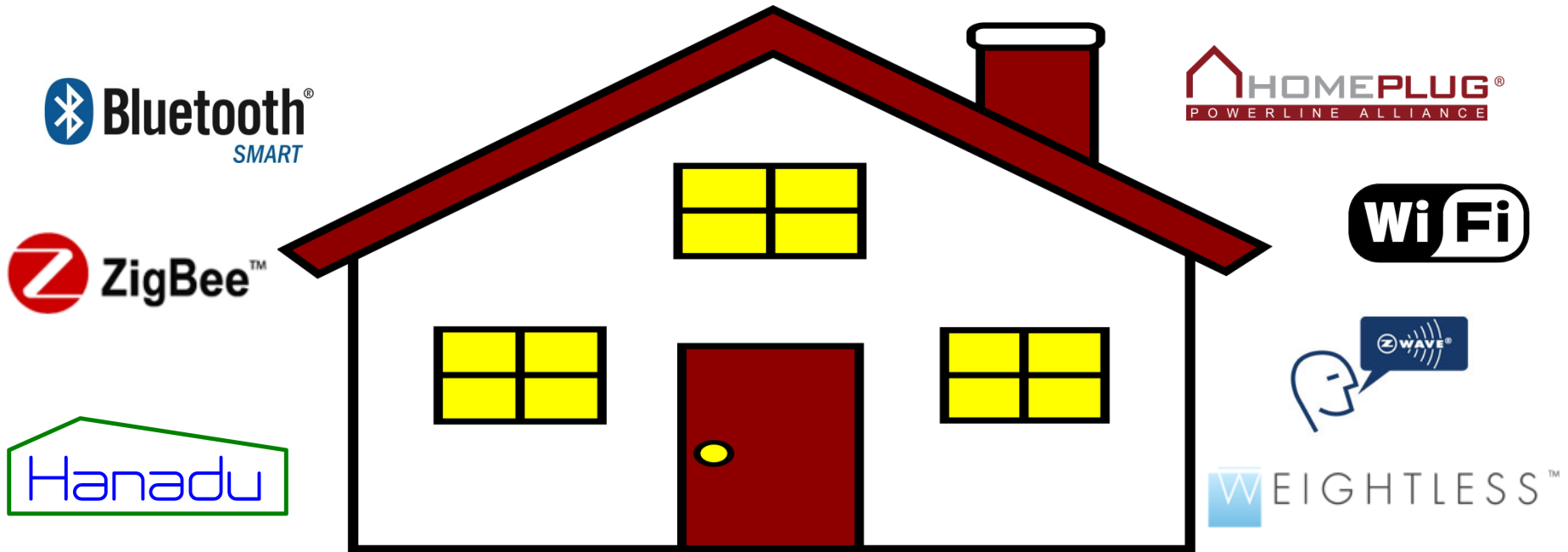


- ▶ Connectivity in the smart home will be multifarious but invisible: whether it be Hanadu, ZigBee, Weightless, Z-Wave or GreenPHY it will work seamlessly and everywhere.
- ▶ The householder will get all the functionality they need, irrespective of which connection method they are using.
- ▶ Technology companies need to make sure that it will just work.
- ▶ It shouldn't require dark magic.

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One (Internet of) Everything to find them all

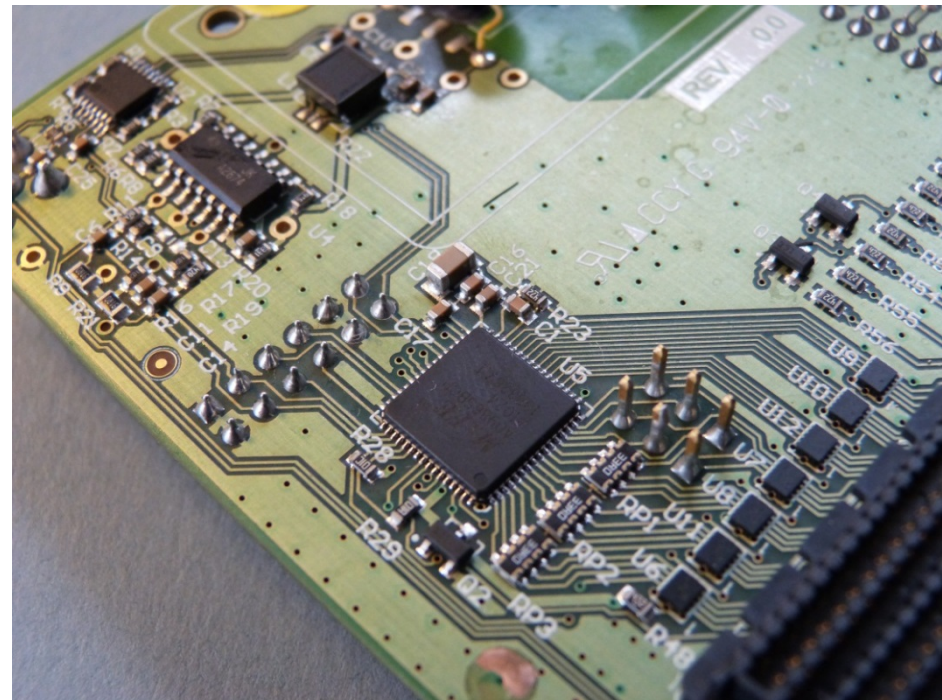


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*One (Internet of) Everything to find them all
and in the Smart Home bind them*



