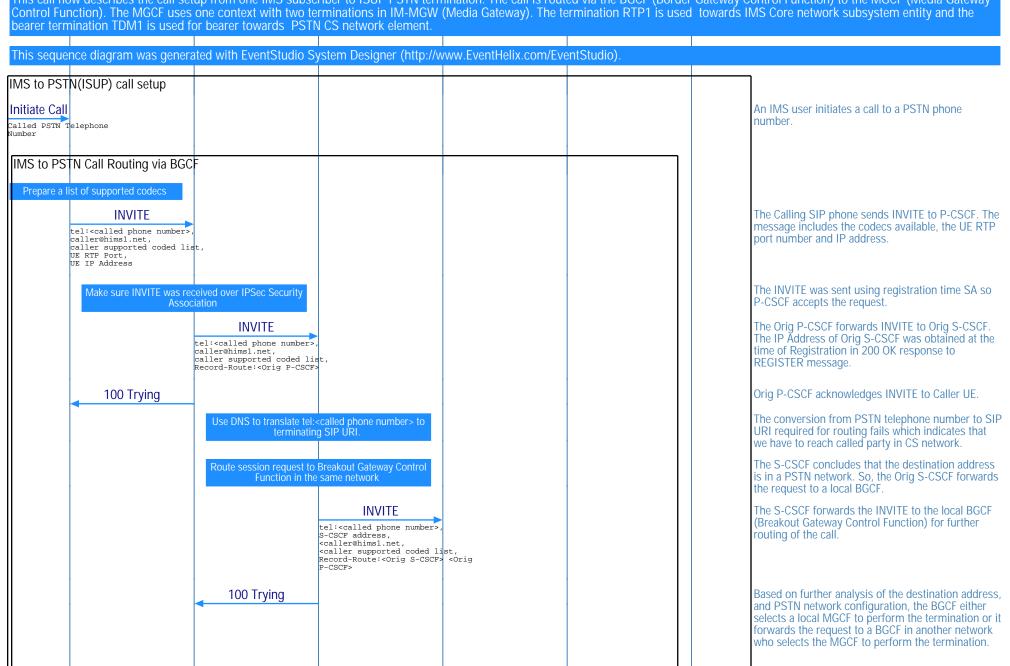
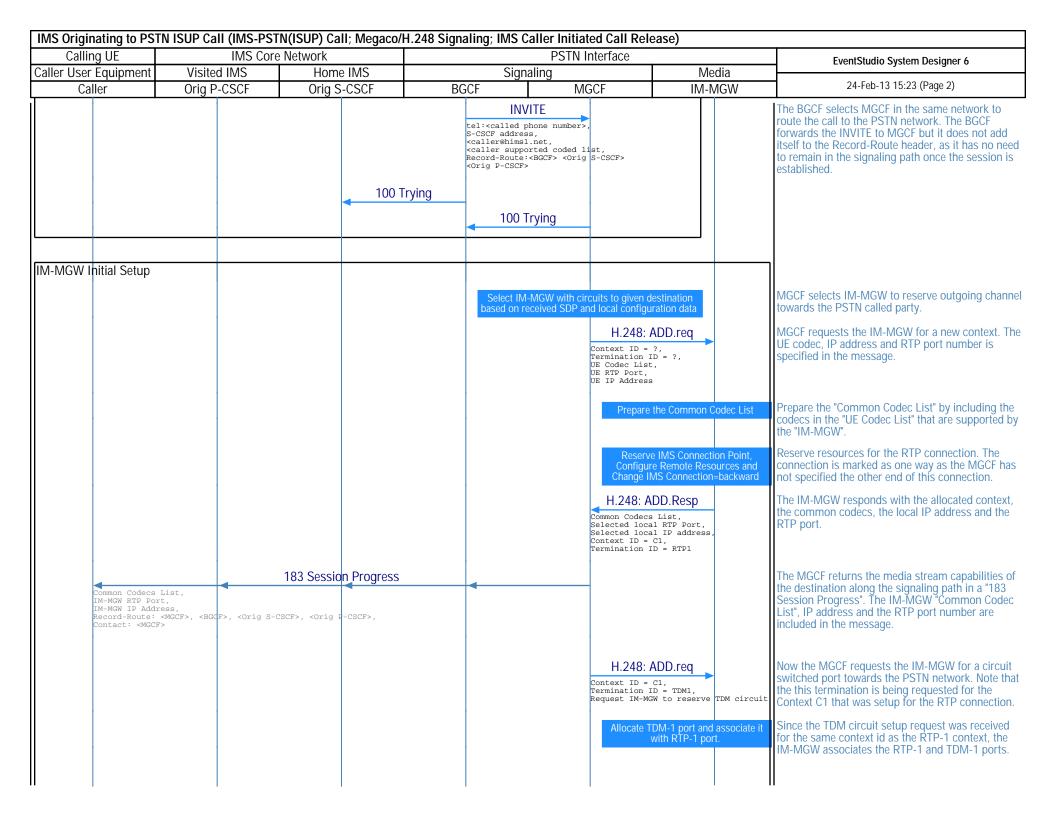
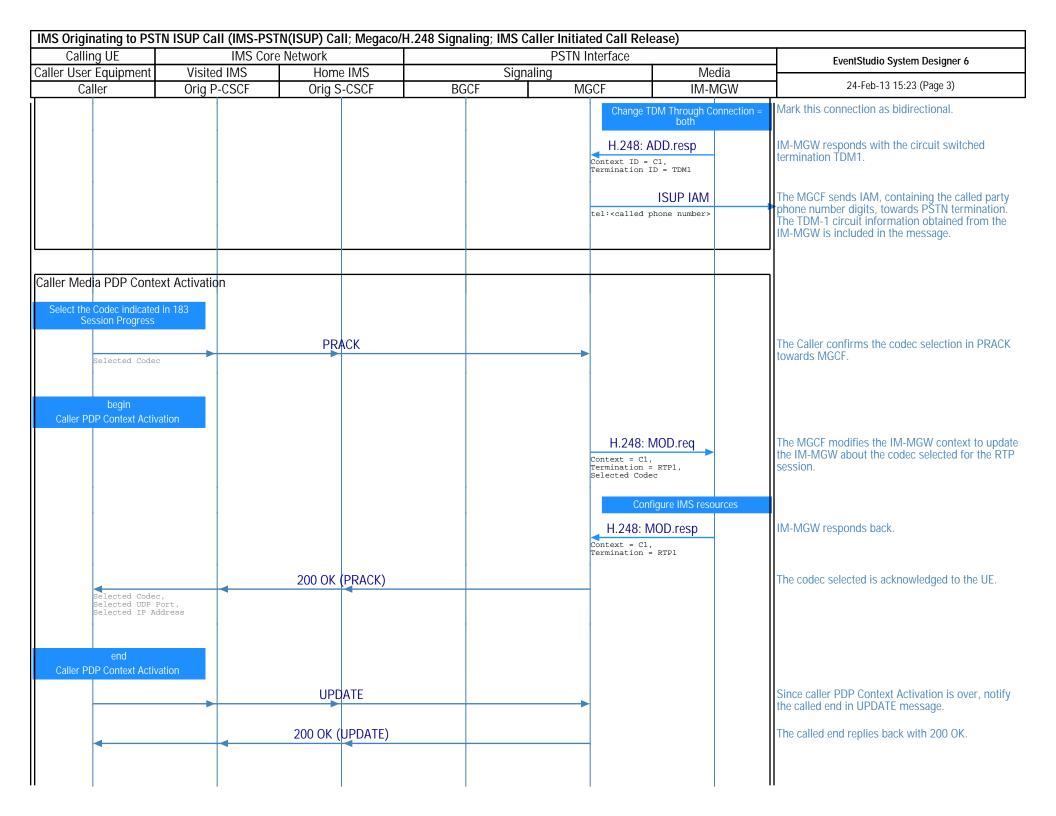
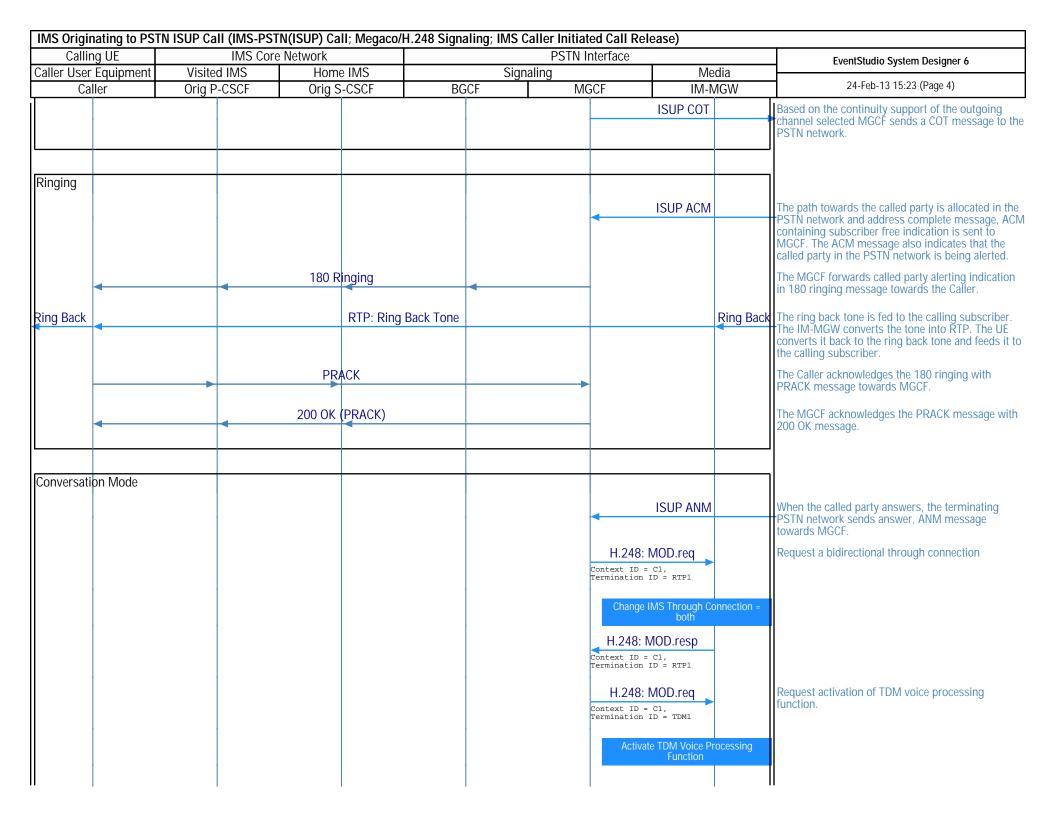
