ser Equipment A		IMS			Network B	EventStudio System Designer 4.0
PoC Client A PoC	IMS Network A Server A IMS (Core A IMS	IMS Network B Core B PoC Se	User Equerver B PoC C		29-Jun-08 11:31 (Page 1)
sh-to-talk over Cellular (PoC	c) service allows cell ph	ones to used as walk	ie-talkies. A group of us			I Inicate by simply pressing a button and speaking when t
one indicates it is OK to do s						
ien a user begins to speak, t users in the session.	the PoC server allocates	resources and notifi	es other users in the Po	C session that the use	er is speaki	ng. The PoC server then delivers the speech packets to
C is resource efficient as it a	illocates resources only	when a user is actua	Illy speaking. This make:	s it suitable for applica	ations whe	re there are long gaps between individual session
ticipants speaking.	,		3 1 3			
s flows covers the case whe					· ·	
s sequence diagram was ge entStudio source files for thi	nerated with EventStud s document can be dov	lio System Designer 4 vnloaded from http://	I.O (http://www.EventHe www.eventhelix.com/cal	·lix.com/EventStudio). II-flow/ims-poc-pre-es	Copyright stablished.z	© 2008 EventHelix.com Inc. All Rights Reserved. The zip.
S Registration and PoC Sess	sion Pre-establishment	·		· · ·		·
IMS Registration and PoC Ses	sion Pre-establishment (Click	k here for details)				PoC Client A registers and pre-establishes the PoC session. C on the action box to see details.
		IMS Registration	on and PoC Session Pre-estab	olishment (Click here for de	tails)	PoC Client B registers and pre-establishes the PoC session. C
ite Client B to a session with	SIP REFER					on the action box to see details.
h-to-Talk Button Pressed	TOIL REFER					The user selects a friend (PoC Client B) for the push to talk
R	PEFER					session and pressed the "Push-to-talk button". A push-to-talk session currently not active, so initiate a PoC
	SessionIdentityA @PoC-ServerA.netwo	rkA.net,				session establishment. The PoC Client A invites the PoC Clien to the Pre-established Session.
	REFER					The IMS Core A forwards the REFER to Participating and
	Request-URI:sip:Pre-establishedSe @PoC-ServerA.networkA.net,	ssionIdentityA				Controlling PoC server A.
	Refer-To: <sip:poc-userb @network<="" td=""><td>kB.net></td><td></td><td></td><td></td><td>The DeC Conver A indicates that it has received the CID DEFFE</td></sip:poc-userb>	kB.net>				The DeC Conver A indicates that it has received the CID DEFFE
	202 Accepted	-				The PoC Server A indicates that it has received the SIP REFER request by sending a SIP 202 Accepted response.
₹ 202 <i>I</i>	Acepted	-				The IMS Core A forwards the response to the PoC Client A.
	INVITE Request-URI: <sip:poc-userb @ne<="" td=""><td>► tworkB.net>,</td><td></td><td></td><td></td><td>The PoC Server A invites the PoC Client B, who is indicated in the Refer-To header of the received SIP REFER request.</td></sip:poc-userb>	► tworkB.net>,				The PoC Server A invites the PoC Client B, who is indicated in the Refer-To header of the received SIP REFER request.
	Request-URI: <sip:poc-userb @net<br="">Referred-By;<sip:poc-usera @netw<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerA.networkA.net; session</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	vorkA.net>, 1-1>;				
	+g.poc.talkburst; isfocus, Supported codecs					
		INVITE	attuarl D. nat			
		Request-URI: <sip:poc-userb @n<br="">Referred-By: <sip:poc-usera @net<br="">Contact: <sip:sessionabcdef @<br="">PoC-ServerA.networkA.net; sessio +g.poc.talkburst; isfocus, Supported codecs</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	tworkA.net>,			
		+g.poc.talkburst; isfocus, Supported codecs	11-12,			
	100 Trying					
	NOTIFY	•				
■ No	OTIFY					The PoC Server A sends a SIP NOTIFY request via the IMS Co A towards the PoC Client A to inform about the progress of the
						session request.
20	0 (OK) 200 (OK)					The PoC Client A acknowledges the NOTIFY with 200 OK
	•	1				towards PoC Server A.
C Server A invites PoC Clien	•		INVITE			towards PoC Server A.
C Server A invites PoC Clien	•		INVITE Request-URI: <sip:poc-userb @network="" @network<="" lsera="" referred-rv:<sin-poc-i="" td=""><td>/orkB.net>, rkA.net></td><td></td><td>towards PoC Server A. The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC</td></sip:poc-userb>	/orkB.net>, rkA.net>		towards PoC Server A. The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC
C Server A invites PoC Clien	•		Request-URI: <sip:poc-userb @netw<br="">Referred-By:<sip:poc-usera @netwo<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerA.networkA.net; session1</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	/orkB.net>, rkA.net>, -1>;		towards PoC Server A. The IMS Core B forwards the INVITE to PoC Server B.
C Server A invites PoC Clien	•		Request-URI: <sip:poc-userb @netw<br="">Referred-By: <sip:poc-usera @netwo<br="">Contact: <sip:sessionabcdef @<="" td=""><td>vorkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core</td></sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	vorkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core
C Server A invites PoC Clien	•	100 Trying	Request-URI: <sip:poc-userb @netwok<br="">Referred-By:<sip:poc-usera @netwok<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerA.networkA.net;<session1 +q.poc.talkburst;<sfocus,< td=""><td>vorkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core</td></sfocus,<></session1 </sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	vorkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core
C Server A invites PoC Clien	•	100 Trying	Request-URI: <sip:poc-userb @netwok<br="">Referred-By:<sip:poc-usera @netwok<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerA.networkA.net;<session1 +q.poc.talkburst;<sfocus,< td=""><td>vorkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response.</td></sfocus,<></session1 </sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	vorkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response.
