

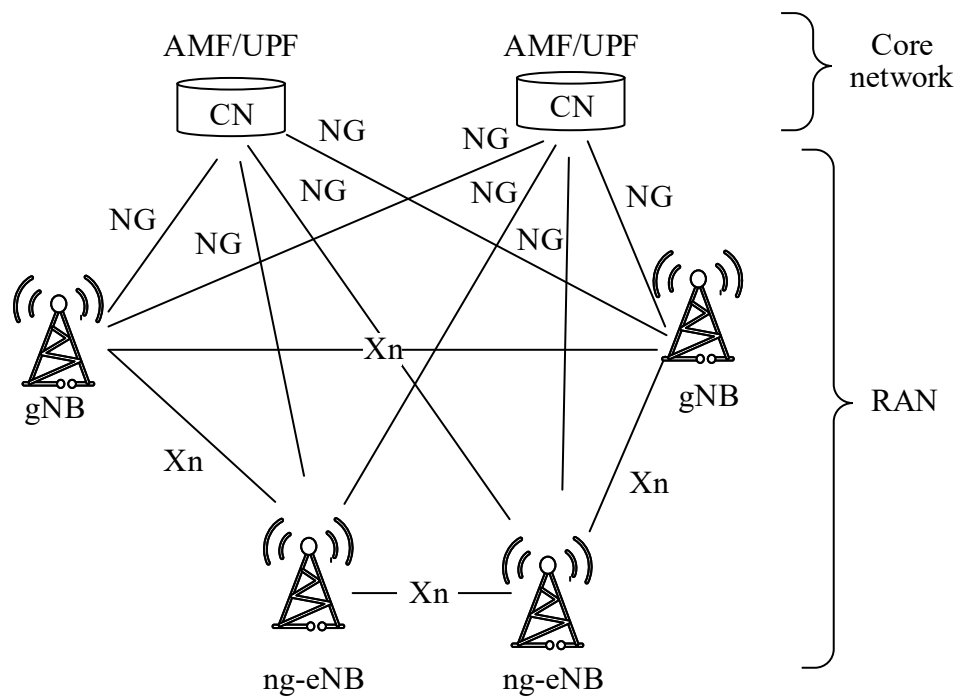


FIG. 1

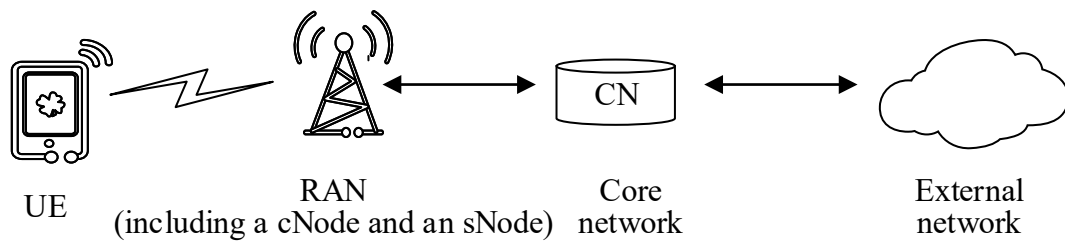


FIG. 2

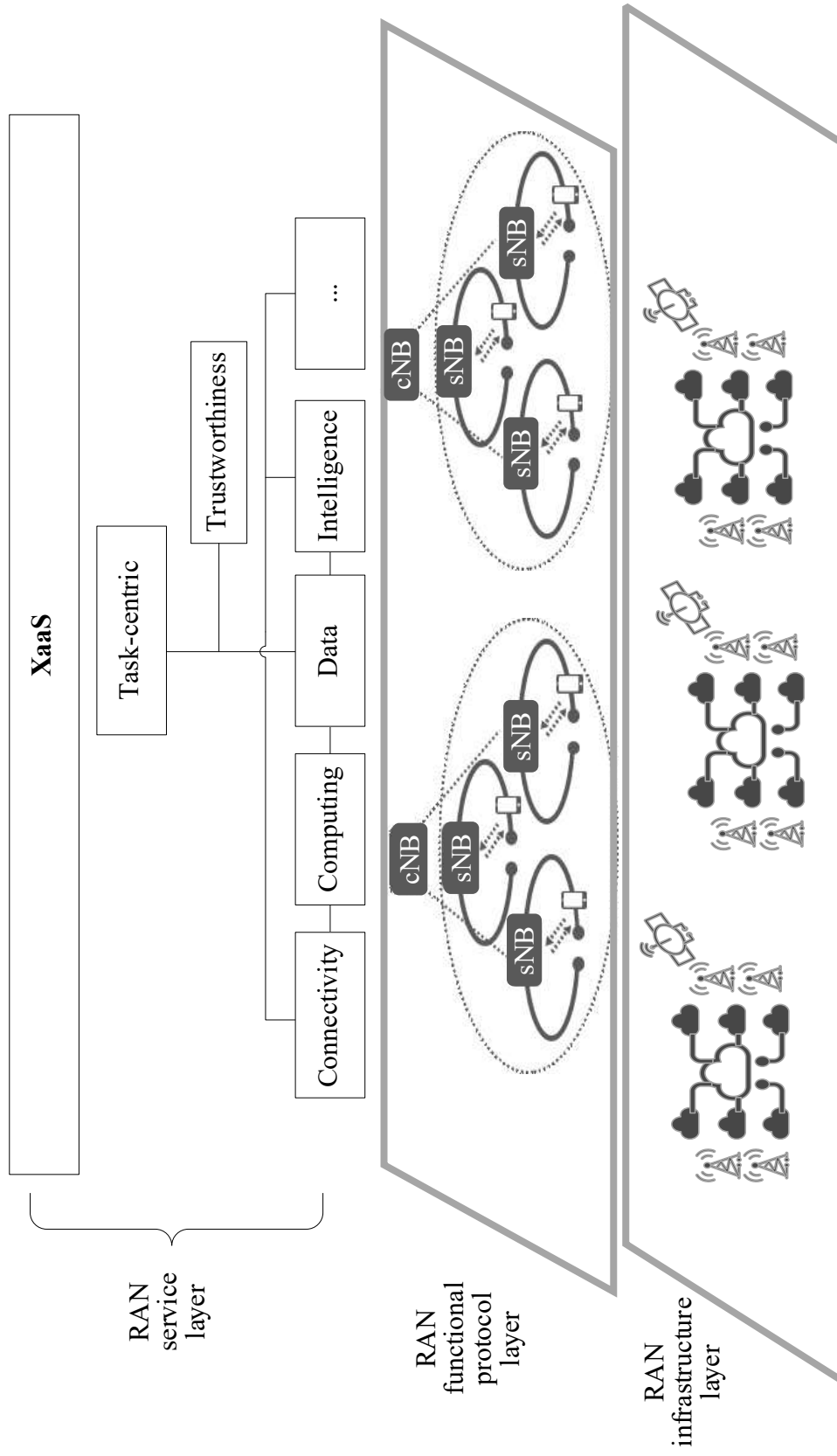


FIG. 3

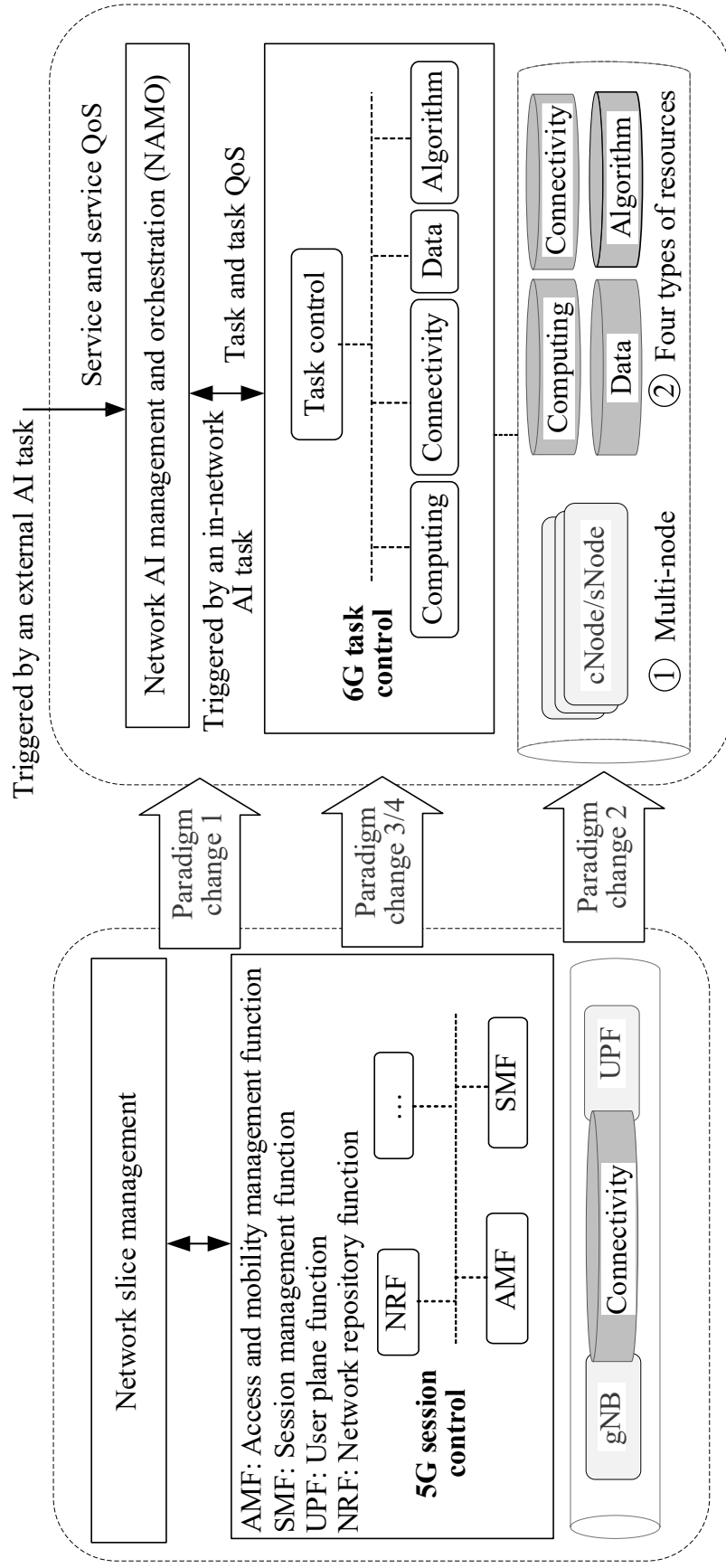


FIG. 4

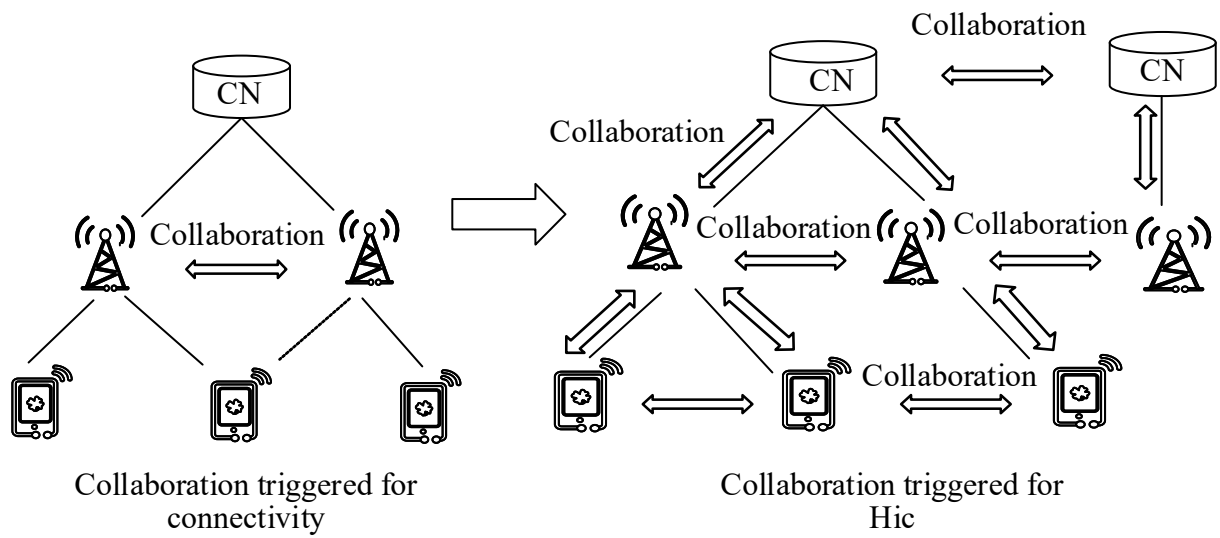


FIG. 5

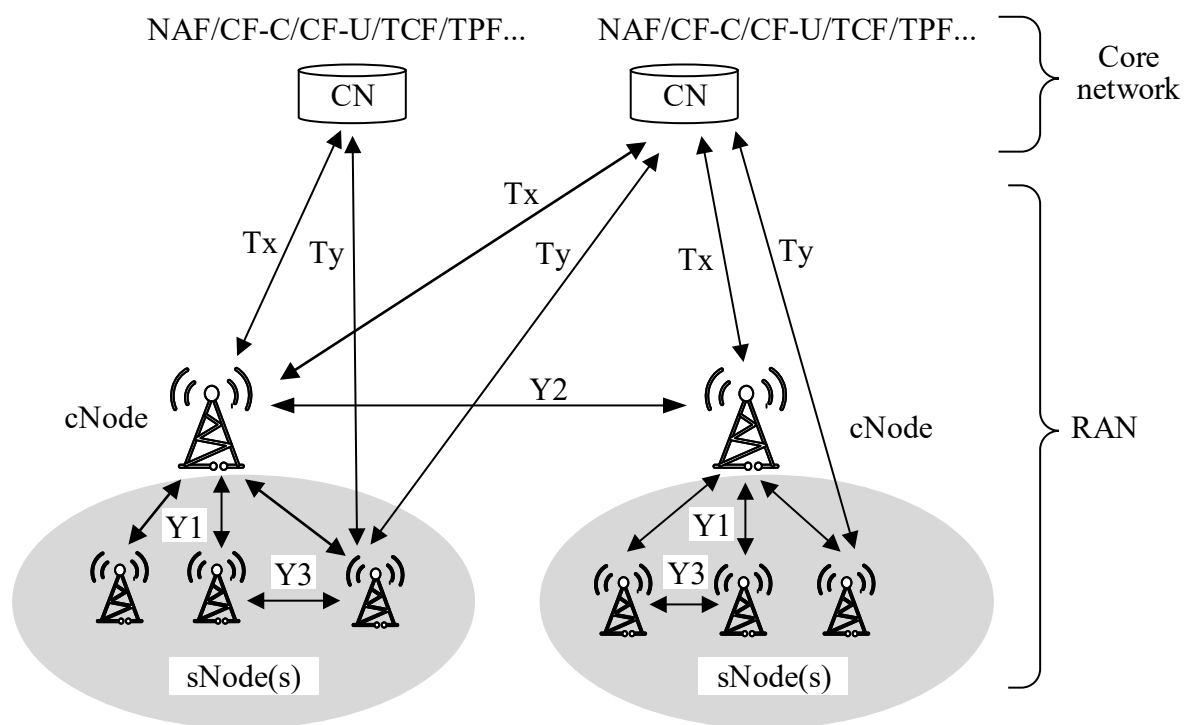


FIG. 6

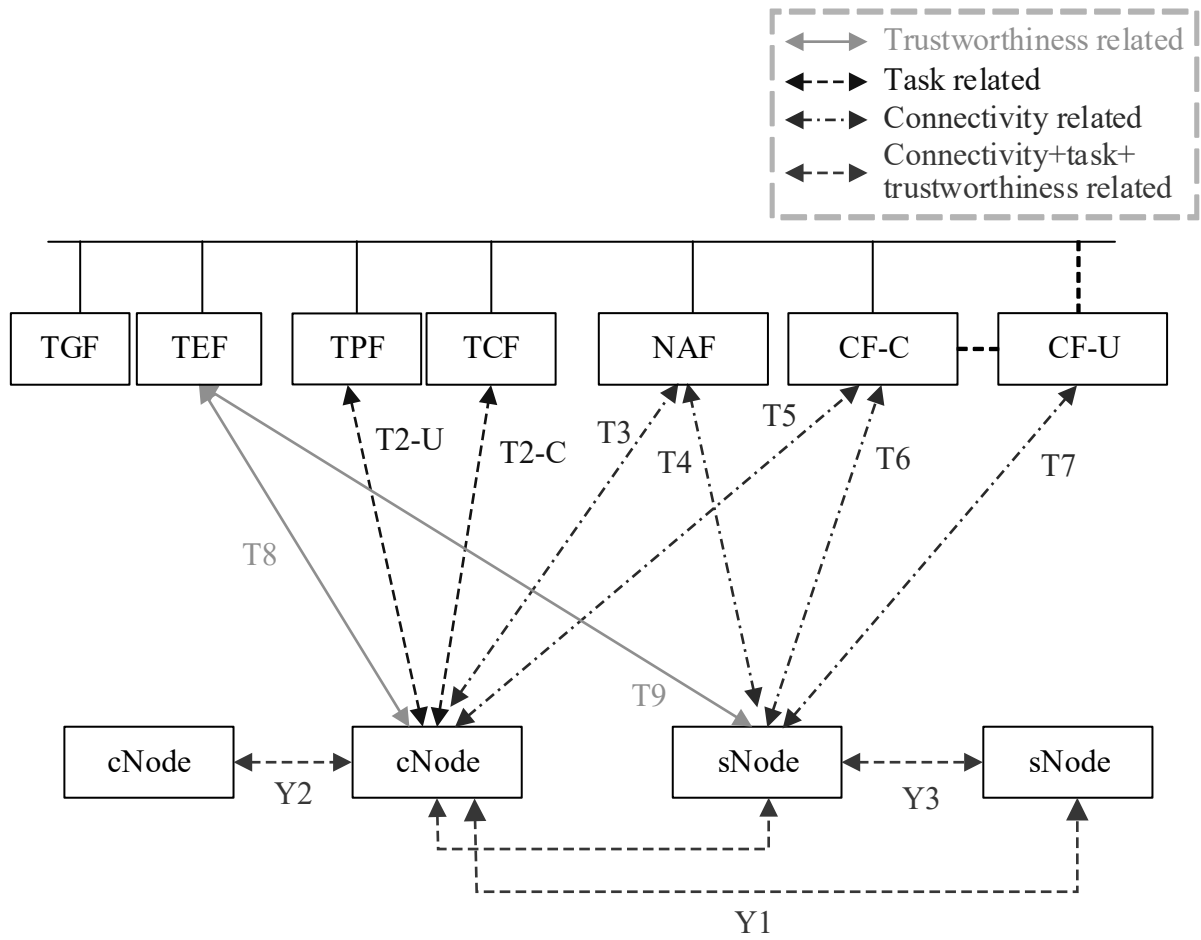


FIG. 7

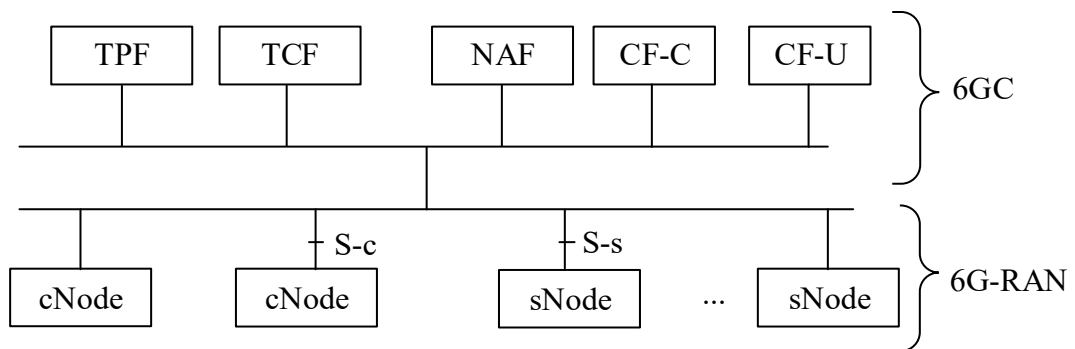


FIG. 8

