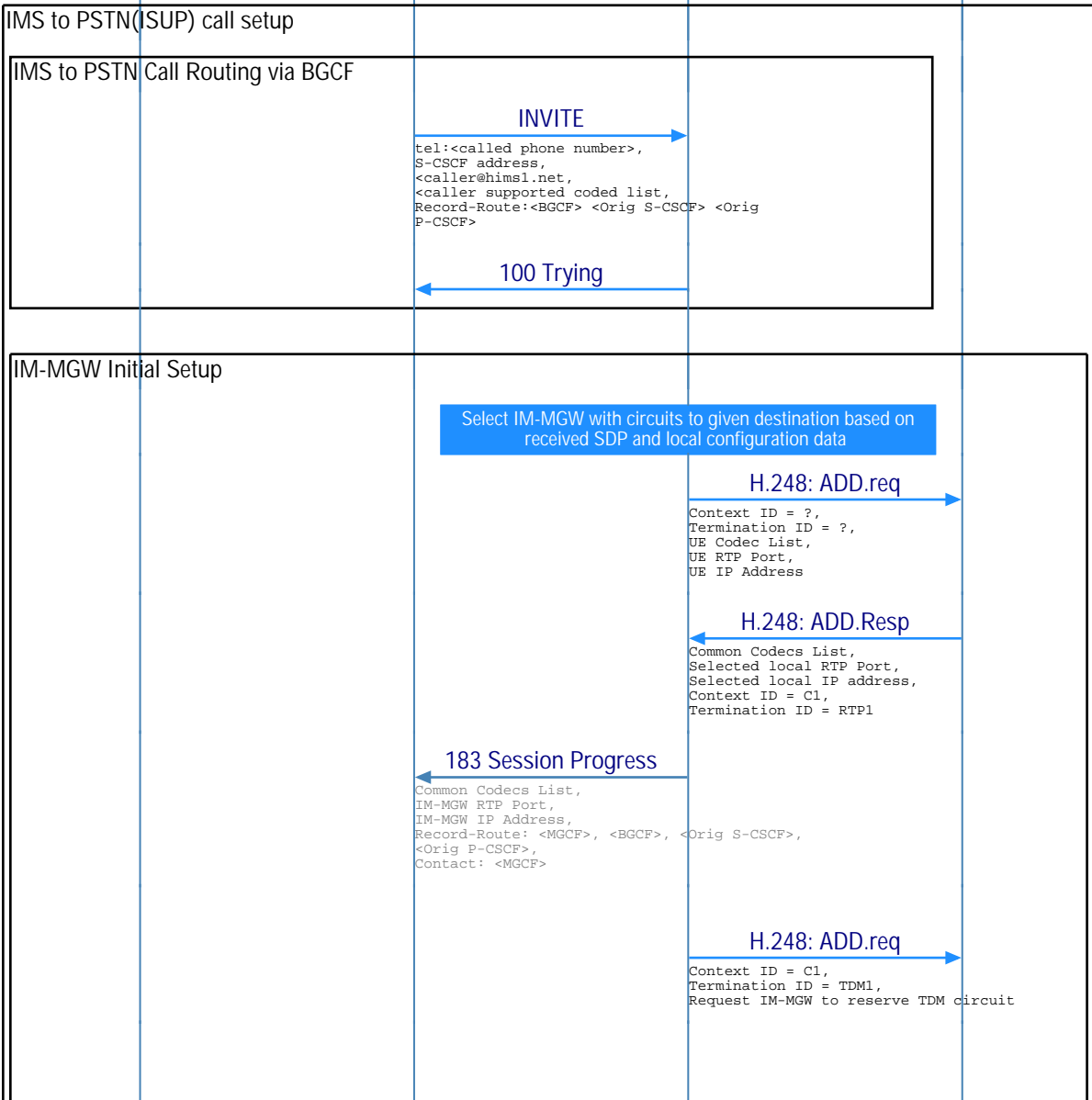


MGCF Interfaces (IMS-PSTN(ISUP) Call; Megaco/H.248 Signaling; IMS Caller Initiated Call Release)				
IMS Core Network	PSTN Interface			EventStudio System Designer 6
Home IMS	Signaling		Media	
Orig S-CSCF	BGCF	MGCF	IM-MGW	24-Feb-13 15:23 (Page 1)

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 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.

