PSTN Subscriber to IMS Subscriber Call (PSTN-ISUP Originated Call; IM-MGW Megaco/H.248 Signaling; PSTN Initiated Release)												
PSTN PSTN Equipment PSTN I			nterface		IMS Core Network CSCF Servers					Called UE Called User		Copyright © 2013 EventHelix.com
IM-MGW M		MC	GCF I-		CSCF Term		S-CSCF Term P-CSC		P-CSCF	Equipment Called		10-Jan-13 16:37 (Page 1)
This call flo	ow covers t	the handlin	ng of a CS ne GCF receive	etwork orig	ginated ca er indicati	II with ISUP	. In the diag	ram the N	MGCF requoth-way th	uests seizure prough-conne	of the IM	CN subsystem side termination and CS network side ninations.
							http://www.E					
ISUP IAM F	landling ar		1-MGW and									
(Mn) Intera	ctions											
ISUP: IAM												The CS Network establishes a bearer path to the IM-MGW, and signals to the MGCF with a IAM message, giving the trunk identity, destination information and optionally the continuity
												indication. The message is routed to MGCF via the Signaling Gateway (SGW).
Select IM-MGW			M-MGW									The MGCF selects the IM-MGW based on the received circuit identity in the IAM.
												Request addition of a new context and termination. The MGCF
H.248: ADD.req Context ID = ?, Termination ID = ?, Reserve IMS Connection Point Change Through-Connection =												use's the Reserve IMS Connection Point procedure. Within this procedure, the MGCF indicates the local codecs and requests a local IP address and UDP port from the IM-MGW. The local IP
			both									address and UDP port are used by the IM-MGW to receive user plane data from the IM CN subsystem.
												The IM-CN responds back with Context "C1" and a TDM side
H.248: ADD.req												termination "TDM-1".
	ermination ID :											
	H.248: A	ADD.rea										Request addition of an RTP termination to the "C1" context. Change IMS Through Connection = backward.
	Context ID = C1 Termination ID =		•									
												The IM-MGW adds the "RTP-1" termination to the "C1" context.
	H.248: A											At this point "TDM-1" is a circuit switched termination and "RTP-1" is a RTP based IP termination for communicating with the terminating IMS subscriber.
Ţ	ermination ID =	= RTP-1										the terminating livis subscriber.
	Initial Har	ndshake be	tween MGC	F and IMS	CSCF Se	rvers						
			18.18.77									The MGCF initiates an INVITE request, containing an initial SDP, as per the proper S-CSCF to S-CSCF procedure. The INVITE is first sent to the I-CSCF to identify the S-CSCF serving the called
			INVI INVITE tel:1- Via: <mgcf>;k</mgcf>	-811-CALLED	SIP/2.0,							first sent to the I-CSCF to identify the S-CSCF serving the called user.
			Route: <i-csc P-Asserted-Id <tel:+1-811-c Contact: <sir< td=""><td>dentity: CALLER>, o:MGCF>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></sir<></tel:+1-811-c </i-csc 	dentity: CALLER>, o:MGCF>,								
			m=audio 3456 a=curr:qos lo a=curr:qos re a=des:qos mar	ocal none, emote none, ndatory loca	al sendrecv	,						
			a=des:qos nor	ie remote se	narecv							
			100 T	rying								The I-CSCF acknowledges the INVITE that was received from P-CSCF.
			Query HS:	S to identify Dia	the S-CSCF t llog	or this SIP						Query the HSS to obtain the S-CSCF for the user.
						VITE :1-811-CALLED	SIP/2.0,					
							INVI		GTD /2 0			The public URI in the SIP INVITE is replaced with the called subscriber's registered IP address and port number. The message is routed to the P-CSCF IP address that was recorded
								-811-CALLED	S1P/2.0,			at the time of registration. The Via and Record-Route headers are updated.
									IN	IVITE		The P-CSCF updates the Via and Route-Record headers and forwards the request to the Called UE. Note that the secure port
										:1-811-CALLED	SIP/2.0,	is included in the Via address specification.
					100	Trying	-					
							100 Ti	rying				
									Prepar betwee	e a list of Codec en the Caller and	s common the Called	The Caller examines the SDP list of available codec. It prunes the list by excluding codecs that are not supported by the called
										subscriber		list by excluding codecs that are not supported by the called subscriber. This list will be included in the 183 message sent to the caller.
				on Progr	183 Ses	sion Progr	183 Sessi	on Progr	183 Ses	ssion Progr		The UE replies indicating that the session is in progress. The contact address is set its own IP address. The Via and the Record-Route headers are copied from the received INVITE.
			Via: <mgcf>, Record-Route: S-CSCF> <mgcf Contact: <cal< td=""><td>?>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>record reduce readers are copied from the received invite.</td></cal<></mgcf </mgcf>	?>,								record reduce readers are copied from the received invite.
			IP> :Port, m=audio 6544 96, a=curr:qos lo	ocal none,								
			a=curr:qos re a=des:qos mar local sendrec a=des:qos mar	emote none, ndatory cv, ndatory								
			remote sendre	ecv								
Mn Interact	ions for Co	odec select	ion									





