

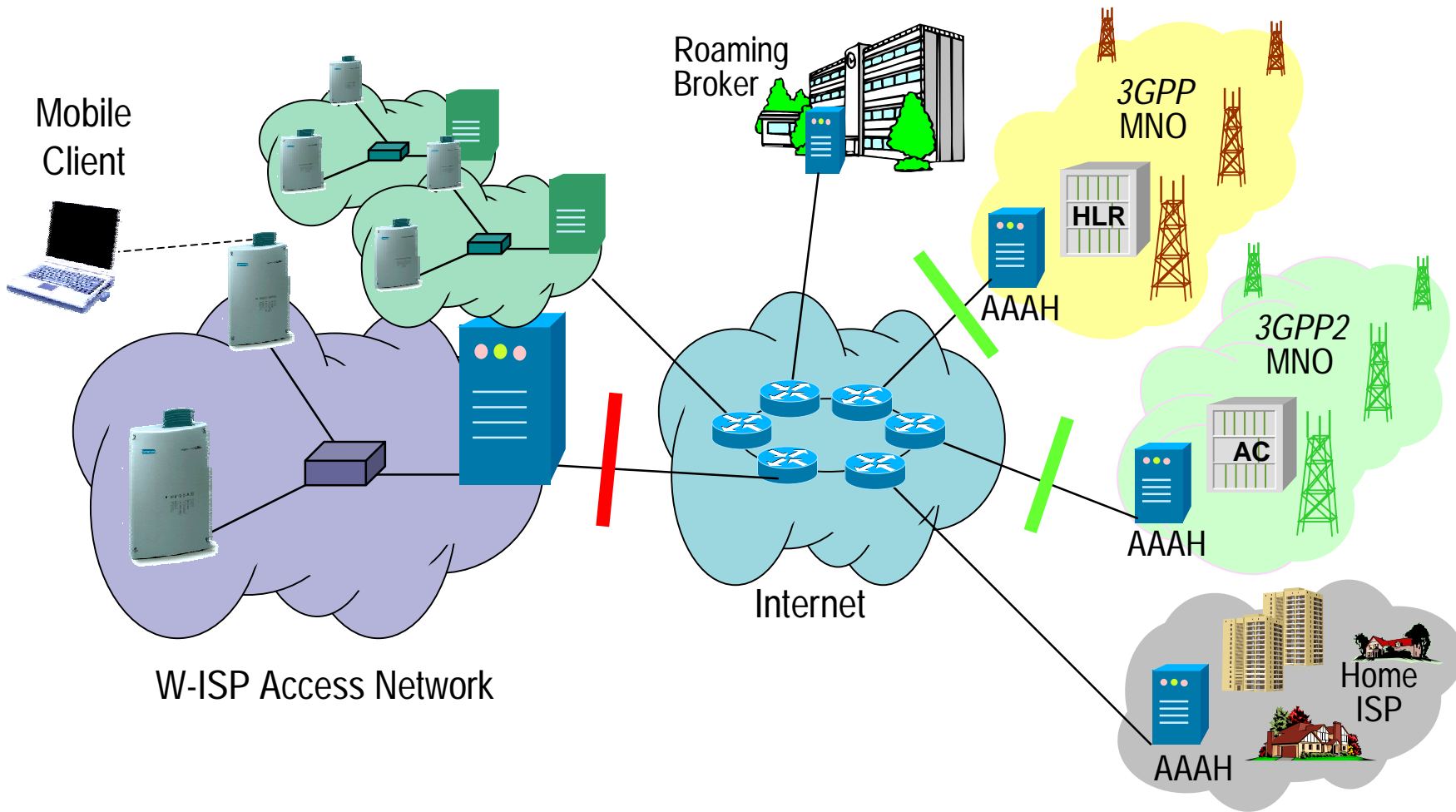
# Loose Coupling Interworking Issues

(update from a WLAN standards view point)

