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Advanced DMZ How To For BCM963xx DSL Linux

Version 1.0

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Advanced DMZ How To

REVISION HISTORY

<i>Revision Number</i>	<i>Date</i>	<i>Change Description</i>
V1.0	11/07/2006	Initial Release.

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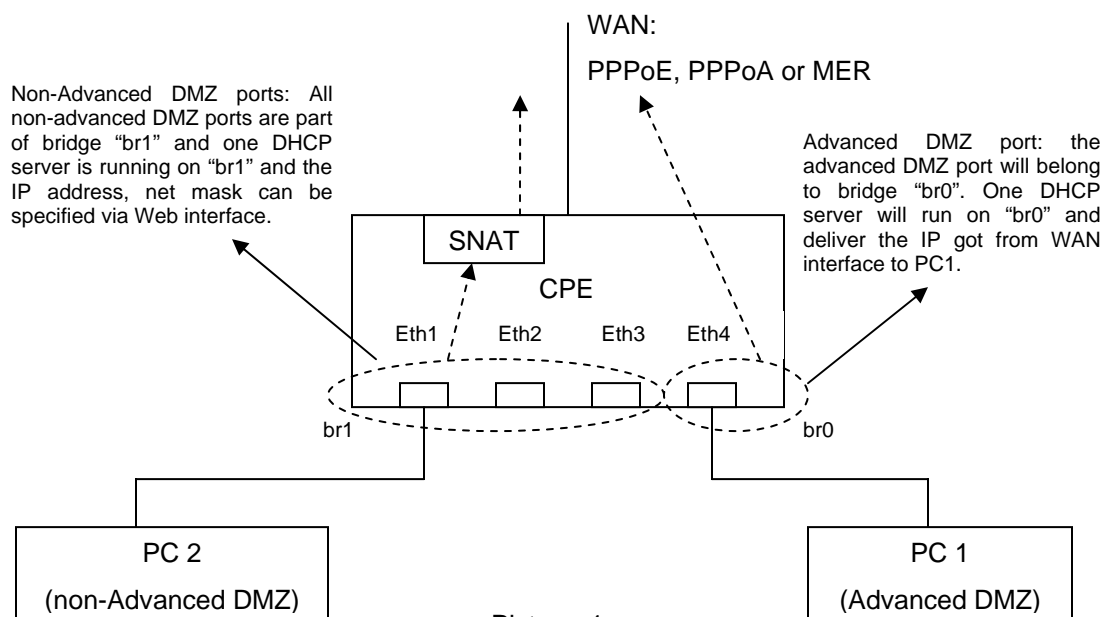
1.0 INTRODUCTION

This document serves as an application note on the details of the Advanced DMZ application that is supported in Linux releases of BCM963xx platforms. It is based on the PPP IP extension application implemented in all previous releases. When Advanced DMZ was enabled, the PC connected to Advanced DMZ host can direct access the Internet without NAT. And PCs connected to the rest of LAN ports (non-Advanced DMZ ports) can also access Internet via NAT.

2.0 ADVANCED DMZ

When CPE was in PPPoE, PPPoA or MER mode, advanced DMZ function will be available and configurable via Web interface. If the advanced DMZ was enabled, the port mapping function will be enabled automatically and divide the LAN ports into two groups (Please see picture 1). The first group (br0) will include the last port of Ethernet ports only. This group is only for advanced DMZ host. One DHCP server will run on this group and the IP pool will contain one IP that is got from WAN interface. When PC connected to this port, it will get that public IP and can access Internet without NAT. And any one in Internet can access the advanced DMZ host directly.

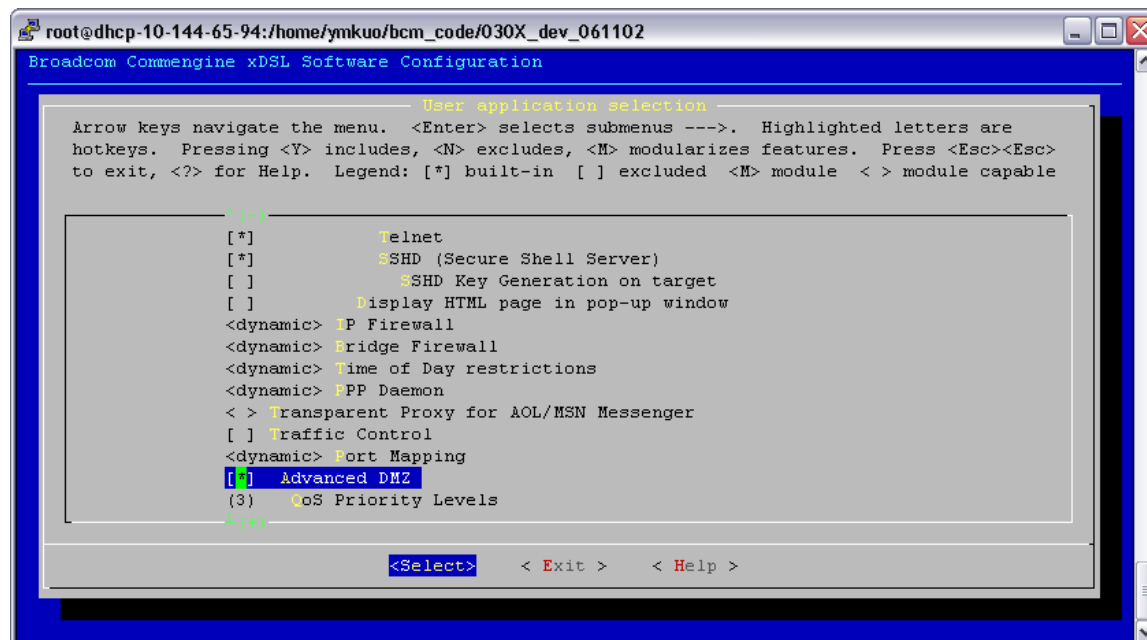
The second group (br1) will include the rest of LAN ports. This group is for non-advanced DMZ usage. There will be one DHCP server running on this group. The IP pool can be configured via Web interface. PC connected to non-advanced DMZ ports has to access Internet via NAT.



