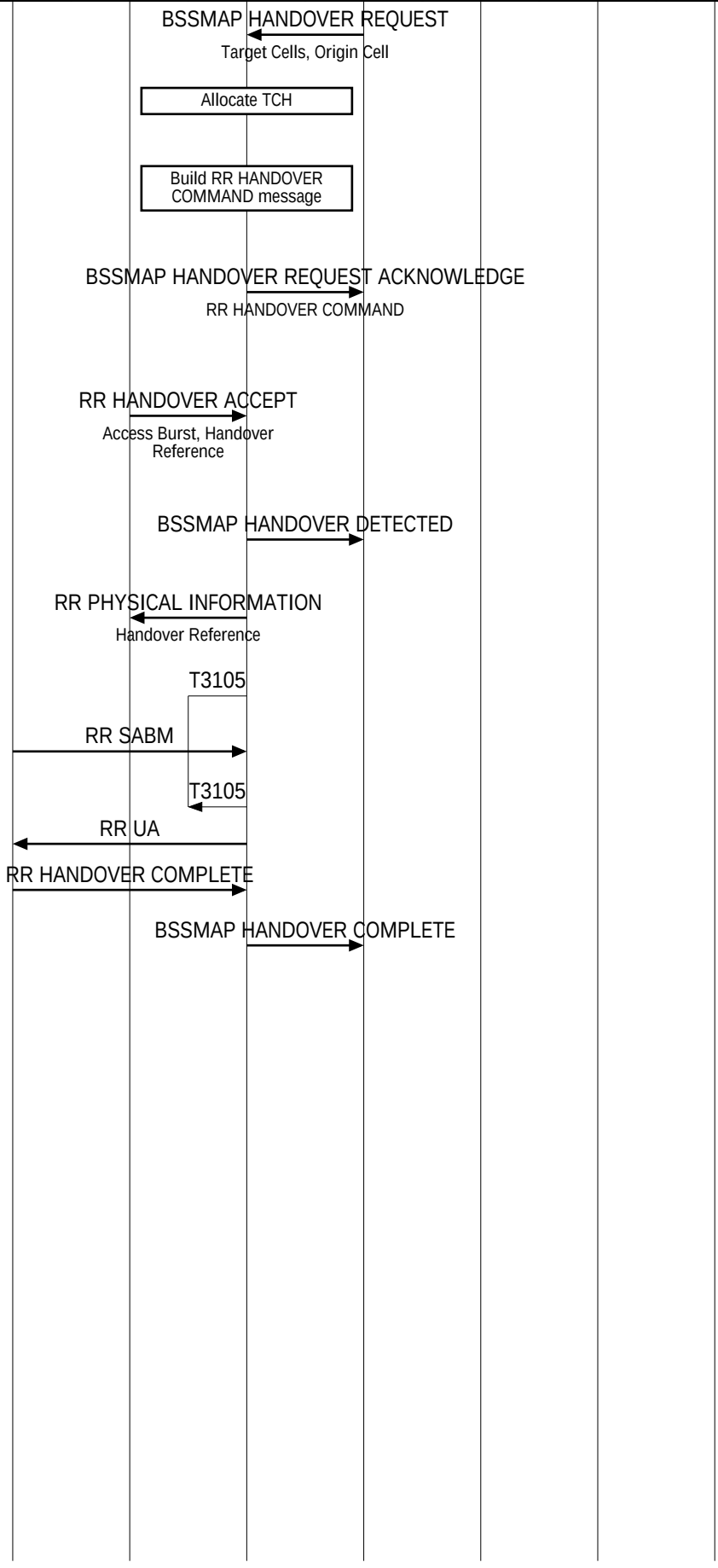
Vienna_BSC Interfaces (GSM Inter MSC Handover Call Flow)

Highway	GSM Coverage						EventStudio System Designer 4.0
GSM Mobile	Vienna (Target)			Bethesda (Source)			
Mobile	Vienna Cell	Vienna BSC	Vienna MSC VLR	Bethesda MSC VLR	Bethesda BSC	Bethesda Cell	25-Jan-08 07:26 (Page 1)



The MSC passes on the handover request to the Vienna BSC. (The Bethesda BSC identified this BSC as as a target cell for handover.)

The handover request is treated as a new call. A traffic channel (TCH) is allocated for the call that will be handed-in.

At this point the Vienna BSC prepares the handover command that needs to be sent to the mobile. This message contains all the information the mobile will need to handover to this cell.

The Vienna BSC includes the RR HANDOVER COMMAND message as a payload in the HANDOVER REQUEST ACK that is sent back to the MSC. The RR HANDOVER COMMAND will be delivered to the mobile via the Bethesda BSC.

The BSC receives the HANDOVER ACCEPT from the terminal. The actual call is identified using the handover reference. (The handover reference was send in the encapsulated HANDOVER COMMAND message.)

The BSC informs the MSC that the handover has been detected. At this point the MSC can switch the voice path.

The BSC sends the PHYSICAL INFORMATION message to the mobile. This message contains a time and frequency correction.

T3105 is started to await the receipt of the SABM for the signaling connection.

Mobile sends a SABM to establish the signaling connection.

Receipt of SABM stops the T3105 timer.

The BSC replies with a UA message.

The mobile uses the signaling connection to indicate that the handover has been completed.

The BSC forwards the handover completion event to the MSC.