

InRouter 600

APPLICATION GUIDE FOR DDNS USAGE

Version: V1.0 Date: 2019.03

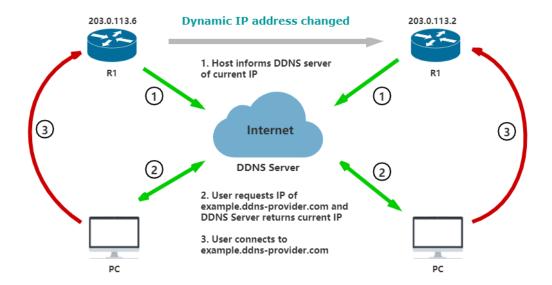
InHand Networks
Global Leader in Industrial IoT

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1. Abstract

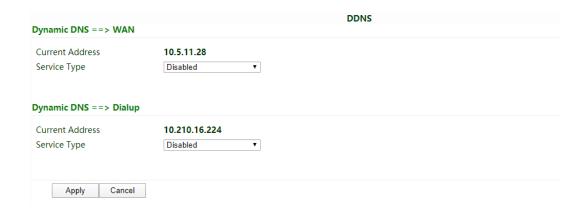
This application guide shows how to configure IR600 using DDNS.



As the above figure shows, the IP address of the router R1 is dynamic. When we want to access R1, we must know its current IP address. However, that is not realistic to get the IP address at any time and it is not easy to remember. DDNS can map the user's dynamic IP address to a fixed domain name resolution service. It catches every changed IP address of the user and makes a connection with its domain name. Therefore, other users can access R1 through the domain name.

2. Basic Configuration

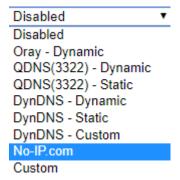
2.1 Click Network → DDNS



2.2 Choose the Interface, here we use WAN to do the test

There are two choices of the interface. You can use either only one or both.

2.3 Select Service Type



The default value is Disabled. Please choose your DDNS provider. Here **No-IP.com** is used for the test.

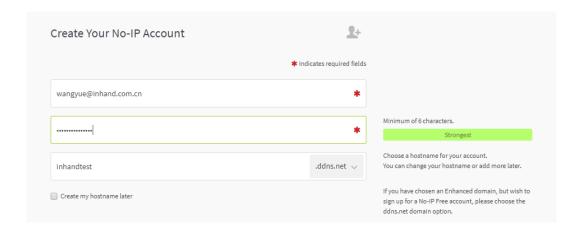
2.4 Click the corresponding URL



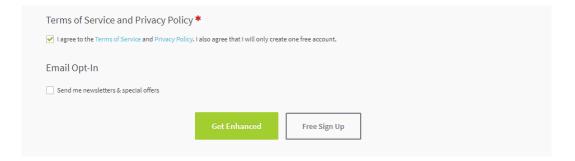
2.5 Name your DDNS, chose the DDNS type and click Sign up



2.6 Create your account



2.7 Click Free Sign Up



If you need more advanced functions, you can click Get Enhanced and pay for it.

Then the following webpage will show up.

Thank you for creating a No-IP free Dynamic DNS account!

In order to start using your account, you will need to activate your account via email. Simply click the link in the email to get started. Once you have activated your account, you will be able to add/edit hostnames and finish configuring your account.

2.8 Confirm your account

After signing up, you will receive an email.



Confirm Your No-IP Account

Thanks for creating a No-IP account. We are happy you found us. To confirm your account, please click the button below.

Confirm Account

Need help? Open a Support Ticket now.

Thank you for choosing No-IP! We hope that you enjoy our rock solid services that we have been offering since 1999 to millions of users.

Click Confirm Account. Then you will see the following webpage.

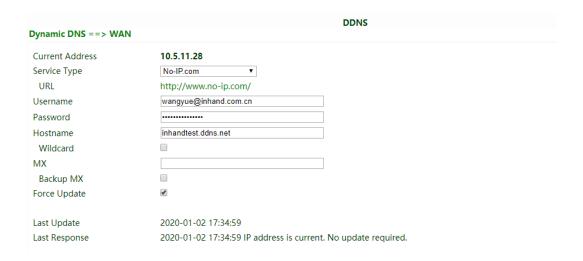


Your account is now active!

