

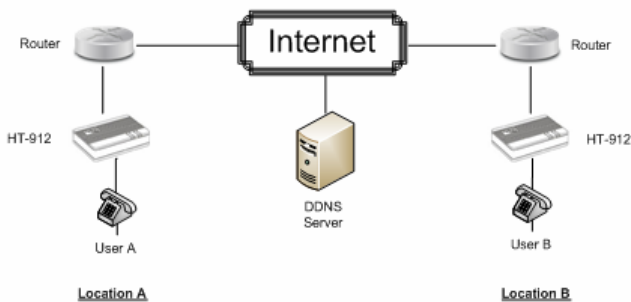
## DDNS Peer-to-Peer (P2P) Calling

DDNS P2P calling enables Peer-to-Peer calling for VoIP devices that are installed in a LAN environment. The following two key concepts are adopted.

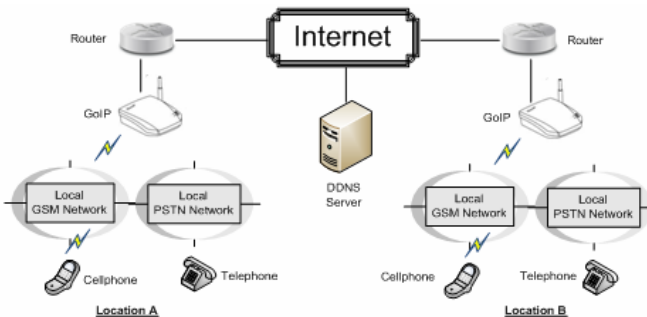
1. DDNS Server is used to resolve the public IP addresses which are required for VoIP calling. Each VoIP device is authorized to register to DBL's dedicated DDNS Server ([voipddns.net](http://voipddns.net)) without applying for a DDNS account.
2. A SIP Server is used to handle call setup. User can just dial the number assigned or just pick up the phone for autodial if hotline mode is enabled. To simplify the system requirement and configuration, a simple SIP server is embedded in DBL's VoIP Devices equipped with the DDNS P2P feature.

Any combinations of two VoIP devices with this DDNS P2P feature can be setup easily for Peer-to-Peer calling. Two typical examples are shown below.

1. Using two ATAs (Model: HT-912)



2. Using two GoIPs to connect the local calls between two locations.



### Device Configuration for DDNS P2P Calling

1. Choose two DBL's VoIP devices and assign one as the host and the other as the client.
2. Access the embedded webpage of the host device.
  - Configure the LAN port of the host device to static IP with sample settings shown below.

Network Configuration	
LAN Port	Static IP
IP Address	192.168.2.101
Subnet	255.255.255.0
Mask(optional)	
Default Route	192.168.2.1
Primary DNS	218.102.62.71
Secondary DNS(optional)	

Default Route = IP address of the network router  
Primary DNS = the Domain Name Server of your ISP

- Enable the DDNS Server in the Preference Page as shown below if the network router does not have a fixed public IP. The default settings should be used. With this option enabled, the device registers to the DDNS server with the domain name as [www.X.com](http://www.X.com) where X is the serial number of the device.

DDNS	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
DDNS Address	voipddns.net
DDNS Port	39800
Update Interval	600

- Configure the followings in the Call Settings Page.

Single Server Mode		Advanced Settings<<	
Phone Number	101	Signaling Port	5060
Phone Number 2		NAT Keep-alive	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Display Name		P2P	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SIP Proxy		Virtual Ringback	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SIP Registrar	192.168.2.101	Register Mode	Mode 1
Register Expiry(s)	60	Advanced Timing>>	

Phone Number = the host phone number (just assign one arbitrary)  
SIP Proxy = The LAN IP address of the host. The host device registers itself to its own SIP Server.

3. Configure the DMZ address of the network router to the IP address of the LAN port of the host device.
4. Access the embedded webpage of the client device.
  - Configure LAN IP as DHCP or Static IP.
  - Enable the DDNS Server as described above.
  - Configure the followings in the Call Settings Page.

Single Server Mode		Advanced Settings<<	
Phone Number	102	Signaling Port	5060
Phone Number 2		NAT Keep-alive	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Display Name	www.GOIP1M110301124	P2P	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SIP Proxy	www.GOIP1M110301124	Virtual Ringback	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SIP Registrar		Register Mode	Mode 1

Phone Number = the client phone number  
Display Name = Optional  
SIP Proxy = [www.X.com](http://www.X.com) (This is the domain name of the host.)

5. Make sure to save the webpage after configuration.