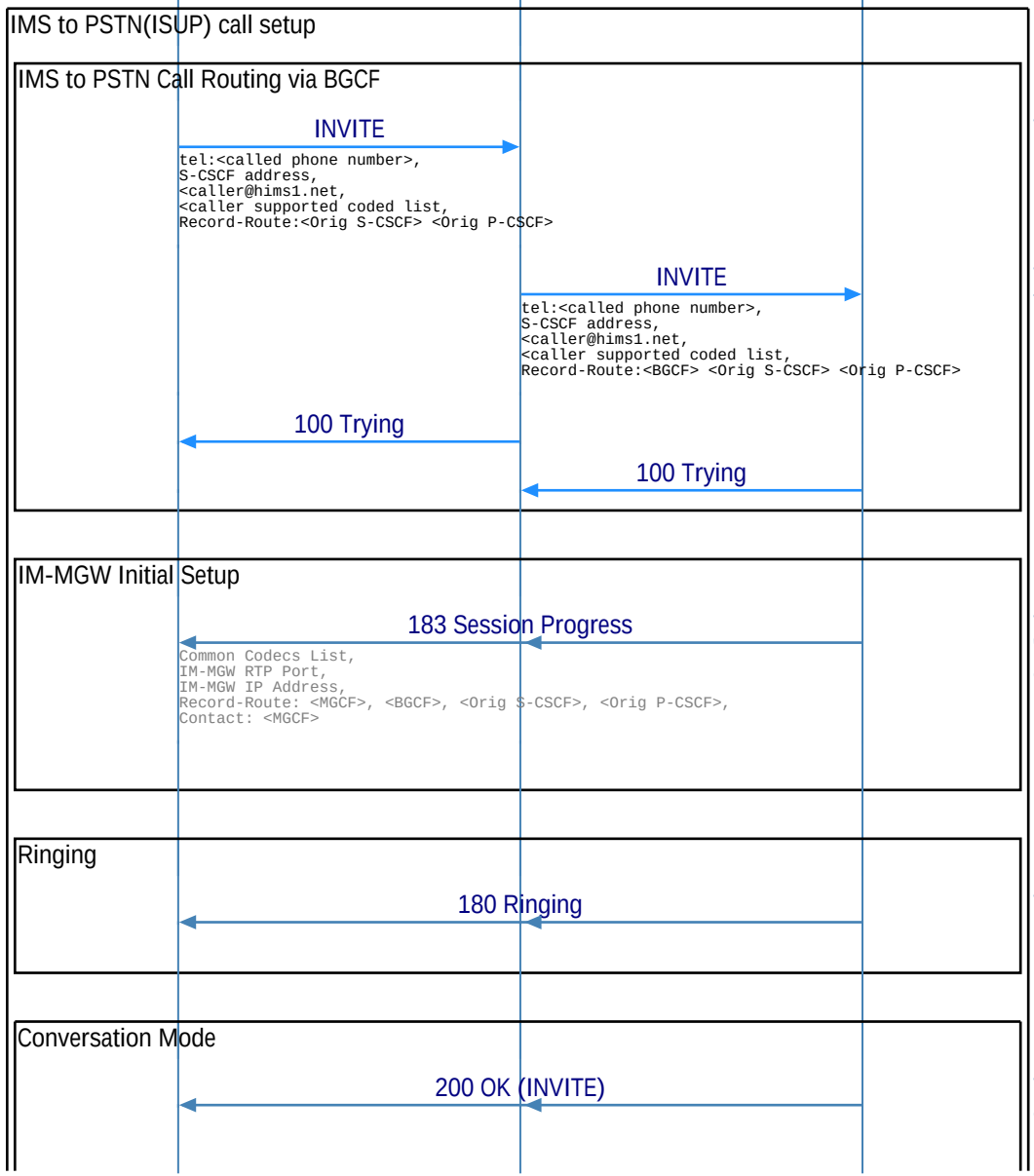
BGCF Interfaces (IMS-PSTN(ISUP) Call; Megaco/H.248 Signaling; IMS Caller Initiated Call Release)			
IMS Core Network	PSTN Interface		**EventStudio System Designer 6**
Home IMS	Signaling		
Orig S-CSCF	BGCF	MGCF	24-Feb-13 15:23 (Page 1)

This call flow describes the call setup from one IMS subscriber to ISUP PSTN termination. The call is routed via the BGCF (Border Gateway Control Function) to the MGCF (Media Gateway Control Function). The MGCF uses one context with two terminations in IM-MGW (Media Gateway). The termination RTP1 is used towards IMS Core network subsystem entity and the bearer termination TDM1 is used for bearer towards PSTN CS network element.

