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Multiple Subnet How To For BCM963xx DSL Linux

Version 1.0

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Multiple Subnet How To

REVISION HISTORY

<i>Revision Number</i>	<i>Date</i>	<i>Change Description</i>
V1.0	05/31/2007	Initial Release.

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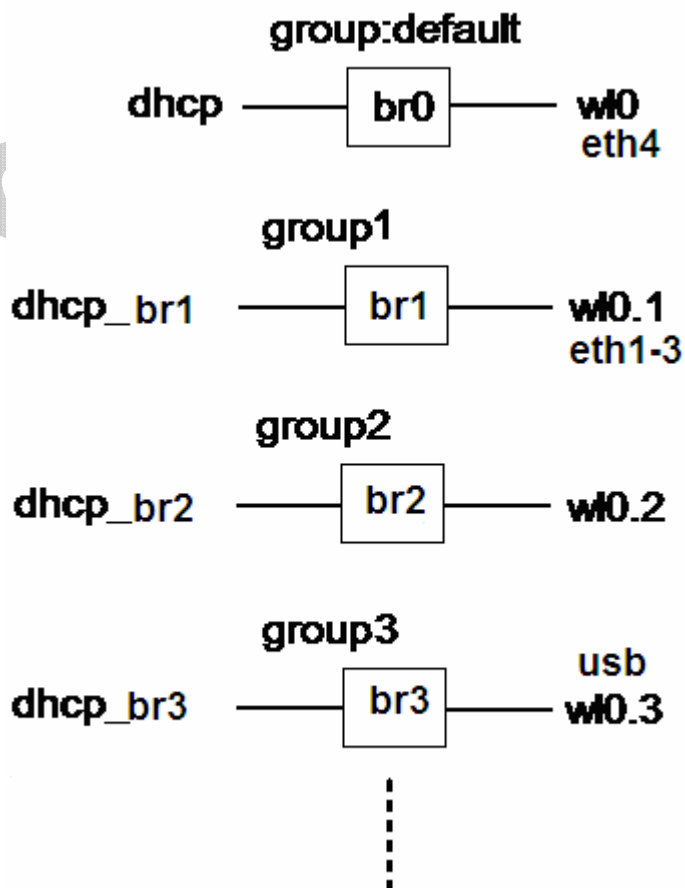
1.0 INTRODUCTION

This document serves as an application note on the details of the Multiple Subnet application that is supported in Linux releases of BCM963xx platforms.

2.0 MULTIPLE SUBNET

As shown below, DHCP server can be run on each logical bridge interface (i.e. br0, br1, br2,...) under which is a group of one or more physical interface (i.e. eth0, USB, Wireless guest, Wireless guest1,...).

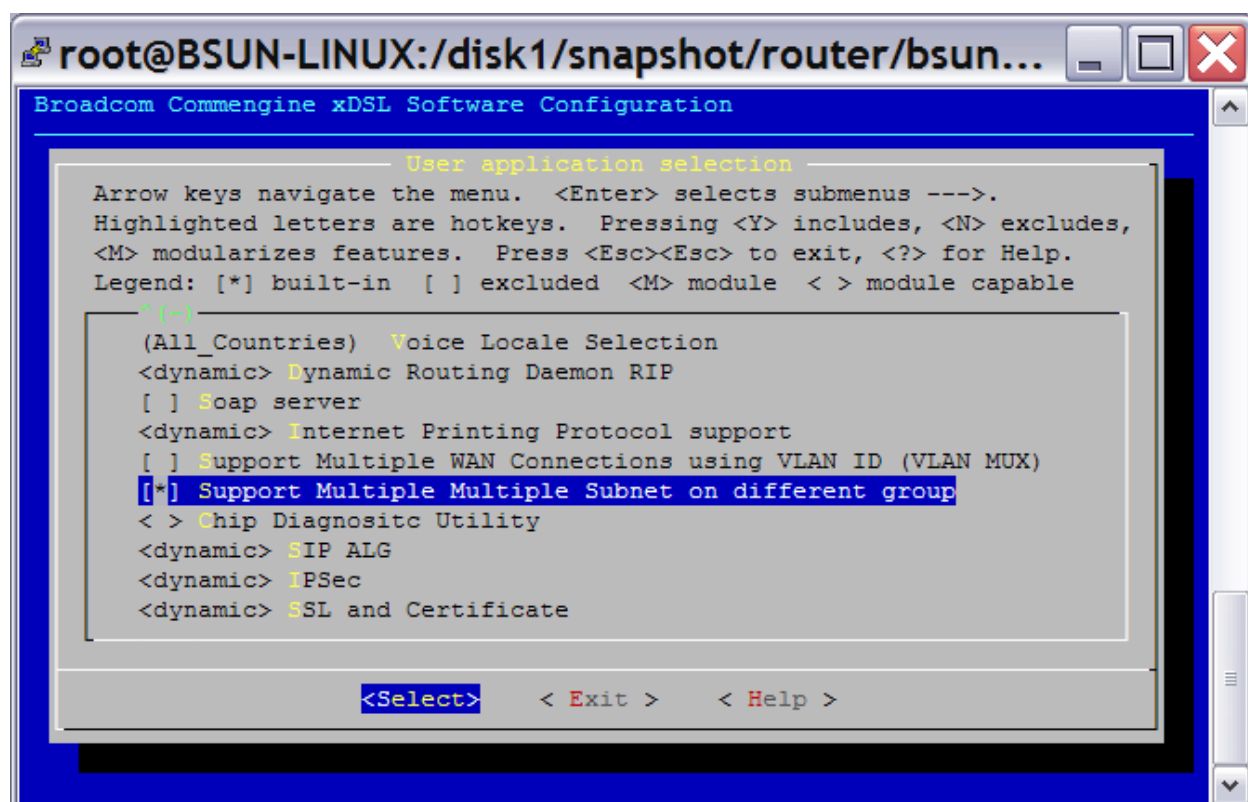
Each one has its own DHCP settings: IP address range, subnet mask, lease time.



