

Inter MSC Handover Call Flow (GSM Inter MSC Handover Call Flow)							
Highway	GSM Coverage					EventStudio System Designer 4.0	
GSM Mobile	Vienna (Target)			Bethesda (Source)			25-Jan-08 07:27 (Page 1)
Mobile	Vienna Cell	Vienna BSC	Vienna MSC VLR	Bethesda MSC VLR	Bethesda BSC	Bethesda Cell	

This call flow was generated with EventStudio System Designer 4.0 (<http://www.EventHelix.com/EventStudio>). The EventStudio source files for this document can be downloaded from <http://www.eventhelix.com/call-flow/gsm-inter-msc-handover.zip>.

How does a GSM mobile phone maintain a call even when moving from a cell controlled by one MSC to a cell controlled by a different MSC?

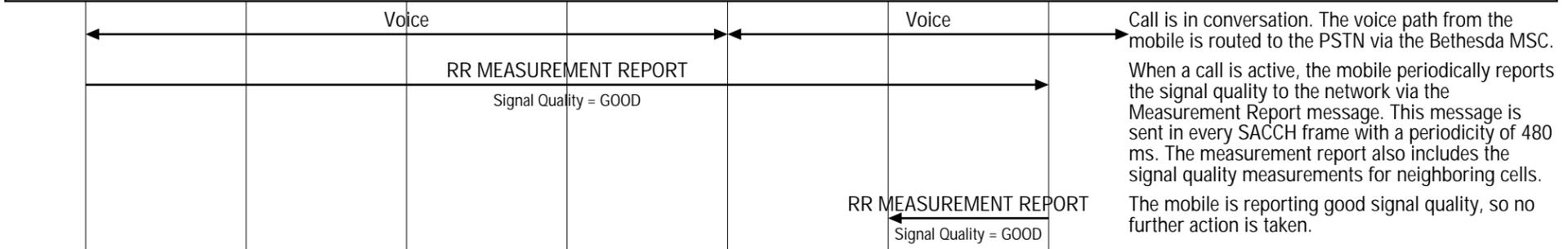
The calls are maintained by handing over the call from the source MSC to the target MSC. The MAP protocol is used to manage the interactions between the source MSC and the target MSC.

In this example, a user has an active call and is moving from the Bethesda Cell to the Vienna Cell. As the user moves, the call will be handed over by the Bethesda Cell to the Vienna Cell. The Vienna cell and the Bethesda cell are controlled by different MSCs, thus an Inter-MSc handover will be performed from the Bethesda MSC to the Vienna MSC. (Please refer to the diagram at:

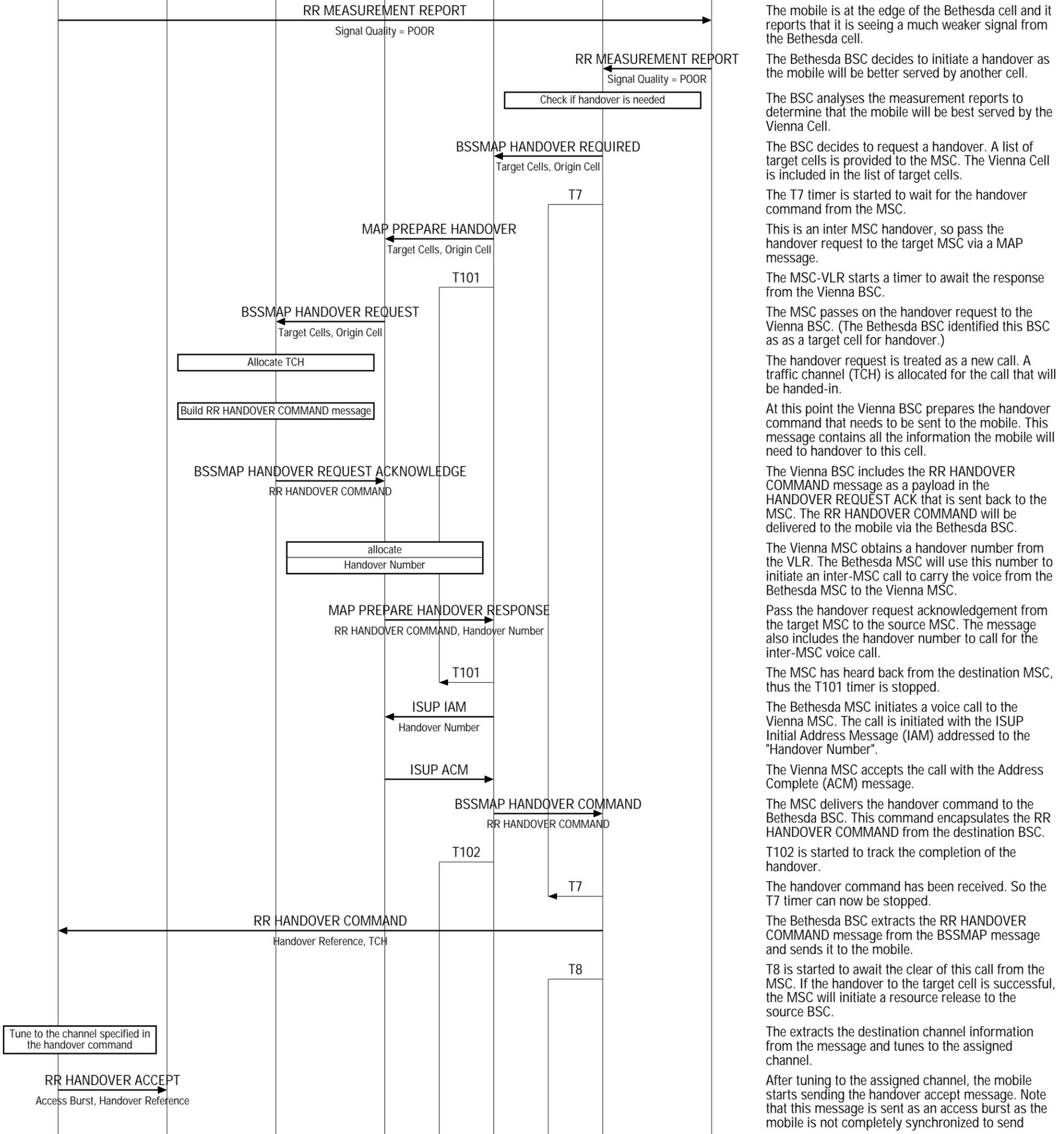
[http://www.eventhelix.com/RealtimeMantra/Telecom/GSM\\_network\\_example.htm](http://www.eventhelix.com/RealtimeMantra/Telecom/GSM_network_example.htm)