Picture: 1

3.0 USING ADVANCED DMZ

To enable “Advanced DMZ”, user has to use “make menuconfig” and check “Advanced DMZ” box under “User application selection” option (Please see picture 2) and rebuild the source code.

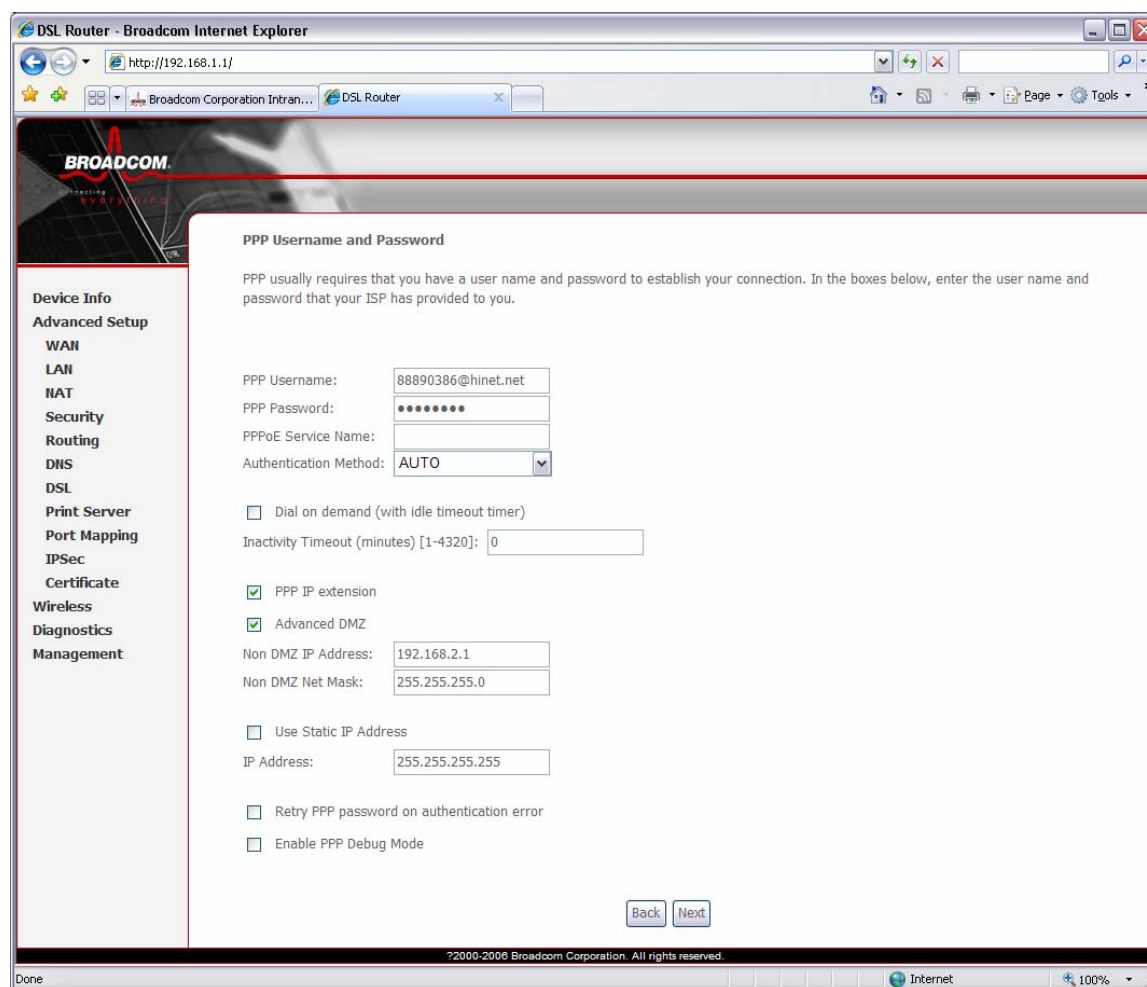


Picture: 2

In PPPoE or PPPoA mode, user can find advanced DMZ configuration page when creating or editing PPPoE/PPPoA mode PVC. Please see picture 3.