- ▶ Greenfield approach – No legacy obligations – Designed for In-Home M2M
- ▶ Powerline addition to IEEE 802.15.4 specification (at 250 kbps)
- ▶ Proprietary open specification (like ZigBee, Bluetooth, Weightless, etc.)
- ▶ Full co-existence with all home networking solutions
- ▶ Supports ZigBee profiles
- ▶ Meshes with ZigBee endpoints
- ▶ Native IPv6/6LoWPAN support
- ▶ Small & Cool:
 - ▶ *Ultra-small physical form factor*
 - ▶ *Sub-500mW power usage, inc PSU*
→ Fits inside a mains plug: retrofittable
- ▶ EMC “good citizen”: unique for PLC
- ▶ Hanadu SIG → Standardisation



Internet of Everything = Internet of Things
+
M2M

Based on
Web & API
apps

Internet of Everything = Internet of Things
+
M2M

Connectivity
focussed
devices

M2M = Wide-Area M2M
+
Local-Area M2M



GPRS
Weightless
LTE

M2M = Wide-Area M2M
+
Local-Area M2M

Local-Area M2M =

Local-Area M2M =

- Energy-Smart Homes
- Assisted living
- E-Health
- Building automation (21st century)
- Smart appliances

Maths of the Internet of Everything



Local-Area M2M =

- Energy-Smart Homes
- Assisted living
- E-Health
- Building automation (21st century)
- Smart appliances

▶ Typically internet-connected



▶ Not all are native IP



▶ Few are native IPv6



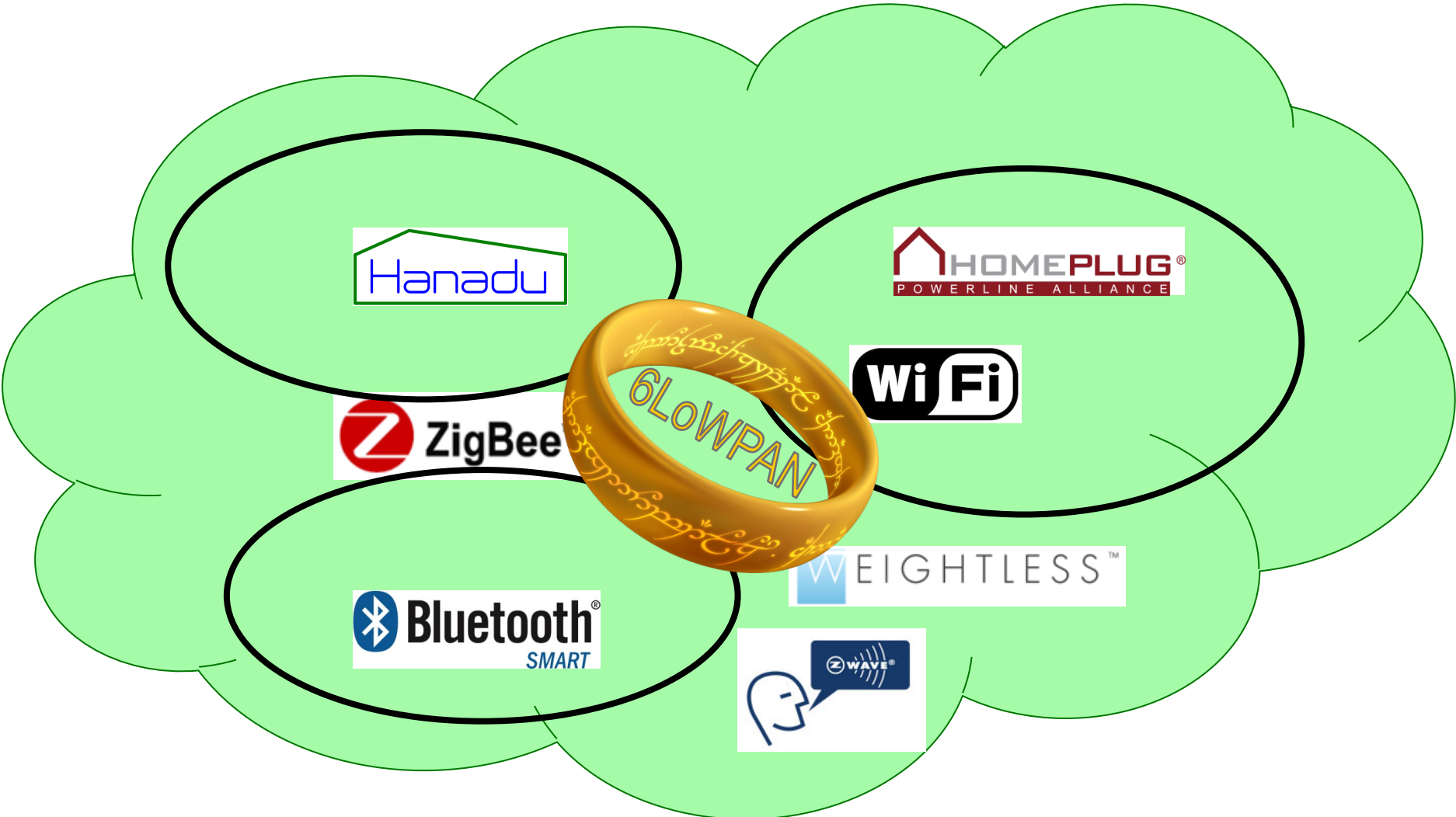
▶ Radio technologies: difficult to deploy into the average home

▶ Multiple applications often require multiple networks

The Cloud Within The Home



“And In The Smart Home Bind Them” Xsilon



Hanadu Interworking Capabilities

Xsilon



Hanadu Interworking Capabilities



- ▶ Comprehensive interworking capabilities based on common network components: 802.15.4 and IPv6



SMART

6LoWPAN
interworking

ZigBee meshing
ZigBee profiles



6LoWPAN

HAN2WAN
IPv6 bridging



Thank You



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