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ETSI
TC Satellite Earth Stations & Systems ***ETSI/SES53(02)87r1***
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Liaison Statement

To: **3GPP TSG RAN**
Copy: **ETSI TC MSG,**
ETSI TC ERM/RM
From: **ETSI TC SES**
Subject: **Evaluation of the W-CDMA UTRA FDD as a satellite radio interface**

During its 52nd meeting (03-05 April 2002, Brest, France), the Technical Committee Satellite Earth stations and Systems (TC SES) of the European Telecommunication Standardisation Institute (ETSI) has adopted a new work item on the": Evaluation of the W-CDMA UTRA FDD as a Satellite Radio Interface"

Indeed, it is today generally recognised that part of the economical difficulties faced by today's Satellite Personal Communication Systems was caused by the high cost of the end user terminal. Such cost was determined by the fact that the satellite part of these terminals was build upon proprietary solutions which required specific components and production chains to be developed. As there are presently six Satellite Radio Interface (SRI) described in ITU-R Recommendation M.1447[1], the possibility to use the same Radio Transmission Technology in a terrestrial and satellite environment would enable the same User Equipment to be used in both environments.

Various studies conducted so far tend to demonstrate that the Terrestrial Radio Interface W-CDMA UTRA FDD could also be used by the satellite component of UMTS/IMT-2000. This has to be formally established for future reference in an updated version of M.1447.

The working group S-UMTS/IMT-2000 of ETSI TC SES will, in a first step, produce a Technical Report evaluating the possibility to use the W-CDMA UTRA FDD as a new Satellite Radio Interface according to the procedures defined by ITU-R in the recommendations M.1455[2] and M.1225[3]. In a second step, and according to the results of this evaluation,

[1] M.1457 "Detailed specifications of the radio interfaces of the International Mobile Telecommunications-2000 (IMT-2000)"
[2] M.1455 "Key characteristics for the radio interfaces of the International Mobile Telecommunications-2000 (IMT-2000)"

appropriate actions will be undertaken for integration of these results in an updated version of M.1447.

ETSI TC SES will inform keep 3GPP TSG RAN of the progress of this study and request further expertise and advice when the work reach a stable stage.

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[3] M.1225 “Guidelines for evaluation of Radio Transmission technology for IMT-2000”