IP Address:

Protocol:

Status:

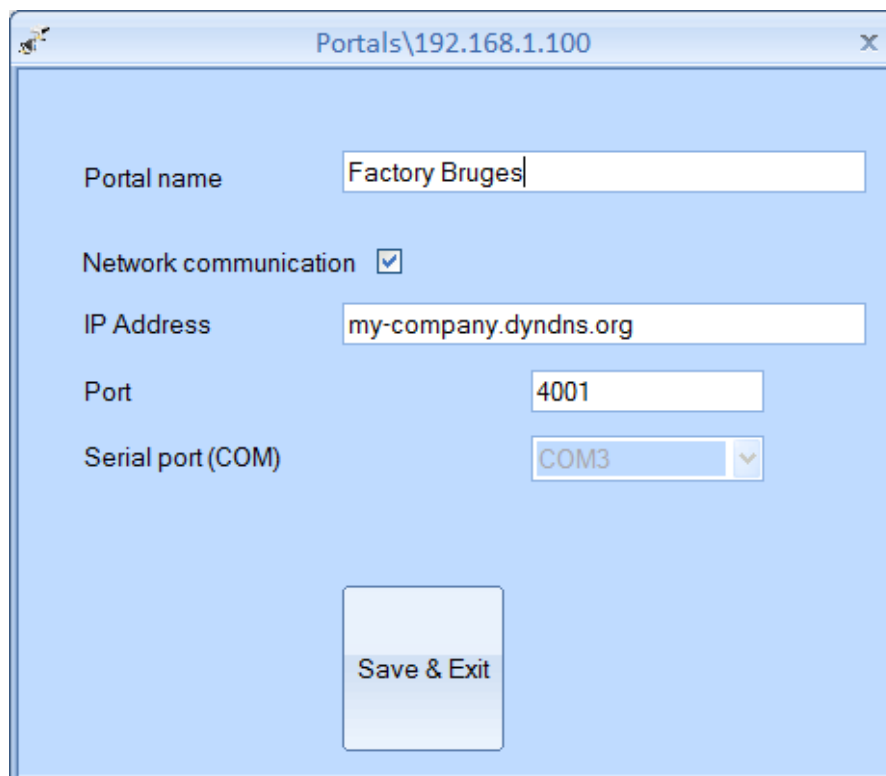
Common Service Port:

[Save](#) [Back](#)

- Put the Port
- Put the IP Address of the EWS Controller (192.168.1.100)
- Save

Step4: Inserting the DNS Hostname in the PROS software

- Open the PROS Software
- Create a portal with IP address: my-company.dyndns.com



The screenshot shows a window titled "Portals\192.168.1.100" with a close button (X) in the top right corner. The window contains the following configuration fields:

- Portal name:** A text box containing "Factory Bruges".
- Network communication:** A checkbox that is checked.
- IP Address:** A text box containing "my-company.dyndns.org".
- Port:** A text box containing "4001".
- Serial port (COM):** A dropdown menu showing "COM3".
- Save & Exit:** A button at the bottom center of the window.

Method II

“Configure one EWS Controller to obtain DNS domain”

Limitations:

Only 1 EWS Controller can be set. Only www.dyndns.com Provider can be used.

Step1: Configuring the EWS and creating DYNDNS hostname

1. Type in the browser (Internet Explorer, Mozilla...) the IP of the EWS Controller <http://192.168.1.100> and this window will appear:



Login to EWS

Username:

Password:

Login

Default:

Username: **admin**

Password: **00000000**

2. Type: **admin** for username and **00000000** for password.

or "admin" on http://192.168.1.100/

EWS2 Settings

System WAN / LAN

IP Address

SubnetMask

Gateway IP

DNS Server

DHCP Enable ☐

Dynamic DNS

Service: dyndns.org

DDNS Hostname:

DDNS Username:

DDNS Password:

Public IP Address:

Last known STATUS:

To disable DDNS service, leave the Hostname box blank.

