

Wi-Fi P2P made usable

How providing Wi-Fi P2P connectivity in a simple manner has been solved through ConnMan

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P2P :

- create local wifi network without the need of a dedicated AP
- share services (WFD, UPnP, Bonjour)
- credentials are set through WPS

However :

- has a complicated way of creating the network (group handling)
- works on IPv4 only
- specs allows a bit too much (legacy sta support ...)
- weird device type advertisement policy
- complex scanning requests

ConnMan simplifies by hiding all the group related informations and logic

- provides Peer list
- each Peer provides a Peer Service list (if any)
- provides methods to connect/disconnect a Peer
- provides methods to register/unregister local Peer Service
- provides ui-centric mechanism to handle incoming/outgoing connection

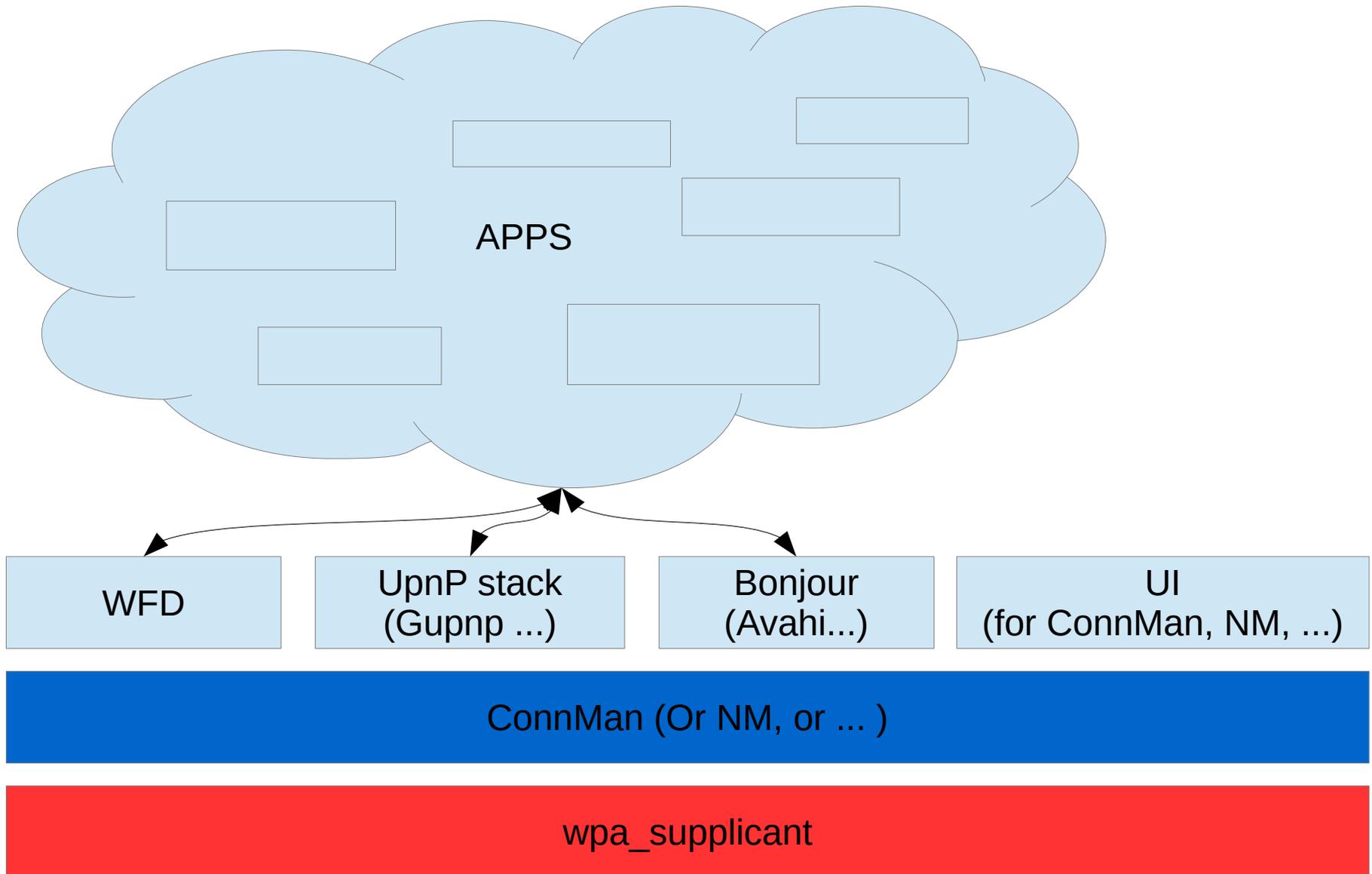
Current support :

- scans for all P2P Peers and their services
- One on one context only
- temporary groups for now
- WPS PBC is enforced on incoming connection
- The API is still marked as experimental

Next :

- persistent group handling
- complex context

Ideally :



Already upstream :

`git://git.kernel.org/pub/scm/network/connman/connman.git`

API is documented in `doc/peer-api.txt` and `doc/manager-api.txt`