MGCF selects IM-MGW to reserve outgoing channel towards the PSTN called party.

MGCF requests the IM-MGW for a new context. The UE codec, IP address and RTP port number is specified in the message.

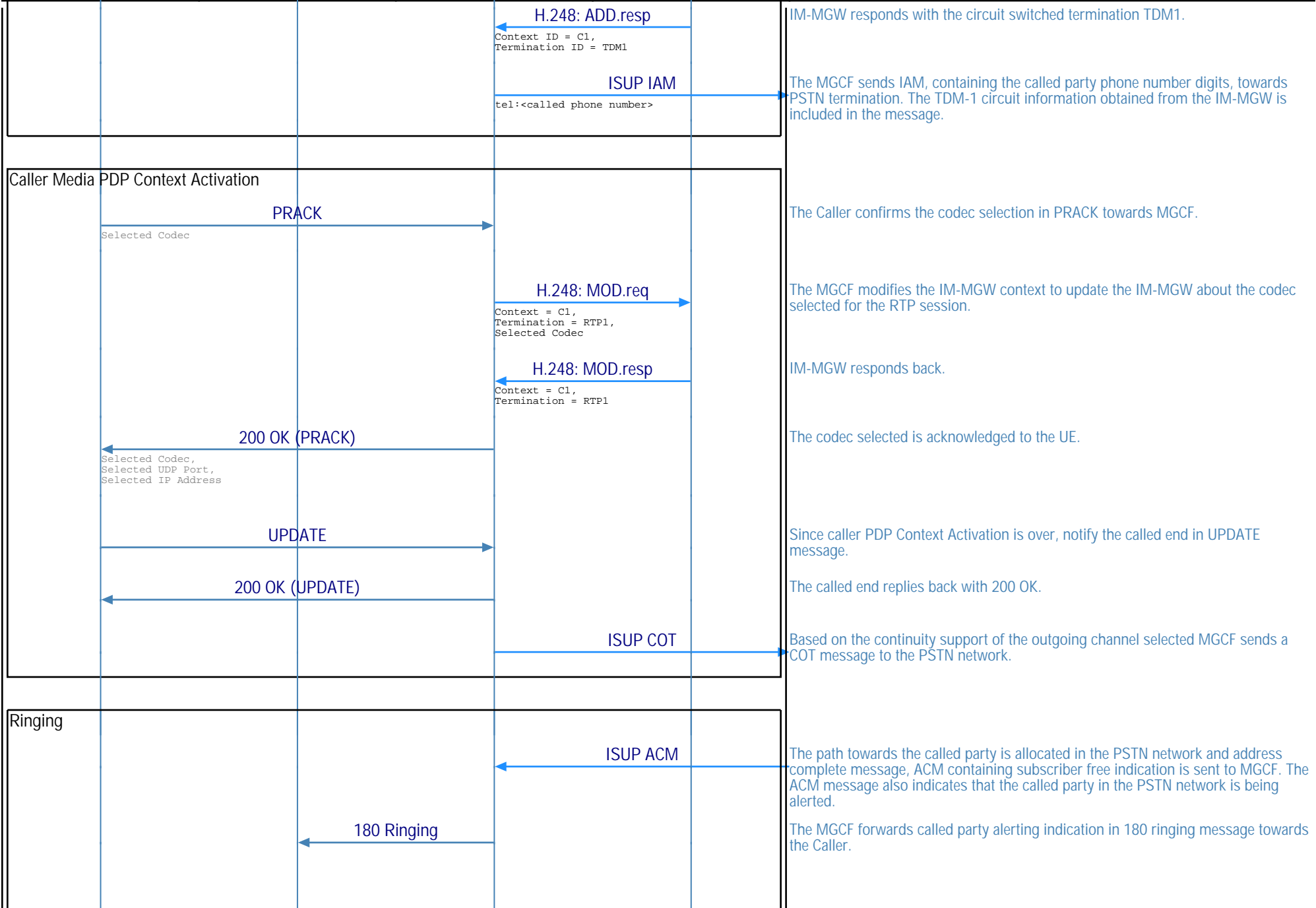
The IM-MGW responds with the allocated context, the common codecs, the local IP address and the RTP port.

