nexmon

Enalbe monitor mode for the Nexus 5

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32c3

Please don't sue us!



Monitor what?

We need: 802.11 **Management**, **Control** and Data frames

Promisc Mode: get all frames on the ether, not only the ones intended for us

Why monitor mode on nexmon mobile phones?

Move from this ...



Source: icanhas.cheezburger.com

... to that



Related Work

BCMON: bcm4329 + bcm4330

monmob: bcm4325 + bcm4329

nexmon: bcm4339

DIY: 384 easy steps to enable monitor mode

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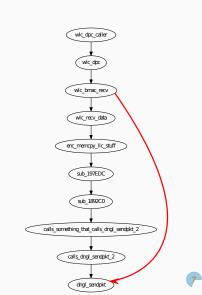
1. Extract ROM + RAM

ROM RAM



DIY: 384 easy steps to enable monitor mode

2. Find the RX path



DIY: 384 easy steps to enable monitor mode

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3. Patch necessary parts:

MAC control flags: wlc_coreinit()

Frame handler: wlc_bmac_recv()







TX path: injection support

Code + Android boot ROM:

https://dev.seemoo.tu-darmstadt.de/bcm/bcm-public

Technical Report: <arxiv.org link goes here>

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