DLNA Server User Guide

For BCM963xx DSL Linux

Version 1.3.1

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REVISION HISTORY

Revision Number	*Date*	*Change Description*
V1.0	01/11/2010	Initial Release.
V1.3.1	04/01/2011	Updated with DLNA DMS v1.3.1 release.

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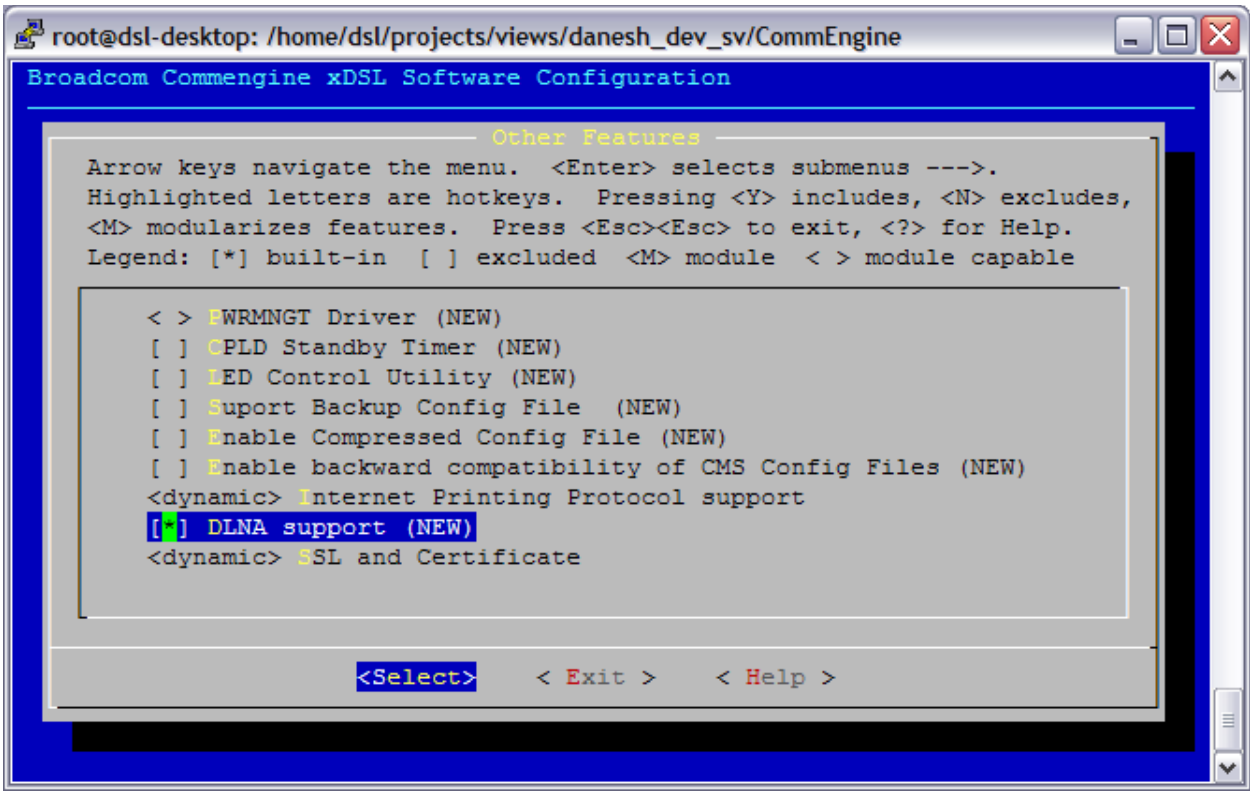
1.0 INTRODUCTION

This application note explains the steps needed to enable the DLNA Media Server function on Broadcom's DSL/GPON Router reference platforms. The digital media server streams media files (audio/video/images) stored on a USB attached drive to DLNA clients on the default LAN interface (BR0).

2.0 BUILDING ON-BOARD DLNA MEDIA SERVER

The on-board DLNA Media Server can be built by selecting "**Other Features → DLNA support**" in menuconfig



3.0 ENABLING ON-BOARD DLNA MEDIA SERVER FUNCTION

Following are the steps to enable the on-board DLNA Media Server.

