

Multiple IEEE 802 Technologies within IMT-Advanced

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Purpose:

To help develop a unified IEEE 802 Position towards IMT-Advanced and include multi-technology requirements within P802.16m

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Multiple IEEE 802 Technologies within IMT-Advanced

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Some IMT-Advanced Features

- Data Centric
- Packet based core
- Variety of air –interfaces
 - Seamless handover between air interfaces
 - Multi-technology terminals

From ITU-R P.1645



Multiplicity of local connectivity



IMT- Advanced workshop, March 2006, Vodafone

IEEE 802 Towards IMT-Advanced

- IEEE 802 is data centric
- IEEE 802 basic architecture is based around a packet core network
- IEEE 802 has a variety of wired and wireless interfaces
- IEEE 802 standards are an integral part of today's devices and considered to be an integral part of IMT-Advanced devices

Ambient Networks



IMT- Advanced workshop, March 2006, Vodafone

Unique IEEE 802 Position

- All IEEE 802 working groups will benefit from presenting a unified IEEE 802 position towards IMT-Advanced

Specific Requirements for 802.16m

- Include mechanism to provide seamless interoperation between different 802 air-interfaces (and others)
- Improve coexistence between different transceivers of the same device



Conclusions

- P802.16m should include requirements of inter-operability with other air interfaces
 - On the network level
 - In the device level
- 802.16 WG should encourage other group to present a unified 802 position towards IMT-Advanced