

FIG. 1

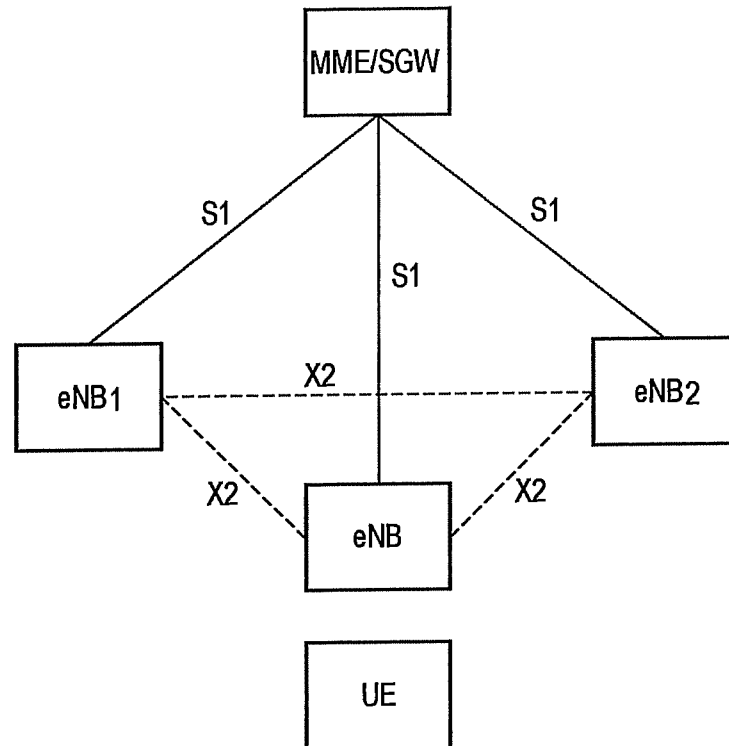


FIG. 2

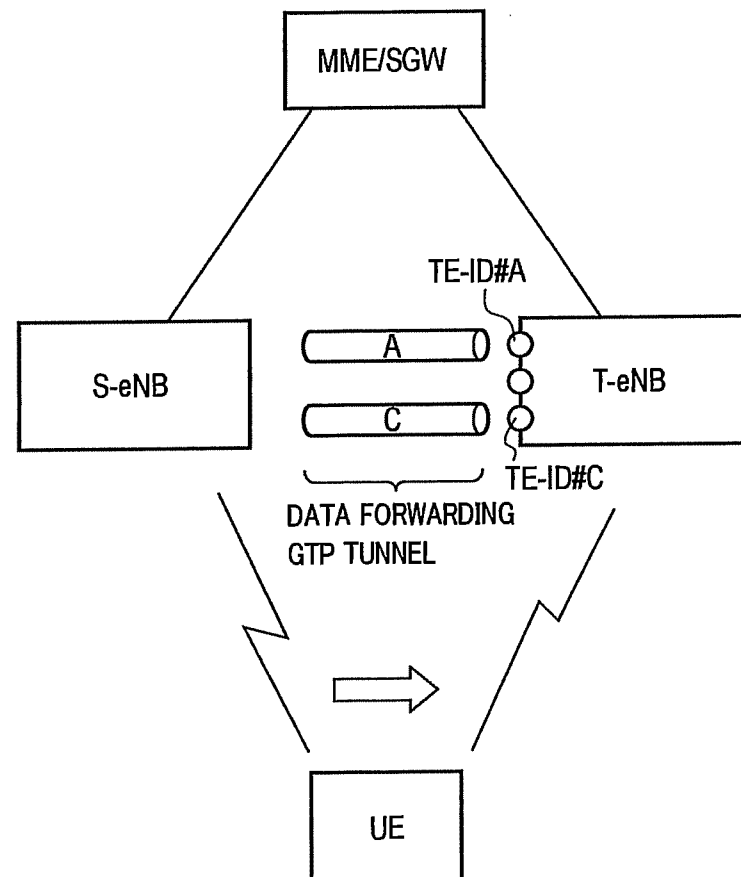


FIG. 3

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
Old eNB UE X2AP ID	M			eNB UE X2AP ID allocated at the old eNB		
Target Cell ID						
UE Context Information	M					
> MME UE S1AP ID	M			MME UE S1AP ID allocated at the MME		
> SAE Bearers To Be Setup List	M					
>> SAE Bearer Info		1 to <maxnoof SAEbearers>				
>>> SAE Bearer ID	M					
>>> UL GTP Tunnel Endpoint	M		9.2.1	SGW tunnel endpoint. For delivery of UL PDUs		
>>> RB type (QCI)	M					
>>> Forwardind Indicator	M					
> RRC Context	M			to transfer UE RAN context, details are FFS		
UE History Information	M		9.2.3			
Trace activation	O		9.2.2		YES	ignore

