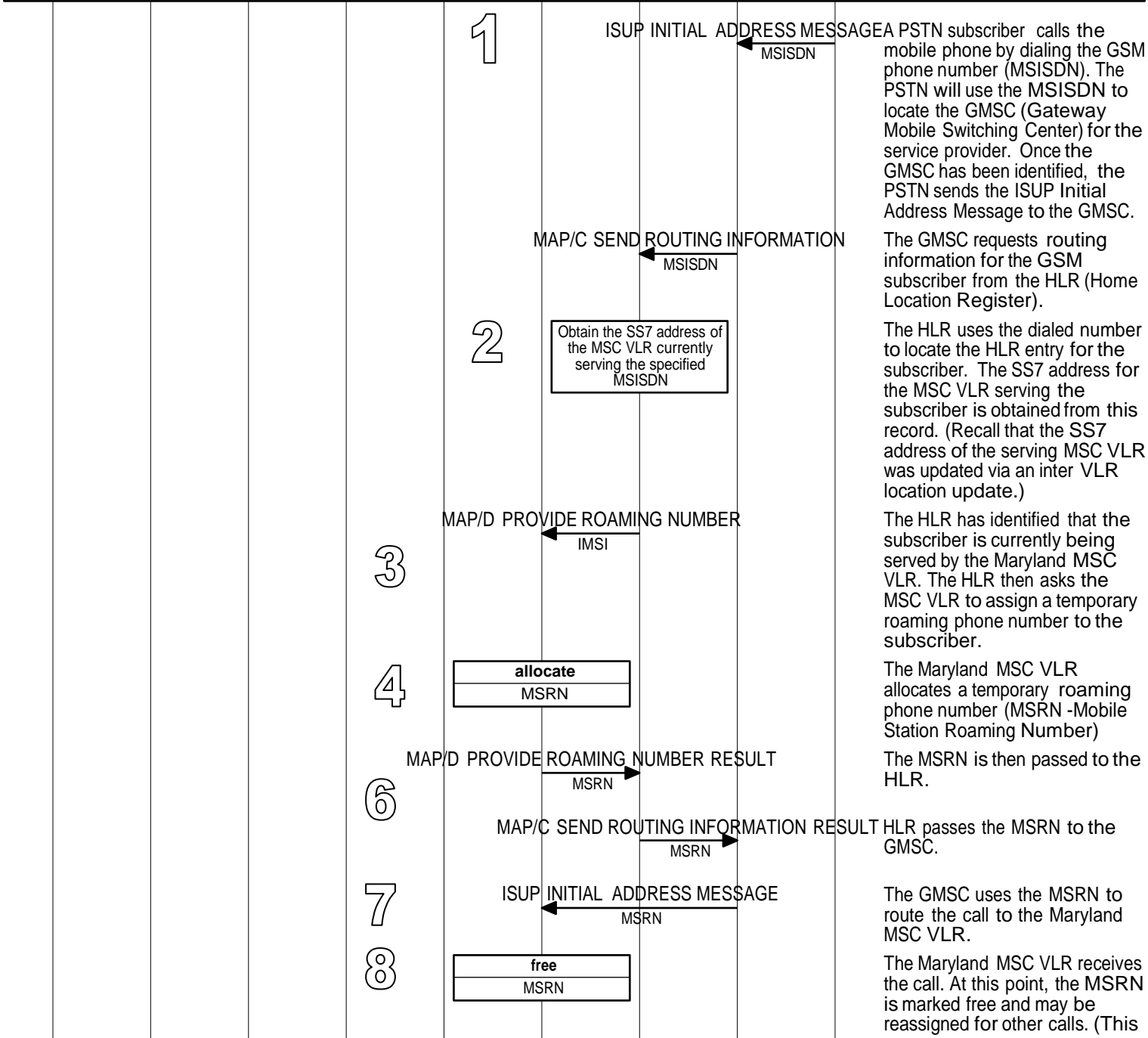