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.

Now the MGCF requests the IM-MGW for a circuit switched port towards the PSTN network. Note that the this termination is being requested for the Context C1 that was setup for the RTP connection.

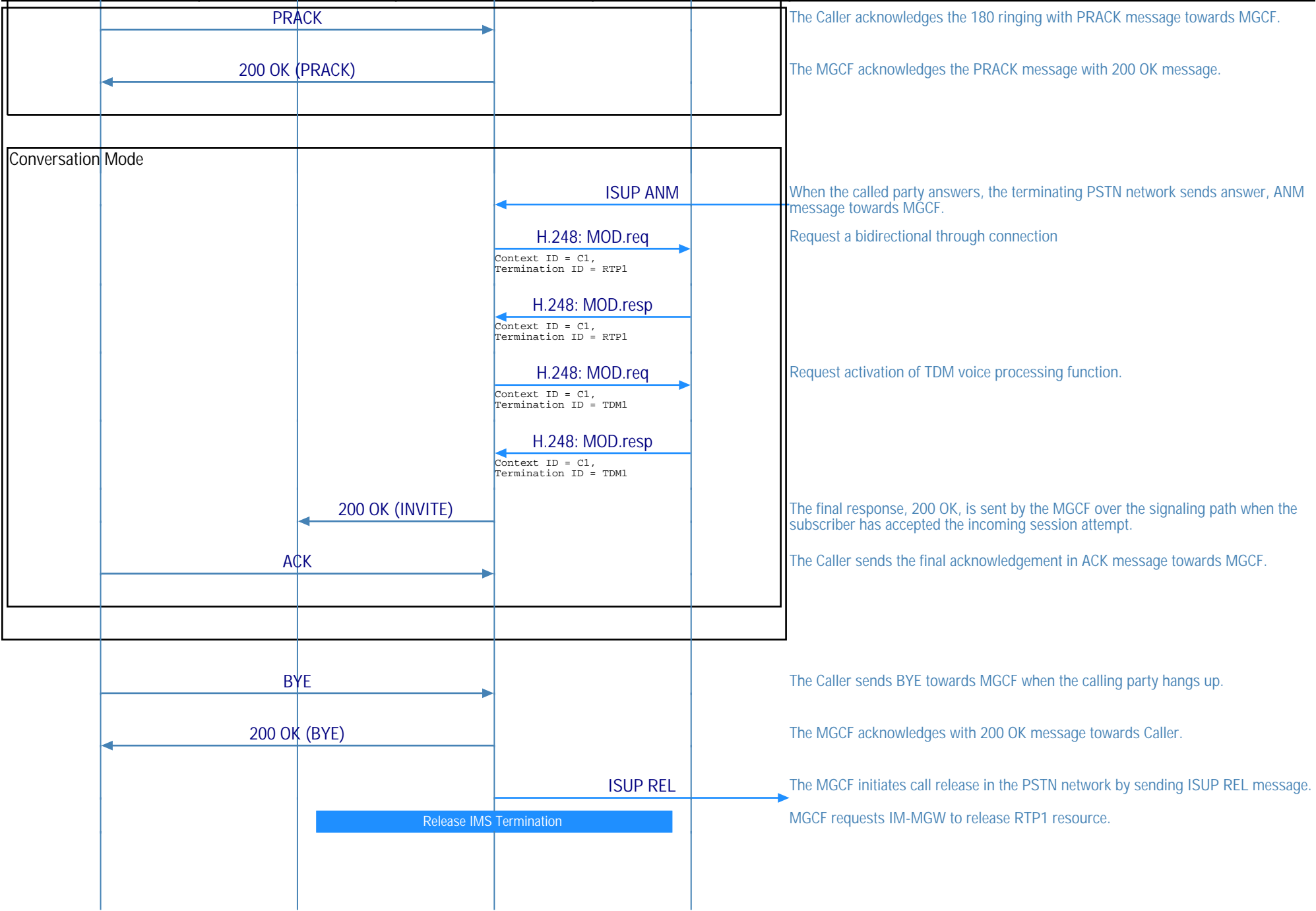
MGCF Interfaces (IMS-PSTN(ISUP) Call; Megaco/H.248 Signaling; IMS Caller Initiated Call Release)