Network Ports

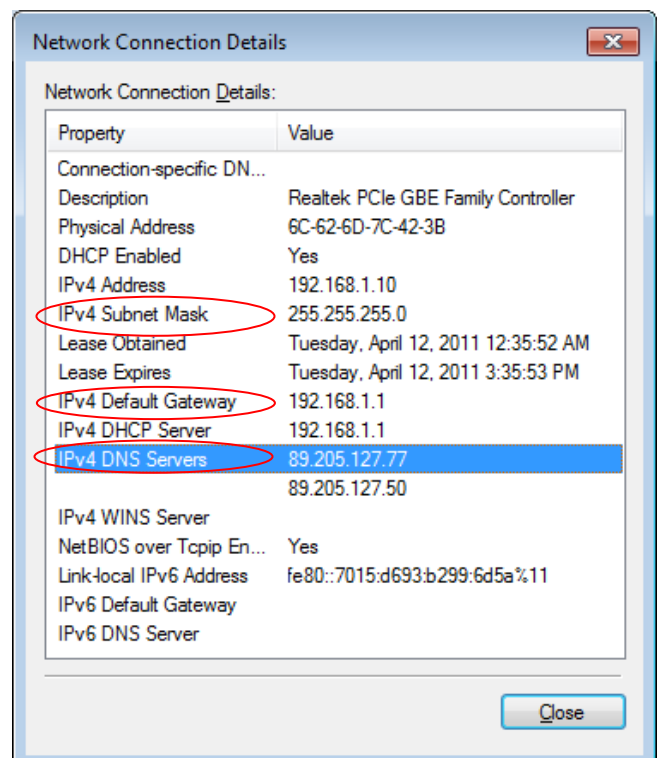
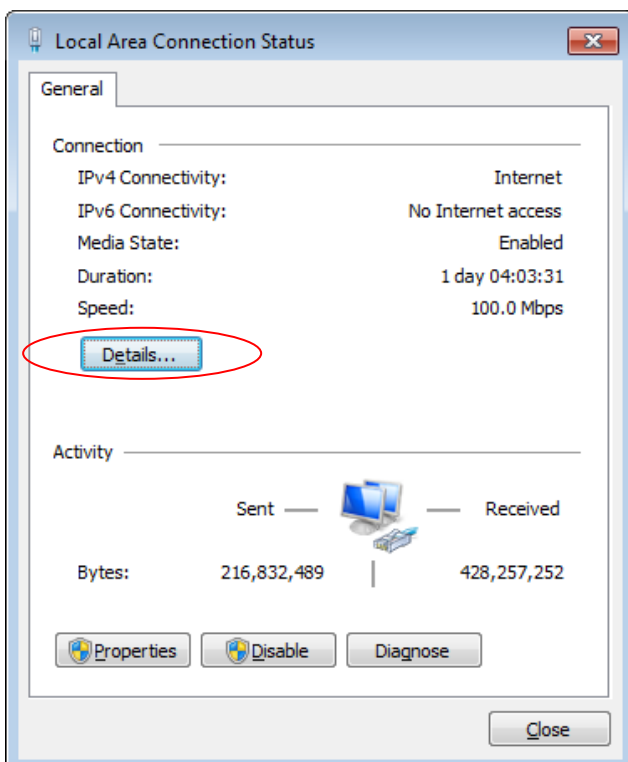
TCP Data Port

UDP SetupPort

Firmware v 1.09
NetID: 62985379

3. The parameters marked in red must be set according to your network configuration.

- To do that go to Local Area connection properties and click on details (the example given bellow refers to Windows 7)
- Read out Subnet Mask, the Gateway and the DNS Server address.



4. Write the parameters in the EWS settings window.

Note: If DHCP was enabled, all the parameters would have been set automatically by the router, including the IP address of the EWS Unit.

EWS2 Settings

System WAN / LAN

IP Address

SubnetMask

Gateway IP

DNS Server

DHCP Enable ☐

Dynamic DNS

Service: dyndns.org

DDNS Hostname:

DDNS Username:

DDNS Password:

Public IP Address:

Last known STATUS:

To disable DNS service, leave the Hostname box blank.

Network Ports

TCP Data Port

UDP SetupPort

Firmware v 1.09
NetID: 62985379

5. Click on dyndns.org to create FREE Hostname.

6. Click on Get Started and this window will appear. Click on Sign Up under the DynDNS Free column.

DynDNS Free FREE	DynDNS Pro \$15.00/yr	DynDNS Custom \$29.95/yr
<input type="button" value="Sign Up"/>	<input type="button" value="Sign Up"/>	<input type="button" value="Sign Up"/>
2	25	75
Choose from one of ours	Choose from one of ours	Custom Domain
-	✓	✓
1	1	1
5 Unicast	5 Unicast	5 Unicast
-	Update history (24 hr.)	Update history (24 hr.)
-	-	-
<input type="button" value="Sign Up"/>	<input type="button" value="Sign Up"/>	<input type="button" value="Sign Up"/>

7.

Add New Hostname

You don't currently have a [Dynamic DNS Pro service](#) in your account.