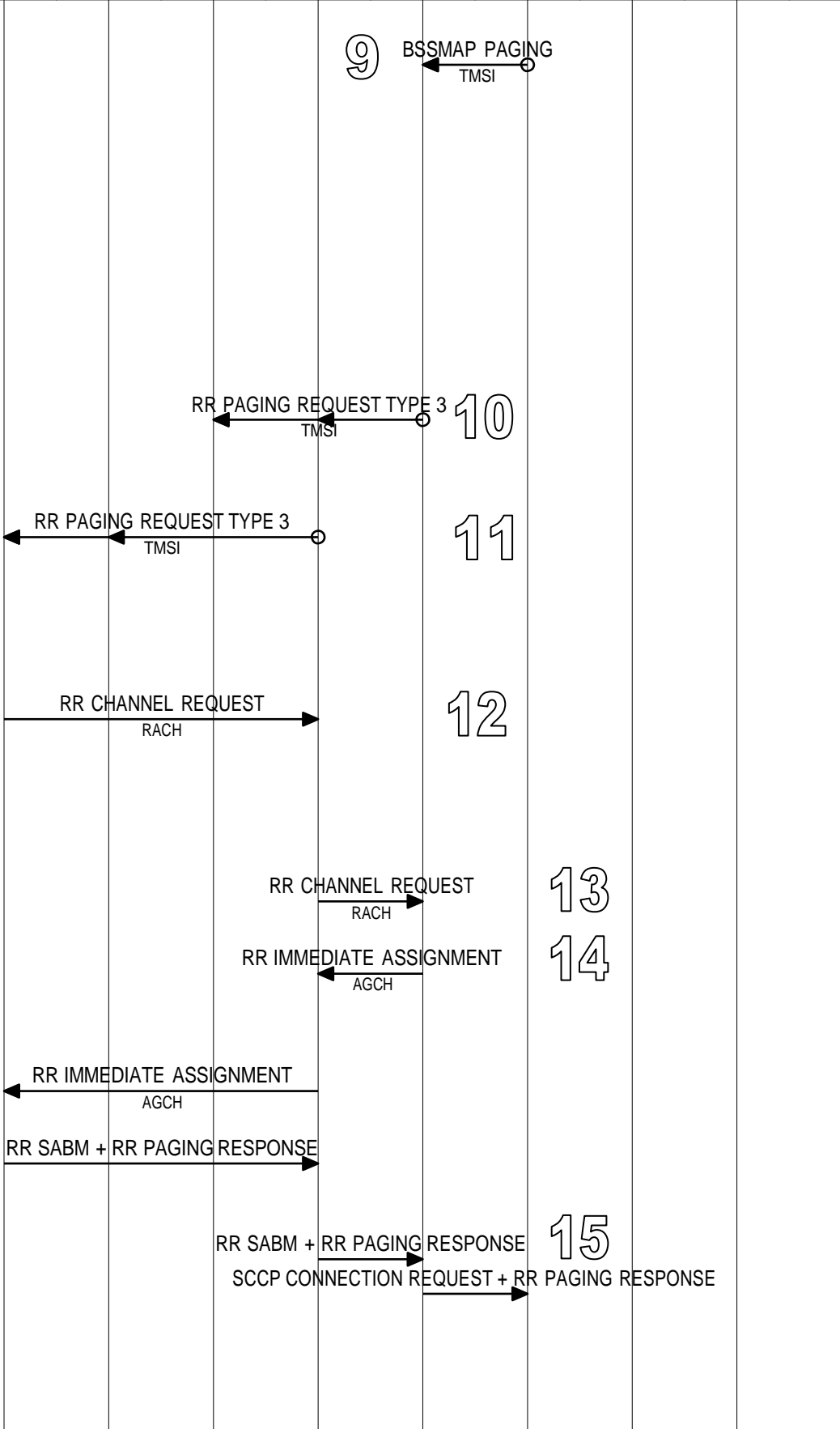


