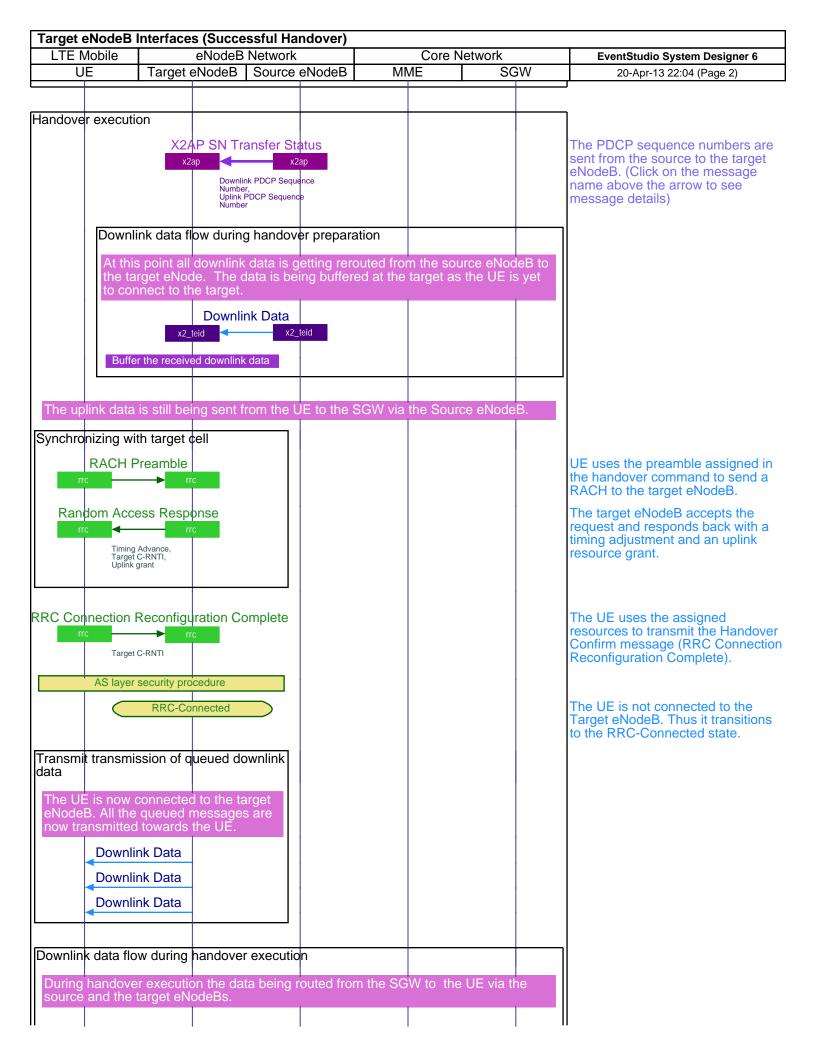
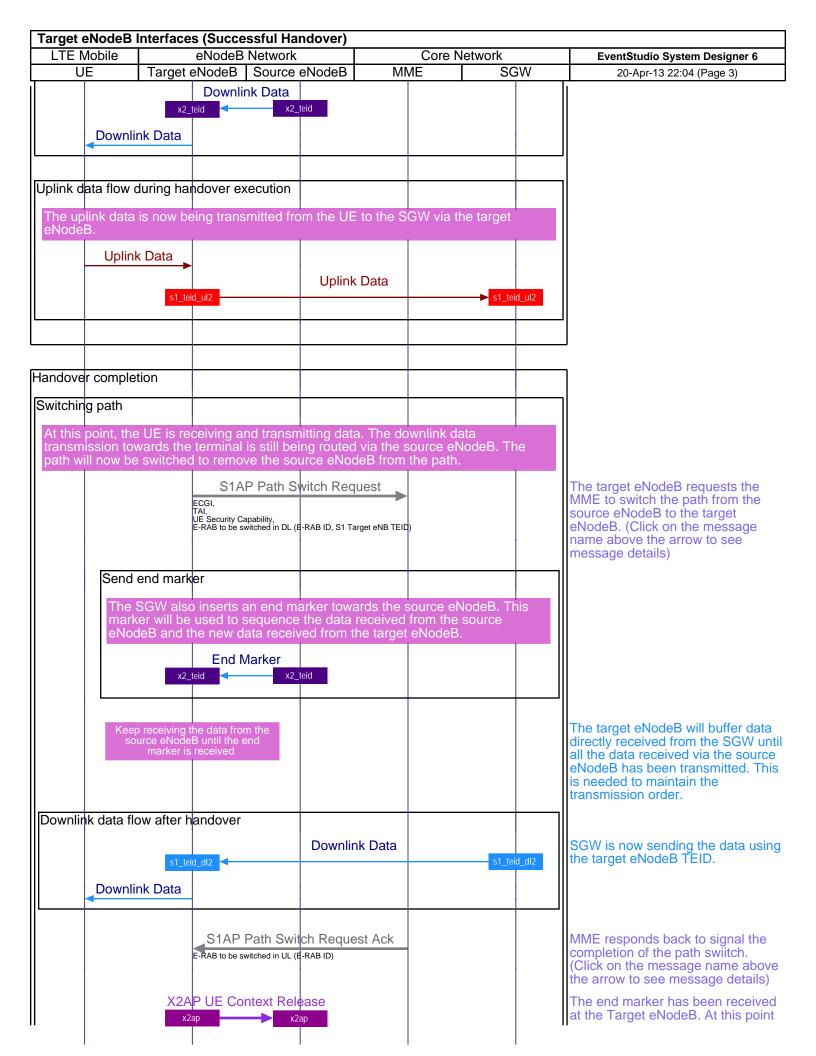
Target eNodeB Interfaces (Successful Handover)										
LTE Mobile	eNodeB			Network	EventStudio System Designer 6					
UE	Target eNodeB	Source eNodeB	MME	SGW	20-Apr-13 22:04 (Page 1)					
This sequence d	iagram was genera	ted with EventStud	lio Sytem Design	er - http://www.Ev	entHelix.com/EventStudio/					
	are interconnected get eNodeB will tak			Bs are served by t	he same MME, handover from the					
Downlink data	is flowing from the S	GW to the UE via	the Source eNo	deB.						
Uplink data is f	lowing from the UE	to the SGW via the	e Source eNodeE	3.						
					٦					
Handover prepar	X2ap ECGI o Target o UE-AM UE Sec KeNB*, E-RAB ID, QCI	x2ap in the Target Cell (of NB), SR, urity Capability, to be setup (E-RAB ARP, S1 S-GW TEID			The Source eNodeB initiates the handover with the Handover Request message. Information about active E-RABs, security keys is included in the message. (Click on the message name above the arrow to see message details)					
Gener	rate AS keys from KeNB = KeNB*) s1_teid_ul2	Uplink S1 Beare	r Establishment	→ s1_teid_ul2	GTP connect for the uplink side is established between the Target eNodeB and the serving SGW.					
Pe	erform admission control E-RABs in the message	the			Check if resources are available at the target eNodeB to accept this session.					
Crea	te DRB ID (Uplink / Dow	nlink)			Assign Dedicated Radio Bearer ids for Uplink and Downlink.					
	: Reserve downlink and io resources for the sess				The Target eNodeB allocates radio resources for the UE that will be handed in.					
