3GPP TSG-SA WG3 Meeting #37 Sophia Antipolis, France, 21–25 February 2005

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CHANGE REQUEST										
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Reason for change: # Align with the proposal from OMA BAC DLDRM in response to suggestion									on from	
	OMA where	e a specific ve	ersion of th	neir s	pecifi	cation is cite	ed (V2.0)			
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enough information to prevent misunderstanding of a MBMS DCF in a general OMA DRM context, or vice versa. Deletion of the editor's note in 6.6.3 Addition of note in 6.6.3.2 to clarify specific version of OMA specification to be used Consequences if **置** Incomplete specification not approved: Clauses affected: **%** 6.6.3, 6.6.3.2 Other core specifications Other specs \mathfrak{R} **26.346** N Test specifications affected: N O&M Specifications Other comments: \mathfrak{R}

6.6.3 Protection of download content

Editor's Note: The details of MBMS download protection are subject to the response from OMA BAC DLDRM.

SA3 has asked OMA BAC DLDRM whether it is possible to include the extensions and deviations needed for using the DCF format for MBMS download protection to OMA DRM v2.0 DCF specification. If the answer is positive, some material in this section will be removed and the OMA specification referenced instead.

6.6.3.1 General

Data that belongs to a download MBMS User Service is decrypted as soon as possible by the UE, if the MSK needed to provide the relevant MTK is already available on the UE.

6.6.3.2 Usage of OMA DRM DCF

NOTE: If the OMA DRM V2.0 DCF [15] specification is upgraded, these upgrades do not apply for the present document.

When it is required to protect MBMS download content, OMA DRM V2.0 DCF as defined in reference [15] shall be used. In particular, minor version 0x00000003 of OMA DRM V2.0 DCF specifies how DCF is used to protect MBMS download content. MBMS download contents are therefore indicated by minor version 0x00000003 in a DCF. MBMS download contents are indicated by the 3GPP MBMS DCF flag in the Common Headers Box of a DCF. OMA DRM Rights Objects are not utilized. Instead, encryption and authentication keys are generated from MTK. For integrity protection, an OMADRM MBMS Signature as specified below is attached inside the optional Mutable DRM information box ('mdri') in the FreeSpaceBox of the DCF.

The MBMSOMADRM Signature Box is an extension to OMA DRM V2.0 DCF for use by MBMS, and is defined as follows:

The range of data for the HMAC calculation shall be according to section 5.3 of reference [15].

The correct MTK for decrypting and verifying the integrity of the download content is indicated by the key_id in the RightsIssuerURL field as follows:

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mbms-key://<key_id>
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where key_id is defined as the base64 encoded concatenation (Key Domain ID \parallel MSK_ID \parallel MTK ID).

In case the FDT of the FLUTE protocol needs to be protected, the FDT may also be wrapped in a different DCF. Confidentiality and/or integrity protection of FDT can be provided this way.

Editors' note: The optionality of FDT protection is still under study (i.e. whether it should be mandated).