C Server A invites PoC Clien	•	100 Trying 100 OK (INVITE)	Request-URI: <sip:poc-usera +g.poc.talkburst;="" @="" @netwok="" codecs<="" contact:<sip:sessionabcdef="" isfocus,="" networka.net;="" poc-servera="" referred-by:<sip:poc-usera="" session1="" supported="" td=""><td>/orkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies t</td></sip:poc-usera>	/orkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies t
C Server A invites PoC Clien	t B		Request-URI: <sip:poc-usera @network.="" @poc-servera.networka.net;="" codecs<="" isfocus,="" referred-by:<sip:poc-usera="" referred-by:<sip:sessionabcdef="" session1+g.poc.talkburst;="" supported="" td=""><td>/orkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established.</td></sip:poc-usera>	/orkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established.
C Server A invites PoC Clien	t B		Request-URI: <sip:poc-usera @network.="" @poc-servera.networka.net;="" codecs<="" isfocus,="" referred-by:<sip:poc-usera="" referred-by:<sip:sessionabcdef="" session1+g.poc.talkburst;="" supported="" td=""><td>/orkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies the auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK)</td></sip:poc-usera>	/orkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies the auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK)
C Server A invites PoC Clien	t B		Request-URI: <sip:poc-usera @network.="" @poc-servera.networka.net;="" codecs<="" isfocus,="" referred-by:<sip:poc-usera="" referred-by:<sip:sessionabcdef="" session1+g.poc.talkburst;="" supported="" td=""><td>vorkB.net>, rkA.net>, -1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies a auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the signal of the sig</td></sip:poc-usera>	vorkB.net>, rkA.net>, -1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies a auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the signal of the sig
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C Server A invites PoC Client	100 OK (INVITE)	100 OK (INVITE)	Request-URI: <sip:poc-usera @network.="" @poc-servera.networka.net;="" codecs<="" isfocus,="" referred-by:<sip:poc-usera="" referred-by:<sip:sessionabcdef="" session1+g.poc.talkburst;="" supported="" td=""><td>-1>;</td><td></td><td>The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the PoC Server B) and accepted Media Burst Control Protocol.</td></sip:poc-usera>	-1>;		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the PoC Server B) and accepted Media Burst Control Protocol.
	100 OK (INVITE)	100 OK (INVITE)	Request-URI: <sip:poc-userb @netw<br="">Referred-By:<sip:poc-usera @netwo<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServefAnetworkA.net; session1 +g.poc.talkburst; isfocus, Supported codecs 100 Trying 100 OK (INVITE)</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	MBCP Connect		The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the PoC Server B) and accepted Media Burst Control Protocol.
	100 OK (INVITE)	100 OK (INVITE)	Request-URI: <sip:poc-userb @netw<br="">Referred-By:<sip:poc-usera @netwo<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerAnetworkA.net; session1 +g.poc.talkburst; isfocus, Supported codecs 100 Trying 100 OK (INVITE)</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	MBCP Connect protocol = RTCP APP Media Burst Acknowledge	ment	The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SII 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the PoC Server B) and accepted Media Burst Control Protocol. The PoC Server B sends the MBCP Connect to the PoC Client The message includes the PoC Session Identity. The PoC Client B acknowledges the reception of the MBCP
	100 OK (INVITE)	100 OK (INVITE)	Request-URI: <sip:poc-userb @netw<br="">Referred-By:<sip:poc-usera @netwo<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerAnetworkA.net; session1 +g.poc.talkburst; isfocus, Supported codecs 100 Trying 100 OK (INVITE)</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	MBCP Connect orotocol = RTCP APP P Media Burst Acknowledge orotocol = RTCP APP	ment	The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core The IMS Core B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the PoC Server B) and accepted Media Burst Control Protocol. The PoC Server B sends the MBCP Connect to the PoC Client The message includes the PoC Session Identity. The PoC Client B acknowledges the reception of the MBCP Connect message.
	100 OK (INVITE) MBCP) Session Setup (100 OK (INVITE) using RTCP Port	Request-URI: <sip:poc-userb @netw<br="">Referred-By:<sip:poc-usera @netwo<br="">Contact:<sip:sessionabcdef @<br="">PoC-ServerA.networkA.net; session1 +g.poc.talkburst; isfocus, Supported codecs 100 Trying 100 OK (INVITE)</sip:sessionabcdef></sip:poc-usera></sip:poc-userb>	MBCP Connect orotocol = RTCP APP P Media Burst Acknowledge orotocol = RTCP APP	ment on activated	The IMS Core B forwards the INVITE to PoC Server B. The IMS Core A resolves the IMS Core B address of the PoC Client B and forwards the SIP INVITE request to the IMS Core B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B responds to the SIP INVITE request with a SI 100 Trying provisional response. The PoC Server B receives the SIP INVITE request, identifies to auto answer is defined for the PoC Client B and that the PoC Client B has already a Pre-established Session established. Therefore the PoC Server B sends a SIP 200 (OK) final response to the SIP INVITE request to the IMS Core B. The SIP 200 (OK) response is sent along the signaling path. The SIP 200 (OK) response contains the SDP answer including the accepted me information (e.g. Codecs, IP address and port number(s) of the PoC Server B) and accepted Media Burst Control Protocol. The PoC Server B sends the MBCP Connect to the PoC Client The message includes the PoC Session Identity. The PoC Client B acknowledges the reception of the MBCP
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