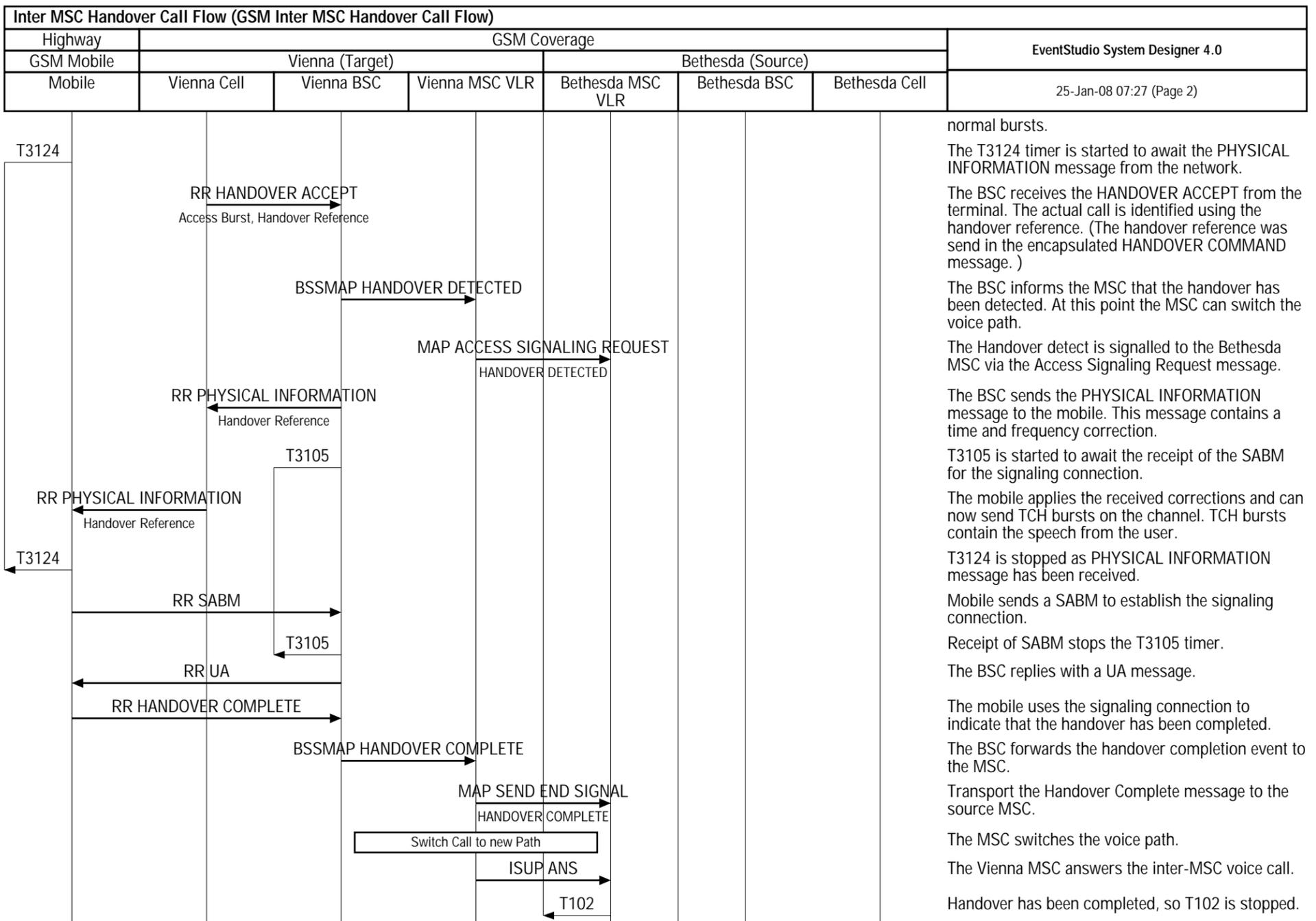
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The GSM Mobile has an active call in the Bethesda Cell.



The user reaches the boundary between the Bethesda Cell and Vienna cell.





Release call resources in Bethesda BSC.

