Home Gateway
Wi-Fi services
HGI symposium, Venice

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Easy pairing

or NFC to the rescue

Note: there are alternatives, e.g. WPS button, QR code… (Out of scope)
Near Field Communication aka NFC

Payment, transport, pairing...

**Tag**: can expose data

**Reader**: can read & write data

Note: NFC-capable smartphones have readers

has specified the use of NFC as an out-of-band channel for Wi-Fi Simple Configuration
Scenarios

The gateway hosts a tag

- Any device equipped with a reader can pair
- The tag should be connected to the processor so that credentials can be updated (otherwise it would need to be done via a reader, e.g. a smartphone with the right app)

The gateway hosts a reader

- Any device hosting a simple tag (e.g. IoT device) can pair
- Most expensive

The gw hosts a tag and the smartphone mediates

- Addresses e.g. simple IoT devices, or big devices (printer etc...)
- Same requirements for the gw as in scenario #1
Guest access

I want my friends who come home to have internet access
I want to keep my privacy
Guest access

create a new SSID & password, which provides Internet access, only

my home LAN remains invisible to my guests
Hotspot

The operator want customers to have internet access keeping privacy for the primary user of the gateway

Well-known SSID, which provides internet-access, only
Hotspot authentication
Two modes of operation

low-security: using id/password from a login web page

high-security: using credentials from e.g. a SIM card, automatic connection by IEEE 802.1X/EAP
For details

HGI has published RD057

Wi-Fi requirements for home gateway
NFC Pairing, Guest Access, Hotspot
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Thank you