Module Interfaces (IMS Conference Call)								
Calling UE	IMS Network	Called UE	EventStudio System Designer 4.0					
This sequence diagram was generated with EventStudio System Designer 4.0 (http://www.EventHelix.com/EventStudio). Copyright © 2008 EventHelix.com Inc. All Rights Reserved. The EventStudio source files for this document can be downloaded from http://www.eventhelix.com/call-flow/ims-conference.zip.								
This sequence diagram shows an IMS user creating a conference by using a conference-factory URI. The conference is created at a MRFC-AS of the users home network. The steps involved in the conference scenario covered here are:								
(1) The conference initiator UE uses the conference factory URI to initiate a conference with the MRFC-AS (Multimedia Resource Function Control/Application Server).								
(2) The MRFC-AS assigns a conference URI to the conference and configures the MRFP (Multimeda Resource Function Processor).								
(3) The conference call is setup and the RTP data begins flowing between the conference initiating UE and the MRFP.								
(4) The conference initiator then uses the refer procedure to add more users to the conference. The new users establish a call to the conference URI passed in the refer message.								
(5) When the conference is in progress, RTP media streams are being mixed and propagated to all the participants.								
(6) The conference user drops out of the conference. All users are notified for this exit from the conference.								
Initiating an IMS conference using the Conference Factory URI								
	ATTE actory1@mrfc1.home1.net SIP/2.0, mome1.net SIP/2.0, home1.net>, @hims1.net>, <s-cscf address="">, ort, dec List></s-cscf>		Conference Initiator UE is aware of a conference-factory URI due to pre-configuration. When creating a conference, the Conference Caller generates an initial INVITE request with its request URI set to conference factory URI.					
	Frying		The P-CSCF responds to INVITE with 100 Trying.					
■ 183 Sest	sion Prog		The media stream capabilities of the MRFP are returned along the signalling path, in a 183 (Session Progress) provisional response.					
PR	ACK		The Conference Initiator UE determines which media flows should be used for this session, and which codecs should be used for each of those media flows. If there is any change, Conference Caller sends a new codec request in PRACK.					
200 OK	(PRACK)		The MRFC-AS acknowledges the PRACK request with a 200 (OK) response.					
UPE	DATE		When the resource reservation is completed, the Conference Initiator UE sends the UPDATE request towards the MRFC-AS					
200 OK (UPDATE)		The MRFC-AS acknowledges the UPDATE with a 200 (OK) response.					
200 OK	(INVITE)		The MRFC-AS sends "200 OK" as a final response to INVITE request. MRFC creates a focus for the newly created conference, assigns it conference URI and returns it in Contact header. On receiving 200 (OK) with isfocus parameter, the Conference initiator stores the Contact header content as the conference URI.					
RTP S	Stream		The Conference Initiator starts the media flow for this session. The RTP data stream is started towards the MRFP.					
A	CK		The conference initiator responds to the "200 OK" with an ACK towards MRFC-AS.					
User inviting another user to a conference by sending a REFER request								
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	aces (IMS Conference Call)					
Calli	alling UE IMS Network		Called UE		EventStudio System Designer 4.0	
	REFER Request URI = <sip: @home2<br="" user2_public1="">From = <sip: .net="" @home1="" user1_public1="">, To = <sip: .net="" @home2="" user2_public1="">, Route: <sip: net="" pcscf1.="" visited1.="">, <sip:orig home1 .net>, Refer-To: <sip: .home1="" .net;<br="" @mrfc1="" conf1="">method=INVITE>, Referred-By: <sip: @home1.n<="" td="" user1_public1=""><td>@scscf1</td><td></td><td></td><td></td></sip:></sip:></sip:orig </sip:></sip:></sip:></sip:>	@scscf1				
			REFER		The terminating I-CSCF performs a location query to the HSS to find out the terminating S-CSCF and forwards the REFER request to that S-CSCF.	
	202 Accepetd 20		202 Accepted		The Called Conference Participant accepts the REFER request by sending a 202 (Accepted) response.	
	NOTIFY	NO	TIFY		The NOTIFY message is sent to inform that the REFER message is being processed.	
	200 OK (NOTIFY)	200 OK	200 OK (NOTIFY)		The "200 OK" Acknowledges the NOTIFY message.	
Called Conferen	ce Participant enters Confer	ence				
		◀			Called Conference UE is aware of a conference-factory URI from REFER.	
		To: conf-factory1@mrfc1.h From: <sip:user2_public1@ SDP: <caller coc<="" supported="" td=""><td colspan="2">To: conf-factory1@mrfc1.home1.net SIP/2.0, From: <sip:user2_public1@home2.net>, SDP: <caller codec="" list="" supported=""></caller></sip:user2_public1@home2.net></td></caller></sip:user2_public1@ 	To: conf-factory1@mrfc1.home1.net SIP/2.0, From: <sip:user2_public1@home2.net>, SDP: <caller codec="" list="" supported=""></caller></sip:user2_public1@home2.net>			
			100 Trying 183 Session Prog PRACK 200 OK (PRACK) UPDATE			
		200 OK (UPDATE)			
		200 OK	(INVITE)			
			Stream			
		A(СК	_		
Notify Conferen	ce Initiator that the user has	s successfully entered th	ne conference			
	■ NOTIFY		TIFY			
	200 OK (NOTIFY)	200 OK	(NOTIFY)			
Conference in p	rogress					
	RTP Stream		Stream		The conference is now in progress. The MRFP is merging and distributing the media stream for th conference.	
Conference Call	er leaving the Conference	I				
	BYE				The Called Conference Participant wants to leave the conference. For this purpose it sends a BYE message to the P-CSCF with the Conference-URI as the Request-URI.	
		Request URI: sip:conf1@mr From: <sip:user2_public1@ To: <sip:conf1@mrfc1.hom< td=""><td>home1.net>,</td><td></td><td colspan="2">וובשאמעב נט נווב ד-טשטר שונו נווב טטוויבובווטב-טדו אז נווב דבעעעבאנ-טדו.</td></sip:conf1@mrfc1.hom<></sip:user2_public1@ 	home1.net>,		וובשאמעב נט נווב ד-טשטר שונו נווב טטוויבובווטב-טדו אז נווב דבעעעבאנ-טדו.	