Calling UE	IMS Core	e Network		PSTN Interface		EventStudio System Designer 6
Caller User Equipment	Visited IMS	Home IMS	Sigr	naling	Media	Evente tadio o your Doorginer o
Caller	Orig P-CSCF	Orig S-CSCF	BGCF	MGCF	IM-MGW	24-Feb-13 15:23 (Page 1)

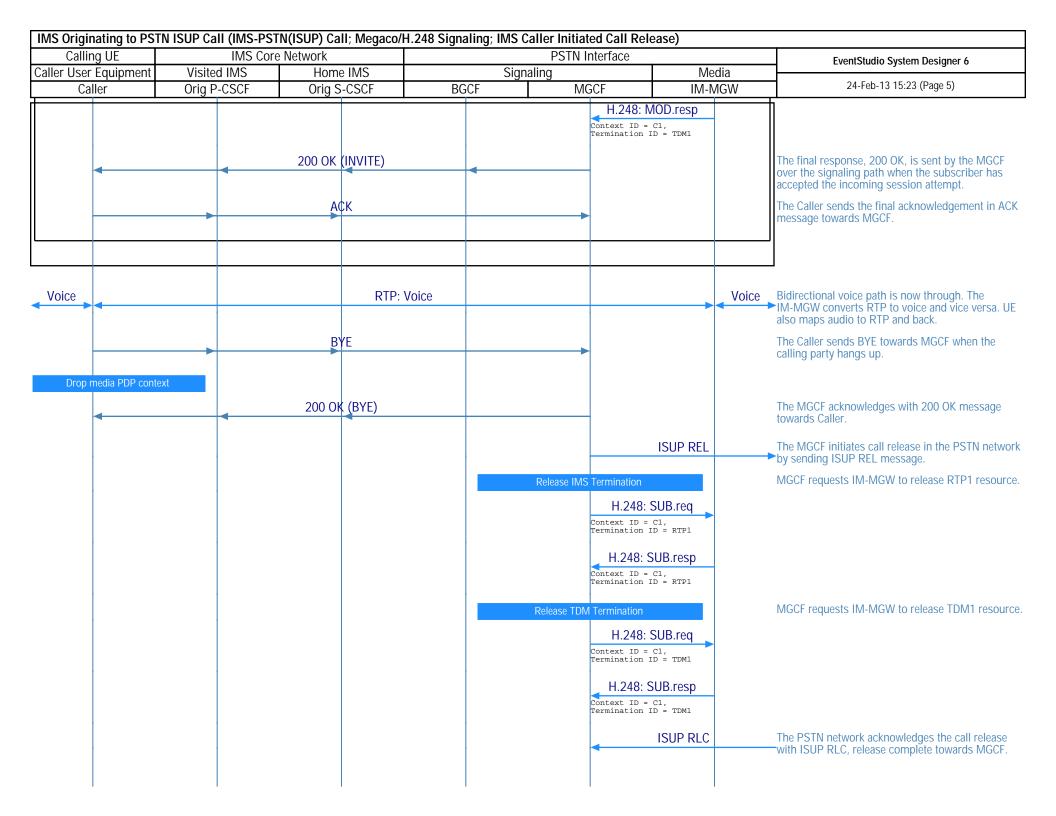
bearer termination TDM1 is used for bearer towards PSTN CS network element.