**3GPP SA3 — 3GPP2 WG4**  
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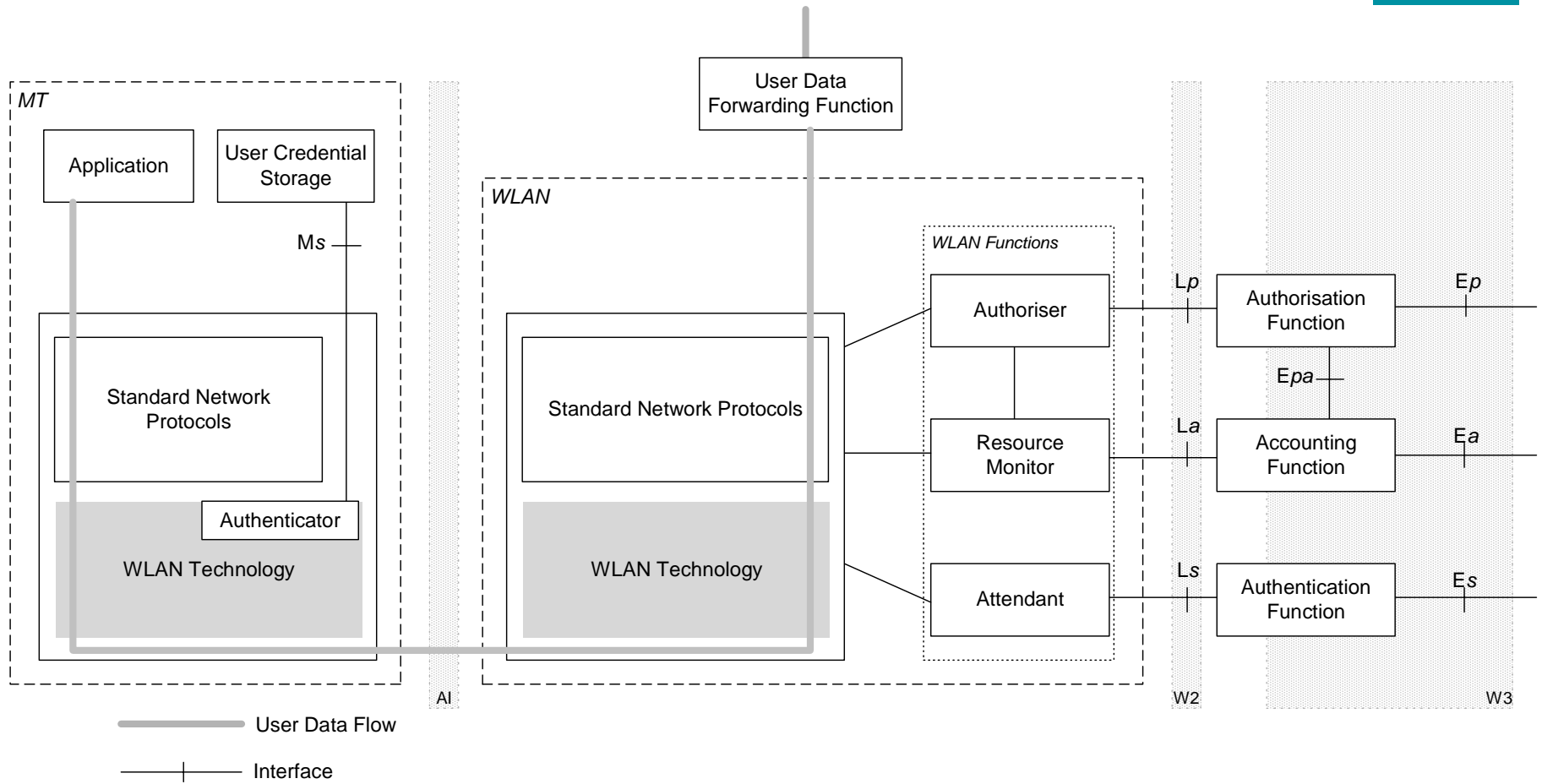
# Wireless Interworking



# WLAN Interworking : Why ?

- Like to use WLAN everywhere
- Lot of interest here (Ok, me at least)
- What do WLAN standardisation bodies need to do ?
  - **Define technical requirements for roaming (started in ETSI BRAN & MMAC HSWA)**
  - **What additions are required to the base WLAN technology standards to meet W-ISP & Cellular requirements (e.g. WiFi Alliance, 3GPP and 3GPP2)**
  - **3GPP SA2 have now placed some requirements on the WLAN Black Box and sent liaisons to ETSI BRAN and IEEE 802.11**
  - **Within IEEE 802.11, look at current 802.11 functions/interfaces within each of the separate groups**
  - **Start to write a draft RP (Recommended Practice) of how to interwork IEEE 802.11 equipment with external IP and Cellular networks.**