IMS Core Network	PSTN Interface			EventStudio System Designer 6 24-Feb-13 15:23 (Page 2)
Home IMS	Signaling		Media	
Orig S-CSCF	BGCF	MGCF	IM-MGW	

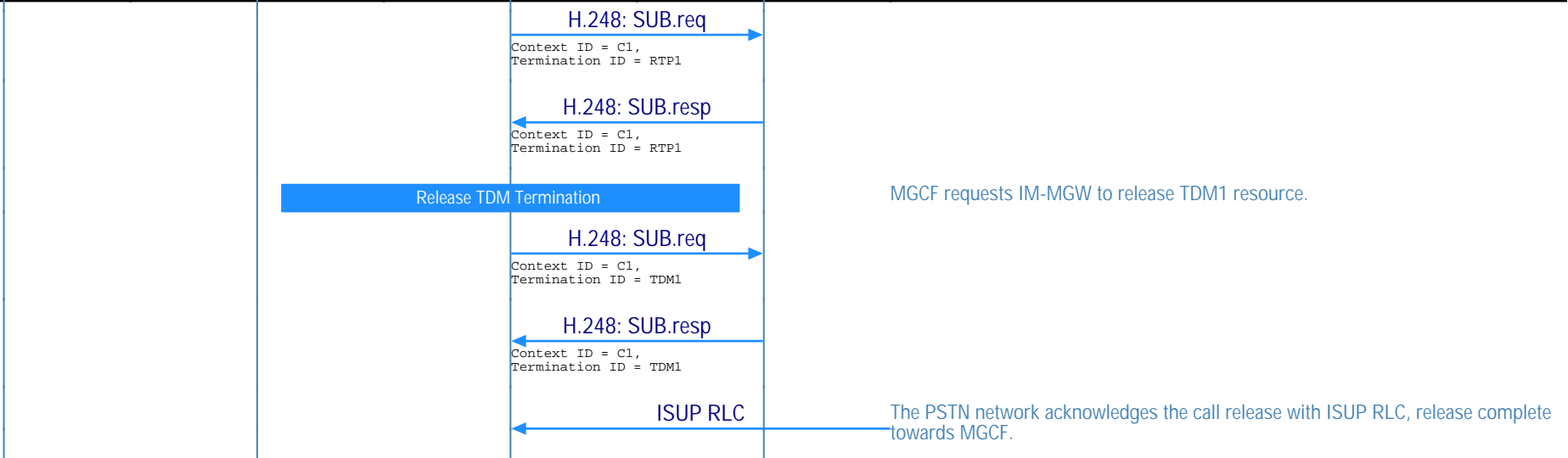


MGCF Interfaces (IMS-PSTN(ISUP) Call; Megaco/H.248 Signaling; IMS Caller Initiated Call Release)

IMS Core Network	PSTN Interface			EventStudio System Designer 6 24-Feb-13 15:23 (Page 3)
Home IMS	Signaling		Media	
Orig S-CSCF	BGCF	MGCF	IM-MGW	



