





IMS Origi Callin		PSTN ISUP (Call (Called IMS Core I		bscriber l	nitiates Rel		nterface			
Caller Equip	User	Visited		Home	e IMS		Signaling	incitaCE	Me	edia	EventStudio System Designer 6
Cal	ler	Orig P	•	Orig S		BG		GCF	•	MGW	24-Feb-13 15:23 (Page 4)
Control Fu	ow descrit nction). Th nination T	ne MGCF use DM1 is used	setup from o es one conte d for bearer t	ext with two cowards F	o termina PSTN CS n	tions in IM- etwork elen	MGW (Media Gatewa ₎ nent.	y). The ter	mination RT	P1 is used	Gateway Control Function) to the MGCF (Media Gateway towards IMS Core network subsystem entity and the
							nttp://www.EventHelix				
IMS to PS	TN(ISUP)	call setup									
Voice	◀				RTP:	Voice			-	Voice	Bidirectional voice path is now through. The IM-MGW converts *RTP to voice and vice versa. UE also maps audio to RTP and
									ISUP REL		back. The call release initiated in the PSTN network is received by
				B۱	Œ						MGCF is ISUP REL message. The MGCF responds with call release by sending BYE message towards the Caller.
							Release IMS	Termination			MGCF requests IM-MGW to release RTP1 resource.
								H.248:	SUB.req		
									n ID = RTP1		
								Context ID	SUB.resp = C1, n ID = RTP1		
							Release TDM	 Terminatior 	1		MGCF requests IM-MGW to release TDM1 resource.
								Context ID	SUB.req		
								H.248:	SUB.resp		
								Context ID Termination	n ID = TDM1		
									ISUP RLC	•	After performing RTP1 and TDM1 resource release, MGCF sends release complete message, ISUP RLC towards the PSTN network.
Drop n	nedia PDP co	ntext									
		•		200 Ok	(BYE)		•				The Caller acknowledges the BYE by sending 200 OK towards MGCF.
This seque	ence diagra	am was gene	erated with E	ventStud	io System	Designer (h	nttp://www.EventHelix	.com/Ever	tStudio).		

Callir	inating to Ps		IMS Core	Network		Release)	C:	PSTN Ir	nterface	ъл	dia	EventStudio System Designer 6
Equip	r User oment Iler	Visited Orig P		Home Orig S		BG	Signa	aling MG	GCF	Me IM-N		24-Feb-13 15:23 (Page 5)
												Gateway Control Function) to the MGCF (Media Gateway towards IMS Core network subsystem entity and the
											4300	and the
	ence diagrar		erated with	EventStudi	o Systém I	Jesignér (h	πρ://www.l	eventHelix.	com/Event	studio).		
Voice	STN(ISUP) c	all setup			RTP:	Voice					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.
	■ BY		BY	/E		B\	ľΕ	-				The Orig S-CSCF initiates call release by sending BYE towards MGCF and the Caller.
Drop n	nedia PDP cont 200 OK		200 OK	(BYE)		200 Ok	(BYE)					
										SUP REL		The MGCF initiates call release in the PSTN network by sending PISUP REL message.
								Release IMS				MGCF requests IM-MGW to release RTP1 resource.
									H.248: S Context ID = Termination			
									H.248: S			
									Context ID = Termination	ID = RTP1		MGCF requests IM-MGW to release TDM1 resource.
								Release TDM	H.248: \$			
									Context ID = Termination	ID = TDM1		
									H.248: S Context ID = Termination			
									4	SUP RLC		The PSTN network acknowledges the call release with ISUP TRLC, release complete towards MGCF.
This seque	 ence diagrar 	n was gene	erated with	EventStudi	o System [Designer (h	nttp://www.l	EventHelix.	com/Event	Studio).		

IMS Origi Callir		PSTN ISUP	Call (MGCF IMS Core		Call Releas	se)	PSTN I	nterface			
Caller Equip	User Sment	Visited	d IMS	Home			Signaling		Me		EventStudio System Designer 6
Ca	ller	Orig P		Orig S		BG ISUP PST		GCF II is routed	IM-N		24-Feb-13 15:23 (Page 6) Gateway Control Function) to the MGCF (Media Gateway
Control Fu bearer teri	inction). The mination Tl	ne MGCF us DM1 is used	es one cont d for bearer	ext with tw towards F	o terminat PSTN CS ne	ions in IM- etwork elen	MGW (Media Gatewa nent.	/). The ter	mination RT	P1 is used	Gateway Control Function) to the MGCF (Media Gateway towards IMS Core network subsystem entity and the
This seque	ence diagra	am was gen	erated with	EventStud	io System I	Designer (h	ttp://www.EventHelix	com/Ever	ntStudio).		
	STN(ISUP)	call setup									
Voice	•				RTP:	Voice			-	Voice	Bidirectional voice path is now through. The IM-MGW converts PRTP to voice and vice versa. UE also maps audio to RTP and back.
	•		◀	ВЛ	′E						The MGCF initiates the call release by sending BYE towards the Caller.
									ISUP REL		The MGCF initiates call release in the PSTN network by sending *ISUP REL message.
							Release IMS	Termination	1		MGCF requests IM-MGW to release RTP1 resource.
								Context ID	SUB.req		
								4	SUB.resp		
									n ID = RTP1		MCCF required IM MCW to release TDM1 recourse
							Release TDM		SUB.req		MGCF requests IM-MGW to release TDM1 resource.
								N	n ID = TDM1		
								Context ID	SUB.resp		
								•	ISUP RLC		The PSTN network acknowledges the call release with ISUP TRLC, release complete towards MGCF.
Drop n	 nedia PDP coi 	ntext									
		-		200 OK	(BYE)		-				The Caller acknowledges the BYE message with 200 OK towards MGCF.
This seque	ence diagra	am was gen	erated with	EventStud	io System I	Designer (h	ttp://www.EventHelix	com/Ever	ntStudio).		