

## Re: Prism2 firmware upload support.

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2003-06/0120.html>

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**From:** M. Warner Losh (*imp\_at\_bsdimp.com*)

**Date:** 06/06/03

Date: Fri, 06 Jun 2003 10:18:13 -0600 (MDT)

To: dirkx@webweaving.org

In message: <20030606123639.L801-100000@foem>

Dirk-Willem van Gulik <dirkx@webweaving.org> writes:

: Has anyone looked at the existing symbol firmware loading code in freebsd  
: 5.x and looked at generalizing this with some ioctl()'s for  
: upload/download of firmware (and propably an extra SIOCGPRISM2INFO to give  
: userland enough of an idea of the primary/secondary version numbers to be  
: able to select/check the hex files) ?

I've looked into it. Primary/secondary versions aren't as interesting  
as the actual product ID for determining which hex file to load.

There's also a need for getting additional data out of the current  
firmware so it can be merged into the hex file before we burn the new  
firmware. There's also a number of sanity checks that need to be made  
to make sure that primary firmware is compatible with the secondary  
firmware you are loading, etc.

: I've started coding some of this into the wi driver - but one thing which  
: worries me is how to properly activate it; i.e. how does one from an ioctl  
: a clean detach/probe sort of thing ? I take it that one cannot call  
: wi\_generic\_detach(), wi\_generic\_attach() from inside the ioctl handler ?

I don't think you need to call attach/detach. I think its overkill  
and completely unnecessary. There's really no need at all to do this.  
You should take the interface down, note you are updating the firmware  
to preclude it coming back up, do the firmware upload, and then call  
wi\_init again. It may make sense to set certain flags based on the  
new version, but I don't think much else is required.

Warner

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