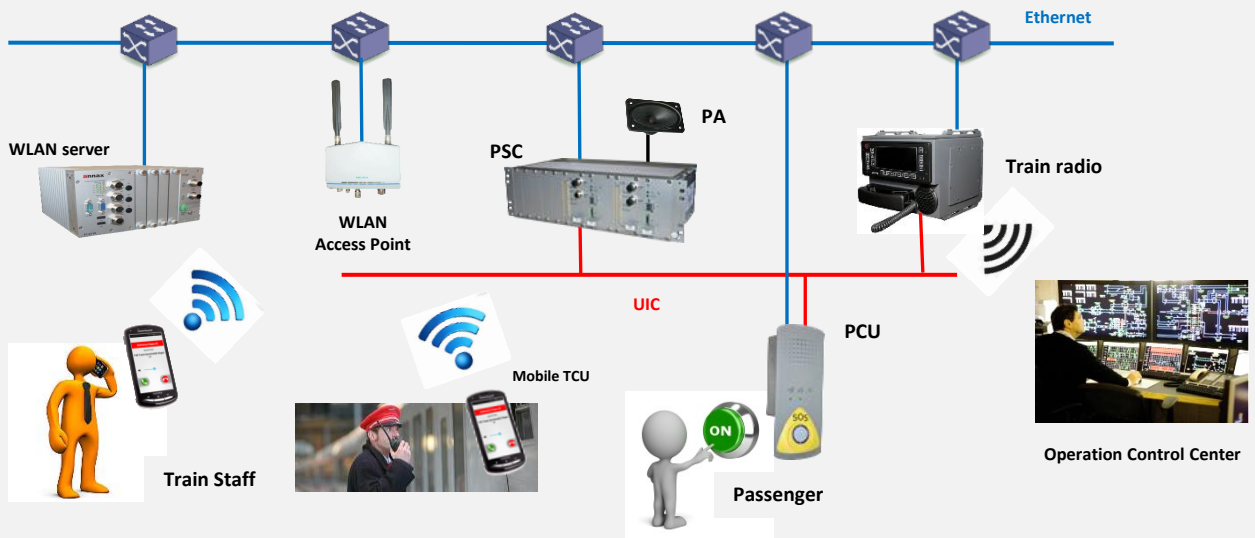


# WLAN based On Board Audio Communication System



## System Overview



## Components



### Multifunctional Passenger Emergency Communication Unit

- IP and UIC audio passenger to driver or passenger to OCC communication
- CCTV camera integration
- Emergency brake integration

### WLAN Server

- 42 TE 10" rack
- ANNAX-Linux OS
- Intel Atom D525 1,8 GHz, 2 GB, 8GB Compact Flash
- WLAN management
- VoIP Gateway/Proxy.

### Managed ETH Switch

- Ethernet Switch
- managed VLANs
- DHCP option 82

### PSC

- Central Element of the Passenger Information System
- Priorisation of communication on board
- Control of intercom communication handling
- Route data base management
- Communication management

### Wifi-Access-Point

- IEEE 802.11g, IEEE 802.11i secure communication
- IEEE 802.1q for VLAN.
- PIS integration

### Mobile TCU (On Board and Train to Train Platform communication)

- 4" display , IEEE 802.11g , IEEE 802.11i secure communication
- Public Announcements
- Communication with Passenger Communication Units (PCU)
- Cab-to-Cab Communication or
- Communication with OCC
- Alarm messages

## For further information:

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