GSM Mobile Terminating Call Flow (GSM Mobile Terminated Call)										
Highway		Maryland				GSM		Fixed Network	EventHelix.com/EventStudio 2.5	
GSM Mobiles		Maryland Location Area		Maryland GSM Equipment		GSM Common Equipment		PSTN		
GSM Mobile	Other GSM Mobile	Rockville Cell	Bethesda Cell	Maryland BSC	Maryland MSC VLR	HLR	GMSC	PSTN		

Interrogation procedure



GSM Mobile Terminating Call Flow (GSM Mobile Terminated Call)										
Highway		Maryland				GSM		Fixed Network	EventHelix.com/EventStudio 2.5	
GSM Mobiles		Maryland Location Area		Maryland GSM Equipment		GSM Common Equipment		PSTN		
GSM Mobile	Other GSM Mobile	Rockville Cell	Bethesda Cell	Maryland BSC	Maryland MSC VLR	HLR	GMSC	PSTN	31-Aug-04 22:15 (Page 2)	



is implementation dependent.)

Now the MSC VLR needs to locate the subscriber in the location area. Since the location area might spawn several cells, a paging mechanism is used to locate the subscriber. The MSC VLR uses a TMSI (Temporary Mobile Subscriber Identify) to address the mobile phone. The TMSI is used so as to protect the privacy of the called subscriber. Note that, the BSSMAP PAGING message will be sent to all the BSCs that handle the Maryland Location Area.

