PoC Client B Interfa	ces (IMS PoC Client Invitation))				
Wireless Network A		IMS			Wireless Network	EventStudio System Designer 4.0
User Equipment A	IMS Network A			etwork B	User Equipment E	29-Jun-08 11:31 (Page 1)
PoC Client A			IS Core B	PoC Server B	PoC Client B	
Push-to-talk over Ce phone indicates it is	llular (PoC) service allows cell p OK to do so. The user releases t	hones to used as wa he button when he o	lkie-talkies. A r she is done	group of users in a P speaking.	oC session can comr	nunicate by simply pressing a button and speaking when the
When a user begins the users in the sess	to speak, the PoC server allocate ion.	es resources and not	ifies other use	ers in the PoC sessior	n that the user is spea	king. The PoC server then delivers the speech packets to all
PoC is resource effic participants speaking		y when a user is actu	ually speaking	g. This makes it suitab	le for applications wh	nere there are long gaps between individual session
	e case where PoC Client A invites					
This sequence diagra EventStudio source f	im was generated with EventStu iles for this document can be do	dio System Designer wnloaded from http:	r 4.0 (http://w //www.eventh	ww.EventHelix.com/E nelix.com/call-flow/im	ventStudio). Copyrig s-poc-pre-establishe	nt $^{\odot}$ 2008 EventHelix.com Inc. All Rights Reserved. The d.zip.
IMS Registration and	PoC Session Pre-establishmen	t				
		IMS Registra	ation and PoC Se	ession Pre-establishment (C	lick here for details)	PoC Client B registers and pre-establishes the PoC session. Click on the action box to see details.
Invite Client B to a se	ession with SIP REFER	1		I		
PoC Server A invites	PoC Client B					
Media Burst Control	Protocol (MBCP) Session Setup	using RTCP Port				
				MBCP protocol = RTCF	P Connect	The PoC Server B sends the MBCP Connect to the PoC Client B. The message includes the PoC Session Identity.
				MBCP Media Bur	st Acknowledgement	The PoC Client B acknowledges the reception of the MBCP Connect message.
				Push	-to-Talk session activat	edIndication to the user that the push-to-talk session has been activated.
Talk Burst from PoC	Client A to B					
				MBCP Med protocol = RTCF Granted SSRC =	PAPP, POC Client A	Indicate to PoC Client B that the floor has been assigned to PoC Client.
				MBCP Media Bur	st Acknowledgement	Acknowledge the media burst taken message.
				PoC Cli	ient A Speaking Indicati	onNotify the user that the floor has been granted to PoC Client A.
						The PoC Client A sends the RTP Media to the PoC Client B via PoC Server A and PoC Server B.
				RTP	[•] Media Voice	
				MBCP Me protocol = RTCF	dia Burst Idle	
						onIndication to the user that the floor is now available.

/ireless Network A			IMS		Wireless Network B	
Jser Equipment A	IMS Ne	IMS Network A IMS Network B			User Equipment B	EventStudio System Designer 4.0
PoC Client A	PoC Server A	IMS Core A			PoC Client B	29-Jun-08 11:31 (Page 2)
Ik Burst from PoC Cl				PoC Server B		
						dPoC Client B wishes to speak so he or she presses the "Push-to-talk button" on the phone.
				protocol = RTCI MB-Priority	ia Burst Reques P APP,	Request the floor for the session.
				MBCP Med	lia Burst Grante	The floor is granted.
					Permission to tal	kIndicate to the user that the floor has now been granted.
						The PoC Client B sends the RTP Media to the PoC Client A via PoC Server B and PoC Server A.
					P Media Voice	dPoC Client B released the "Push-to-Talk" button to signal that
					ia Burst Release	or she has stopped speaking. The burst release is passed to the controlling PoC Server (Po
				protocol = RTC	P APP edia Burst Idle	Server A)
				protocol = RTC	P APP	
				F	loor is available indicatio	nIndicate to the user that the floor is available for speaking.