	allocate RACH Preamble				The Target eNodeB allocates a RACH preamble to the UE. The UE will use this preamble to send a contention free RACH.					
	allocate C-RNTI				A new C-RNTI is assigned to the UE.					
	RC: Prepare the Hando Command message (RR ection Reconfiguration R	C			This message includes the RACH preamble that needs to be sent to the terminal. This message includes information about the assigned radio resources.					
	Transpa	x2ap	e		The Target eNodeB responds back to the source eNodeB with a Handover Request Acknowledge message. This message carries the Handover Command message (RRC Connection Reconfiguration Request) in a transparent container. (Click on the message name above the arrow to see message details)					
	X2 Bearer E	sablishment x2_teid			An X2 GTP connection is established between the Source and the Target eNodeBs. This channel will carry the user data during the handover.					
	begin Buffering downlink data				At this point, the UE is ready to buffer downlink data that will be received during the handover.					





Target eNodeB Interfaces (Successful Handover)												
	Mobile eNodeB Network					Core Network				EventStudio System Designer 6		
ĻŢ	JE	Target	eNodeB	Source	eNodeB	MI	ИΕ	SG		20-Apr-13 22:04 (Page 4)		
										the target asks the source eNodeB to release resources for the UE. (Click on the message name above the arrow to see message details)		
This se	quence di	agram wa	s dener	ated with F	-ventStud	lio Sytem	Designe	r - http://v	www.Eve	entHelix.com/EventStudio/		
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