FIG. 4

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
Old eNB UE X2AP ID	M			eNB UE X2AP ID allocated at the old eNB		
Target Cell ID						
UE Context Information	M					
> MME UE S1AP ID	M			MME UE S1AP ID allocated at the MME		
> SAE Bearers To Be Setup List	M					
>> SAE Bearer Info		1 to <maxroof SAEbearers>				
>>> SAE Bearer ID	M					
>>> UL GTP Tunnel Endpoint	M		9.2.1	SGW tunnel endpoint. For delivery of UL PDUs		
>>> RB Type (QCI)	M					
> SAE Bearers To Be Forwarded List	M					
>> SAE Bearer Info		1 to <maxroof SAEbearers>				
>>> SAE Bearer ID	M					
>>> RB type (QCI)	M					
> RRC Context	M			to transfer UE RAN context, details are FFS		
UE History Information	M		9.2.3			
Trace activation	O		9.2.2		YES	ignore

FIG. 5

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
Old eNB UE X2AP ID	M			eNB UE X2AP ID allocated at the old eNodeB		
New eNB UE X2AP ID	M			New eNB UE X2AP ID allocated at the new eNodeB		
SAE Bearers Admitted List						
> SAE Bearer Info		1 to <maxnoof SAEbearers>				
>> SAE Bearer ID	M					
>> DL GTP Tunnel Endpoint	O			Target eNB tunnel endpoint. For delivery of DL PDUs		
>> Forwarding GTP Tunnel Endpoint	O			Target eNB tunnel endpoint for data forwarding		
SAE Bearers Not Admitted List						
> SAE Bearer Info		1 to <maxnoof SAEbearers>				
>> SAE Bearer ID	M					
>> Cause	M					
Target eNodeB to Source eNodeB Transparent Container	M			It includes HO info for the UE		

FIG. 6

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
Old eNB UE X2AP ID	M			eNB UE X2AP ID allocated at the old eNodeB		
New eNB UE X2AP ID	M			New eNB UE X2AP ID allocated at the new eNodeB		
SAE Bearers Admitted List						
> SAE Bearer Info		1 to <maxnoof SAEbearers>				
>> SAE Bearer ID	M					
>> DL GTP Tunnel Endpoint	O			Target eNB tunnel endpoint. For delivery of DL PDUs		
SAE Bearers Forwarded List						
> SAE Bearer Info		1 to <maxnoof SAEbearers>				
>> SAE Bearer ID	M					
>> Forwarding Tunnel Endpoint	O			Target eNB tunnel endpoint for data forwarding		
SAE Bearers Not Admitted List						
> SAE Bearer Info		1 to <maxnoof SAEbearers>				
>> SAE Bearer ID	M					
>> Cause	M					
Target eNodeB to Source eNodeB Transparent Container	M			It includes HO info for the UE		