MGCF 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		Media	
Orig S-CSCF	BGCF	MGCF	IM-MGW	24-Feb-13 15:23 (Page 4)



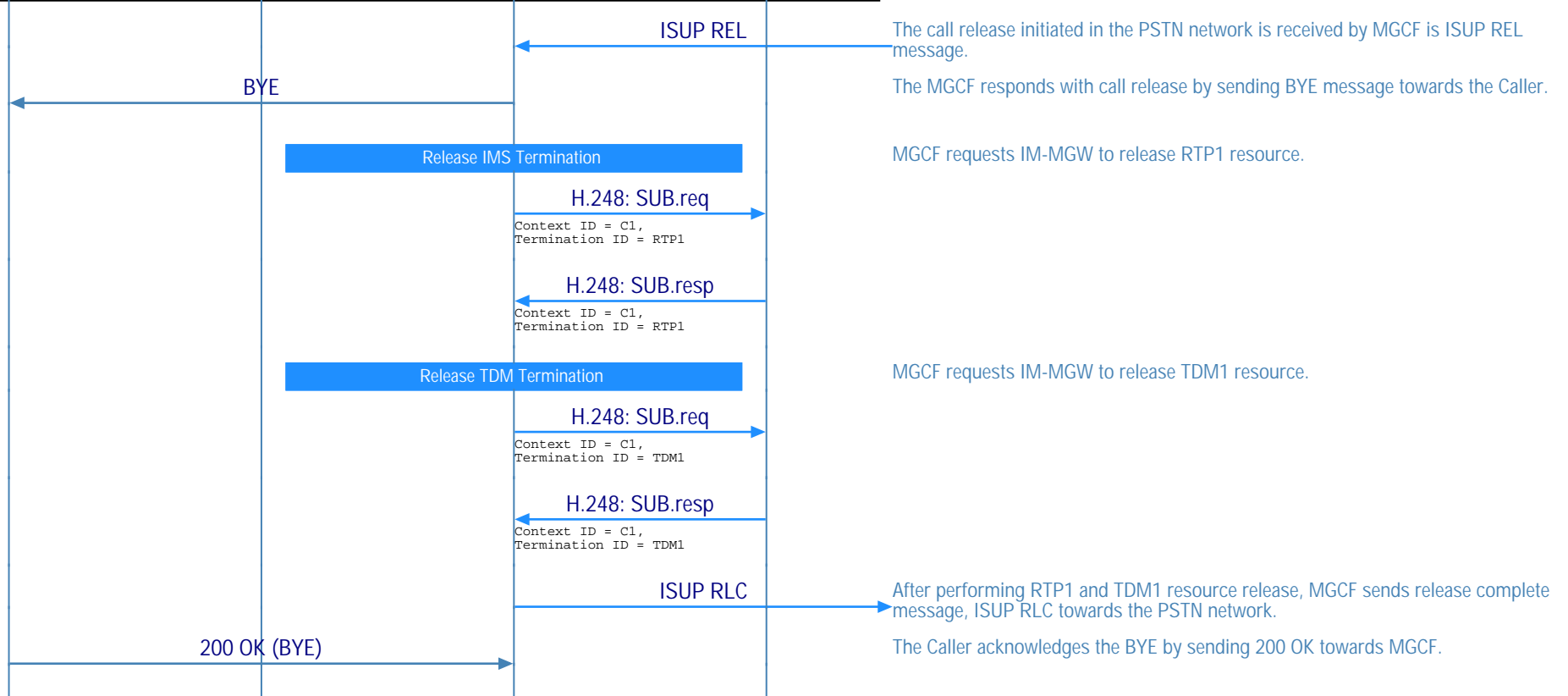
This sequence diagram was generated with EventStudio System Designer (<http://www.EventHelix.com/EventStudio>).

MGCF Interfaces (Called PSTN Subscriber Initiates Release)				
IMS Core Network	PSTN Interface			EventStudio System Designer 6
Home IMS	Signaling		Media	
Orig S-CSCF	BGCF	MGCF	IM-MGW	24-Feb-13 15:23 (Page 5)

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>).