6G RAN connectivity architecture (**Opt1: CP/UP separation**)

cNode: responsible for a connectivity-related control function

sNode: responsible for a connectivity-related data function

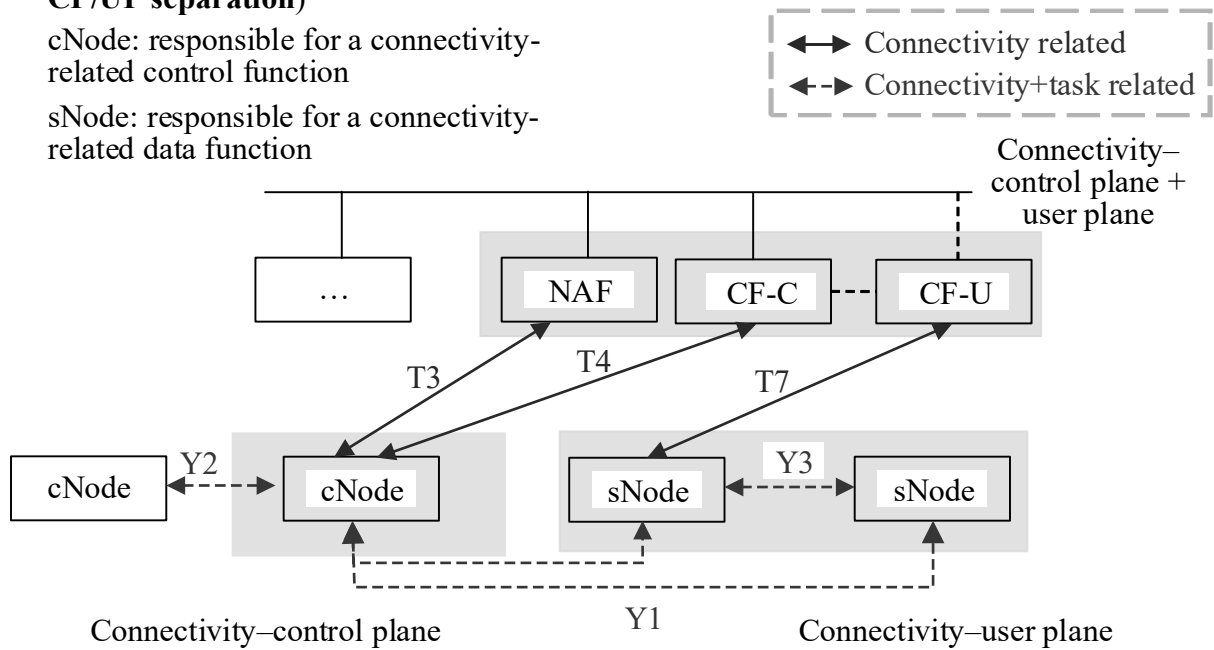


FIG. 9

6G RAN connectivity architecture (**opt2: CP/UP non-separation**)

- cNode: with no connectivity-related function
- sNode: with all connectivity-related functions