The Maryland BSC receives the page message. The BSC will send the Page message to all the cells that serve the subscriber's location area.

All cells in the location area will broadcast the Page message on the Paging Channel (PCH). All mobile phones listen to this channel every few seconds. The mobile is located in the Bethesda cell. It receives this page message.

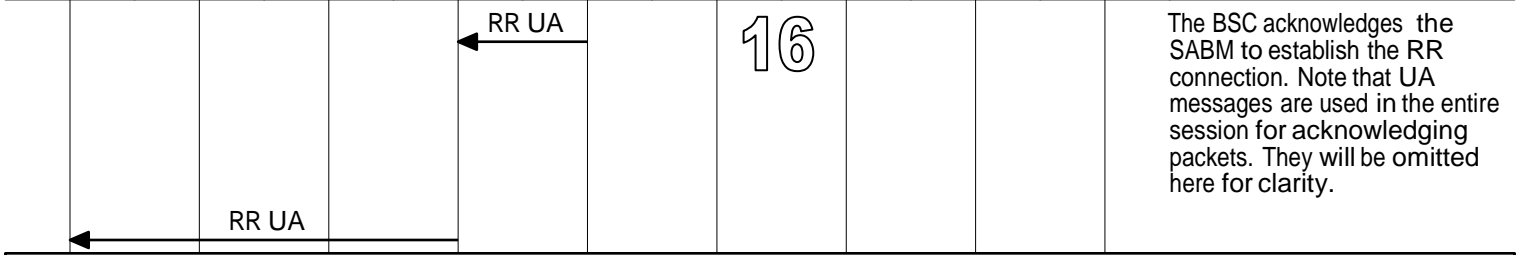
The mobile finds that the TMSI specified in the page message matches its own TMSI. The mobile decides to respond to the page. An RR connection establishment is initiated by sending a channel request to the network.

The network assigns a channel to the terminal and sends the assignment and time/frequency corrections in the immediate assignment message.

The mobile tunes to the assigned channel and transmits the page response and the SABM to initiate the RR session.

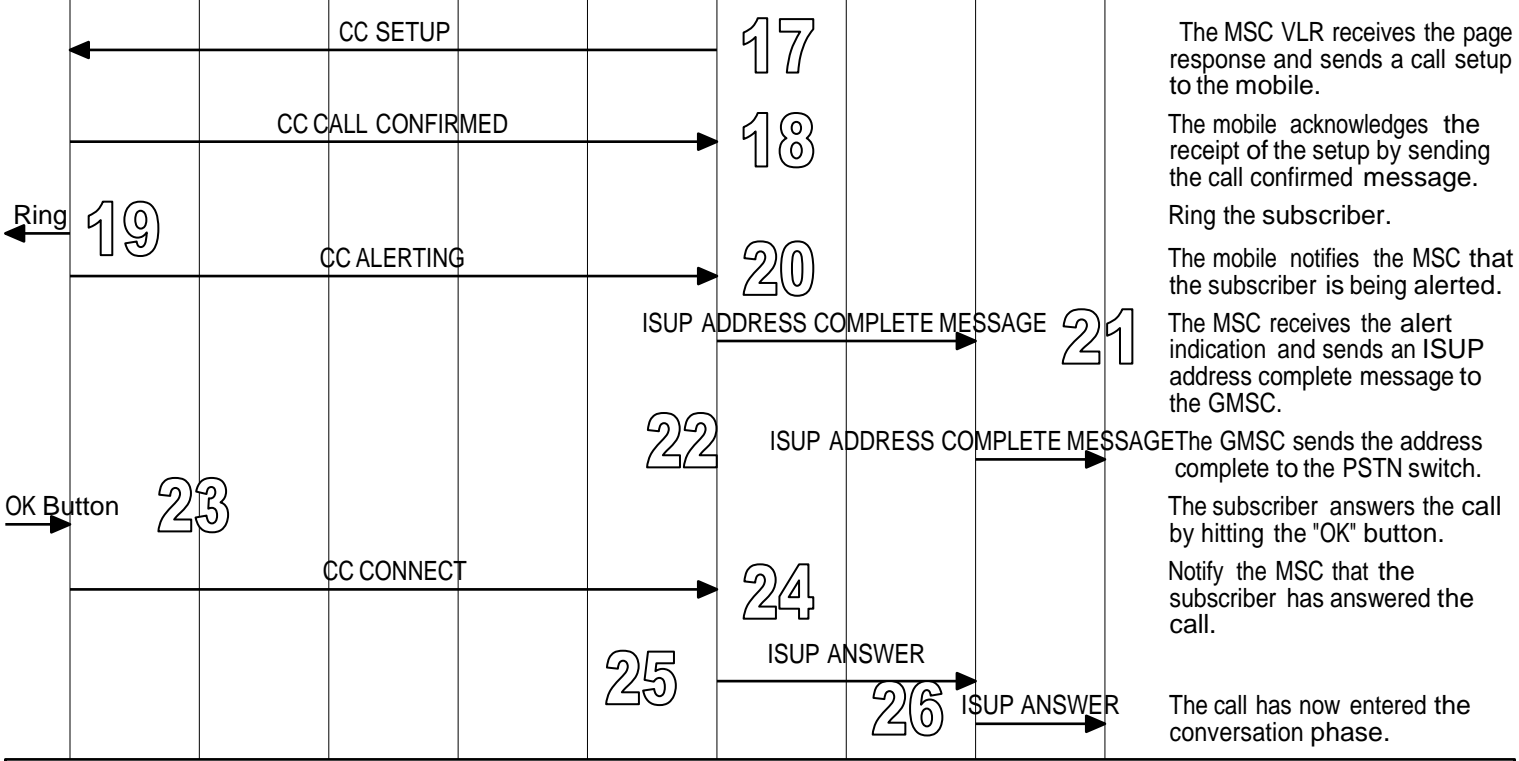
The BSC sends a SCCP connection request to the MSC VLR. The page response message is piggy backed with the request.

