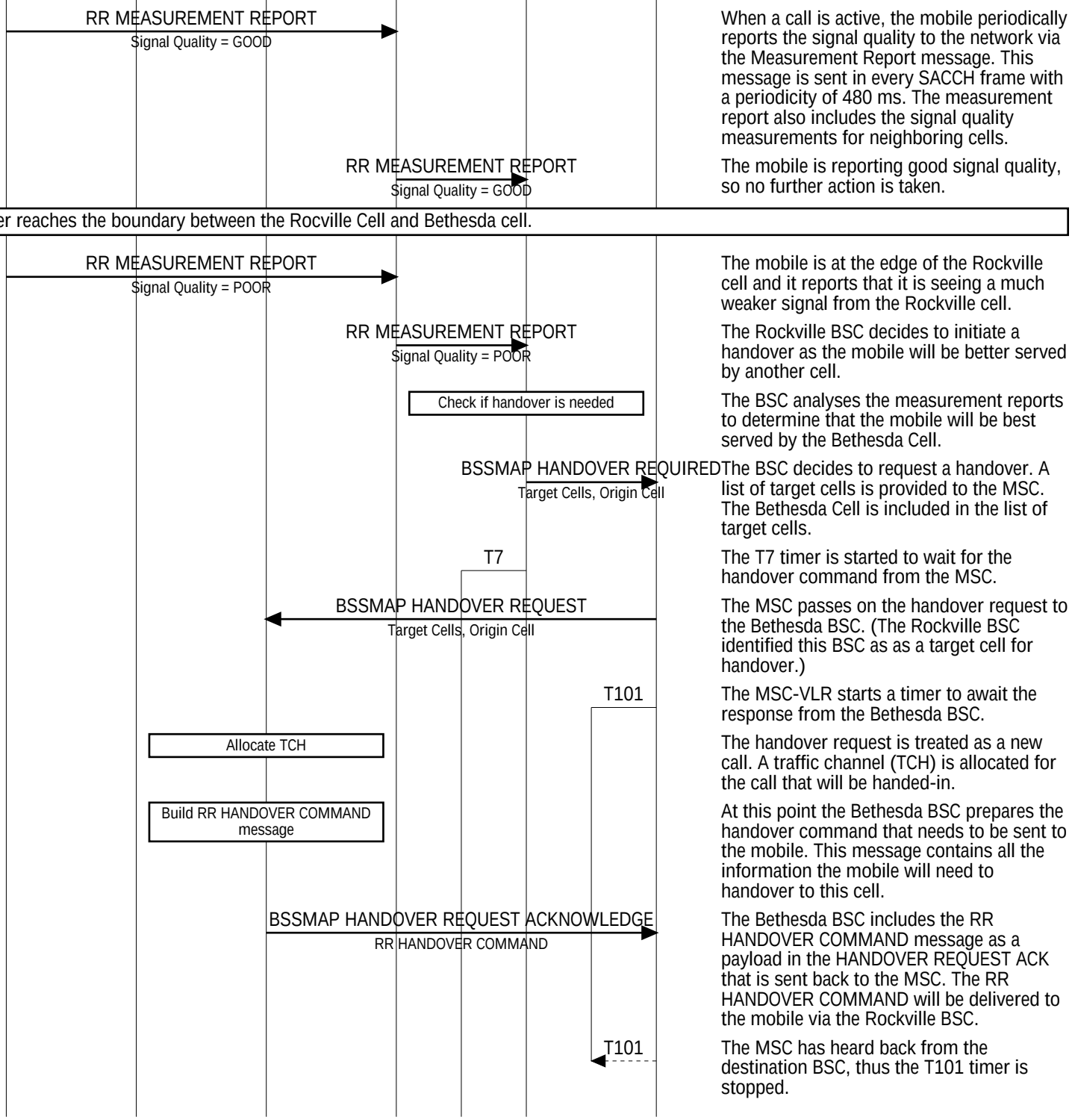
Inter BSC - Intra MSC Handover Call Flow (GSM Inter BSC - Intra MSC Handover Call Flow)

Highway	GSM Coverage				GSM Equipment	EventHelix.com/EventStudio 2.5
GSM Mobile	Bethesda		Rockville		MSC VLRs	
Mobile	Bethesda Cell	Bethesda BSC	Rockville Cell	Rockville BSC	Maryland MSC VLR	04-Dec-04 11:46 (Page 1)

How does a GSM mobile phone maintain a call even when moving from one cell to another?

The calls are maintained by handing over a call from one cell to another. This call flow covers a simple case of call handover in GSM. Here a user has an active call and is moving from the Rockville Cell to the Bethesda Cell. As the user moves, the call will be handed over by the Rockville Cell to the Bethesda Cell.

