# TSG-RAN Plenary Palm Springs, California, USA, March 13-16, 2001

RP-010227

# Study item request for Fast Cell Selection (FCS) for HS-DSCH

# Source: Motorola

Work Item Description

# Title

Fast Cell Selection for HS-DSCH

# 1 3GPP Work Area

Х	Radio Access
	Core Network
	Services

# 2 Linked work items

None

# **3** Justification

In RAN#7 a study item on High Speed Downlink Packet Access was approved for consideration. FCS was one of the features for HS-DSCH. However, RAN1 recommended that both intra and inter Node-B FCS should be studied further during Release#5 HSDPA work so that it can be a part of Release-6 specification.

# 4 Objective

Initial simulation studies on HSDPA indicate that FCS provides some benefit in average throughput in certain cases. However, the results were not conclusive. As such, a FCS study item is proposed for Rel-5 so that its benefits w.r.t HSDPA can be fully evaluated. The following analysis should be part of the study item on FCS:

- 1. Investigate the benefits of FCS with full motion simulator instead of the quasi-motion simulator (users experience Rayleigh faded but do not move) as used in the previous study.
- 2. Model integrated voice and data, different traffic models (web browsing, WAP, video streaming etc.) and TCP/IP in the system simulator.
- 3. Model the handoff process in the system simulator.

# 5 Service Aspects

Probably none- better support of existing packet data services

# 6 MMI-Aspects

None

#### 7 Charging Aspects

None-uses existing packet data charging schemes

#### 8 Security Aspects

None

#### 9 Impacts

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

#### **10** Expected Output and Time scale (to be updated at each plenary)

				New spe	ecifi	cations		
Spec No.	Title		Prime rsp. WG	rsp. ŴG(s)	G(s) information at plenary#		Approved at plenary#	Comments
TR		ation of FCS -DSCH	R1	R2, R3, R4			RAN #14	New technical report
			Affe	cted existi	ing	specificatio	ons	
Spec No.	CR	Subject				Approved at plenary#		Comments

The technical report should present the results of the study and make a recommendation for which techniques should be incorporated into future releases of the standard. The report should also detail the work items descriptions necessary to continue this work.

#### 11 Work item raporteurs

Robert Love, Motorola

# 12 Work item leadership

#### TSG-RAN WG1

# 13 Supporting Companies

Motorola, Nokia, T-Mobil, Ericsson

# 14 Classification of the WI (if known)

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

14a The WI is a Feature: List of building blocks under this feature

- (list of Work Items identified as building blocks)
- 14b The WI is a Building Block: parent Feature
- (one Work Item identified as a feature)
- 14c The WI is a Work Task: parent Building Block
- (one Work Item identified as a building block)