To get the full benefits of Dynamic DNS, including premium subscriber domains and other features, [add Dynan your shopping cart](#) (or try it with \$1.99 [monthly subscription](#)).

Hostname: my-company . dyndns.org Wildcard: <input type="checkbox"/> create "*" host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com) Service Type: <input checked="" type="radio"/> Host with IP address <input type="radio"/> WebHop Redirect (URL forwarding service) <input type="radio"/> Offline Hostname
IP Address: 89.205.29.136 Your current location's IP address is 89.205.29.136 TTL value is 60 seconds. Edit TTL...
Mail Routing: <input type="checkbox"/> I have mail server with another name and would like to add MX hostname...
What do you want to use this host for? Select services and devices you would like to use with this hostname. Work From Home Office or VPN: vpn remote file access remote desktop mail server web server chat server ftp backup ssh database voip Hosting and Design For Web Sites and Blogs: blog gallery wiki portfolio ecommerce web page Remote Access For Devices: dvr webcam data storage cctv printer alarm and security thermostat weather station game server home automation

Add To Cart

- Enter Hostname (ex. **my-company**)
- Click on the link in order to obtain the IP address.
- Select type of application i.e. "alarm and security"
- Click "Add to Cart"

8.

Settings
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E HIRING
by Dyn


Upgrade Options

Free accounts allow only two Dynamic DNS hosts.

- to add more and enjoy additional benefits for only \$15.00 per year, [purchase Dynamic DNS Pro](#).
- to get Dynamic DNS for **your own domain**, use [Custom DNS](#).

Dynamic DNS Hosts	
my-company.dyndns.org	remove \$0.00
Order Total: \$0.00	

Create account or log in to continue checkout:

Username
Password
Confirm password
Email
Confirm Email
Security Image

Enter the numbers from the above image:

Subscribe to ☐ DynDNS.com newsletter (1 or 2 per month)

☐ Dyn Inc. press releases

☐ I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).

Create Account

Already Registered?

Username
Password

Login

[Forgot your password?](#)

If you're having difficulty creating your account, for any reason, feel free to [contact us](#).

- Fill in this form and remember the Username and the Password, because they will be used upon log on in the EWS controller.
- Wait for confirmation mail and confirm the account.

9. Click “proceed to checkout”

The screenshot shows the DynDNS.com Shopping Cart page. The header includes the DynDNS.com logo, navigation links (DNS & Domains, Email Services, Performance & Security), a search bar, and a user welcome message for 'tose123'. The left sidebar contains 'My Account' links (My Services, Account Settings, Billing) and a 'WE'RE HIRING' banner. The main content area is titled 'Shopping Cart' and features a 'Proceed to checkout' button. Below this, an 'Upgrade Options' section explains that free accounts are limited to two Dynamic DNS hosts. A table lists the 'Dynamic DNS Hosts' with one entry: 'my-company.dyndns.org' with a price of \$0.00. The 'Order Total' is also \$0.00, with another 'Proceed to checkout' button at the bottom.

10. Click “Activate Services”

The screenshot shows the DynDNS.com 'Free Services Checkout' page. The layout is similar to the previous page. The main content area is titled 'Free Services Checkout' and states that services will be activated upon confirmation. A table lists the 'Dynamic DNS Hosts' with one entry: 'my-company.dyndns.org' with a price of \$0.00. The 'Sub-Total' is \$0.00. An 'Activate Services >>' button is located at the bottom right of the table.

11. Copy the Hostname “my-company.dyndns.org

The screenshot shows the DynDNS.com 'Host Services' page. The header and sidebar are consistent. The main content area is titled 'Host Services' and displays a success message: 'my-company.dyndns.org successfully activated.' Below this, a table lists the 'Host Services' with one entry: 'my-company.dyndns.org' with a service of 'Host', IP address '89.205.29.136', and last updated date 'Apr. 12, 2011 8:29 AM'. A 'My Services' link is in the top right corner of the main area. A social media share prompt is also visible.

Hostname	Service	Details	Last Updated
my-company.dyndns.org	Host	89.205.29.136	Apr. 12, 2011 8:29 AM

12.

EWS2 Settings

System WAN / LAN

IP Address

SubnetMask

Gateway IP

DNS Server

DHCP Enable ☐

Dynamic DNS

Service: dyndns.org

DDNS Hostname:

DDNS Username:

DDNS Password:

Public IP Address:

Last known STATUS:

To disable DDNS service, leave the Hostname box blank.