			H.248 Signaling; IMS Ca	ller Initiated Call Releas	se)	
Calling UE	IMS Cor t Visited IMS	re Network Home IMS	Cianal	PSTN Interface	Modio	EventStudio System Designer 6
Caller User Equipmen Caller	Orig P-CSCF	Orig S-CSCF	Signal BGCF	MGCF	Media IM-MGW	24-Feb-13 15:23 (Page 6)
	•		ner (http://www.EventHel	-		
I		I	I	I		

Calling UE		e Network		PSTN Interface		EventStudio System Designer 6 24-Feb-13 15:23 (Page 7)
aller User Equipment	Visited IMS	Home IMS	- v	naling	Media	
Caller	Orig P-CSCF	Orig S-CSCF	BGCF	MGCF	IM-MGW	
ontrol Function). The Marer termination TDM1	GCF uses one contex is used for bearer to	t with two terminations wards PSTN CS netwo	in IM-MGW (Media Gate	eway). The termination R	GCF (Border Gateway C RTP1 is used towards I	control Function) to the MGCF (Media Gatewa MS Core network subsystem entity and the
MS to PSTN(ISUP) call	setup					
Voice		RTP	: Voice		Voice	Bidirectional voice path is now through. The MM-MGW converts RTP to voice and vice versa. It also maps audio to RTP and back.
				4	ISUP REL	The call release initiated in the PSTN network is received by MGCF is ISUP REL message.
4	-	ВУЕ				The MGCF responds with call release by sending BYE message towards the Caller.
				Release IMS Termination	CUD as a	MGCF requests IM-MGW to release RTP1 resour
				H.248: Context ID = Termination I	SUB.req C1, ID = RTP1	
				H.248: S Context ID = Termination I		
				Release TDM Termination		MGCF requests IM-MGW to release TDM1 resou
				H.248: Context ID = Termination I	SUB.req C1, ID = TDM1	
				H.248: S Context ID = Termination I		
					ISUP RLC	After performing RTP1 and TDM1 resource release Complete message, ISUP R towards the PSTN network.
Drop media PDP contex	it	200 OK (BYE)				The Caller acknowledges the BYE by sending 20 OK towards MGCF.
is sequence diagram v	/vas generated with Ev	rentStudio System D <u>esi</u>	gner (http://www.EventH	lelix.com/EventStudio).		

IMS Origin	nating to PST	N ISUP Ca	II (IMS Netwo	rk Initiate	s Call Rele	ase)						
	ng UE	VP - 12	IMS Core Network ted IMS Home IMS			PSTN Interface Signaling Med				5.7	1:-	EventStudio System Designer 6
	Equipment ller	Visite Orig P	C-CSCF	Orig S		BG	Sign GCF	aling MG	CF	Med IM-M		24-Feb-13 15:23 (Page 8)
bearer term	nination TDM I	the call set MGCF uses 1 is used fo	up from one II one context w or bearer towa	MS subscr ith two ter rds PSTN	riber to ISUI minations i CS networl	k element.				GCF (Border TP1 is used	Gateway (towards I	Control Function) to the MGCF (Media Gateway MS Core network subsystem entity and the
This seque	nce diagram i	was genera	ated with Event	Studio Sy	stem Desig	ner (http://v	vww.EventH 	elix.com/Eve	ntStudio).			