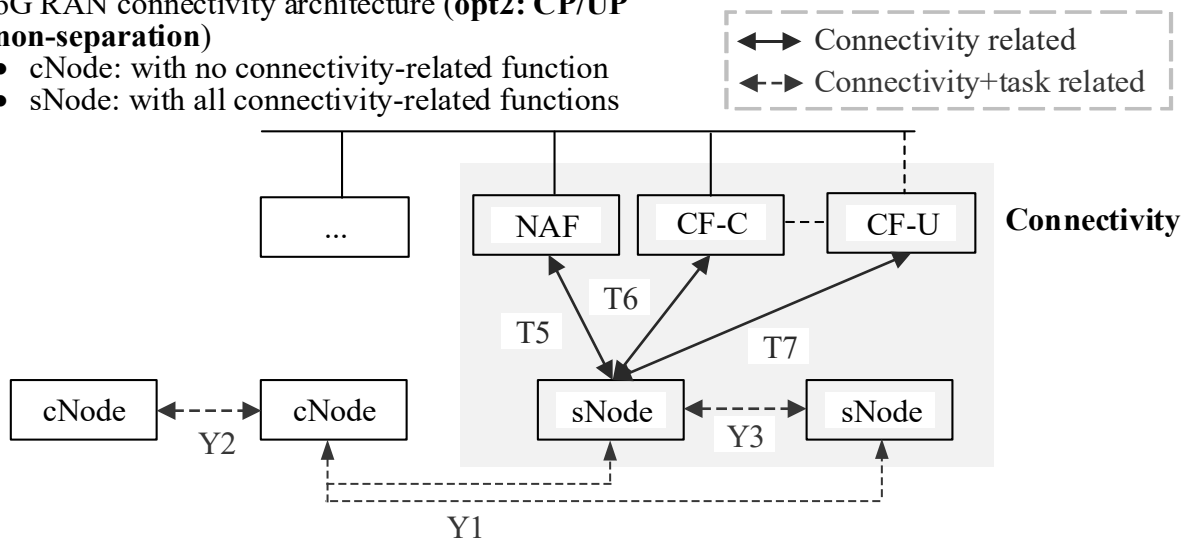


FIG. 10

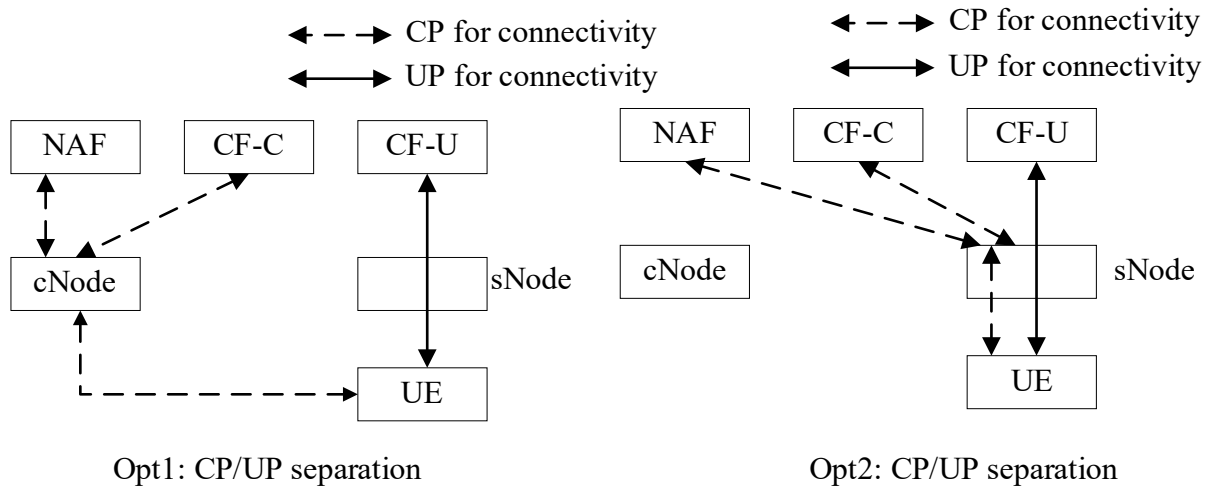


FIG. 11

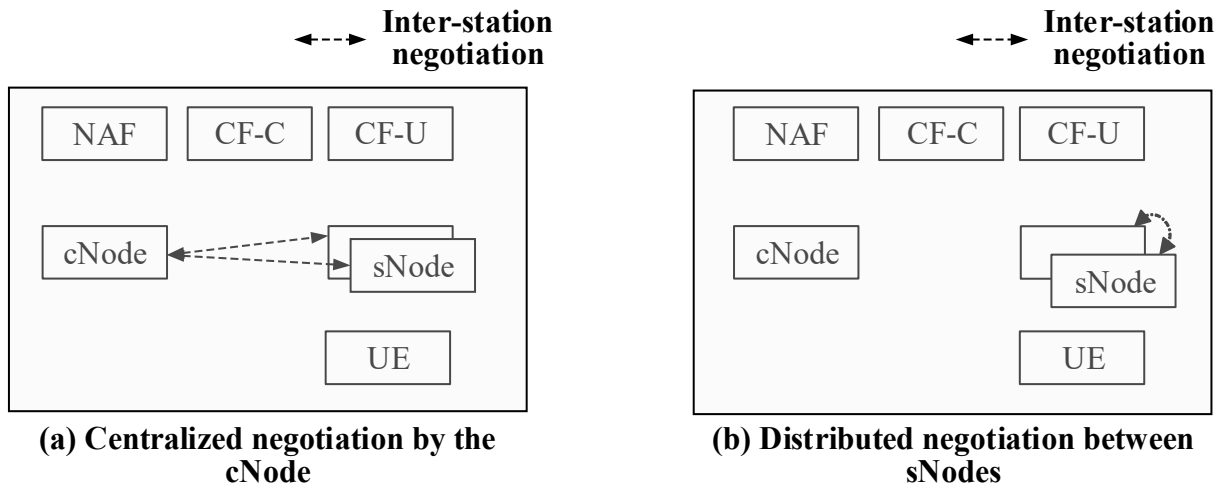


FIG. 12

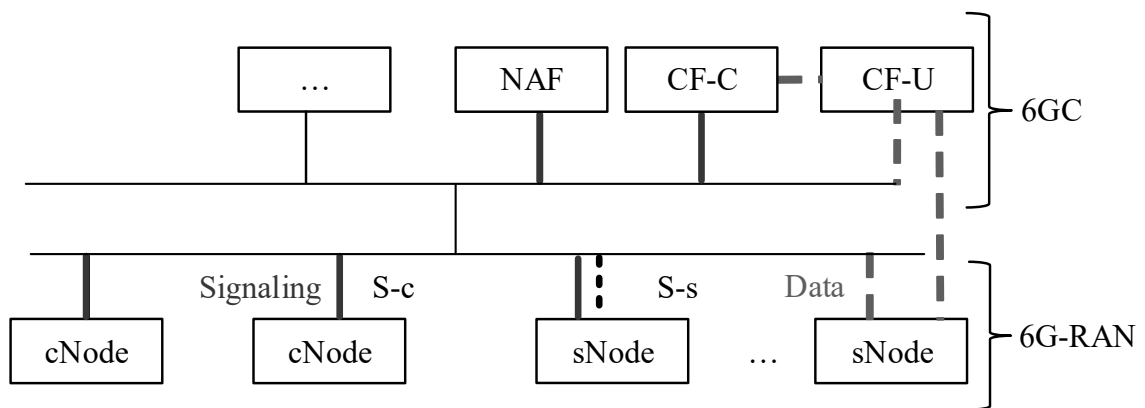


FIG. 13

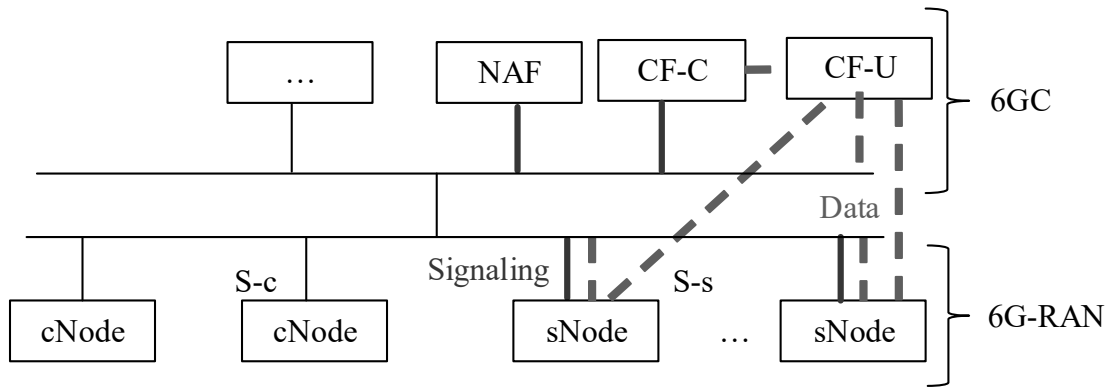


FIG. 14

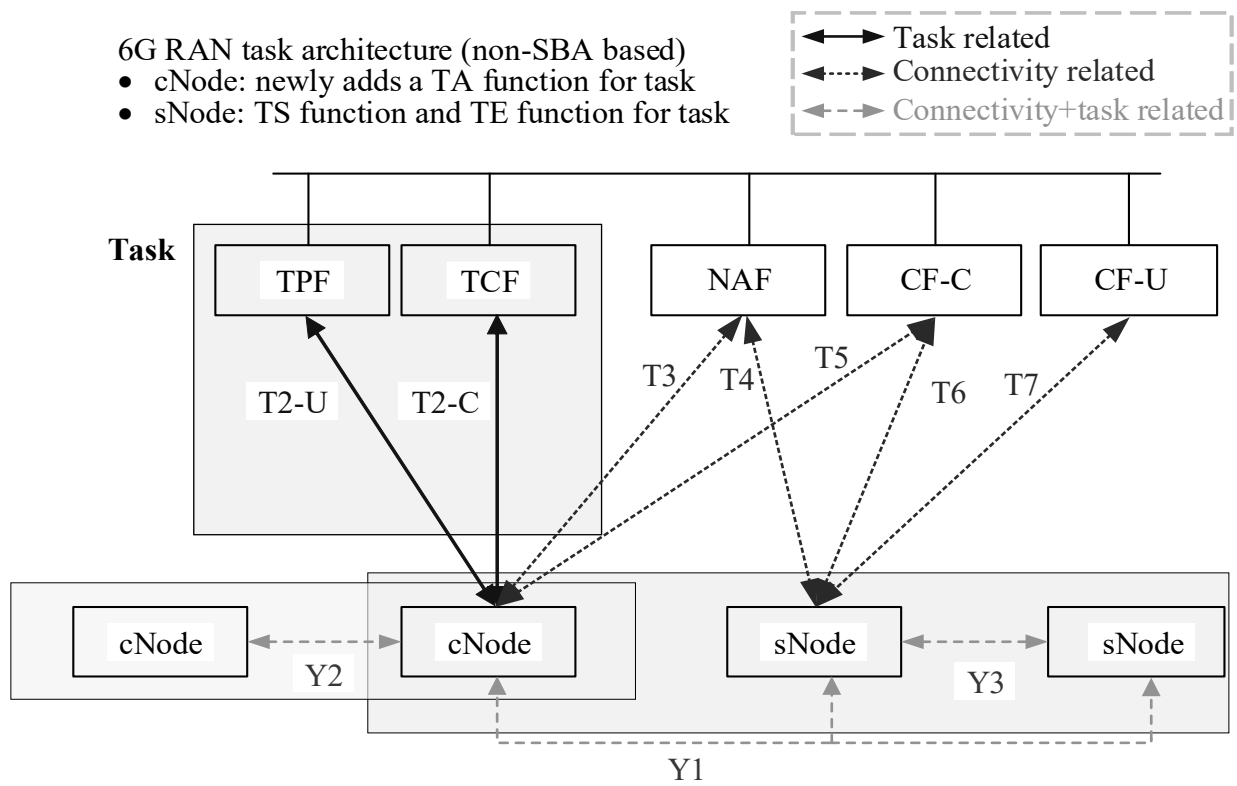


FIG. 15

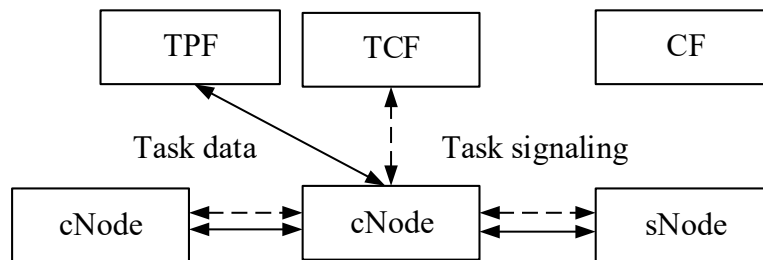
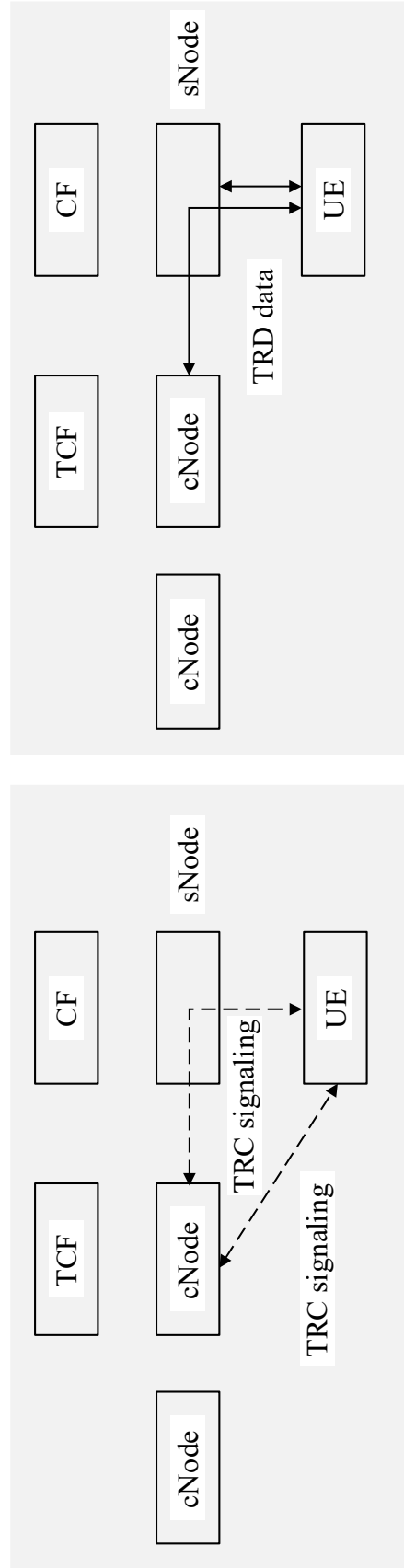


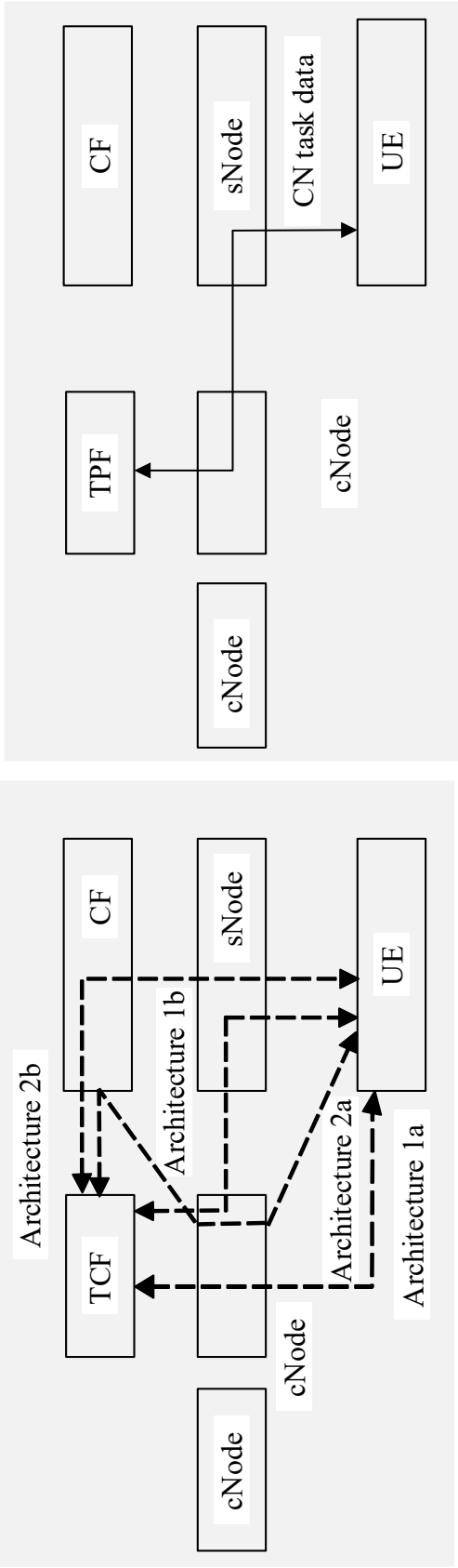
FIG. 16



Task architecture: TRC task signaling