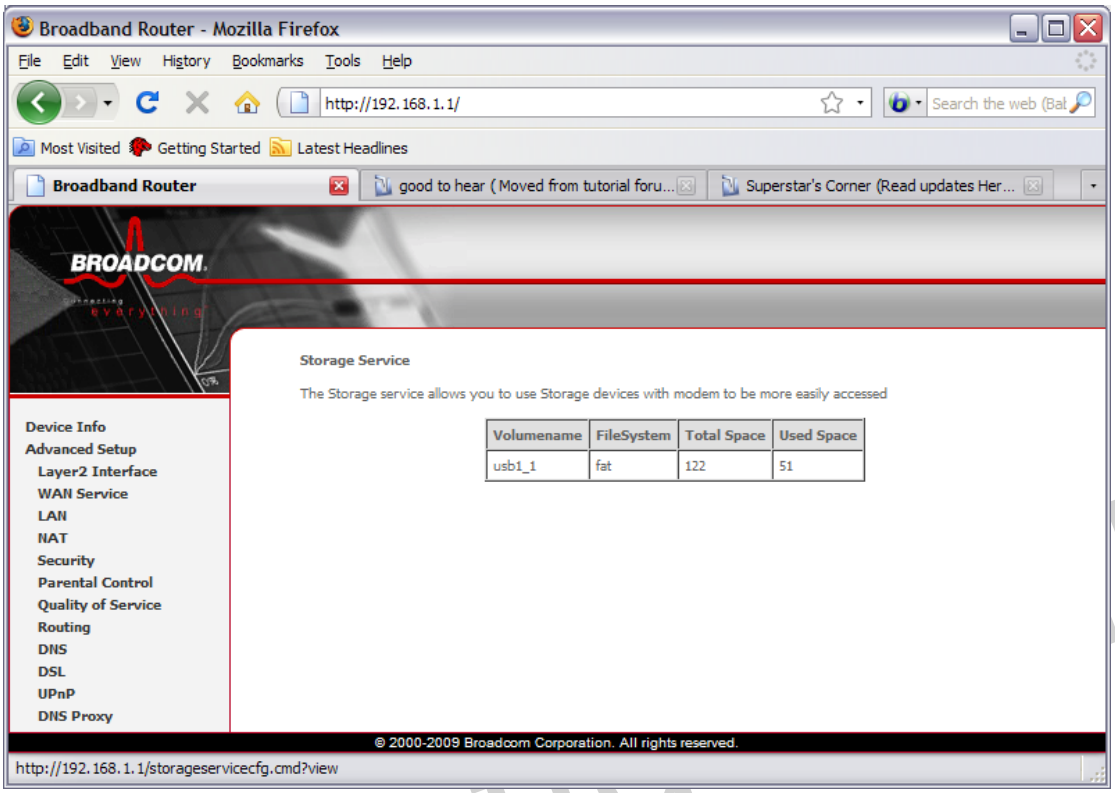
Step1: Attach USB drive to modem and mount file system

Connect the USB flash drive or USB hard drive to the modem's USB Host port.

The storage service running on the modem automatically detects and mounts the file system.

The driver's mount point can be viewed from the Modem's Web GUI.

Go to "**Advanced Setup** → **Storage Service**" and check the list of mounted volumes



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Step2: Enable DLNA Media Server from Modem Web GUI.

