Called Interfaces (Caller and Called are	IMS Subscribers)					
Calling UE			IMS Network			Called UE	EventStudio System Designer 4.0
Caller User	Visited IMS 1	Home IMS 1		Home IMS 2		Called User	15-Dec-07 08:20 (Page 1)
Caller	Oria P-CSCF	Orig S-CSCF	Term I-CSCF	Term S-CSCF	Term P-CSCF	Called	
IMS Routing of Initia	I SIP INVITE	J		1			
					INVITE CALLE P-Asserted-1 <aller@him <tel:+130155 Via: <term f<br="">S-CSCF> <ter S-CSCF> <ter Route: <term Record-Route S-CSCF> <ori Contact: <ce SDP: <caller List>, P-Media-Auth</caller </ce </ori </term </ter </ter </term></tel:+130155 </aller@him 	ITE D-IP SIP/2.0, dentity: 11.nets, 56666s, -CSCF>;port <term m I-CSCF> <orig g P-CSCF> ; P-CSCF>;port, :: <term s-cscf=""> <orig g P-CSCF>, [] lled UE IP> :Port, : Supported Codec torization</orig </term></orig </term 	The P-CSCF updates the Via and Route-Record headers and forwards the request to the Called UE. Note that the secure port is included in the Via address specification. The message also includes the media authorization token. This token will have to be passed to the GGSN in the PDP context activation request.
					Prepare a between	list of Codecs common the Caller and the Called subscriber	The Caller examines the SDP list of available codec. It prunes the 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.
IMS Routing of First	Response to the SIP I	Invite			1	1	
					Via: <term e<br="">S-CSCF> <ter S-CSCF> <ter Record-Route <orig s-cscf<br="">Contact: <ce SDP: <codece and Called></codece </ce </orig></ter </ter </term>	n Progress -CSCF>/port <term m I-CSCF> <orig g P-CSCF> ; : <term s-cscf="">;port > <orig p-cscf="">; lling UE IP> :Port, s supported by Caller</orig></term></orig </term 	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.
PDP Context Activati	ion and Audio/Video P	ath Setup		I			
					PR/ SDP: <select <local-qos:< td=""><td>ACK ed Codec>, none></td><td>The Caller now sends a PRACK to inform the called subscriber about the selected Codec. The message also indicates that currently the resources needed for meeting the quality of service requiements of the session are not available.</td></local-qos:<></select 	ACK ed Codec>, none>	The Caller now sends a PRACK to inform the called subscriber about the selected Codec. The message also indicates that currently the resources needed for meeting the quality of service requiements of the session are not available.
					200 SDP: <select <local-qos:< td=""><td>OK none></td><td>The called subscriber acknowledges the PRACK. The message also indicates that quality of service for the session is not met for the called subscriber.</td></local-qos:<></select 	OK none>	The called subscriber acknowledges the PRACK. The message also indicates that quality of service for the session is not met for the called subscriber.
					Called F	begin PDP Context Activation	The final codec at the called side is decided. So initiate the PDP context activation to allocate resources for meeting the QoS of the terminating leg of the call.
					UPD SDP: <local- sendrecv></local- 	ATE ₂os:	Since the caller PDP context has been activated, notify the called end that the caller can now meet the quality of service in the send and receive direction.
					200 ≤ SDP: <local-< td=""><td>OK QOS: none></td><td>The caller replies back to the called user. Note that the Local QoS is still set to none as the</td></local-<>	OK QOS: none>	The caller replies back to the called user. Note that the Local QoS is still set to none as the

Called Interfaces (Caller and Called are IMS Subscribers)													
Calling UE IMS Network Called UE									EventStudio System Decigner 4.0				
Caller User Equipment		Visited IMS	1 Home	1 Home IMS 1		Home IMS 2			Called User		EventStudio System Designer 4:0		
										Equipment		15-Dec-07 08:20 (Page 2)	
Cal	ier		F Orig :	S-USUF	I erm I-	CSCF	Term :	5-6561	Term	2-636F	Cal	lea	
													completed.
										Called F	end PDP Context A	Activation	The called PDP context activation has been completed. At this point, the caller and the called PDP contexts are both active. The QoS for the call can now be met.
												Ringing	Now all the resources for the call are in place. Ring the called subscriber to notify the user about the incoming call.
										▲ 180 Ri	inging		Inform the caller that the called subscriber is being rung. This serves as an implicit indication to the caller that the QoS at the called side has also been met.
										PRA	ACK		The caller acknowledges the ringing message.
										 200	ОК		The called subscriber acknowledges the PRACK.
												Answer	The called subscriber answers the call.
										▲ 200	ОК		Notify the caller that that the call has been answered.
										AC	CK ━━━━━►		The caller acknowledges the "200 OK" message. The call is now ready to enter conversation mode.
		Con	versation on a direc	t RTP/RTCP c	onnection betw	veen the ca	ller and called	subscriber S	SIP phones.]
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