Task architecture: TRC task data

FIG. 17



Task architecture: T-NAS task data

Task architecture: T-NAS task signaling

FIG. 18

6G RAN task architecture (SBA based)

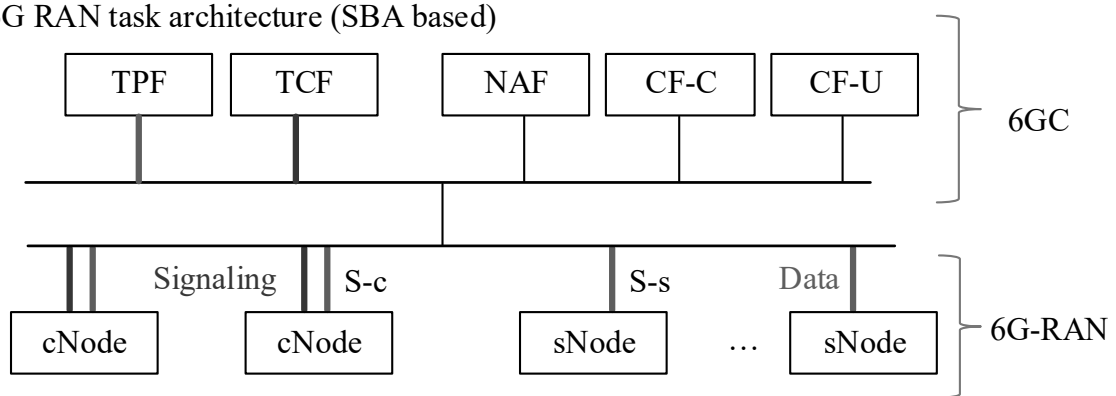


FIG. 19

6G RAN trustworthiness architecture (non-SBA based)

- cNode: newly adds a trustworthiness function (TWE/TWG)
- sNode: newly adds a trustworthiness function (TWG)

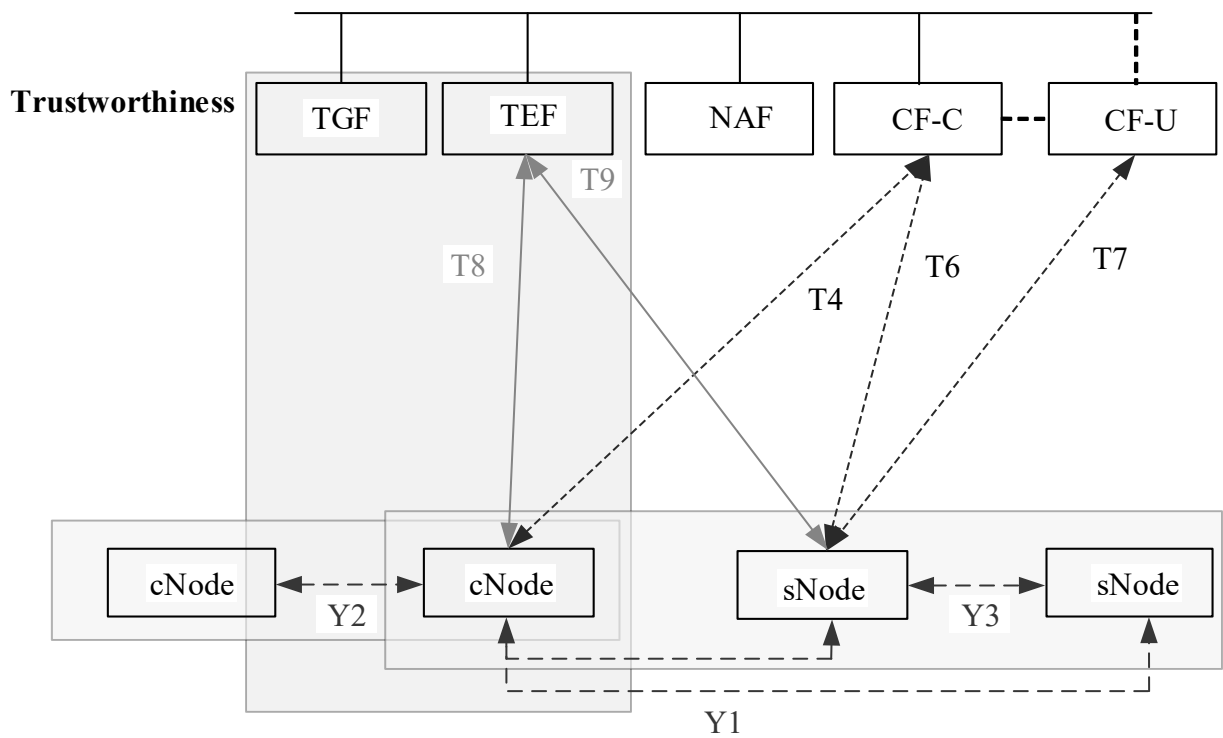
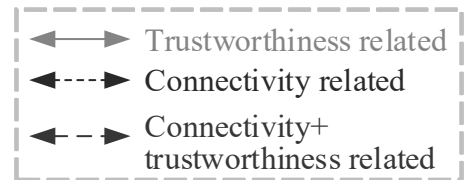