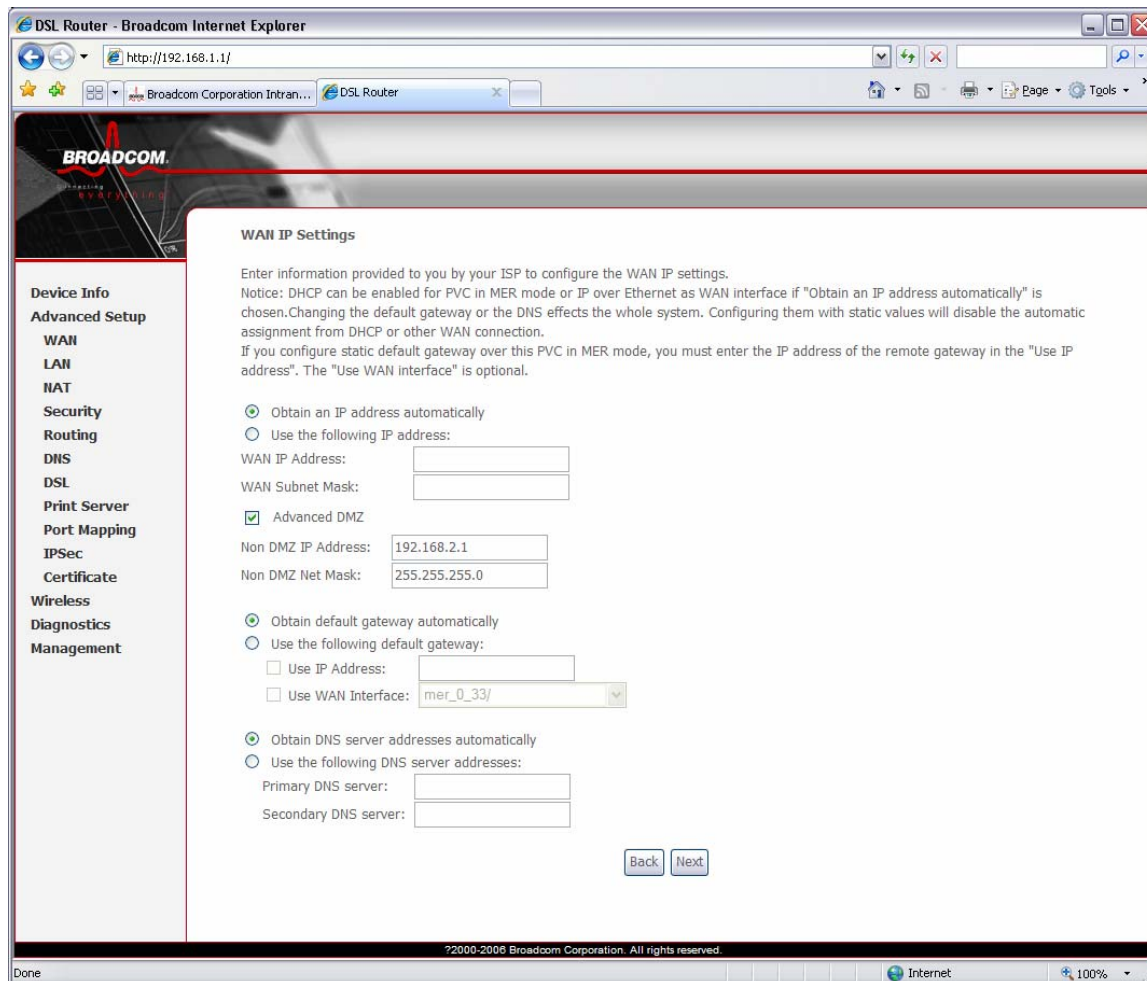
User has to check “PPP IP extension” first and check “Advanced DMZ”, specify the IP address and net mask of non-Advanced DMZ group.

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Picture: 3

In MER mode, user can find advanced DMZ configuration page when creating or editing MER mode PVC. User has to check “Advanced DMZ” and specify the IP address and net mask of non-Advanced DMZ group. Please see picture 4.



Picture: 4

4.0 CONCLUSION

With "Advanced DMZ" function, user can use "NAT" to share a public IP address got from PPP or DHCP client and assign this public IP to one PC(advanced DMZ host) in LAN side.

The advanced DMZ host can access or be accessed Internet directly. This means advanced DMZ host does not need any ALG if user not able to use an application that need new ALG supported.