Calling UE	Franklindia C. J. D. J. C.						
Caller User Equipment	Visited IMS 1 Orig P-CSCF	Home IMS 1 Orig S-CSCF	IMS Network Home IMS 2			Called UE  Called User  Equipment	EventStudio System Designer 4.0
Caller			Term I-CSCF	Term S-CSCF	Term P-CSCF	Called	15-Dec-07 08:21 (Page 1)
S Routing of Initia	al SIP INVITE	1	I		1	l l	
INVITE call P-Preferred <caller@him <c<="" <calli="" <p-c="" <s-c="" contact:="" route:="" td="" via:=""><td></td><td></td><td></td><td></td><td></td><td></td><td>The SIP phone sends the invite to called@hims2.net. The message contains Route entries for the terminal and the S-C3 address that was extracted from the Service-Route header in the registration "2 OK" message. Security ports setup for IPS SA establishment are used. "To" and "From headers are also included in the message. These headers do not play a role in call processing.</td></caller@him>							The SIP phone sends the invite to called@hims2.net. The message contains Route entries for the terminal and the S-C3 address that was extracted from the Service-Route header in the registration "2 OK" message. Security ports setup for IPS SA establishment are used. "To" and "From headers are also included in the message. These headers do not play a role in call processing.
Make su	re that INVITE was received IPSec Security Association						The INVITE was sent using the registration time SA so the P-CSCF accepts the reques
Make sui	re that the preferred public currently registered	identity is					P-CSCF verifies that the preferred public identity specified in the INVITE is currently registered. The S-CSCF address for the user was obtain at the time of registration (Service-Route header in the "200 OK" response to the REGISTER message.)
Use DNS	to translate from scscf1.hir 'Orig S-CSCF' IP address	ms1.net to					The originating P-CSCF queries the DNS to obtain the IP address of the S-CSCF in the called subscriber's home network. The S-CSCF address for the user was obtained the time of registration (Service-Route her in the "200 OK" response to the REGISTER message).
	INVITE calle P-Asserted- <caller@him Via: <orig! Record-Rout Route: <orig Contact: <c< td=""><td>s1.net&gt;, P-CSCF&gt; <calling-ue>, a: <orig p-cscf="">,</orig></calling-ue></td><td></td><td></td><td></td><td></td><td>The P-CSCF replaces the preferred identity header with the asserted identity header a forwards the message to the S-CSCF in th home network. It adds a Record-Route he with its own address.</td></c<></orig </orig! </caller@him 	s1.net>, P-CSCF> <calling-ue>, a: <orig p-cscf="">,</orig></calling-ue>					The P-CSCF replaces the preferred identity header with the asserted identity header a forwards the message to the S-CSCF in th home network. It adds a Record-Route he with its own address.
<b>4</b> 100 -	Trying						The P-CSCF just acknowledges the INVITE the UE. The "100 Trying" message indicate that the call setup is in progress.
	<b>4</b> 100 1	rying					The S-CSCF acknowledges the INVITE that was received from P-CSCF.
S Routing of First	: Response to the SIP	Invite			I	I	
	Via: <orig record-route="" s-cscf=""  =""> <or:< td=""><td>p-CSCF&gt; <calling-ue>, e: <term s-cscf=""> <orig ig P-CSCF&gt;, g supported by Caller</orig </term></calling-ue></td><td></td><td></td><td></td><td></td><td></td></or:<></orig>	p-CSCF> <calling-ue>, e: <term s-cscf=""> <orig ig P-CSCF&gt;, g supported by Caller</orig </term></calling-ue>					
Obtain a	 n media authorization token   PDF 	from the					The originating P-CSCF requests the Polic Decision Function (PDF) to generate a me authorization token. The token will be incli

Calling UE			IMS Network			Called UE	Francisco de la Contraction de
Caller User Equipment Caller	Visited IMS 1 Orig P-CSCF	Home IMS 1 Orig S-CSCF	Home IMS 2			Called User Equipment	EventStudio System Designer 4.0
			Term I-CSCF	Term S-CSCF	Term P-CSCF	Called	15-Dec-07 08:21 (Page 2)
							in the "183 Session Progress" sent to the originating UE.
Via: <calli Record-Rout <orig s-csc<br="">SDP: <codec and Called&gt; P-Media-Aut</codec </orig></calli 	e: <term s-cscf="">;port F&gt; <orig p-cscf="">, s supported by Caller , horization</orig></term>						Just like other nodes, the Orig P-CSCF removes its own entry from the Via header The P-CSCF also updates the Record-Rouheader to include the protected port numits entry. This forces the terminal to send responses using the protected IPSec SA. message also includes the media authoritoken. This token will have to be passed to GGSN in the PDP context activation requirements.
	on and Audio/Video F	•	T	T		1	
h	ted Codec>, SDP: <selec< td=""><td></td><td></td><td></td><td></td><td></td><td>The Caller now sends a PRACK to inform called subscriber about the selected Code The message also indicates that currently resources needed for meeting the quality service requiements of the session are no available.</td></selec<>						The Caller now sends a PRACK to inform called subscriber about the selected Code The message also indicates that currently resources needed for meeting the quality service requiements of the session are no available.
SDP: <selec <local-qos:<="" td=""><td>ted Codec&gt;, SDP: <selec< td=""><td></td><td></td><td></td><td></td><td></td><td>The called subscriber acknowledges the PRACK. The message also indicates that quality of service for the session is not m the called subscriber.</td></selec<></td></selec>	ted Codec>, SDP: <selec< td=""><td></td><td></td><td></td><td></td><td></td><td>The called subscriber acknowledges the PRACK. The message also indicates that quality of service for the session is not m the called subscriber.</td></selec<>						The called subscriber acknowledges the PRACK. The message also indicates that quality of service for the session is not m the called subscriber.
UPE SDP: <local sendrecv&gt;</local 	<del></del>	OATE -oos:					Since the caller PDP context has been activated, notify the called end that the c can now meet the quality of service in th send and receive direction.
<b>◄</b>	OOK 200	OK -QOS: none>					The caller replies back to the called user that the Local QoS is still set to none as called PDP context activation has not be completed.
180 R	tinging 180 R	inging					Inform the caller that the called subscrib being rung. This serves as an implicit indication to the caller that the QoS at th called side has also been met.
PR	ACK PR	ACK					The caller acknowledges the ringing mes
<b>4</b> 200	O OK 200	OK					The called subscriber acknowledges the PRACK.
200	O OK 200	OK					Notify the caller that that the call has been answered.
A	CK AC	CK					The caller acknowledges the "200 OK" message. The call is now ready to enter conversation mode.