FIG. 20

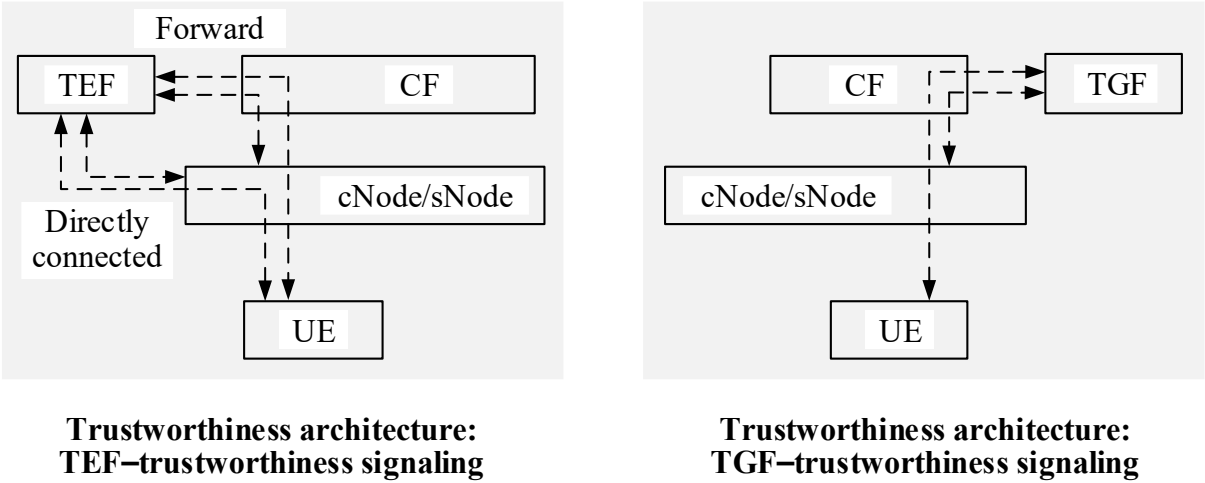


FIG. 21

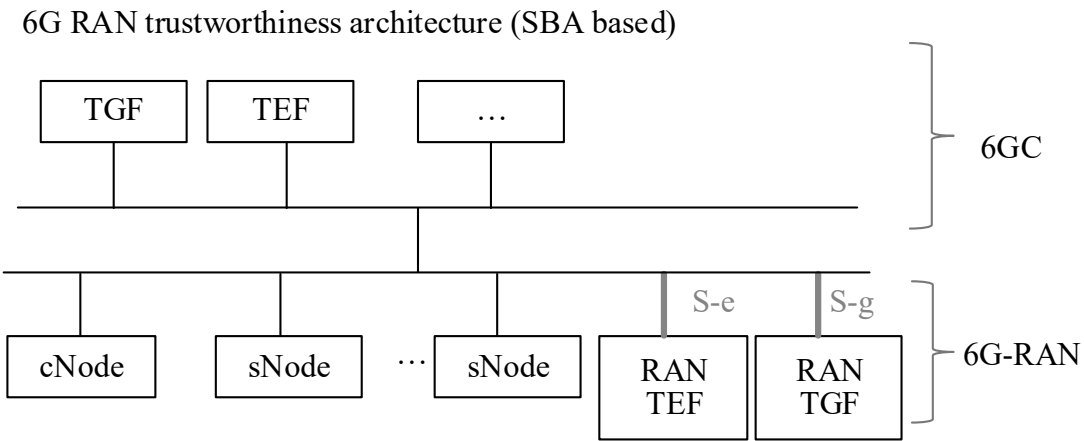


FIG. 22

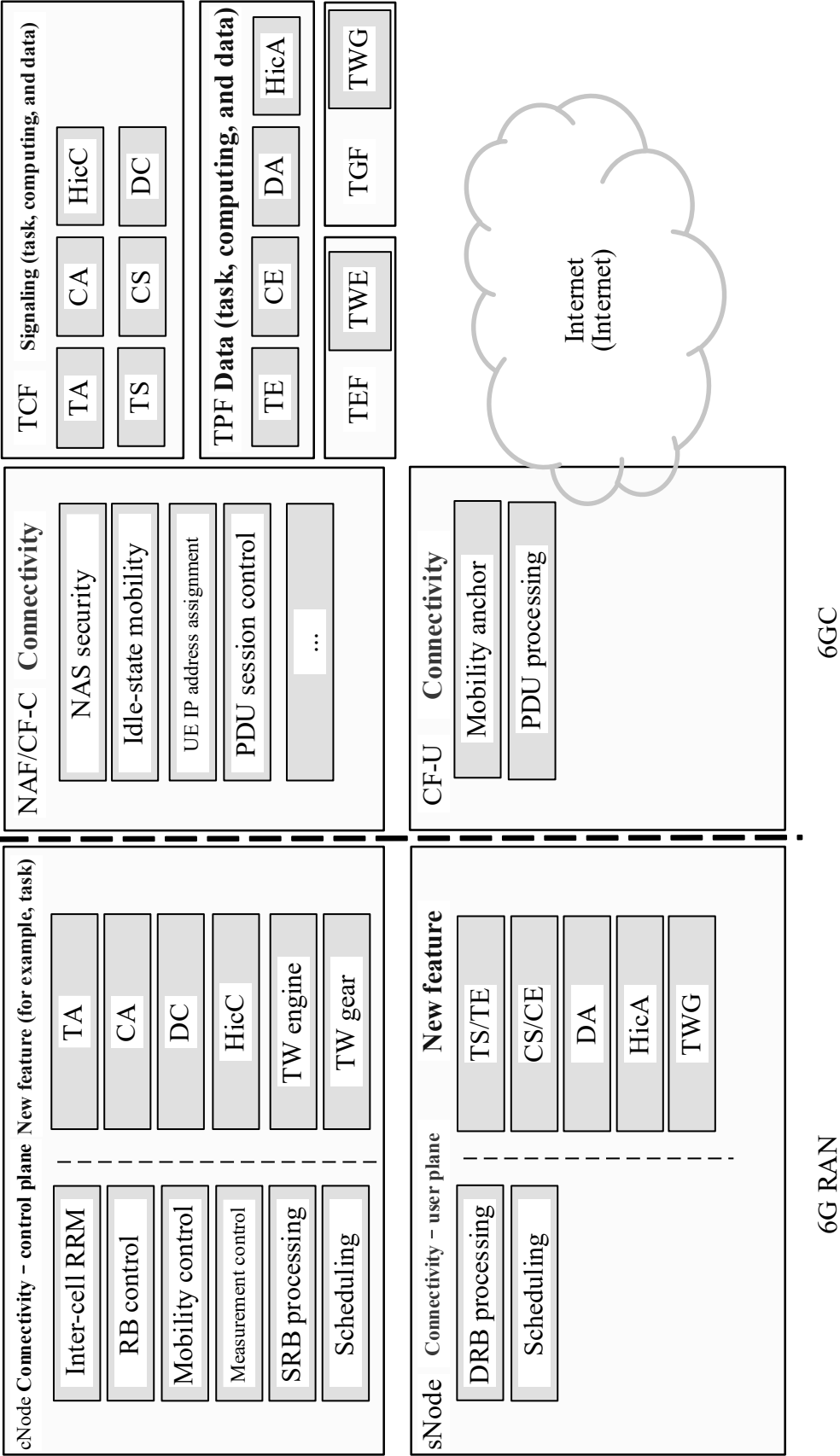


FIG. 23

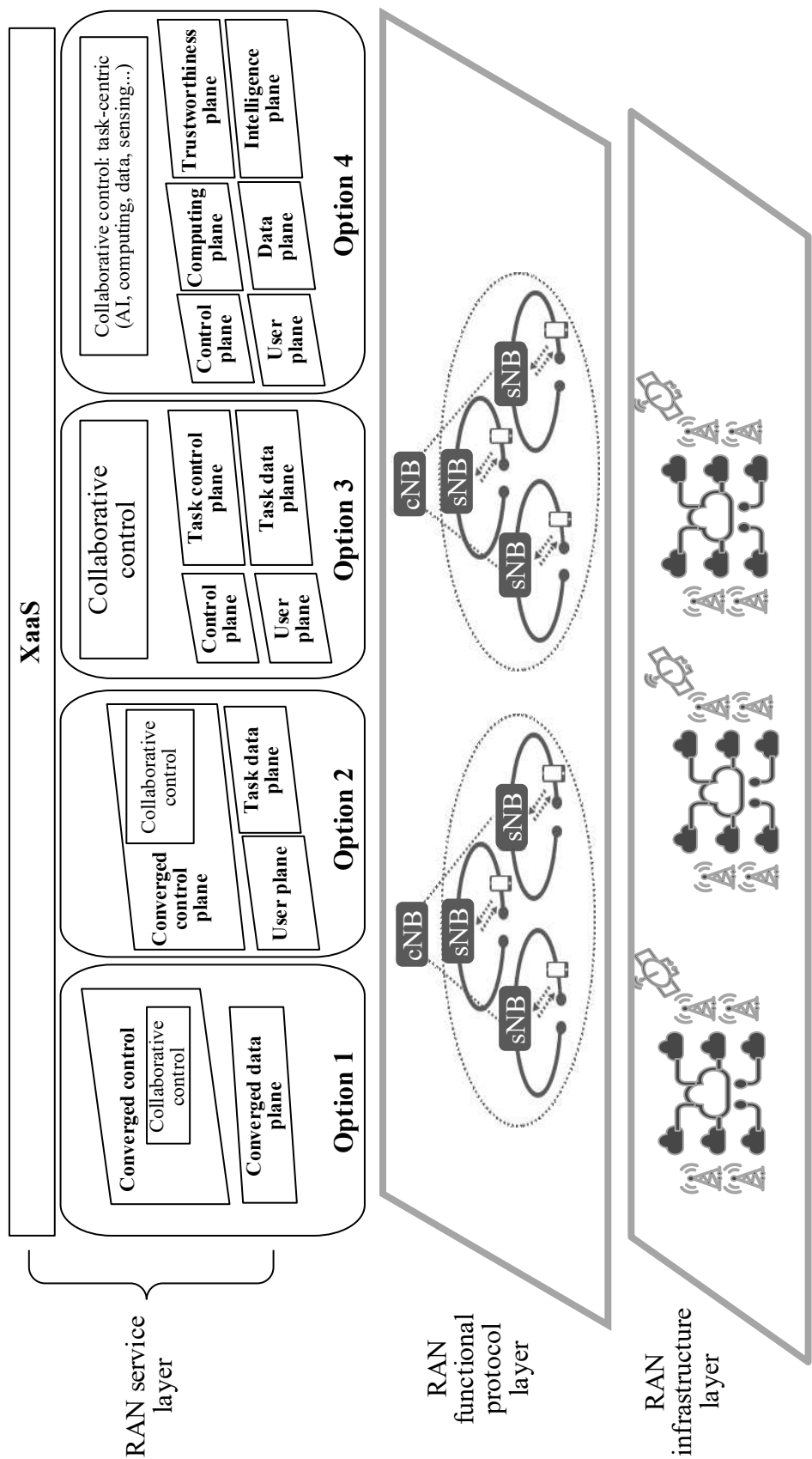


FIG. 24

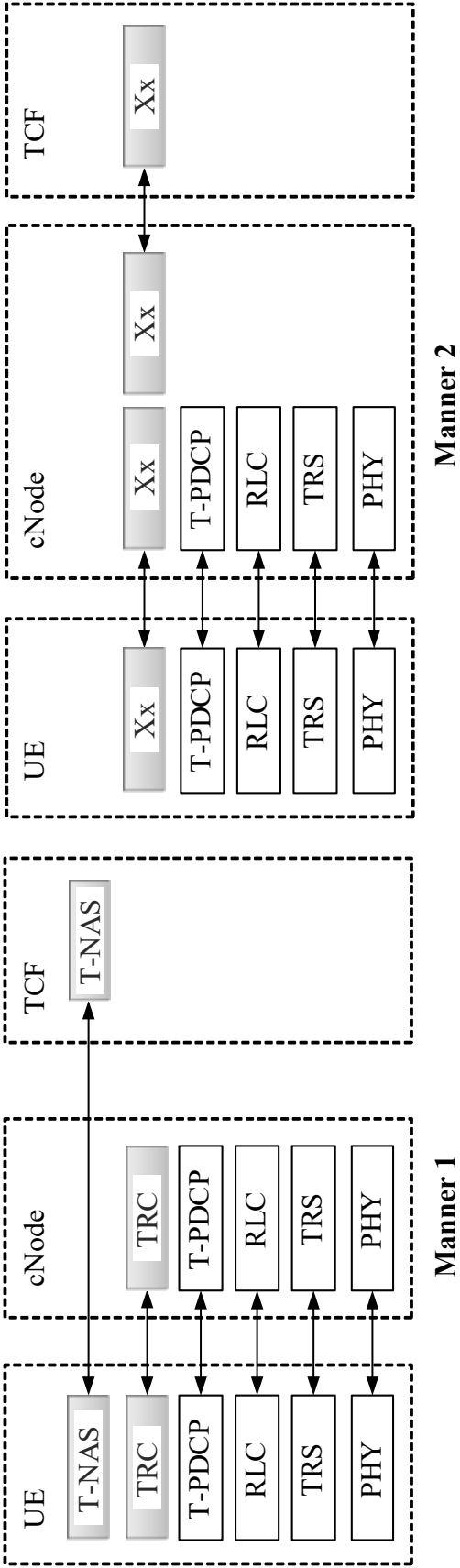


FIG. 25

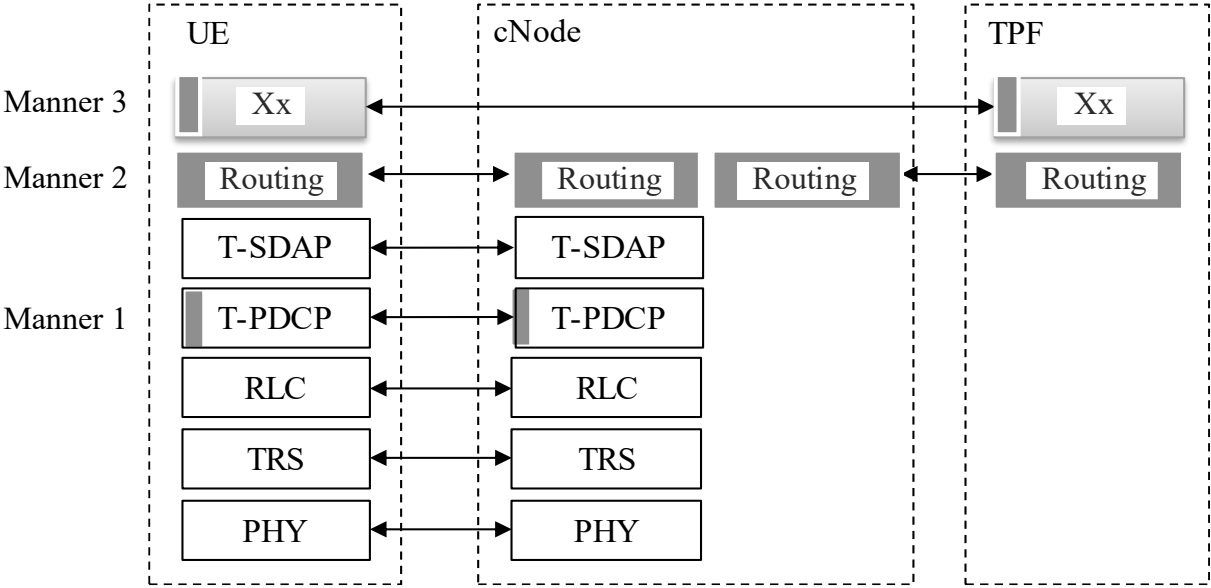


FIG. 26

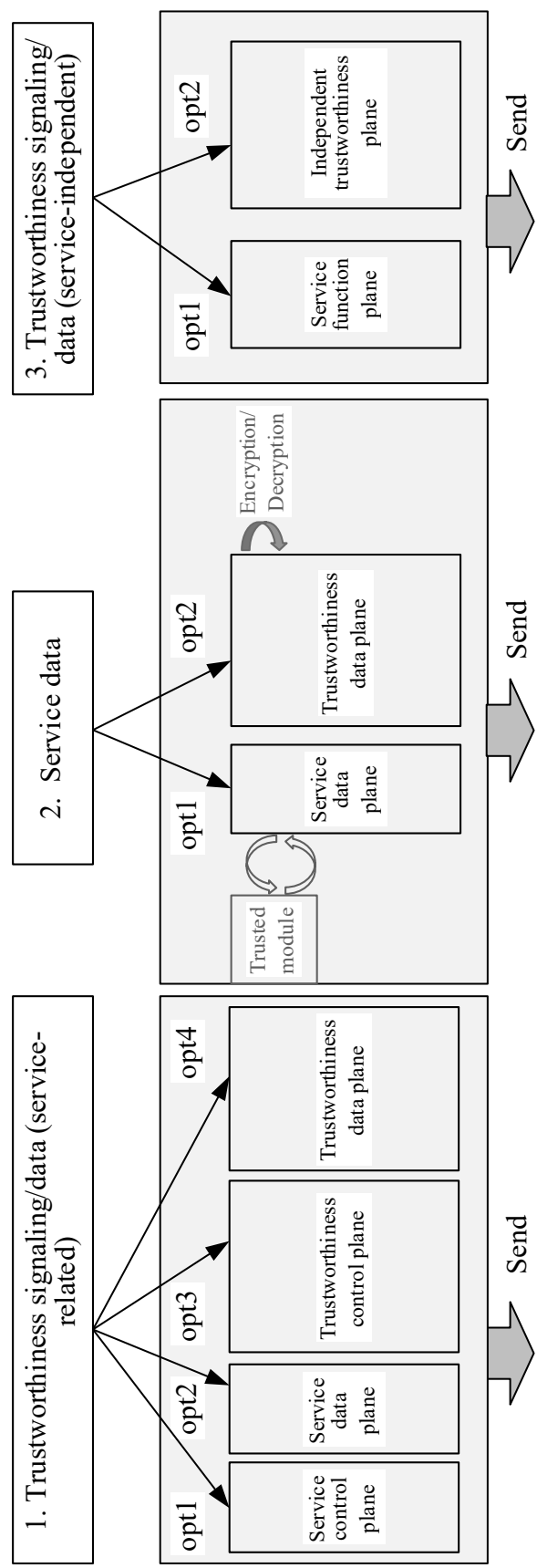


FIG. 27

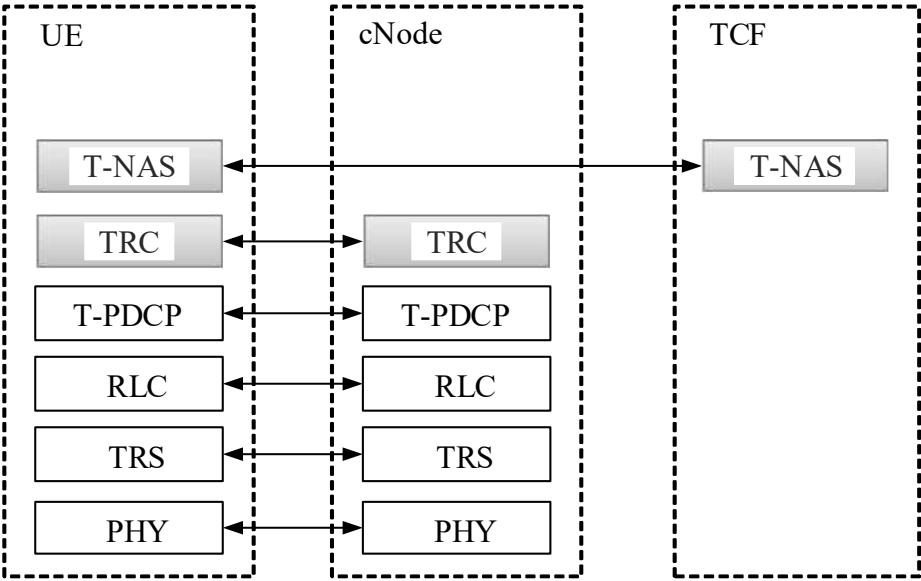