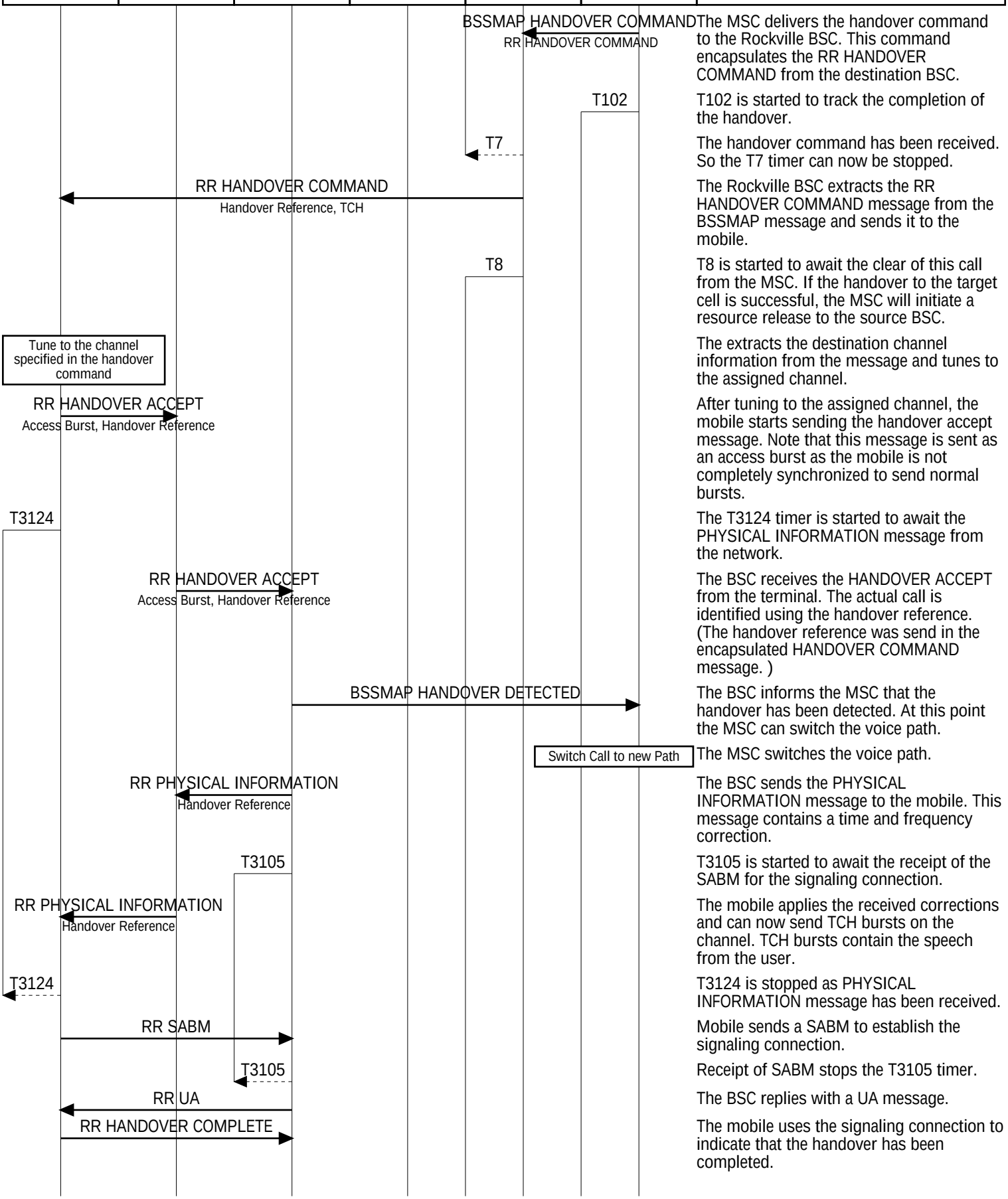
The GSM Mobile has an active call in the Rockville Cell.

