

Title: LS to IEEE 802, Home RF Forum

Source: TSG SA

To: IEEE 802, Home RF Forum

Contact Person:

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There is an increasing demand for wireless 'local area' access in very different scenarios. Wireless access to Internet is provided to public users by the use of currently existing WLAN technology such as IEEE 802.11b, Home RF, etc. In companies wireless access is provided to portable computer users by use of the same technology. For residential use wireless access is also increasing. 3rd generation technologies and systems will provide bearers for similar packet switched services, with greater mobility and wider area coverage albeit with reduced data rate.

WLAN technology can complement UMTS in deployment environments with high user density and demand for higher data rates. However, in order to provide flexible use of both technologies in these environments and to provide mobility of services between the two technologies it is sensible that some degree of interworking exists between the two technologies/systems.

3GPP TSG SA#13 has received an LS from ETSI BRAN on their work on this very same topic. 3GPP TSG SA#13 has discussed and approved a work item for a feasibility study on interworking between UMTS and WLAN. The approved Work Item Description is attached to this document.

The purpose of the feasibility study is to study a generic interworking functionality between UMTS and WLAN systems (e.g. IEEE 802.11 family, HIPERLAN/2, ...). In specific it aims at:

- Study the service requirements for interworking.
- Study the different possible architectures for interworking.

Work Item Description

Title

WLAN-UMTS Interworking

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

Linked Building Blocks to be defined.

3 Justification

There is an increasing demand for wireless 'local area' access in very different scenarios. Wireless access to Internet is provided to public users by the use of currently existing WLAN technology such as IEEE 802.11b. In companies wireless access is provided to portable computer users by use of the same technology. For residential use wireless access is also increasing. 3rd generation technologies and systems will provide bearers for similar packet switched services, with greater mobility and wider area coverage albeit with reduced data rate.

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4 Objective

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- Study the service requirements for interworking.
- Study the different possible architectures for interworking.

5 Service aspects

Service aspects should assess service requirements and the support of UMTS services over the WLAN radio access.

11 Work item rapporteurs

Fredric Paint, Telenor

12 Work item leadership

SA1 (secondary SA2)

13 Supporting Companies

Telenor, Ericsson, Telia, Microsoft, KPN, Siemens, Samsung Electronics Research Institute, Motorola, Swisscom

14 Classification of the WI (if known)

The work item is a feasibility study