NI software defined radio (SDR) hardware for IEEE 802.11-based Research

At TKN we deployed a small testbed consisting of 2x NI-SDR (NIUSRP2953, 2x2 MIMO) devices which are used for 802.11-based research. The LabVIEW Communications 802.11 Application Framework provides a modifiable real-time physical layer (PHY) and lower medium access control (MAC)-layer reference design based on the 802.11 wireless standard.

Figure 1. Programming the SDR platform using LabVIEW Communications 802.11 Application Framework (figure copyright National Instruments)

Figure 2. The SDR hardware (NI USRP2953).
**Links:**

NIUSRP2953 SDR:
- [http://www.ni.com/de-de/support/model.usrp-2953.html](http://www.ni.com/de-de/support/model.usrp-2953.html)

LabVIEW Communications 802.11 Application Framework: