TSG-RAN Meeting#19
Birmingham, UK, 11-14 March 2003

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RP-030178

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<u>**Work Item Description**</u>

Title: **DS-CDMA Introduction in the 800 MHz Band**

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

None

3   Justification

As for IMT-2000, spectrum was first identified by WARC-92. WRC-2000 also considered issues related to IMT-2000, resulting in the additional spectrum identification for the terrestrial component of IMT-2000. In addition, ITU-R Study Group 8 has recently forwarded into the ITU approval process a revision to ITU-R Recommendation M. [1036-1]. This revision includes recommended frequency arrangements for the additional IMT-2000 spectrum identified at WRC-2000; in particular the band 806-960 MHz.

In Japan, currently the band 806-960MHz is mainly used for several Mobile Services. The allocation for the services are rather fragmented and complicated compared with other countries. A working group has been established under the national telecommunication council in Japan to consider the technical condition of the frequency re-arrangement in 800MHz band in order to enhance frequency efficiency. Therefore, the proponents of this work item believe that there is high possibility that IMT-2000 would be introduced in Japan in the band near future.

It is suggested that the consideration of the evolution and migration to introduce DS-CDMA in the band 806-960MHz being studied in the working group under the national telecommunication council in Japan could be used as the basis for this work, which would reduce the effort required within 3GPP.

4   Objective
The purpose of this work item is to:

4.1   ~~Generate a report summarizing a S~~study of DS-CDMA in the 800 MHz band (as described below) for a potential deployment only in Japan. The study ~~which~~ includes ~~impact of the migration or~~ co-existing studies with the following technologies: ARIB STD-27(PDC), ARIB STD-T53(IS-95), and ARIB STD-T64 (cdma 2000), taking the frequency reframing plan in Japan into account. Generate a new technical report based on study results.

The specific bands to be studied are[1]:

[810 – 855] MHz: Up-link (UE transmit, Node B receive)
[855 – 900] MHz: Down-link (Node B transmit, UE receive)

4.2   Generate CR's to update the appropriate documents
4.3   TSG RAN WG2 - study signaling ~~any~~ issues related to IMT-2000 DS-CDMA in 800 MHz band.
4.4   TSG RAN WG3 - study any possible interface impacts to IMT-2000 DS-CDMA networks.
4.5   Any additional related issues.

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[1] These uplink/downlink parings are consistent with the revision of ITU-R M.[1036-1].

5   Service Aspects

None

6   MMI-Aspects

None

7   Charging Aspects

None

8   Security Aspects

None

9   Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X	X		
No	X			X	X
Don't know					

10   Expected Output and Time scale

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
	[DS-CDMA Introduction in the 800 MHz Band]	RAN4	RAN2	RAN#20	RAN#21	New technical report.
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
25.101		UE Radio transmission and reception (FDD)		RAN#21 (September 2003)		
25.104		UTRA (BS) FDD; Radio transmission and reception		RAN#21 (September 2003)		
25.113		Base Station Electromagnetic compatibility		RAN#21 (September 2003)		
25.133		Requirements for Support of Radio Resource Management (FDD)		RAN#21 (September 2003)		
25.141		Base station conformance testing (FDD)		RAN#21 (September 2003)		
25.331		RRC Protocol		RAN#21 (September 2003)		
25.942		RF System Scenarios		RAN#21 (September 2003)		
25.306		Radio UE capability		RAN#21 (September 2003)		
25.307		Requirements on UEs supporting a Release Independent Frequency Band		RAN#21 (September 2003)		
34.121		Terminal Conformance Specification, Radio Transmission and Reception		T#21 (September 2003)		

11   Work item rapporteurs

Takehiro Nakamura (NTT DoCoMo)

12   Work item leadership

RAN WG 4

13   Supporting Companies

NTT DoCoMo, Fujitsu, Mitsubishi Electric, NEC, Panasonic

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b   The WI is a Building Block:
This WI is a building block part of the radio interface improvement feature.