Network Ports

TCP Data Port

UDP SetupPort

Firmware v 1.09
NetID: 62985379

- Paste the Hostname in the EWS settings window
- Put the Username and the Password
- Click “Update and reset”
- Wait for 30 sec
- Reconnect to the EWS Controller by typing 192.168.1.100 in the browser
- After successful configuration, “Success” message will appear in the “last known status” field.

Step2: Port Forwarding the Router

After configuring the EWS Controller, a **Port Forwarding** (dedicated switch port) is mandatory.

Bellow is given example of Port Forwarding in Linksys Switch. The Ports **80** and **4001** are forwarded to the EWS controller's IP **192.168.1.100**.

- Click the **Applications & Gaming** link near the top of the page.
- You should now see a new menu. In this new menu, click **Port Range Forward**.
- If you are forwarding a single port, enter that port number into the **Start** and the **End** boxes. If you are forwarding a range of ports, enter the lowest number of that range into the **Start** box. Then enter the highest number of that range into the **End** box.

LINKSYS®
A Division of Cisco Systems, Inc.

Firmware Version: 1.00.7

Compact Wireless-G Broadband Router WRT54GC

Applications & Gaming

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Port Range Forwarding | Port Range Triggering | DMZ

Port Range Forwarding

Application Name

HTTP

None

None

None

None

EWS1

Start ~ End Port	Protocol	To IP Address	Enabled
80 ~ 80	<input checked="" type="checkbox"/> TCP <input type="checkbox"/> UDP	192.168.1.100	<input checked="" type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
4001 ~ 4001	<input checked="" type="checkbox"/> TCP <input type="checkbox"/> UDP	192.168.1.100	<input checked="" type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>
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~	<input type="checkbox"/> TCP <input type="checkbox"/> UDP		<input type="checkbox"/>

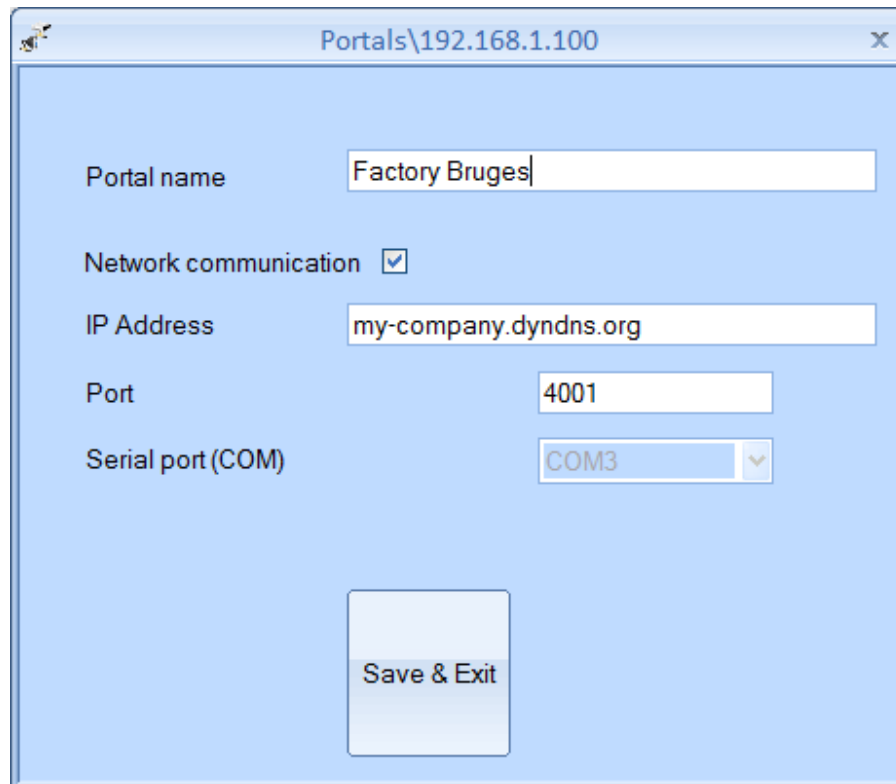
Help...

Save Settings Cancel Changes

CISCO SYSTEMS

Step3: Inserting the DNS Hostname in the PROS software

- Open the PROS Software
- Create a portal with IP address: my-company.dyndns.com



The screenshot shows a window titled "Portals\192.168.1.100" with a light blue background. It contains the following configuration fields:

- Portal name:** A text box containing "Factory Bruges".
- Network communication:** A checkbox that is checked.
- IP Address:** A text box containing "my-company.dyndns.org".
- Port:** A text box containing "4001".
- Serial port (COM):** A dropdown menu showing "COM3".
- Save & Exit:** A button located at the bottom center of the window.