Processor Interfaces (GSM Inter MSC Handover Call Flow)						
Highway			GSM Coverage			EventStudio System Designer 4.0
GSM N	Vobile	Vienna ((Target)	Bethesda	(Source)	25-Jan-08 07:26 (Page 1)
	<	Vo	ice		Voice	Call is in conversation. The voice path from the mobile is routed to the PSTN via the Bethesda MSC.
	RF	R MEASUREN Signal Qual	MENT REPOR ity = GOOD	T		When a call is active, the mobile periodically reports the signal quality to the network via the Measurement Report message. This message is sent in every SACCH frame with a periodicity of 480 ms. The measurement report also includes the signal quality measurements for neighboring cells.
	RI	R MEASUREN Signal Qual	MENT REPOR	T		The mobile is at the edge of the Bethesda cell and it reports that it is seeing a much weaker signal from the Bethesda cell.
		N		E HANDOVE	R	This is an inter MSC handover, so pass the handover request to the target MSC via a MAP message.
		MAP P RR HAN	REPARE HAN	DOVER RES	PONSE Number	Pass the handover request acknowledgement from the target MSC to the source MSC. The message also includes the handover number to call for the inter-MSC voice call.
			■ ISUP Handover	IAM Number		The Bethesda MSC initiates a voice call to the Vienna MSC. The call is initiated with the ISUP Initial Address Message (IAM) addressed to the "Handover Number".
		·	ISUP /	ACM		The Vienna MSC accepts the call with the Address Complete (ACM) message.
	R	R HANDOVE Handover Re	R COMMANE)		The Bethesda BSC extracts the RR HANDOVER COMMAND message from the BSSMAP message and sends it to the mobile.
A	RR HANDOV ccess Burst, Har	VER ACCEPT	e			After tuning to the assigned channel, the mobile starts sending the handover accept message. Note that this message is sent as an access burst as the mobile is not completely synchronized to send normal bursts.
		MAP	ACCESS SIGN HANDOVER	IALING REQ	UEST	The Handover detect is signalled to the Bethesda MSC via the Access Signaling Request message.
RF	Handover	INFORMATIC Reference	DN			The mobile applies the received corrections and can now send TCH bursts on the channel. TCH bursts contain the speech from the user.
	RR S	ABM				Mobile sends a SABM to establish the signaling connection.
	RR	UA				The BSC replies with a UA message.
R	R HANDOVE	R COMPLET	E			The mobile uses the signaling connection to indicate that the handover has been completed.
			MAP SEND E	ND SIGNAL		Transport the Handover Complete message to the source MSC.
			ISUP	ANS		The Vienna MSC answers the inter-MSC voice call.
	Vo	ice 🔶	Voi	ce 🔸	Voice	Call is in conversation after the handover. Note that the voice path to the PSTN is via the source MSC. The destination MSC routes the voice on the ISUP call between the two MSCs.
			■ ISUP	REL		Subscribers have hung up. The source MSC releases the voice circuit between the two MSCs.
						ISUP release complete.
		MAP	SEND END SI	GNAL RESP	UNSE	The handed over call has ended.