This sequence diagram was generated with EventStudio System Designer (http://www.EventHelix.com/EventStudio).



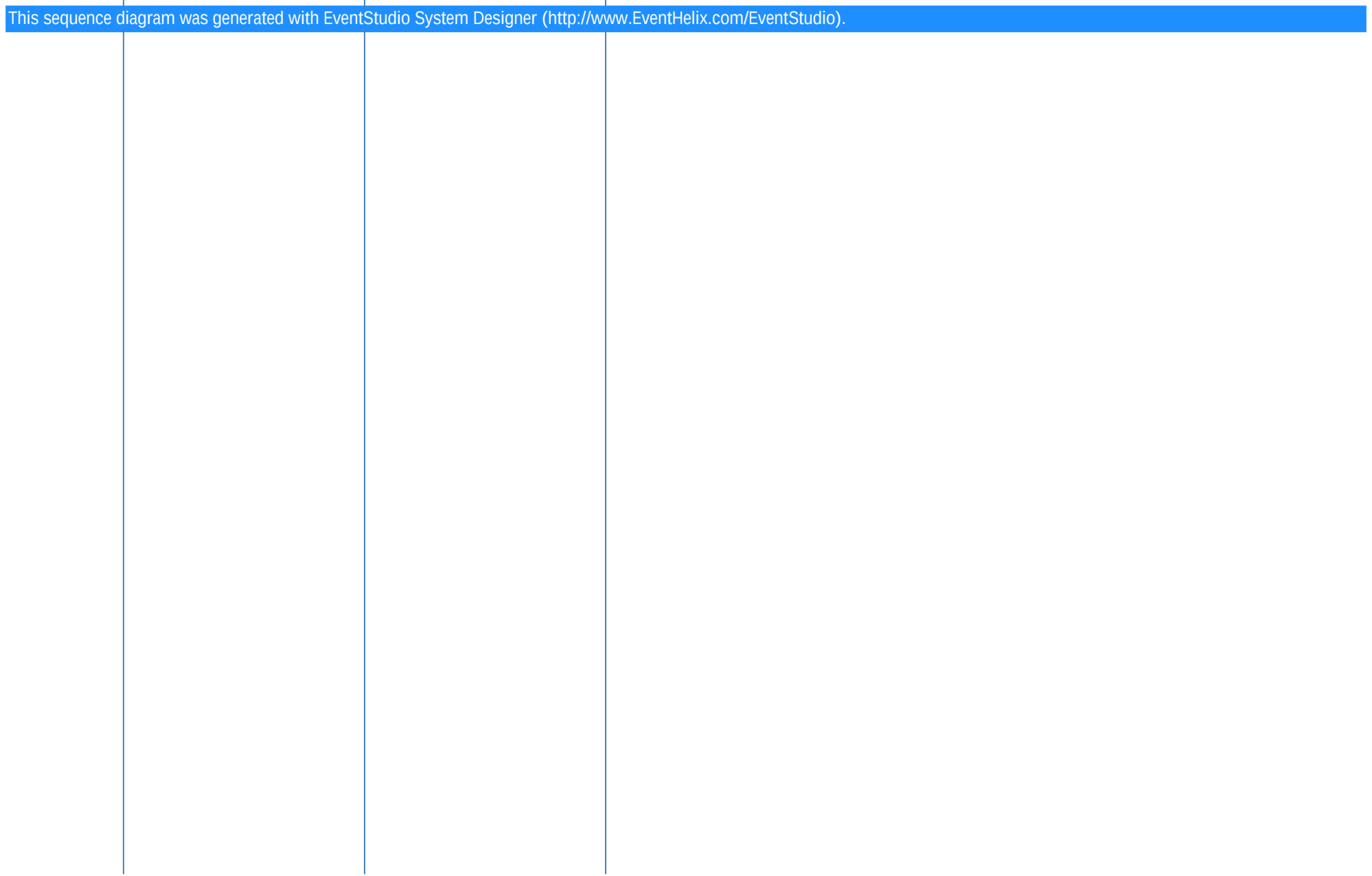
The S-CSCF forwards the INVITE to the local BGCF (Breakout Gateway Control Function) for further routing of the call.

The BGCF selects MGCF in the same network to route the call to the PSTN network. The BGCF forwards the INVITE to MGCF but it does not add itself to the Record-Route header, as it has no need to remain in the signaling path once the session is established.

The MGCF returns the media stream capabilities of the destination along the signaling path in a "183 Session Progress". The IM-MGW "Common Codec List", IP address and the RTP port number are included in the message.

The MGCF forwards called party alerting indication in 180 ringing message towards the Caller.

The final response, 200 OK, is sent by the MGCF over the signaling path when the subscriber has accepted the incoming session attempt.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