# WLAN Generic Architecture

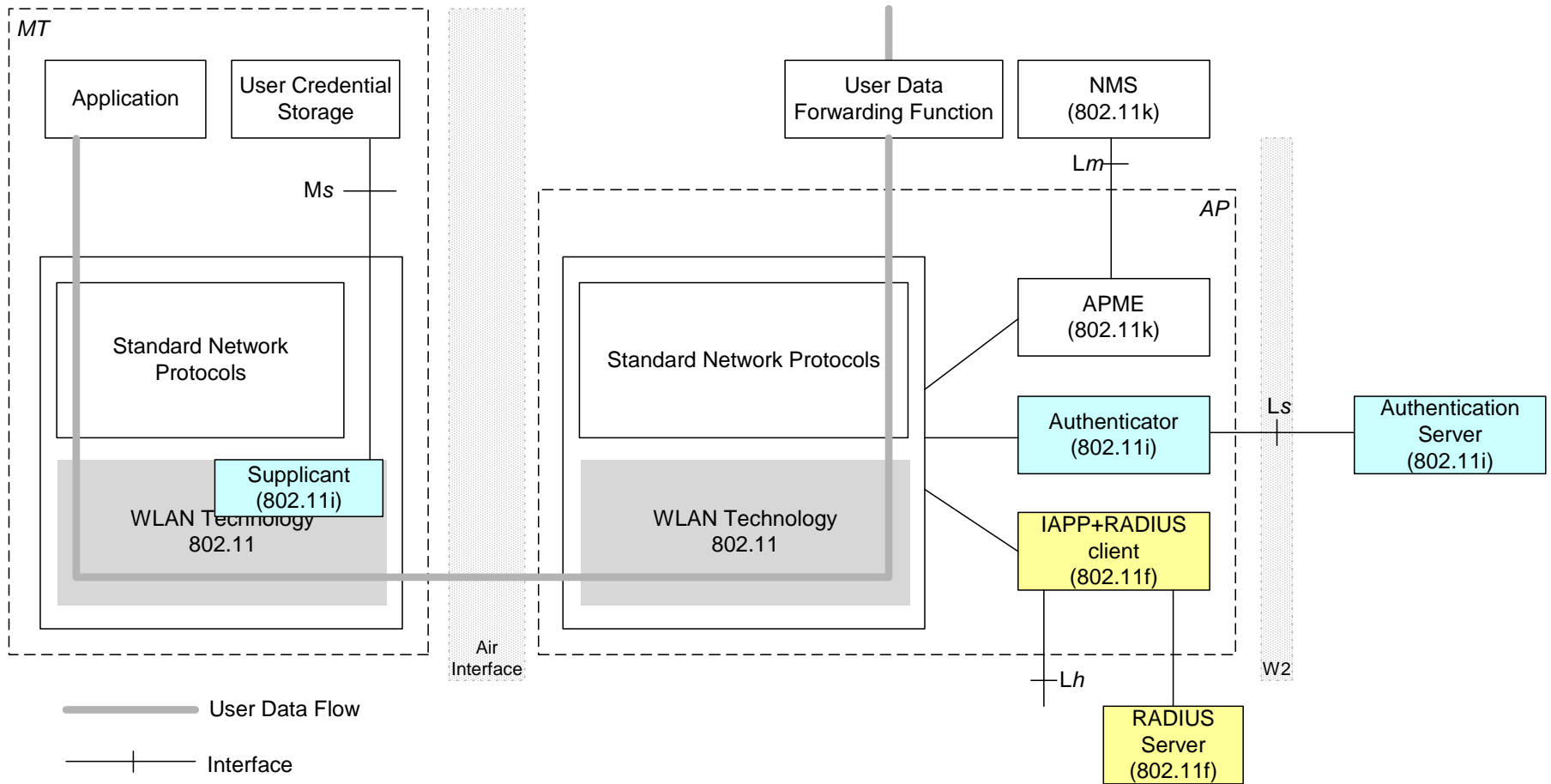


# WLAN Way forward ?

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- WLAN technology standards require stable definition of the W2 interface for AAA functionality
- W2 is the generic name for all interworking interfaces between the WLAN and these interworking functions.
- L interfaces define functional reference points across W2 for the control plane.
- Must address WiFi Alliance, 3GPP & 3GPP2 models, all which have suitable differences.

# IEEE 802.11 existing bits



- ETSI BRAN & MMAC HSWA interworking now in hibernation, although specifications were almost complete.
- IEEE 802.11 requires some work in the DS (Distributed System) to fully define external interworking
  - TGe, TGf, TGi and TGk have started to do this already with functions.
- Should IEEE 802.11 look at Accounting/Charging and what kind of interface should be provided.
- IEEE 802.11 will possibly produce an interworking Recommended Practice (RP).