IMS to PS	TN(ISUP) cal	l setup										
Voice	ВУ	E	BYE		RTP:		YE			•	Voice	Bidirectional voice path is now through. The IM-MGW converts RTP to voice and vice versa. UE also maps audio to RTP and back. The Orig S-CSCF initiates call release by sending BYE towards MGCF and the Caller.
Drop r	media PDP conte		200 OK (BYE)	•	200 OF	((BYE)					DTE towards intest and the saliet.
										ISUP REL		The MGCF initiates call release in the PSTN network by sending ISUP REL message.
								Release IMS	Termination			MGCF requests IM-MGW to release RTP1 resource.
								Release TDM	H.248: S Context ID = 1 Fermination I H.248: S Context ID = 1 Termination H.248: S Context ID = 1 Termination I	C1, D = RTP1 SUB.resp C1, D = RTP1 SUB.req C1,		MGCF requests IM-MGW to release TDM1 resource.
									H.248: S	C1,		The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGCF.
This seque	nce diagram	was genera	ated with Event	Studio Sy	stem Desig	ner (http://v	vww.EventH I	elix.com/Eve	ntStudio).			

Caller User Equipment Visited IMS Home IMS Signaling Media Caller Orig P-CSCF Orig S-CSCF BGCF MGCF IM-MGW 24-feb-13 15/23 (Page 9) This call flow describes the call solup from one IMS subscriber to ISUP PSTN termination. The call is routed via the BGCF (Border Gateway Control Function) to the MGCF (Media Gateway). The termination RTP1 is used towards IMS Core network subsystem entity and the bearer termination IDM1 is used for bearer towards PSTN Cos network element. This sequence diagram was generated with EventStudio System Designer (http://www.EventHelix.com/EventStudio). IMS to PSTN(ISUP) call setup Voice RTP: Voice Bidiractional voice path is now through. The MA-MGW converts RTP to voice and vice versa also maps audio to RTP and back. The MGCF initiates the call release by sending Isuvards the Caller. The MGCF initiates call release by sending IsuP REL. The MGCF initiates call release in the PSTN net voice and vice versa also maps audio to RTP and back. The MGCF initiates call release in the PSTN net voice and vice versa also maps audio to RTP and back. The MGCF initiates call release by sending IsuP REL in essage. MGCF requests IM-MCW to release RTP1 reso H228: SUB req Potential for the PSTN network acknowledges the call release in the PSTN network acknowledges t	Calling UE		re Network		EventStudio System Designer 6			
This call flow describes the call setup from one IMS subscriber to ISUP PSTN termination. The call is routed via the BGCF (Border Galeway Control Function) to the MCCF (Media Galeway). The termination RTP1 is used towards IMS Core network subsystem entity and the bearer termination ITM1 is used for bearer towards PSTN CS network selement. This sequence diagram was generated with EventStudio System Designer (http://www.EventHelix.com/EventStudio). [MS to PSTN(ISUP) call setup Voice RTP: Voice REduces MS Termination Reduces MS Termination H_248: SUB requests IM-MGW to release PTP1 reso H_248: SUB requests IM-MGW to release PTP1 reso MGCF requests IM-MGW to release TDM1 reso H_248: SUB requests IM-MGW to release TDM1 reso H_248: SU								
Control Function). The MCCF ruses one context with two terminations in IM-MCW (Modia Gatoway). The termination RTP1 is used towards IMS Core network subsystem entity and the bearer terminator TDM1 is used for bearer two element. This sequence diagram was generated with EventStudio System Designer (http://www.EventHelix.com/EventStudio). IMS to PSTN(ISUP) call setup Voice RTP: Voice	Caller	Orig P-CSCF	Orig S-CSCF	BGCF	MGCF	IM-MGW	24-Feb-13 15:23 (Page 9)	
BYE ISUP REL ISUP REL ISUP REL ISUB REL ISUB REL Release INS Termination H.248: SUB req Determined for 10 = 10 = 10 = 10 = 10 = 10 = 10 = 10	Control Function). bearer termination This sequence diag	The MGCF uses one contexTDM1 is used for bearer to ram was generated with E	kt with two terminations in wards PSTN CS networ	n IM-MGW (Media Gate k element.	eway). The termination	RTP1 is used towards	IMS Core network subsystem entity and the	
The MCCF requests IM-MGW to release RTP1 resorted by sending ISUP REL message. Release IMS Termination H.248: SUB.req Pentext ID = CI, Termination ID = RTP1 Release TDM Termination ID = RTP1 ISUP RLC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The Caller acknowledges the BYE message with OK towards MGCF.	Voice		RTP:	Voice		Voice	IM-MGW converts RTP to voice and vice versa.	