IMS to PSTN(ISUP) call setup



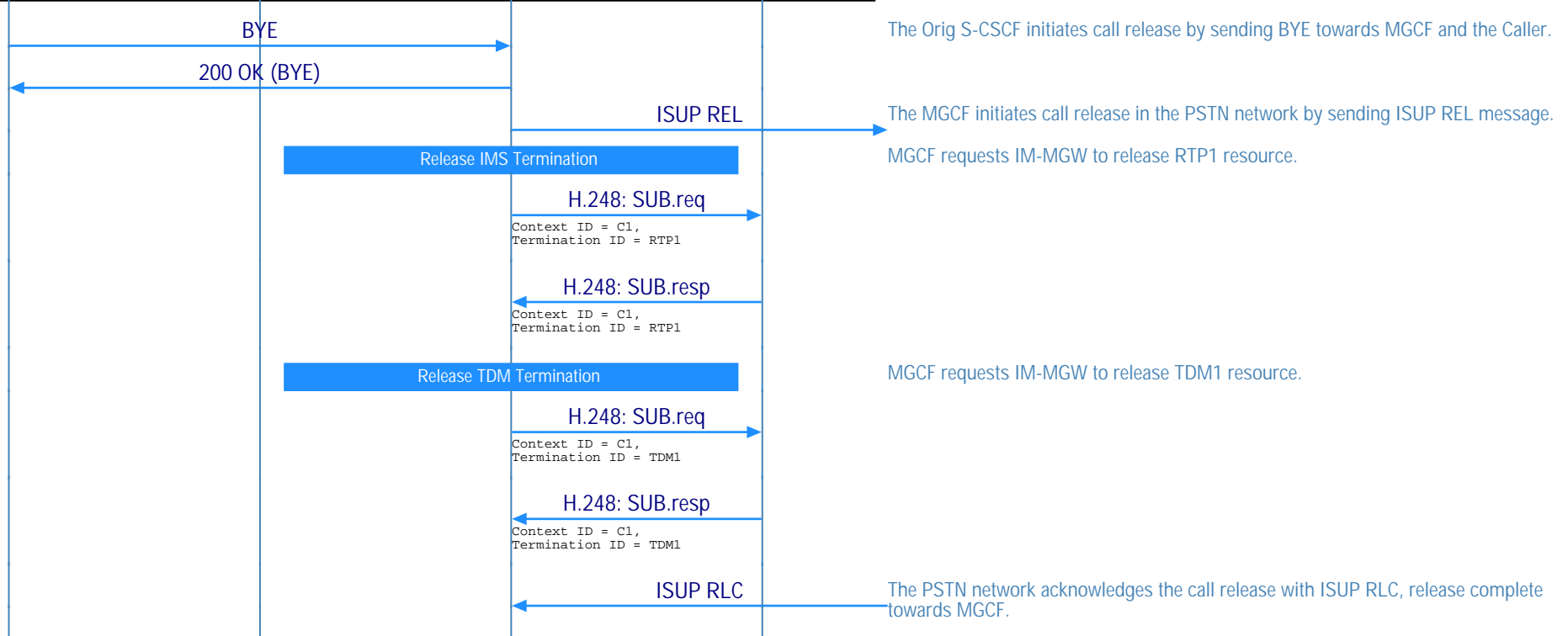
This sequence diagram was generated with EventStudio System Designer (<http://www.EventHelix.com/EventStudio>).

MGCF Interfaces (IMS Network Initiates Call Release)				
IMS Core Network	PSTN Interface			EventStudio System Designer 6
Home IMS	Signaling		Media	24-Feb-13 15:23 (Page 6)
Orig S-CSCF	BGCF	MGCF	IM-MGW	

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.