FIG. 7

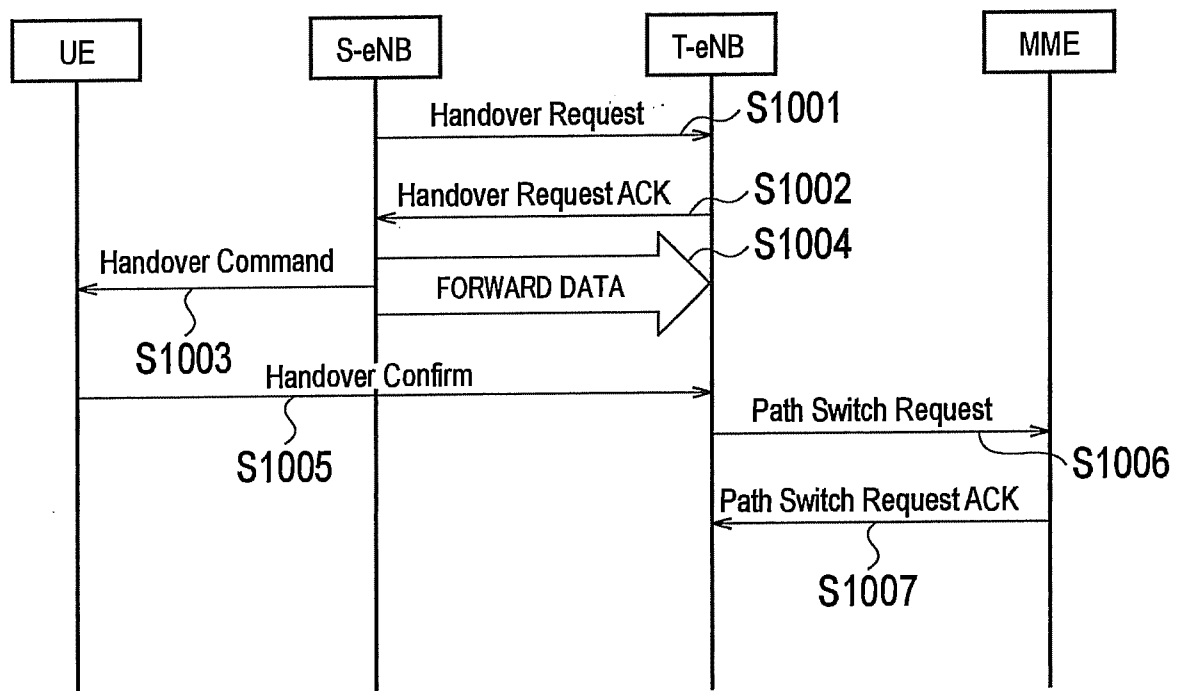


FIG. 8

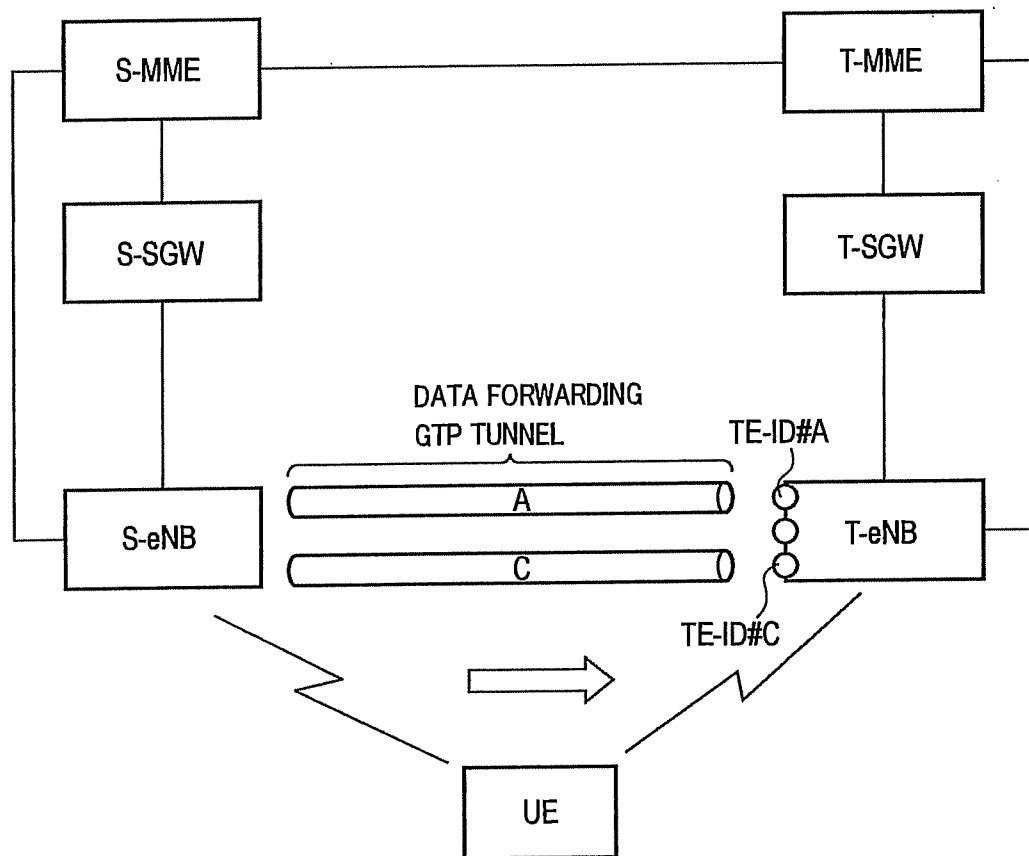


FIG. 9

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
MMIE UE S1AP ID	M					
Cause	M					
SAE Bearers To Be Setup List		1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Transport Layer Address	M					
> GTP TEID	M			To deliver UL PDUs		
> SAE Bearer level QoS Parameters	M			Note: Label, ARP		
> Forwarding Indicator	M			To show whether data forwarding is needed		
Intra-LTE HO Information List	C- if IntraLTE					
> Source eNodeB to Target eNodeB Transparent Container	M					
LTE to UTRAN HO Information List	C- if LTE to UTRAN					
> Source RNC to Target RNC Transparent Container	M			FFS if this is mandatory and needed		
LTE to GERAN HO Information List	C- if LTE to GERAN					
> Source BSS to Target BSS Transparent Container	M			FFS if this is mandatory and needed		

FIG. 10

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
MME UE S1AP ID	M					
Cause	M					
SAE Bearers To Be Setup List		1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Transport Layer Address	M					
> GTP TEID	M			To deliver UL PDUs		
> SAE Bearer level QoS Parameters	M			Note: Label, ARP		
SAE Bearers To Be Forwarded List		1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Transport Layer Address	M					
> GTP TEID	M			To deliver forwarded PDUs		
> SAE Bearer level QoS Parameters	M			Note: Label, ARP		
Intra-LTE HO Information List	C- if IntraLTE					
> Source eNodeB to Target eNodeB Transparent Container	M					
LTE to UTRAN HO Information List	C- if LTE to UTRAN					
> Source RNC to Target RNC Transparent Container	M			FFS if this is mandatory and needed		
LTE to GERAN HO Information List	C- if LTE to GERAN					
> Source BSS to Target BSS Transparent Container	M			FFS if this is mandatory and needed		

FIG. 11

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
MME UE S1AP ID	M					
eNB UE S1AP ID	M			allocated at the target eNodeB		
SAE Bearers Admitted List		1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Transport Layer Address	M					
> GTP TEID	M			To deliver DL PDUs		
> GTP TEID				Target eNB tunnel endpoint for data forwarding		
SAE Bearers Failed to Setup List	M	1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Cause	M					