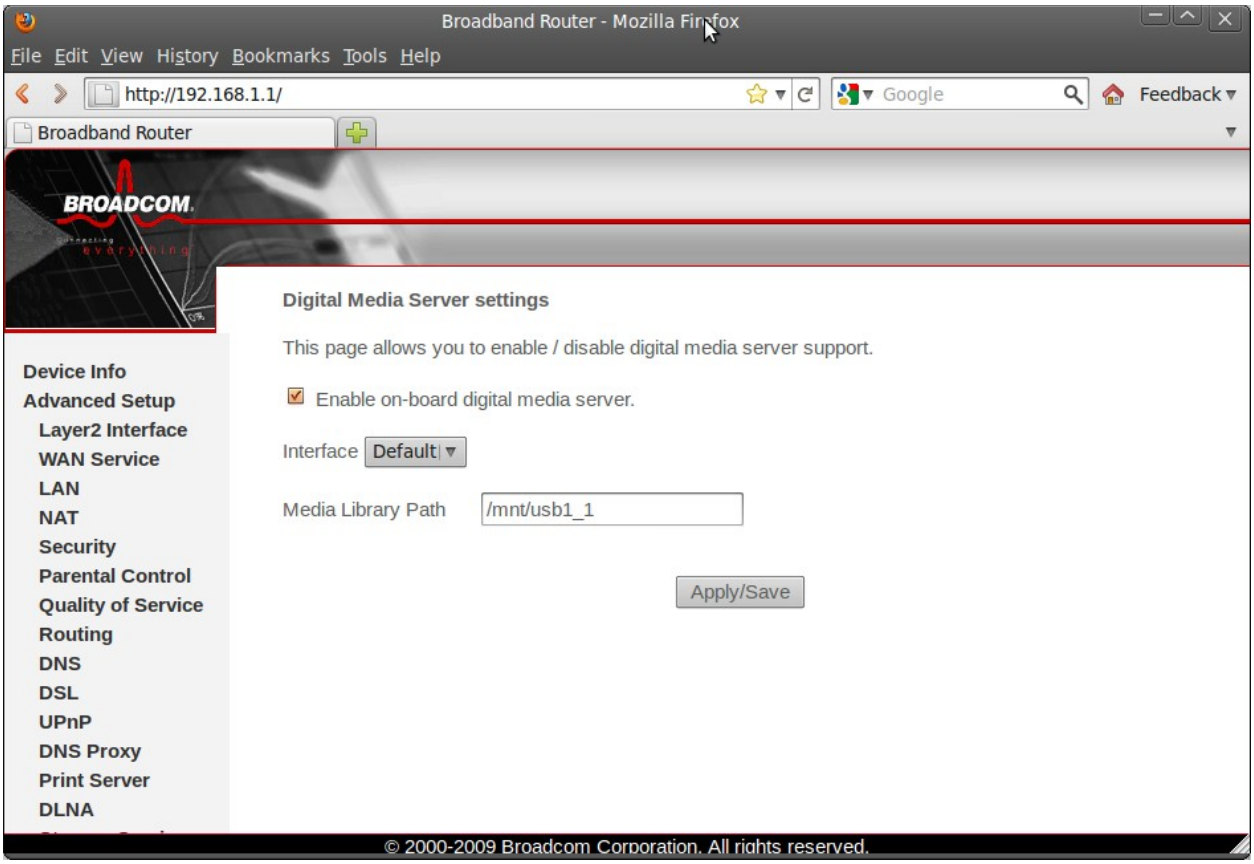
Go to "**Advanced Setup → DLNA**" and check "**Enable on-board digital media server**"

Select "**Interface"** if you have configured the Interface Grouping.

Enter the location of the media library in "**Media Library Path**"

Note:

The "Media Library Path" can be a text string up to 80 characters.



Click "**Save/Apply**". The DLNA Media Server then scans all media files located in "**Media Library Path**" and starts serving DLNA clients.

4.0 ADDITIONAL INFORMATION.

From DLNA DMS v1.3 above, the DLNA Media Server customization is possible by modifying the *userspace/private/libs/cms_core/linux/rcl_dlna.c:: rcl_dmsCfgObject()*. It supports the following parameters:

- uuid is the device unique GUID for the DMS
- friendlyName is the short description for end user. Should be localized and < 64 characters.
- manufacturer is the manufacturer's name. May be localized. Should be < 64 characters.
- manufacturerUrl is the web site for Manufacturer. May be localized. May be relative to base URL.
- modelDescription is the long description for end user. Should be localized and < 128 characters.
- modelName is the model name. May be localized. Should be < 32 characters.
- modelNumber is the model number. May be localized. Should be < 32 characters.
- modelUrl is the web site for model. May be localized. May be relative to base URL.
- serialNumber is the serial number. May be localized. Should be < 64 characters.
- upc is the Universal Product Code. 12-digit, all-numeric code
- presentationUrl is the URL to presentation for device. May be relative to base URL.

With DLNA DMS v1.3.1, rescan the Media Library is included by sending SIGUSR1 manually. e.g. "***kill -SIGUSR1 bcmmserver_pid***".

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