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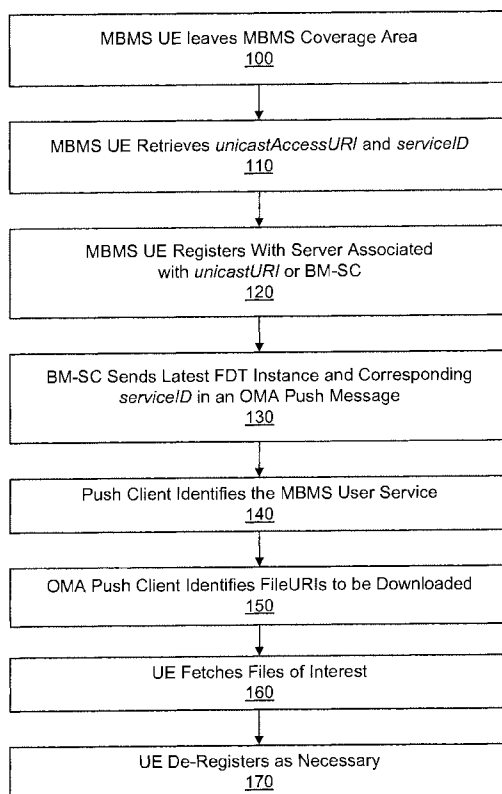
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(54) Title: SYSTEM AND METHOD FOR OPTIMIZING DOWNLOAD USER SERVICE DELIVERY TO ROAMING CLIENTS

FIG. 1



(57) Abstract: A system and method for providing MBMS content distribution using unicast bearers. According to various embodiments, MBMS download user services are delivered to pieces of user equipment by delivering a FLUTE file delivery table via an OMA Push message. One of a number of different additional actions may be used in the delivery of the MBMS download user services. These actions include (1) making a single HTTP GET request using simple URL-encoding format to retrieve all files of the FDT; (2) making a single HTTP GET request using "group" field of FDT in URL-encoding to retrieve a logical group of files of the FDT; (3) making pipelined HTTP GET requests where each HTTP GET request retrieves at least one file of the FDT; (4) making serialized HTTP GET requests where each HTTP GET request retrieves at least one file of the FDT; (5) making pipelined HTTP GET requests where each HTTP GET request retrieves at least one logical group of files of the FDT; (6) making serialized HTTP GET requests where each HTTP GET request retrieves at least one logical group of files of the FDT; (7) delivering the serviceID of the MBMS user service in the above mentioned OMA PUSH message but not including the serviceID in the FLUTE FDT; (8) an HTTP request to de-register the MBMS UE from the BM-SC for stopping the unicast delivery of the MBMS download user service; and (9) delivering the FDT Instance ID of the FDT Instance in an OMA Push message,

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	"Universal Mobile Telecommunications System (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs (Release 7)" 3GPP TS 26.346 V7.3.0, March 2007 (2007-03), XP002506612 cited in the application section 7 section 9	1-54		
Y	ERICSSON: "Correction to the OMA Push based MBMS download method" 3GPP TSG-SA WG4 MEETING #43, 13 April 2007 (2007-04-13), XP002506613 cited in the application the whole document	1-54		
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.				
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A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family			
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer <p style="text-align: center; font-size: 1.2em;">Pope, Fabrice</p>		

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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P,X	"Universal Mobile Telecommunications System (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs (Release 7)" 3GPP TS 26.346 V7.7.0, March 2008 (2008-03), pages 31-45, XP002506614, section 7	1-54
A	PAILA T ET AL: "FLUTE - File Delivery over Unidirectional Transport" INTERNET ENGINEERING TASK FORCE, 1 October 2004 (2004-10-01), XP015009699 RFC 3926 the whole document	1-54
A	WIRELESS APPLICATION PROTOCOL FORUM: "Push OTA Protocol, WIRELESS APPLICATION PROTOCOL" WAP-235-PUSHOTA-20010425-A, 25 April 2001 (2001-04-25), XP002240864 the whole document	1-54