Technical Specification Group Services and System Aspects
Meeting #5, Kyongju, Korea, 11-13 October 1999

TSGS#5(99)357

Source: **TSG-S4 Codec Working Group**

Title: **CR 001 to TR 26.911 v. 3.0.1**

Document for: **Approval**

Agenda Item: **5.4.3**

3G CHANGE REQUEST

26.911 CR **001**   Current Version: 3.0.1

3G specification number ↑   *↑ CR number as allocated by 3G support team*

For submision to TSG   SA #5   for approval   **X**   *(only one box should*
  list TSG meeting no. here ↑   for information   ☐   *be marked with an X)*

Form: 3G CR cover sheet, version 1.0   The latest version of this form is available from: ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf

Proposed change affects: USIM ☐   ME **X**   UTRAN ☐   Core Network ☐
(at least one should be marked with an X)

Source:	TSG-S4, Tdoc TSG-S4#6(99)243	**Date:** 9.9.1999
Subject:	Recommendation for video feedback channel support in a 3G-324 terminal	
3G Work item:	Codec for low bit rate multimedia telephony service	

Category:		F	Correction	☐
		A	Corresponds to a correction in a 2G specification	☐
(only one category		B	Addition of feature	**X**
shall be marked		C	Functional modification of feature	☐
with an X)		D	Editorial modification	☐

Reason for change:	The change enables improved performance and interoperability between 3G-324 video telephony terminals. The change is implemented by adding a recommendation for both encoders and decoders to support the optional H.245 feature for fast update requests in case of transmission errors.

Clauses affected:	7.2

Other specs affected:	Other 3G core specifications	☐	→ List of CRs:	
	Other 2G core specifications	☐	→ List of CRs:	
	MS test specifications	☐	→ List of CRs:	
	BSS test specifications	☐	→ List of CRs:	
	O&M specifications	☐	→ List of CRs:	

Other comments:	

7.2   H.263

Several of the optional annexes of H.263 are useful for improving the compression efficiency and error resilience of the codec. Implementors are recommended to carefully consider supporting a set of selected annexes. For example, there is wide consensus that Annex K (Slice Structured mode) improves error resilience of the codec.

Non-empty GOB headers should be used frequently to improve error resilience (see [6], Section 5.2).

H.263 encoders in 3G-324M terminals should respond to all videoFastUpdate commands received via the H.245 control channel (i.e., videoFastUpdatePicture, videoFastUpdateGOB, and videoFastUpdateMB presented in section 7.11.5 of [2] Version 3). Using this feedback information to make a focused picture update can significantly improve the error performance of the codec. 3G-324M decoders are correspondingly recommended to transmit videoFastUpdate commands when the received picture is detected to be significantly corrupted due to transmission errors.