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IMS to PSTN(ISUP) call setup



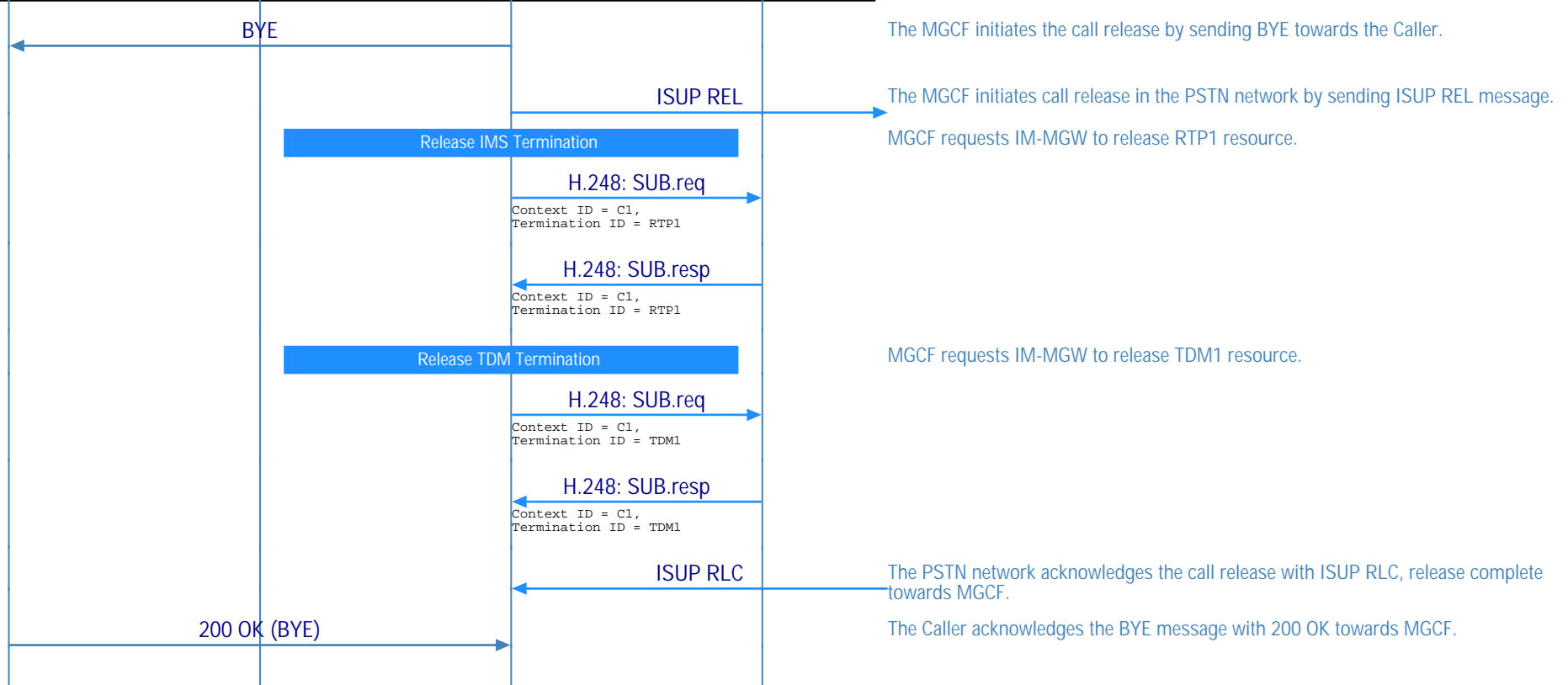
This sequence diagram was generated with EventStudio System Designer (<http://www.EventHelix.com/EventStudio>).

MGCF Interfaces (MGCF Initiated Call Release)				
IMS Core Network	PSTN Interface			EventStudio System Designer 6
Home IMS	Signaling		Media	
Orig S-CSCF	BGCF	MGCF	IM-MGW	24-Feb-13 15:23 (Page 7)

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>).

IMS to PSTN(ISUP) call setup



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