Find the services that best fit your needs and get started.

2.9 Fill in your DDNS information

Go back to the IR600 webpage. Fill in your account information and your Hostname.



2.10 Click Apply

3. DDNS + Port Mapping

Usually, routers have a firewall. The user from an external Internet can only access the router instead of the internal server. With the port mapping, the internal server can be accessed with a specific port and LAN address.

For example, we want to access to the device with LAN address: 192.168.2.62 and port 5040.

3.1 Click System → Admin Access

Please check if the Service Port here is same with the port you want to use.



As the figure shows, if you want to use port 80, please change this Service Port to other port. Then don't forget to click **Apply**.

3.2 Click Firewall → Port Mapping

Fill in the blocks as following figure shows and click Add



3.3 Click Apply

4. Test and Verify

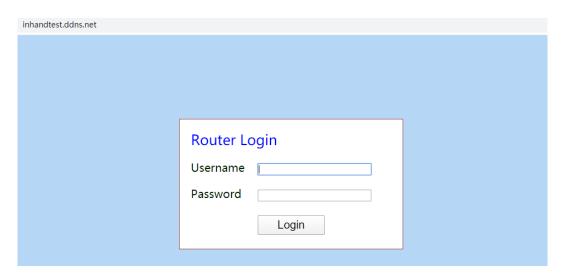
Press **Windows + R** to open **Run** box. Type **cmd** and then click **OK**. Then the **cmd** block will show up.

4.1 Test DDNS

Type command **nslookup** with your host name and press **Enter**. As the following figure shows, it accesses your own DDNS successfully.



And with your own DDNS, it can access to the router as well.



4.2 Test port mapping

Type command **telnet** with your LAN address and port, then press **Enter**. After a while, a blank cmd block will show up. Your LAN address will show on the top left of the block as well.



Tips: Sometimes the port you choose is not open. If the port test is not successful, please check if it is an open port first. Type **netstat -na** in the cmd block and press **Enter.** The **Local Address** shows IP address and the number of the open port.

C:\WINDOWS\system32>netstat -na						
Active Connections						
Proto TCP	Local Address 0. 0. 0. 0: 135 0. 0. 0. 0: 445 0. 0. 0. 0: 4301 0. 0. 0. 0: 5040 0. 0. 0. 0: 5357 0. 0. 0. 0: 49664 0. 0. 0. 0: 49665 0. 0. 0. 0: 49666 0. 0. 0. 0: 49667 0. 0. 0. 0: 49668 0. 0. 0. 0: 49670 0. 0. 0. 0: 52260 127. 0. 0. 1: 49875 192. 168. 2. 62: 139 192. 168. 2. 62: 5040	0. 0. 0. 0:0 192. 168. 2. 62:52833	State LISTENING			
TCP	192. 168. 2. 62:52793	120. 204. 17. 22:443	ESTABLISHED			
TCP	192. 168. 2. 62:52804	121. 51. 130. 102:443	ESTABLISHED			
TCP	192. 168. 2. 62:52807	40. 119. 211. 203:443	ESTABLISHED			
TCP	192. 168. 2. 62:52809	52. 242. 211. 89:443	ESTABLISHED			
TCP	192. 168. 2. 62:52814	183.220.151.35:443	ESTABLISHED			
TCP	192. 168. 2. 62:52821	121.51.166.110:993	ESTABLISHED			
TCP	192. 168. 2. 62:52822	121.51.166.110:993	ESTABLISHED			
TCP	192. 168. 2. 62:52822	121.51.166.110:993	ESTABLISHED			
TCP	192. 168. 2. 62:52833	192.168.2.62:5040	FIN_WAIT_2			
TCP	192. 168. 2. 62:52857	117.177.223.176:80	CLOSE_WAIT			

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InHand Website