FIG. 28

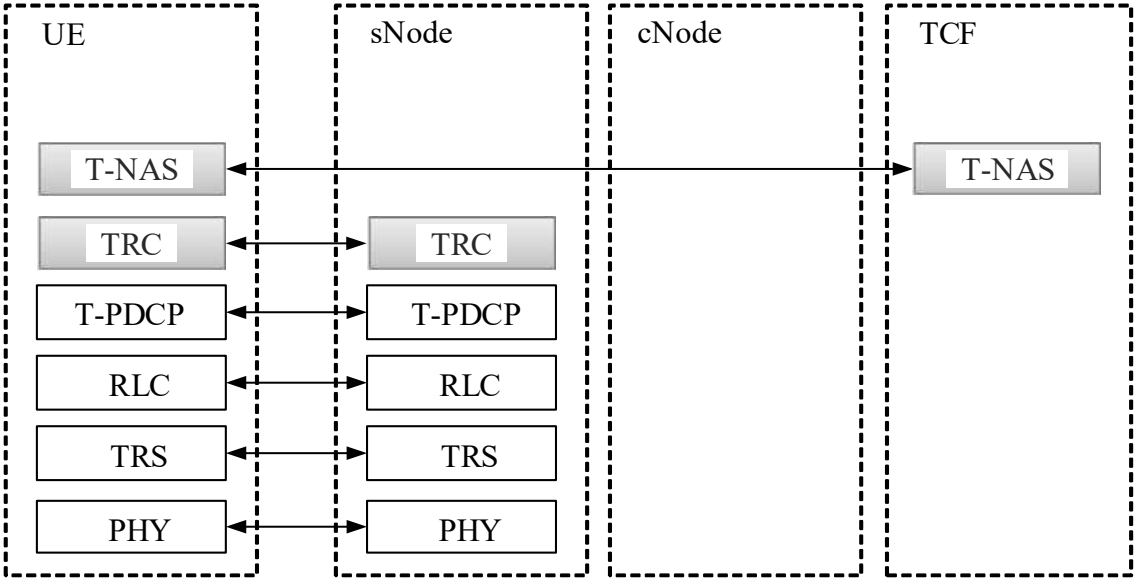


FIG. 29

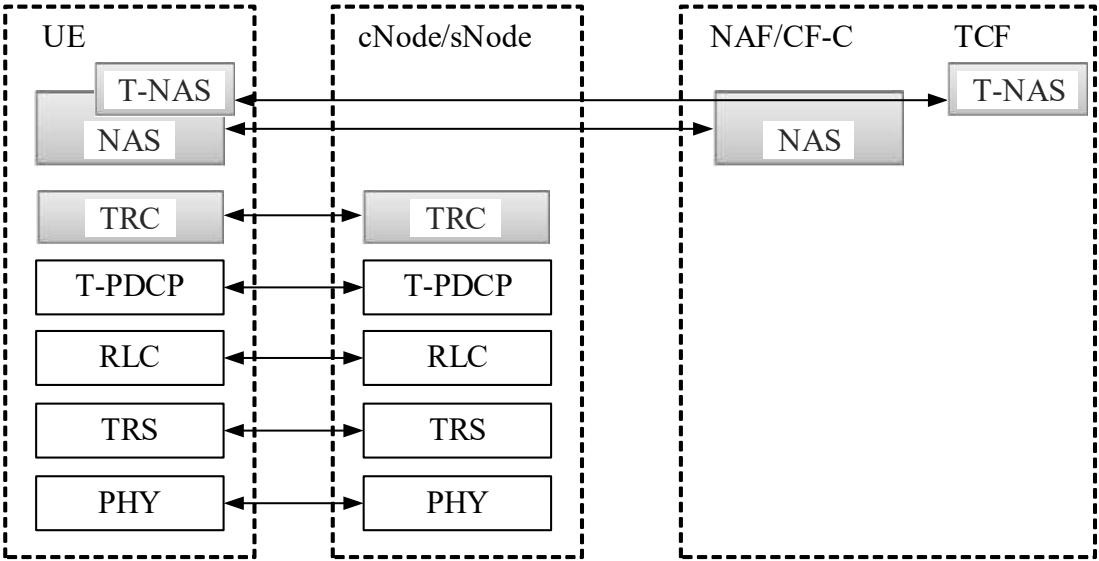


FIG. 30

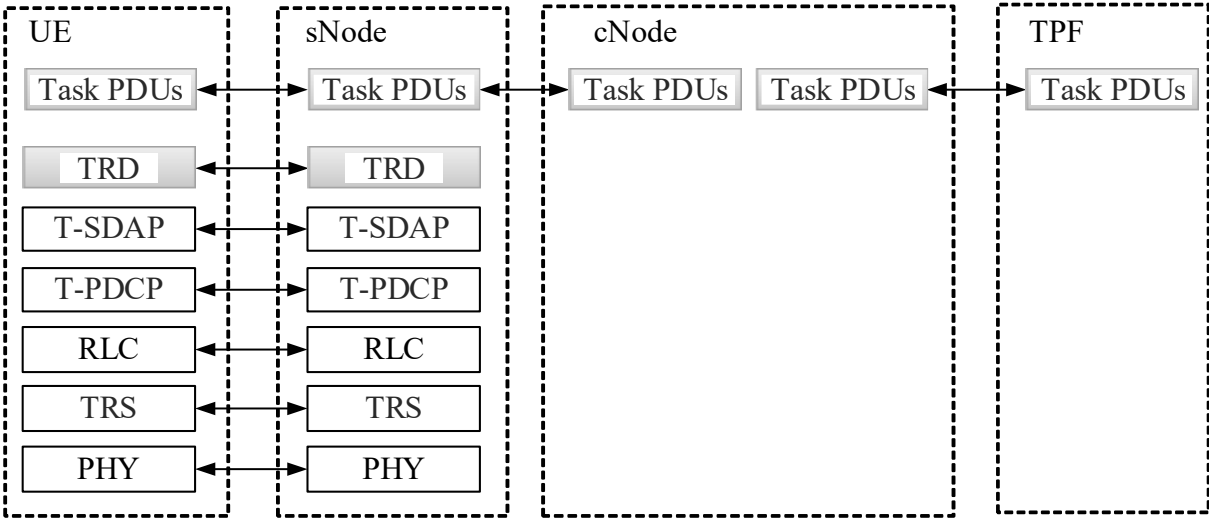


FIG. 31

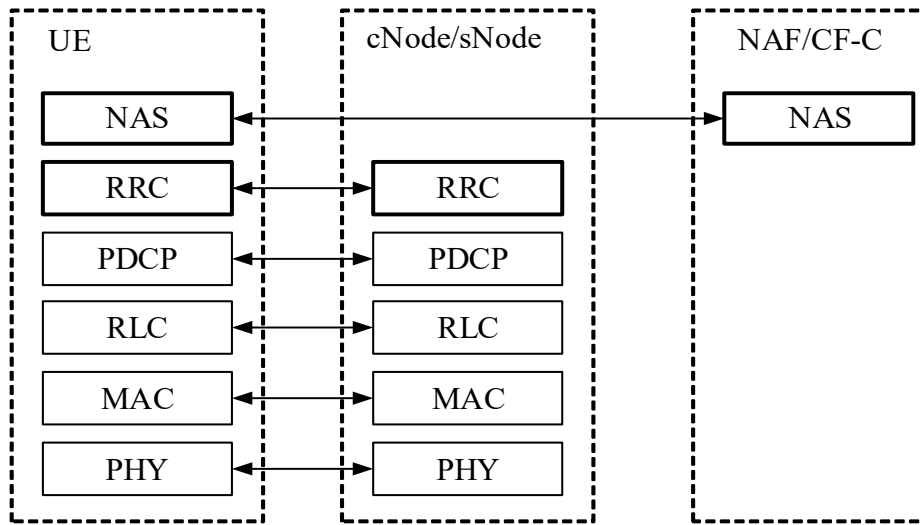


FIG. 32

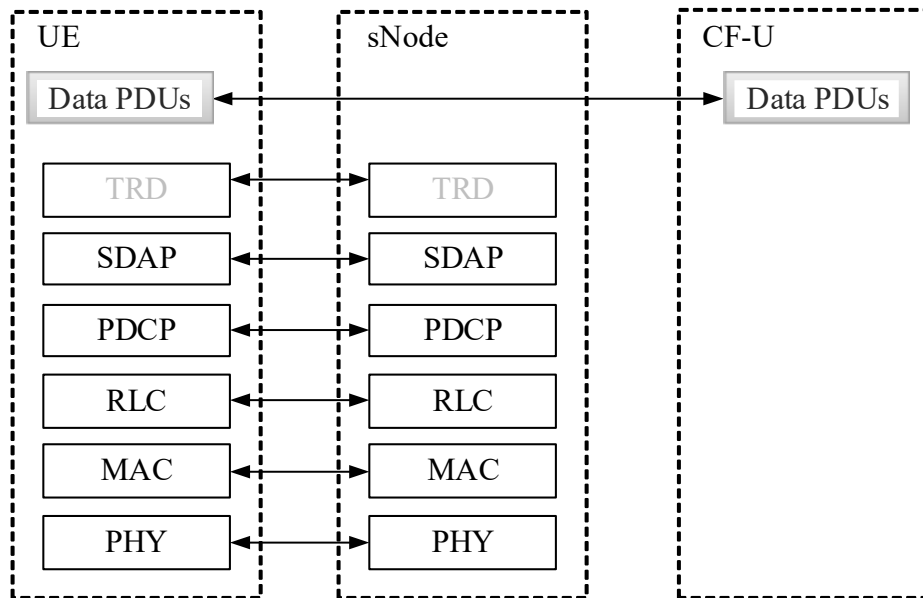


FIG. 33

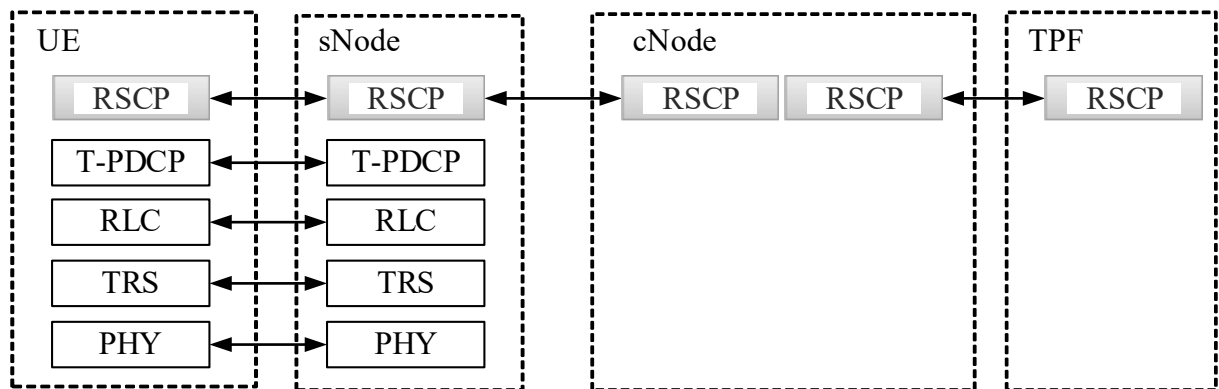


FIG. 34

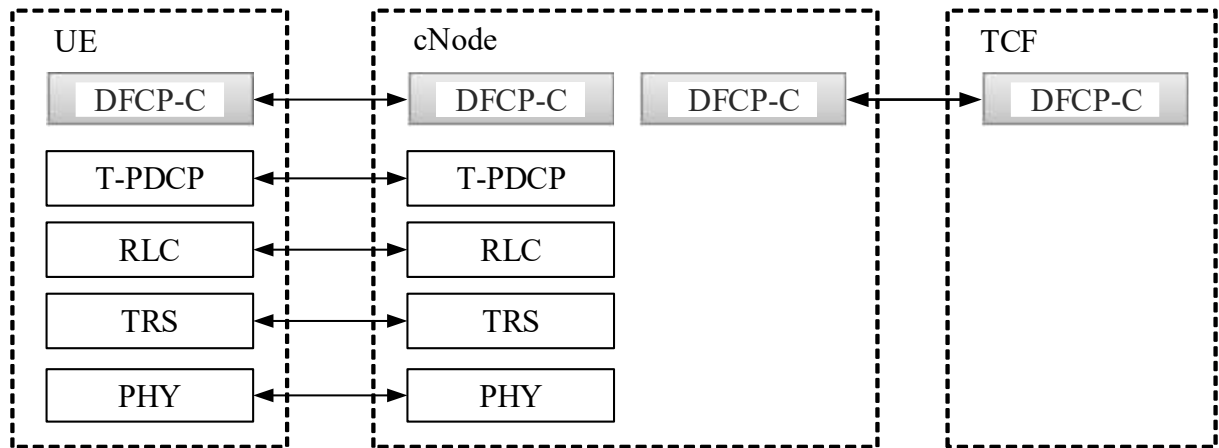


FIG. 35

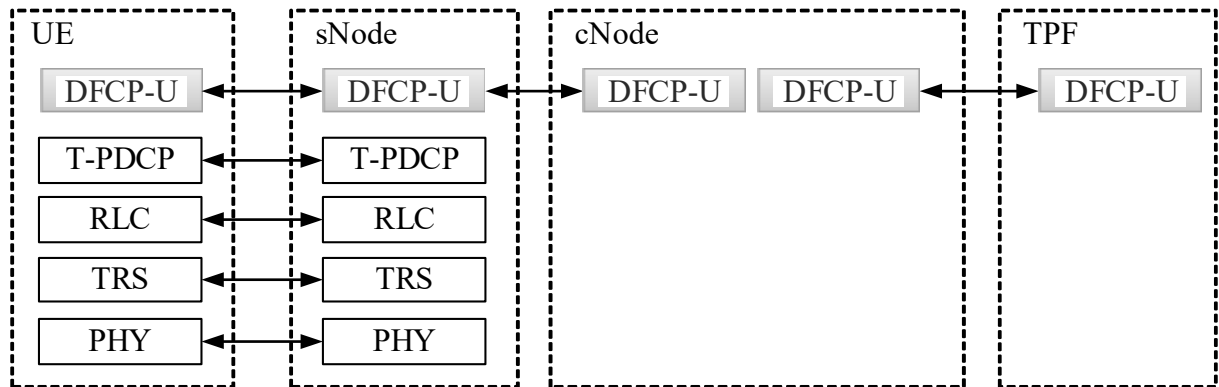


