

Release 6 Submission form on audio codecs and related services

Feature / Item:		<p>Some audio codec work to finalise Enhanced aacPlus and AMR-WB+ codecs remains after SA#27. The work for Enhanced aacPlus is done under “Packet Switched Streaming Rel-6” WI and for AMR-WB+ under “AMR-WB extension for high audio quality” WI. Finalisation of the two audio codecs impacts all Rel-6 services where the codecs are used. Hence, in addition to :</p> <ol style="list-style-type: none"> 1. Packet Switched Streaming Services Rel-6; Stage 3, and 2. AMR-WB extension for high audio quality, <p>they impact also on :</p> <ol style="list-style-type: none"> 3. MMS formats and codecs, 4. Media Codecs and Formats for IMS Messaging and Presence, and 5. Definition of MBMS user services, media codecs, formats and transport/application protocols using MBMS’ <p>Note that the finalisation of 5) is delayed by further open issues than audio codec work; to the purpose, see a specific Release 6 Submission form on "MBMS User Services" WI.</p> <p>The common remaining issue in all is the finalisation of the two audio codec specifications (see details below).</p>				
Affects:	UE/MS: YES	CN: YES	UTRAN: YES	GERAN: NO	Compatibility Issues:	No: X
Expected Completion Date:		SA#28 (except SA#30 for audio codec characterisation TR)				
Services impacted:		Finalisation of Enhanced aacPlus and Extended AMR-WB codecs impacts all Rel-6 services where the codecs are used. Hence, they impact PSS, MMS, MBMS User Services, IMS Messaging and Presence.				
Specifications affected:		<p>Non-finalised Enhanced aacPlus codec TSs (work done under PSS Rel-6 WI): TS 26.411 “Enhanced aacPlus general audio codec; Fixed-point ANSI-C code” (*) TS 26.406 “General audio codec audio processing functions; Enhanced aacPlus general audio codec; Conformance testing” - presented for information at SA#27</p> <p>Non-finalised Extended AMR-WB codec TSs (work done under AMR-WB extension for high audio quality WI): TS 26.273 “ANSI-C code for the Fixed-point Extended AMR Wideband codec” (*) TS 26.274 “Audio codec processing functions, Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Conformance testing” - presented for information at SA#27</p> <p>Non-finalised audio codec characterisation TR (work done under PSS Rel-6 WI): TR 26.9xy “Performance characterization of audio codecs” (that will include results of verification items as well).</p> <p>Non-finalised source code for file format TS (work done under PSS Rel-6 WI): TS 26.412 “Source code for 3GP file format” - presented for information at SA#27</p> <p>In addition, specifications defining codecs for the relevant services are impacted: TS 26.140 (for MMS), TS 26.234 (for PSS), TS 26.141 (for IMS Messaging and Presence) and TS 26.346 (for MBMS User Service).</p>				
Tasks within work which are not complete:		<ul style="list-style-type: none"> • definition of codec conformance requirements • preparation of fixed-point codec versions (*) • performance characterisation of the codecs 				

Consequences if not included in Release 6:	Enhanced aacPlus and AMR-WB+ codecs are not fully defined in specifications (conformance requirements TSs and fixed-point codec TSs (*) missing). Audio codecs are not characterised in Rel-6. No TS pointing to "Source code for 3GP file format", nor "binary code for 3GP file format", included in the specifications.
Accepted by TSG#	for late inclusion in Release 6:

(*) Fixed-point codec TSs may be presented for approval/information at SA#27 - pending decision at the Audio Codec teleconference on March 9th, 2005.

Abstract of document:

The finalisation is delayed by :

1) see list in **Tasks within work which are not complete.**

About the "MBMS User Services" WI, further open issues, other than the audio codec work, are listed in a companion Release 6 Submission form, see Tdoc SP-050100.

Contentious Issues:

None