

sysfs-class-uwbrc.txt

What: /sys/class/uwb\_rc  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description: Interfaces for WiMedia Ultra Wideband Common Radio Platform (UWB) radio controllers.

Familiarity with the ECMA-368 'High Rate Ultra Wideband MAC and PHY Specification' is assumed.

What: /sys/class/uwb\_rc/beacon\_timeout\_ms  
Date: July 2008  
KernelVersion: 2.6.27  
Description:

If no beacons are received from a device for at least this time, the device will be considered to have gone and it will be removed. The default is 3 superframes (~197 ms) as required by the specification.

What: /sys/class/uwb\_rc/uwbN/  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

An individual UWB radio controller.

What: /sys/class/uwb\_rc/uwbN/beacon  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

Write:

<channel>

to force a specific channel to be used when beaconing, or, if <channel> is -1, to prohibit beaconing. If <channel> is 0, then the default channel selection algorithm will be used. Valid channels depends on the radio controller's supported band groups.

Reading returns the currently active channel, or -1 if the radio controller is not beaconing.

What: /sys/class/uwb\_rc/uwbN/scan  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

Write:

<channel> <type> [<bpst offset>]

to start (or stop) scanning on a channel. <type> is one of:  
0 - scan

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- 1 - scan outside BP
- 2 - scan while inactive
- 3 - scanning disabled
- 4 - scan (with start time of <bpst offset>)

What: /sys/class/usb\_rc/usbN/mac\_address  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description: The EUI-48, in colon-separated hex octets, for this radio controller. A write will change the radio controller's EUI-48 but only do so while the device is not beaconing or scanning.

What: /sys/class/usb\_rc/usbN/wusbhc  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description: A symlink to the device (if any) of the WUSB Host Controller PAL using this radio controller.

What: /sys/class/usb\_rc/usbN/<EUI-48>/  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description: A neighbour UWB device that has either been detected as part of a scan or is a member of the radio controllers beacon group.

What: /sys/class/usb\_rc/usbN/<EUI-48>/BPST  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description: The time (using the radio controllers internal 1 ms interval superframe timer) of the last beacon from this device was received.

What: /sys/class/usb\_rc/usbN/<EUI-48>/DevAddr  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description: The current DevAddr of this device in colon separated hex octets.

What: /sys/class/usb\_rc/usbN/<EUI-48>/EUI\_48  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

The EUI-48 of this device in colon separated hex

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octets.

What: /sys/class/usb\_rc/usbN/<EUI-48>/BPST  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

What: /sys/class/usb\_rc/usbN/<EUI-48>/IEs  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

The latest IEs included in this device's beacon, in space separated hex octets with one IE per line.

What: /sys/class/usb\_rc/usbN/<EUI-48>/LQE  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

Link Quality Estimate - the Signal to Noise Ratio (SNR) of all packets received from this device in dB. This gives an estimate on a suitable PHY rate. Refer to [ECMA-368] section 13.3 for more details.

What: /sys/class/usb\_rc/usbN/<EUI-48>/RSSI  
Date: July 2008  
KernelVersion: 2.6.27  
Contact: linux-usb@vger.kernel.org  
Description:

Received Signal Strength Indication - the strength of the received signal in dB. LQE is a more useful measure of the radio link quality.