FIG. 36

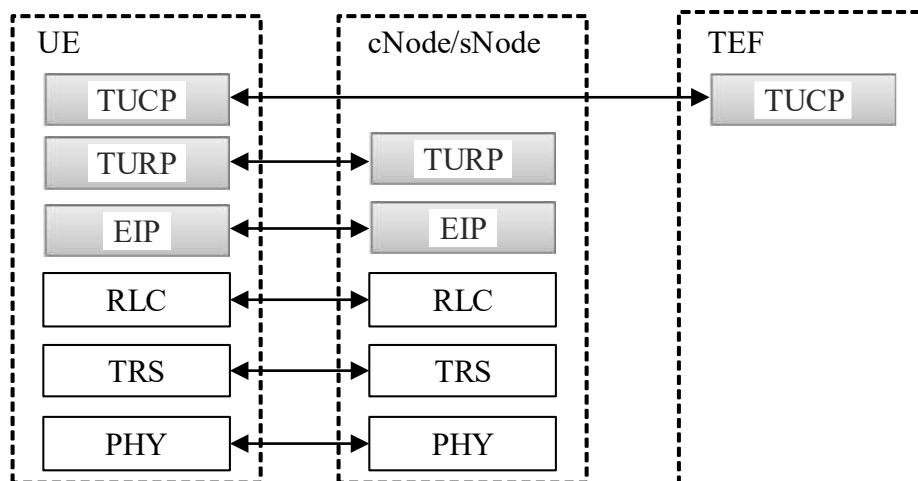


FIG. 37

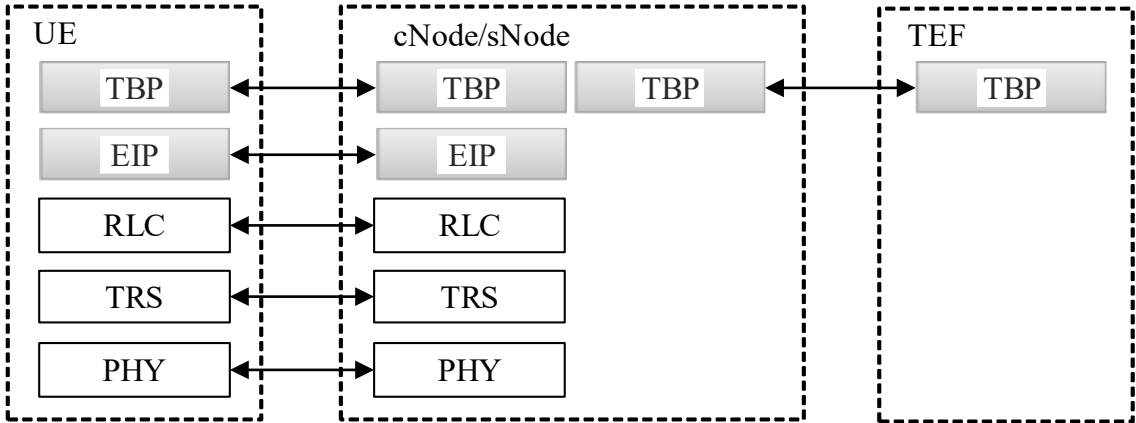


FIG. 38

User plane PDUs	Task PDUs	Task PDUs	Task PDUs	Task PDUs
GTP-U	GTP-U	RDMA	GTP-U	GTP-U
UDP	UDP/QUIC	IB transmission	SRv6	Model/Data identifier
IP	IP	IP/IB network		
Link layer	Link layer	Link layer	Link layer	Link layer
Physical layer	Physical layer	Physical layer	Physical layer	Physical layer

