Agenda Item: 8.13
Source: Philips, Nokia, Mitsubishi, Siemens
Title: Proposed Work Item for HS-DPCCH CQI Enhancement
Document for: Approval

A proposed Work Item Description for HS-DPCCH CQI Enhancement is presented below, following from the Study Item TR on "HSDPA Enhancements" (TR25.899).

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

Title: HS-DPCCH CQI Enhancement

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

None

3   Justification

The Technical Report on "HSDPA Enhancements" under the Radio Link Performance Enhancements Study Item has shown that enhancements to CQI reporting can improve the performance of HSDPA in UTRA FDD.

Techniques for enhancing CQI reporting can give benefits including improved selection of HS-DSCH transport block size, number of HS-PDSCH codes and modulation, as well as less frequent uplink signalling resulting in reduced interference.

This will enable HSDPA to achieve better performance, for example higher throughput, better coverage or reduced uplink interference.

4   Objective

The objective of this work item is to introduce improvements to the transmission of CQI on the UTRA FDD HS-DPCCH, together with associated higher-layer signalling to activate the improvements, with the aim of reducing uplink interference and enhancing HSDPA performance.

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 (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for endorsement at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject			Approved at plenary#	Comments
25.212						
25.214						
25.331						
25.433						

11 Work item raporteurs

Matthew Baker (Philips)

12 Work item leadership

TSG-RAN WG1

13 Supporting Companies

Philips, Nokia, Mitsubishi, Siemens

14 Classification of the WI (if known)

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

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

14b   The WI is a Building Block: parent Feature
RAB support enhancements
(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)