GSM Mobile Terminating Call Flow (GSM Mobile Terminated Call)										
Highway		Maryland				GSM		Fixed Network	EventHelix.com/EventStudio 2.5	
GSM Mobiles		Maryland Location Area		Maryland GSM Equipment		GSM Common Equipment		PSTN	31-Aug-04 22:15 (Page 3)	
GSM Mobile	Other GSM Mobile	Rockville Cell	Bethesda Cell	Maryland BSC	Maryland MSC VLR	HLR	GMSC	PSTN		

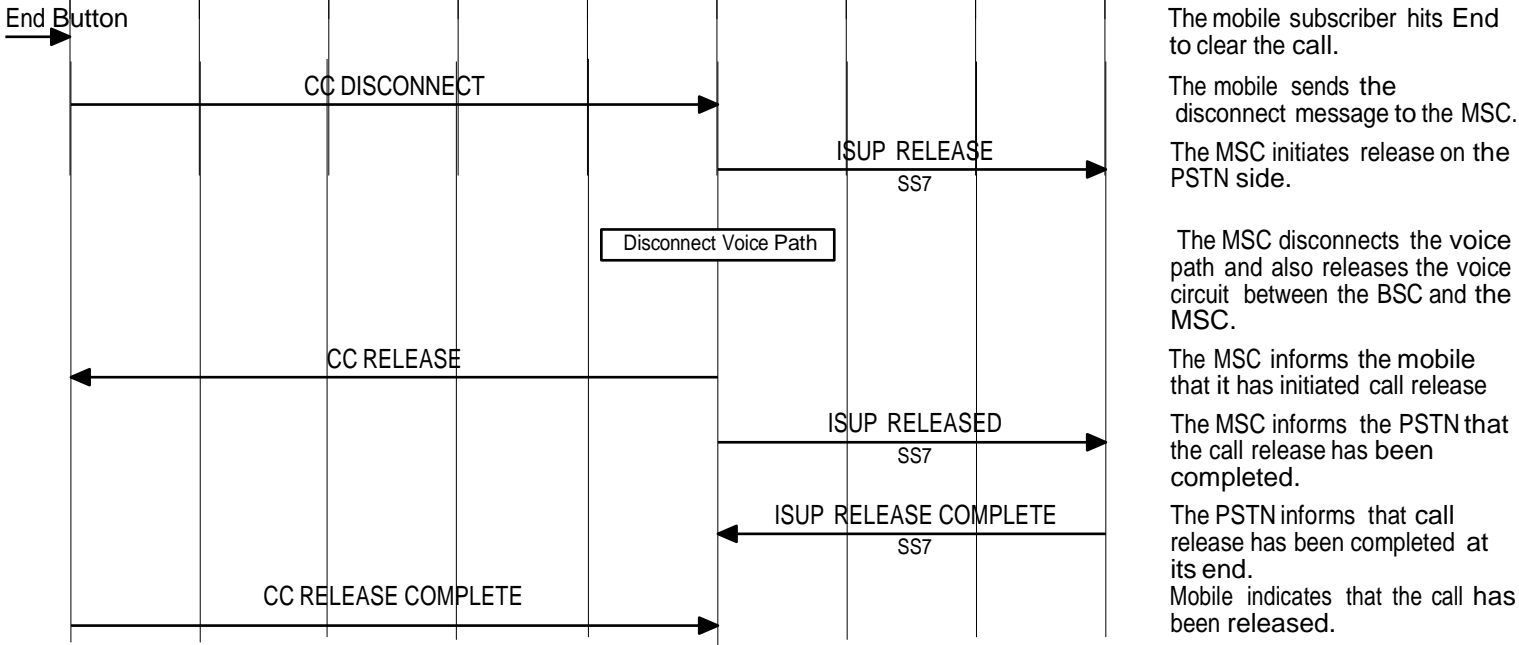


Enable Ciphering

Call setup

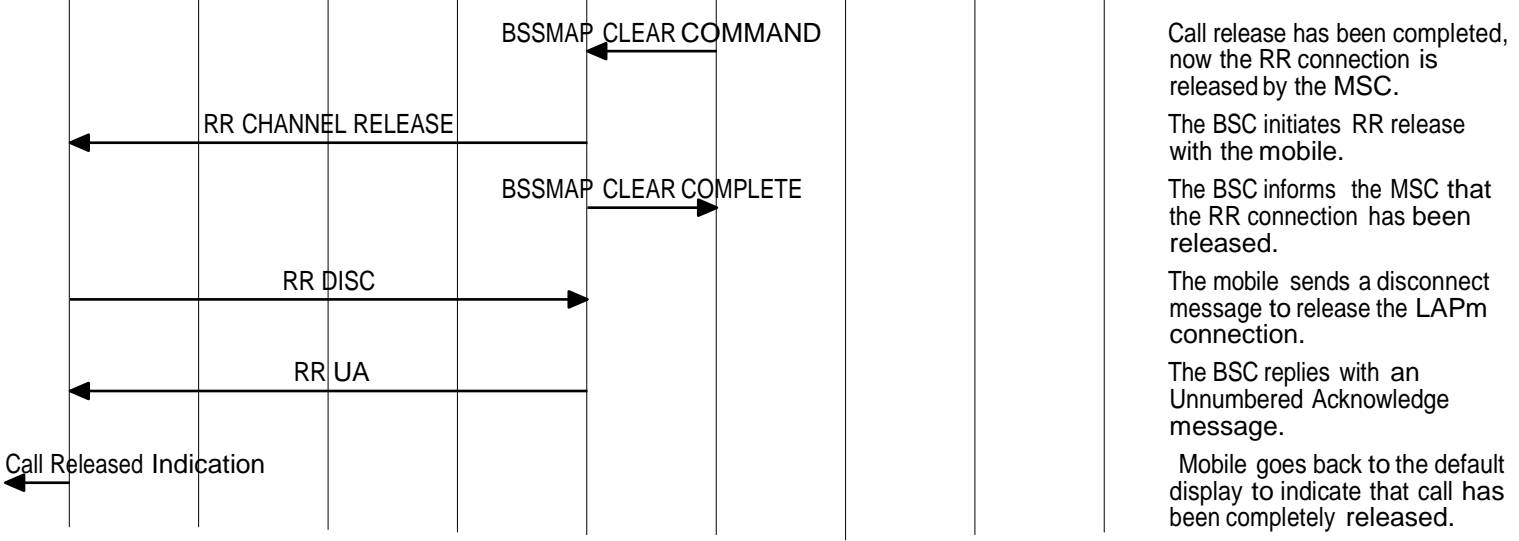


Conversation phase



GSM Mobile Terminating Call Flow (GSM Mobile Terminated Call)										
Highway		Maryland				GSM		Fixed Network	EventHelix.com/EventStudio 2.5	
GSM Mobiles		Maryland Location Area		Maryland GSM Equipment		GSM Common Equipment		PSTN		
GSM Mobile	Other GSM Mobile	Rockville Cell	Bethesda Cell	Maryland BSC	Maryland MSC VLR	HLR	GMSC	PSTN	31-Aug-04 22:15 (Page 4)	

RR Connection Release



Call release has been completed, now the RR connection is released by the MSC.

The BSC initiates RR release with the mobile.

The BSC informs the MSC that the RR connection has been released.

The mobile sends a disconnect message to release the LAPm connection.

The BSC replies with an Unnumbered Acknowledge message.

Mobile goes back to the default display to indicate that call has been completely released.