Belease IMS Termination H.248: SUB.req Concext ID = CI. Termination ID = RTP1 H.248: SUB.req Concext ID = CI. Termination ID = RTP1 Release TDM Termination ID = RTP1 H.248: SUB.req Concext ID = CI. Termination ID = RTP1 Release TDM Termination ID = TTM1 H.248: SUB.req Concext ID = CI. Termination ID = TTM1 H.248: SUB.req Concext ID = CI. Termination ID = TTM1 H.248: SUB.req Concext ID = CI. Termination ID = TTM1 The PSTN network acknowledges the call release TDM1 resources the call release	4	-	ВУЕ				The MGCF initiates the call release by sending E towards the Caller.	
H.248; SUB.req context: ID = C1, Fernination ID = RTP1 H.248; SUB.resp context: ID = C1, Fernination ID = RTP1 Release TDM Termination H.248; SUB.req context: ID = C1, Fernination ID = TDM1 H.248; SUB.resp context: ID = C1, Fernination ID = TDM1 H.248; SUB.resp context: ID = C1, Fernination ID = TDM1 ISUP RLC The PSTN network acknowledges the call releating to the context of the context						ISUP REL	The MGCF initiates call release in the PSTN networks sending ISUP REL message.	
Context: ID = CL, Termination ID = RTP1 H.248: SUB.resp Context: ID = CL, Termination ID = RTP1 Release TDM Termination H.248: SUB.req Context: ID = CL, Termination ID = TDM1 H.248: SUB.resp Context: ID = CL, Termination ID = TDM1 H.248: SUB.resp Context: ID = CL, Termination ID = TDM1 The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The PSTN network acknowledges the BYE message with OK towards MGCF.							MGCF requests IM-MGW to release RTP1 resou	
H.248: SUB.resp context: ID = CI, Termination: ID = RTPI Release TDM Termination H.248: SUB.req Context: ID = CI, Termination: ID = TDMI H.248: SUB.resp Context: ID = CI, Termination: ID = TDMI ISUP RLC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The Caller acknowledges the BYE message with OK towards MGCF.					Context ID :	= C1,		
Release TDM Termination H.248: SUB.req Context ID = C1, Termination ID = TDM1 H.248: SUB.resp Context ID = C1, Termination ID = TDM1 ISUP RLC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC Drop media PDP context The Caller acknowledges the BYE message with OK towards MGCF.								
H.248: SUB.req Context ID = C1, Termination ID = TDM1 H.248: SUB.resp Context ID = C1, Termination ID = TDM1 ISUP RLC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC Drop media PDP context 200 OK (BYE) The Caller acknowledges the BYE message with OK towards MGCF.								
Context ID = C1, Termination ID = TDM1 H.248: SUB.resp Context ID = C1, Termination ID = TDM1 ISUP RLC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC Drop media PDP context The Caller acknowledges the BYE message with OK towards MGCF.							MGCF requests IM-MGW to release TDM1 reso	
Drop media PDP context 200 OK (BYE) Context ID = C1, Termination ID = TDM1 ISUP RLC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The Caller acknowledges the BYE message with OK towards MGCF.					Context ID :	= C1,		
Drop media PDP context 200 OK (BYE) The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC The Caller acknowledges the BYE message with OK towards MGCF.					H.248:	SUB.resp		
Drop media PDP context 200 OK (BYE) The Caller acknowledges the BYE message with OK towards MGCF.								
200 OK (BYE) The Caller acknowledges the BYE message with OK towards MGCF.					4	ISUP RLC	The PSTN network acknowledges the call release with ISUP RLC, release complete towards MGC	
OK towards MGCF.	Drop media PDF	context	200 OK (BVE)				The Caller asknowledges the DVF massage with	
This sequence diagram was generated with EventStudio System Designer (http://www.EventHelix.com/EventStudio).		•	ZUU OK (RAF)		-		OK towards MGCF.	
	This sequence diag	ram was generated with E	ventStudio System Desig	ner (http://www.EventH	elix.com/EventStudio).			