Calling UE		Called UE					
Caller User Equipment	Visited IMS 1 Orig P-CSCF	Home IMS 1 Orig S-CSCF	IMS Network Home IMS 2			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						
INVITE call P-Preferred <caller@him Via: <calli Route: <p-c Route: <s-c Contact: <c< td=""><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-Ct 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></c<></s-c </p-c </calli </caller@him 							The SIP phone sends the invite to called@hims2.net. The message contains Route entries for the terminal and the S-Ct 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	d over the					The INVITE was sent using the registration time SA so the P-CSCF accepts the reques
	re that the preferred public currently registered						P-CSCF verifies that the preferred public identity specified in the INVITE is currently registered. The S-CSCF address for the user was obta at the time of registration (Service-Route header in the "200 OK" response to the REGISTER message.)
Use DNS	to translate from scscf1.hin '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 hea in the "200 OK" response to the REGISTER message).
	INVITE call P-Asserted- <caller@him Via:<orig Record-Rout Route:<orig Contact:<cr< td=""><td>s1.net>, P-CSCF> <calling-ue>, e: <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></cr<></orig </orig </caller@him 	s1.net>, P-CSCF> <calling-ue>, e: <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.
 <u>100</u>	Trying						The P-CSCF just acknowledges the INVITE the UE. The "100 Trying" message indicate that the call setup is in progress.
	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				
Obtain a	Via: <orig d<br="">Record-Route S-CSCF> <or:< td=""><td>s supported by Caller</td><td></td><td></td><td></td><td></td><td>The originating P-CSCF requests the Policy Decision Function (PDF) to generate a med authorization token. The token will be inclu</td></or:<></orig>	s supported by Caller					The originating P-CSCF requests the Policy Decision Function (PDF) to generate a med authorization token. The token will be inclu

Calling UE	Frankfradia Contan Destance 1.2						
Caller User Equipment	Visited IMS 1	Home IMS 1 Orig S-CSCF	IMS Network Home IMS 2			Called UE Called User Equipment	EventStudio System Designer 4.0
Caller	Orig P-CSCF		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.
183 Session Progress Via: <calling-ue>, Record-Route: <term s-cscf="">;port <orig s-cscf=""> <orig p-cscf="">, SDP: <codecs by="" caller<br="" supported="">and Called>, P-Media-Authorization</codecs></orig></orig></term></calling-ue>							Just like other nodes, the Orig P-CSCF removes its own entry from the Via header The P-CSCF also updates the Record-Route header to include the protected port number its entry. This forces the terminal to send a responses using the protected IPSec SA. T message also includes the media authoriza token. This token will have to be passed to GGSN in the PDP context activation reques
Context Activati	ion and Audio/Video F	Path Setup				1	
	ted Codec>, SDP: <select< td=""><td></td><td></td><td></td><td></td><td></td><td>The Caller now sends a PRACK to inform the called subscriber about the selected Codec. The message also indicates that currently to resources needed for meeting the quality of service requiements of the session are not available.</td></select<>						The Caller now sends a PRACK to inform the called subscriber about the selected Codec. The message also indicates that currently to resources needed for meeting the quality of service requiements of the session are not available.
SDP: <selec <local-qos:< td=""><td>ted Codec>, SDP: <select< 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 met the called subscriber.</td></select<></td></local-qos:<></selec 	ted Codec>, SDP: <select< 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 met the called subscriber.</td></select<>						The called subscriber acknowledges the PRACK. The message also indicates that quality of service for the session is not met the called subscriber.
SDP: <local sendrecv></local 	-QOS: SDP: <local sendrecv></local 						Since the caller PDP context has been activated, notify the called end that the call can now meet the quality of service in the send and receive direction.
	OK 200 -QOS: none> SDP: <local·< td=""><td>OK -QOS: none></td><td></td><td></td><td></td><td></td><td>The caller replies back to the called user. N that the Local QoS is still set to none as th called PDP context activation has not beer completed.</td></local·<>	OK -QOS: none>					The caller replies back to the called user. N that the Local QoS is still set to none as th called PDP context activation has not beer completed.
180 R	tinging180 R	inging					Inform the caller that the called subscriber being rung. This serves as an implicit indication to the caller that the QoS at the called side has also been met.
PR	ACK PR/						The caller acknowledges the ringing messa
200) OK 200	OK					The called subscriber acknowledges the PRACK.
		OK					Notify the caller that that the call has been answered.
A		<u>CK</u> ►					The caller acknowledges the "200 OK" message. The call is now ready to enter conversation mode.