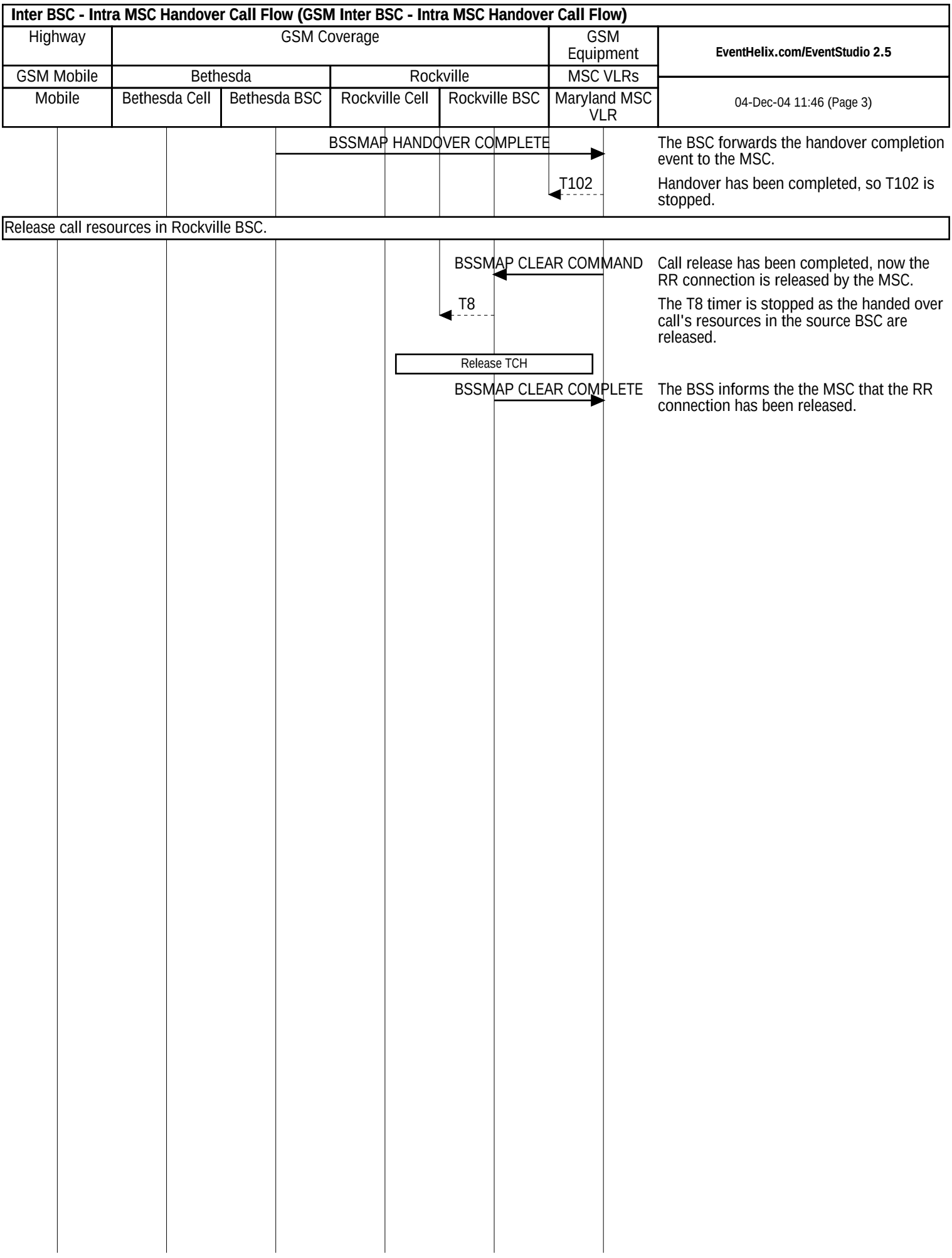


The user reaches the boundary between the Rocville Cell and Bethesda cell.

Inter BSC - Intra MSC Handover Call Flow (GSM Inter BSC - Intra MSC Handover Call Flow)

Highway	GSM Coverage				GSM Equipment	EventHelix.com/EventStudio 2.5
GSM Mobile	Bethesda		Rockville		MSC VLRs	
Mobile	Bethesda Cell	Bethesda BSC	Rockville Cell	Rockville BSC	Maryland MSC VLR	04-Dec-04 11:46 (Page 2)




Inter BSC - Intra MSC Handover Call Flow (GSM Inter BSC - Intra MSC Handover Call Flow)
Highway
GSM Coverage
GSM Equipment
EventHelix.com/EventStudio 2.5
GSM Mobile
Bethesda
Rockville
MSC VLRs
Mobile
Bethesda Cell
Bethesda BSC
Rockville Cell
Rockville BSC
Maryland MSC VLR
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BSSMAP HANDOVER COMPLETE
The BSC forwards the handover completion event to the MSC.
T102
Handover has been completed, so T102 is stopped.
Release call resources in Rockville BSC.
BSSMAP CLEAR COMMAND
Call release has been completed, now the RR connection is released by the MSC.
T8
The T8 timer is stopped as the handed over call's resources in the source BSC are released.
Release TCH
BSSMAP CLEAR COMPLETE
The BSS informs the the MSC that the RR connection has been released.