

Document #:	TB-VIP-020805	Date:	05 August 2002	
Publisher	Jimmy Lin / ENM Dept.	Dute.		
Subject:	Interworking DDNS service with PLANET VIP series			
Product:	VIP-000 / 200 / 400			
Requirement	<ol> <li>VIP-000 / 200 / 400 (firmware version must be 3.15 or above)</li> <li>VIP-200/400 MUST be version 2 in order to have PPPoE/DHCP/DDNS client function normally.</li> <li>A PC with terminal software (e.g. MS HyperTerminal) installed for command line interface operation</li> <li>An effective DDNS name has to be applied from related DDNS service provider. (Currently, DDNS service support in VIP series are www.dyndns.org and www.dtdns.com)</li> </ol>			
Interpretation	<ol> <li>DNS: DNS is short for Domain Name System (or Service), an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, it will be easier for people to remember names than IP addresses. The Internet however, is really based on IP address. Every time users type a domain name while surfing on the net, therefore, a DNS service is required to translate the name into corresponding IP address. For example, the domain name <u>www.planet.com.tw</u> may be translated to 203.70.249.1.</li> <li>DDNS (Dynamic DNS) : The Dynamic DNS service allows you to associate a dynamic IP address to a static hostname i.e. allowing your computer to be more easily accessed from various locations on the Internet. There are many dynamic DNS service providers offering this service for free to the Internet community.</li> </ol>			
Description	<ul> <li>Scenarios on this subject:</li> <li>1) VIP with built-in DDNS client</li> <li>2) VIP co-working with router built-in DDNS client</li> </ul>			
How To	<ul> <li>2) VIP co-working with router built-in DDNS client</li> <li>Attention!         <ul> <li>a) VIP-200/400 users: Before proceeding, please check the unit at hand is a version 2 machine. (This can be verified via checking "V.2" text on FCC label at the bottom of machine.)</li> <li>b) Before proceeding any further, an effective DDNS name has to be applied from related DDNS service provider.</li> </ul> </li> <li>Scenario I - VIP with built-in DDNS client:         <ul> <li>Please note that DDNS client in VIP series is not suggested working in NAT environment.</li> </ul> </li> <li>Network topology can be shown below:         <ul> <li>Network topology can be shown below:</li> </ul> </li> </ul>			







	<ol> <li>net set dyndns on: turn on the DDNS client</li> <li>net set dyndns off: turn off the DDNS client</li> <li>set dyndns add [serv_name] [host_name] [user_name] [password] add the DDNS name applied from DynDNS.org</li> <li>set dyndns delete [host_name]]all delete (all) DDNS name applied from www.DynDNS.org</li> <li>net show dyndns: display status of DDNS service</li> </ol>			
	Domain name server configuration			
	set h323 dns_ip [XXX.XXX.XXX.XXX] [DNS server name] setup DNS server in VIP. (DNS IP is a MUST-HAVE configuration.) Note:			
	please obtain DNS server from local ISP in order to have best efficiency for name resolution while making domain name calls. After adding the DNS server, please use "config store " to save settings, then reboot machine to make the settings effective. <u>Network Deployment</u>			
	DDNS service planetvip.dyndns.org (61.155.107.86) is applied by VIP-000 on site A, planetvip2.dyndns.org (216.94.170.66) is applied by VIP-000 on site B.			
	<b>Other parameters on this connection :</b> VIP-000 on site A has <b>PPPoE</b> , and <b>DDNS</b> clients enabled VIP-000 on site B has <b>DHCP</b> , and <b>DDNS</b> clients enabled.			
	VIP-000 configuration on site A :			
	PPPoE section :			
	net set pppoe onPlease fill in the username/passwordnet set pppoe user_name [my_name]Please fill in the username/passwordnet set pppoe pw [my_password]obtained from ISP.net resetobtained from ISP.			
	DNS server section			
	set h323 dns_ip [dns_ip] config activate config storeDNS server settings will not take effect till system reboot.			
	DDNS client section			
	set dyndns add dyndns planetvip planetvip planetvip 123 config activate config store			
	Dialplan settings			
	atpm req			
	atpm aadd 66 2 8 66 2			
	atpm hadd 66 2 66 atpm dadd 66 dns planetvip2.dyndns.org			
	atpm done			
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Please obtain DNS server from local ISP in order to have best efficiency for name resolution while making domain name calls. After adding the DNS server, please use "config store " to save settings, then reboot machine to make the settings effective.				
<ol> <li>set h323 nat_call on: to have packet correctly resolved in NAT environment, this option MUST be enabled.</li> </ol>				
Network Deployment				
DDNS service planetvip.dyndns.org (61.155.107.86) is applied by XRT-401B on site A, planetvip2.dyndns.org (216.94.170.66) is applied by XRT-401B on site B.				
Other parameters on this connection : VIP-000 on site A has DMZ, and nat_call enabled VIP-000 on site B has DMZ, and nat_call enabled.				
VIP-000 configuration on site A :				
IP configuration :				
net set ip 192.168.0.77 net set mask 255.255.255.0 net set gateway 192.168.0.254 net reset				
DNS server section				
set h323 dns_ip [dns_ip] config activate config storeDNS server settings will not take effect till system reboot.				
Dialplan settings				
atpm reqatpm aadd 66 2 8 66 2atpm hadd 66 2 66atpm dadd 66 dns planetvip2.dyndns.orgatpm doneatpm store				
VIP configuration on site B: DHCP section:				



	IP configuration : net set ip 192.168.0.88 net set mask 255.255.255.0 net set gateway 192.168.0.254 net reset	Please refer to your application environment to fill these parameters.	
	DNS server section		
	set h323 dns_ip [dns_ip] config activate config store	DNS server settings will not take effect till system reboot.	
	Dialplan section: atpm req atpm aadd 77 2 8 77 2 atpm hadd 77 2 77	Create an address entry for VIP on site A	
	atpm dadd 77 dns planetvip.dyndns atpm done atpm store	s.org	
	After these modifications, users on site A are able to dial "66 + telephone number" to connect users on site B to have voice conversation. Users on site B are able to have voice communication via dialing number "77 + telephone number" toward users on site A. (please note that there is a Max digits (8) limitation of dialstring in this case, users may modify this parameter to meet different needs.)		
	A key point in this NAT-to-NAT VoIP communication topology, <b>DMZ and DDNS</b> <b>functionality of the NAT routers have to function smoothly</b> , or the voice communication might have one-way communication, i.e. only WAN side voice can hear the voice from LAN side, but LAN side users cannot hear the voice from WAN side.		
More Information	<ol> <li>The latest User's Guide and release information: <u>ftp://ftp.planet.com.tw/VoIP/</u></li> <li>The latest firmware release: <u>ftp://ftp.planet.com.tw/VoIP/Firmware</u></li> </ol>		

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