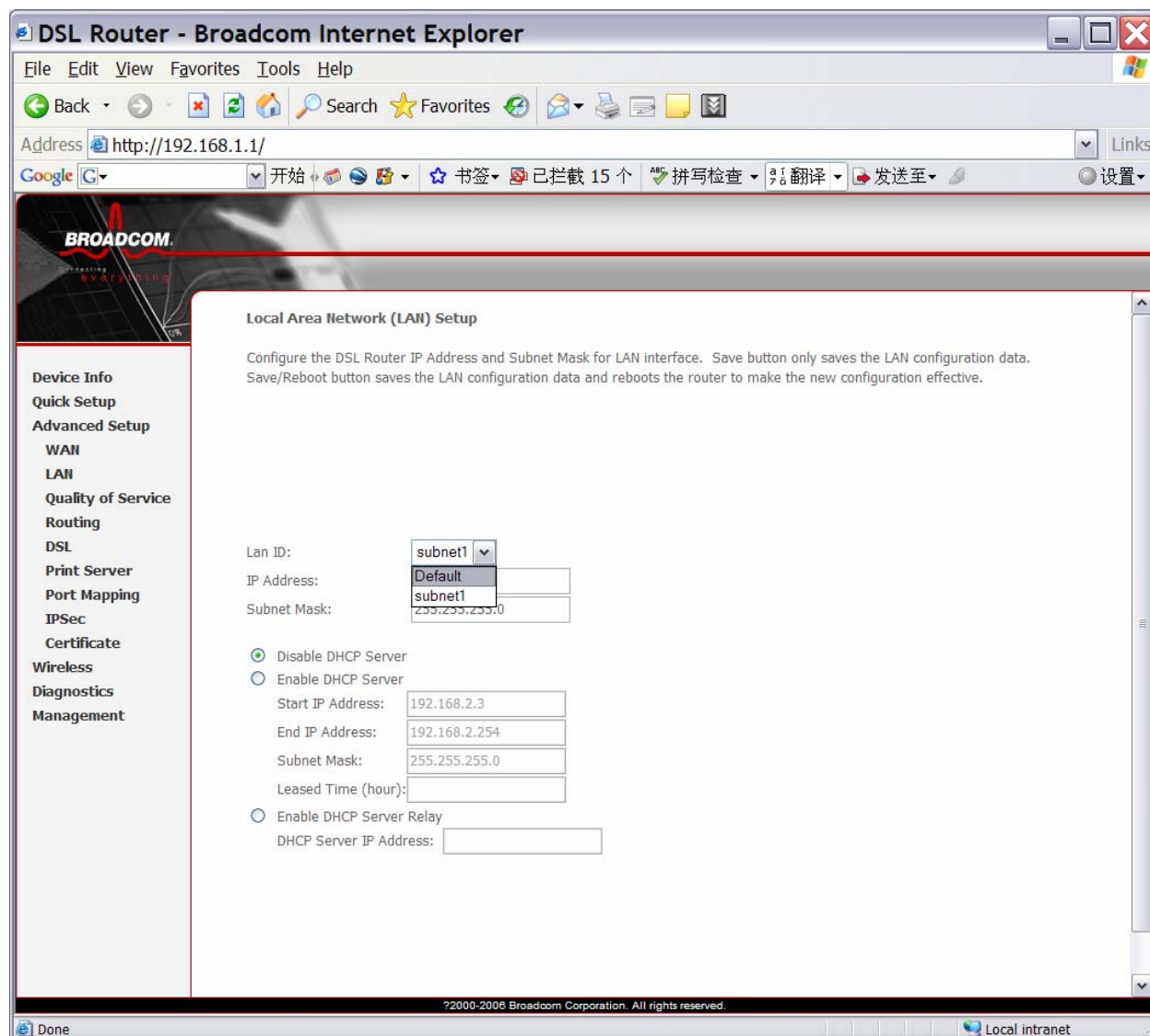
Note that DHCP server running on each group only makes sense if the group is pertaining to routed-traffic. When a connection is bridged, IP address is obtained from DHCP server at the remote BRAS.

3.0 USING MULTIPLE SUBNET

To enable "Multiple Subnet", user has to use "make menuconfig" and check "Support Multiple Subnet on different group" box under "User application selection" option (Please see picture blew) and rebuild the source code.



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In the lan configuration page, you can set the lan information for each group, which is created in the port mapping page.

4.0 CONCLUSION

With "Multiple Subnet" function, user can use has different dhcp server for different group.