



UMOBILE lab

WP5 – Overall platform integration and validation

UMOBILE Project Meeting

September 21st-22nd, 2016

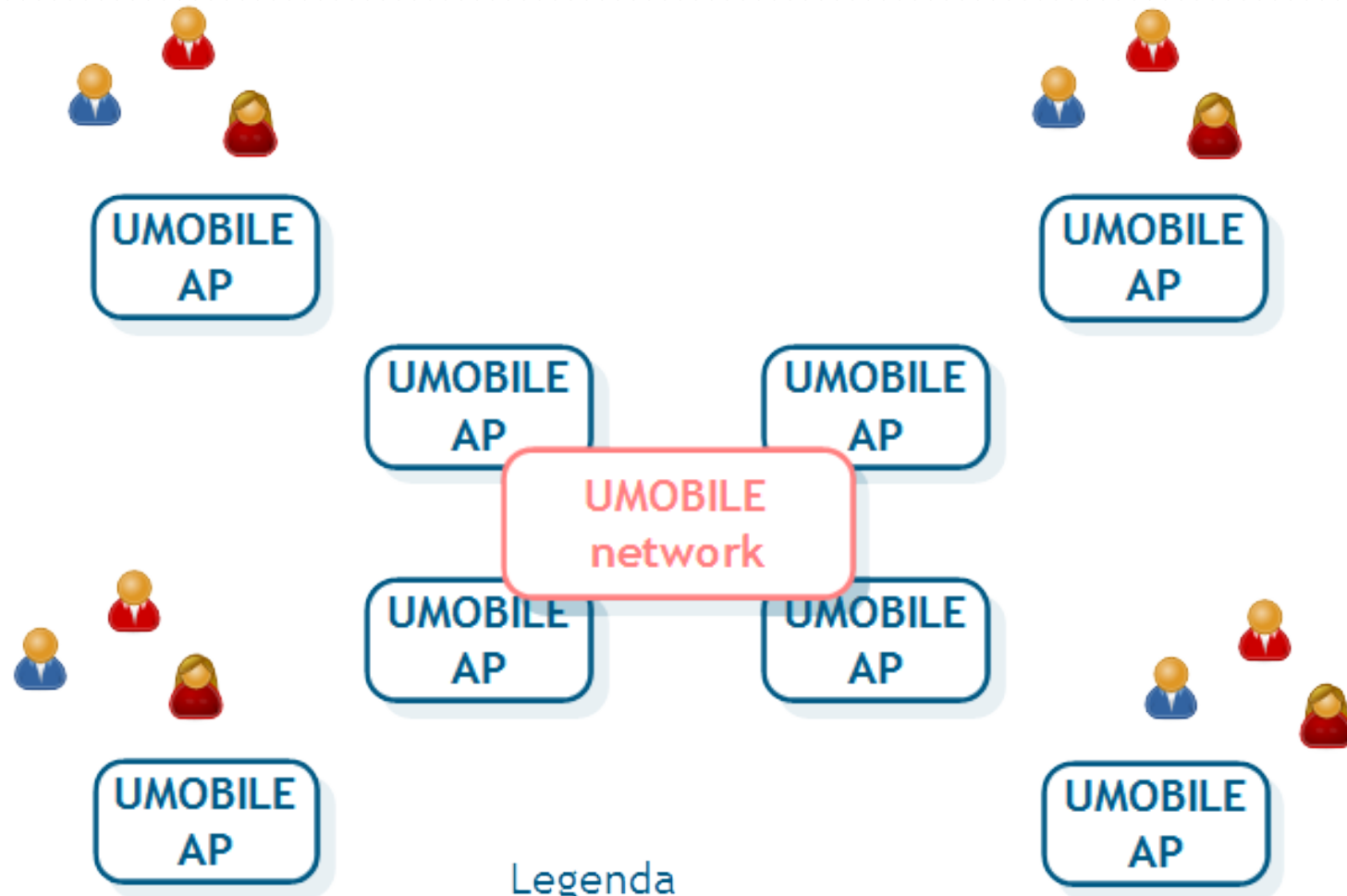
Computer Laboratory – University of Cambridge

- **Project Docs:**
 - http://www.umobile-project.eu/projectdocs/index.php/UMOBILE_Lab
 - The lab will help to practically **demonstrate the overall platform of the project**
 - to evaluate the outcomes of WP3 and WP4
 - to implement and test scenarios with increasing complexity
 - to improve the performance of the operational procedures
 - to test the limits of the system and of its operational capabilities.
 - **The lab will help to execute the WP5** (Overall Platform Integration and Validation) through simulation and emulation
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- The lab is finalised to cover all the UMOBILE use cases. Any application developed during the project shall be initially demonstrated in the lab, with the software modules developed in WP2, WP3, and WP4.
 - It aims to become a complete **prototype implementation of UMOBILE platform, an overall technological validation and a working proof-of-concept**
 - **Midterm review**
 - Which code, piece of software or app should run on it?
 - **Final review**
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- The lab is conceived to be remotely used by each partner through a **VPN connection (L2TP)**.
 - It should integrate (“simulate”) different components, such as mobile nodes, sensor nodes, backhaul links of different type, WiFi infrastructure/equipment.
 - The lab is constituted by a number of devices as:
 - **Wi-Fi access points**
 - **Linux systems (Raspberry PI)**
 - **Android systems (Banana PI)**
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- Human users and their devices are replaced by **Android and Linux black-boxes**
 - Black-boxes will receive commands from a **test robot**; the test robot is connected to each black-box through the **test network**.
 - Two kinds of Android black-boxes will be used, in order to support 2 releases of the Android OS (4.2 and 5.1).
 - It will be possible to exchange data directly through **Wi-Fi Direct**.
 - **Results are automatically collected**
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Legenda

-  UMOBILE Android 4 user
-  UMOBILE Android 5 user
-  UMOBILE Linux user

- Once logged into UMOBILE Lab, it is possible to access:
 - **each device in the lab**
 - their IP addresses and hostname are listed in UMOBILE Lab devices;
 - **UMOBILE website and UMOBILE project-wiki**
 - **the Internet**, through a captive portal



You are accessing the Internet
through the VPN tunnel.
Please Login.

LOGIN

UMOBILE LAB

A CLOSER VIEW





THANKS FOR YOUR ATTENTION

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