Intra-LTE HO Information List	C- ifIntraLTE					
> Target eNodeB to Source eNodeB Transparent Container	M			It includes HO Command info for the UE		
LTE to UTRAN HO Information List	C- ifLTEtoUTRAN					
> Target RNC to Source RNC Transparent Container	M			FFS if this is mandatory and needed		
LTE to GERAN HO Information List	C- ifLTEtoGERAN					
> Target BSS to Source BSS Transparent Container	M			FFS if this is mandatory and needed		

FIG. 12

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
MME UE S1AP ID	M					
eNB UE S1AP ID	M			allocated at the target eNodeB		
SAE Bearers Admitted List		1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Transport Layer Address	M					
> GTP TEID	M			To deliver DL PDUs		
SAE Bearers To Be Forwarded List		1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Transport Layer Address	M					
> GTP TEID	M			Target eNB tunnel endpoint for data forwarding		
SAE Bearers Failed to Setup List	M	1 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
> Cause	M					
Intra-LTE HO Information List	C-ifIntraLTE					
> Target eNodeB to Source eNodeB Transparent Container	M			It includes HO Command info for the UE		
LTE to UTRAN HO Information List	C-ifLTEtoUTRAN					
> Target RNC to Source RNC Transparent Container	M			FFS if this is mandatory and needed		
LTE to GERAN HO Information List	C-ifLTEtoGERAN					
> Target BSS to Source BSS Transparent Container	M			FFS if this is mandatory and needed		

FIG. 13

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M					
MME UE S1AP ID	M					
eNB UE S1AP ID	M					
SAE Bearers Subject to Setup List		0 to <maxnoof SAEbearers>		FFS		
> SAE Bearer ID	M			FFS		
> Transport Layer Address	M			FFS		
> GTP TEID	O			To deliver forwarded PDUs		
SAE Bearers to Release List		0 to <maxnoof SAEbearers>				
> SAE Bearer ID	M					
Intra-LTE HO Information List	C- ifIntraLTE					
> Target eNodeB to Source eNodeB Transparent Container	M					
LTE to UTRAN HO Information List	C- ifLTEtoUTRAN					
> Target RNC to Source RNC Transparent Container	M			FFS if this is mandatory and needed		
LTE to GERAN HO Information List	C- ifLTEtoGERAN					
> Target BSS to Source BSS Transparent Container	M			FFS if this is mandatory and needed		

FIG. 14