FIG. 39

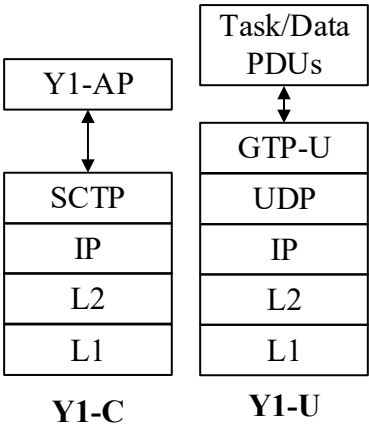


FIG. 40

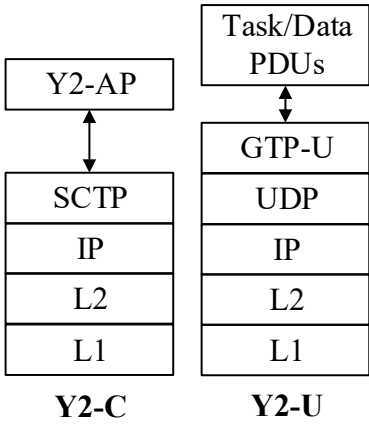


FIG. 41

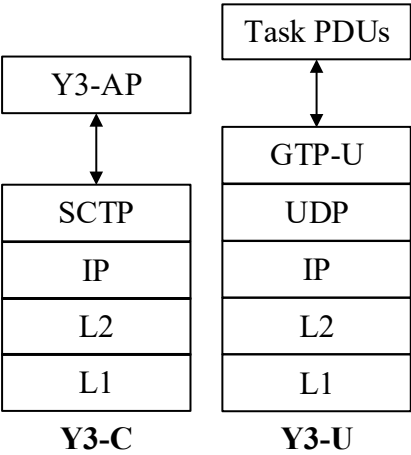


FIG. 42

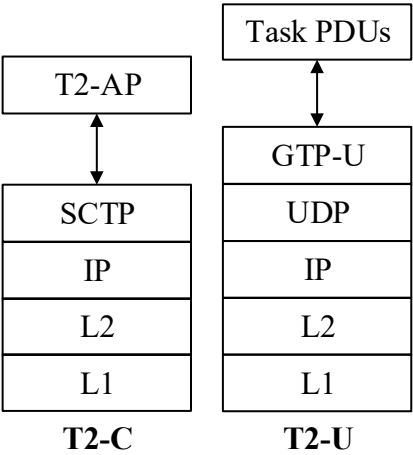


FIG. 43

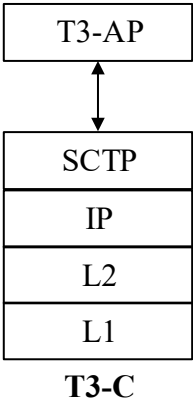


FIG. 44

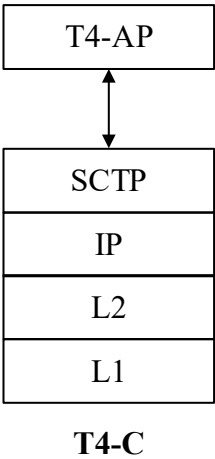


FIG. 45

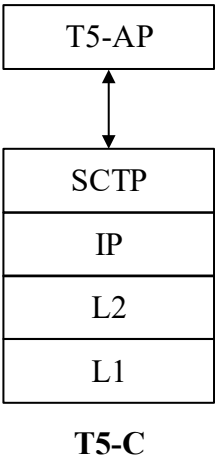


FIG. 46

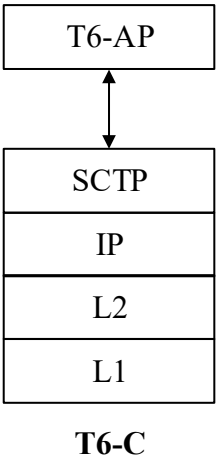


FIG. 47

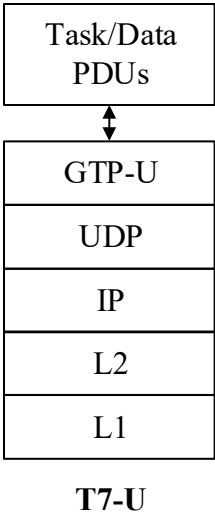


FIG. 48

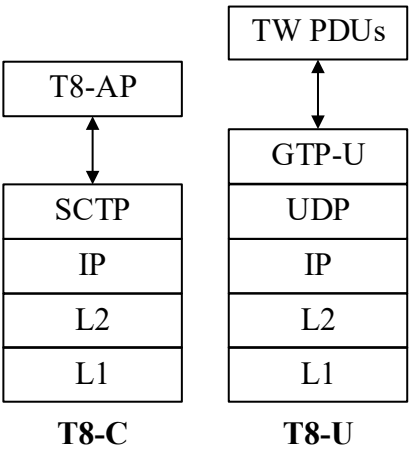


FIG. 49

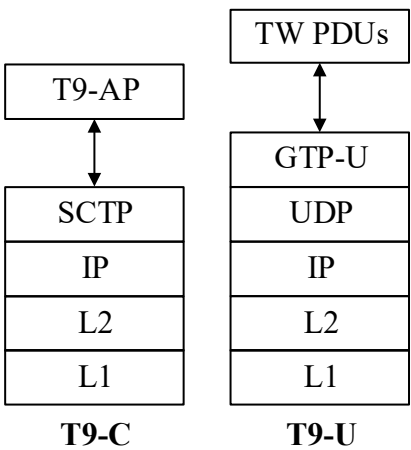
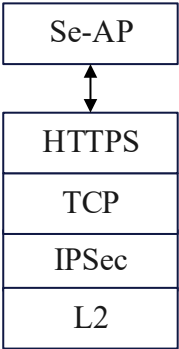


FIG. 50

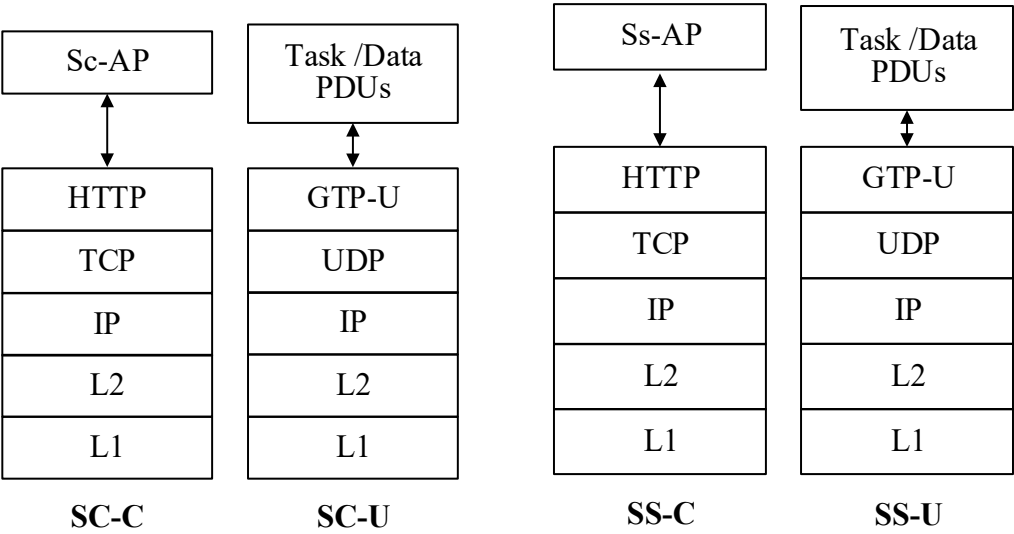


FIG. 51

FIG. 52

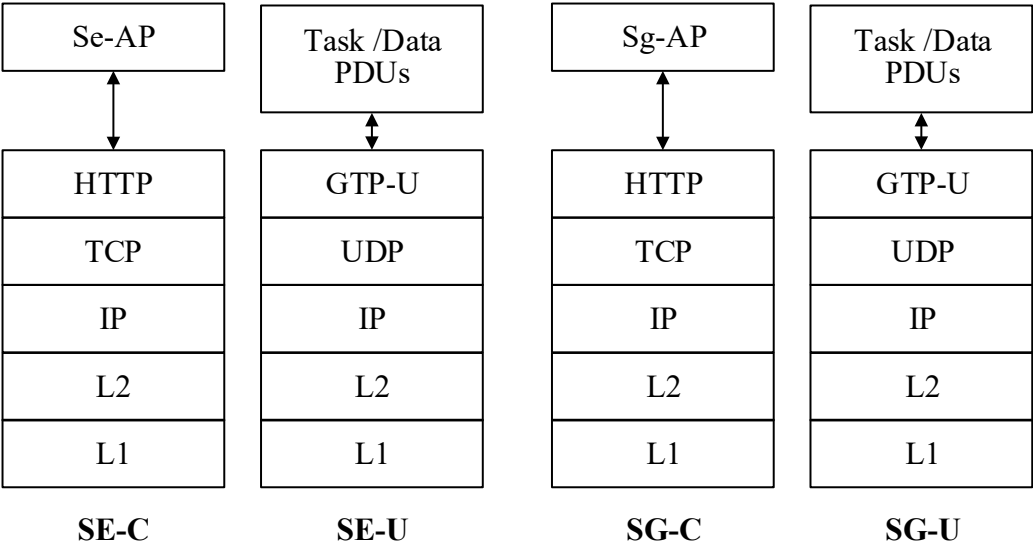


FIG. 53

FIG. 54

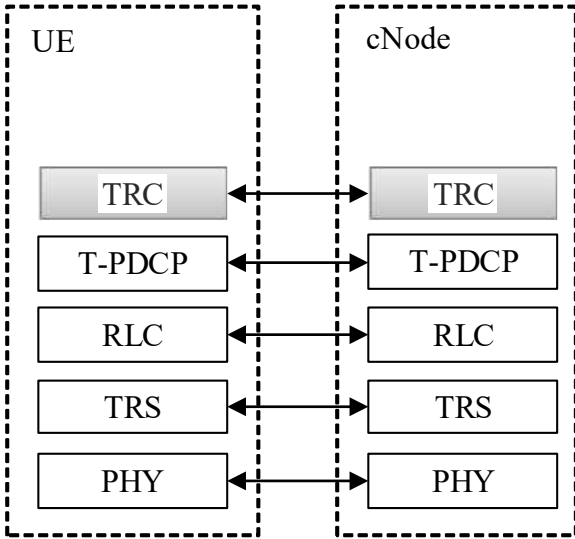


FIG. 55

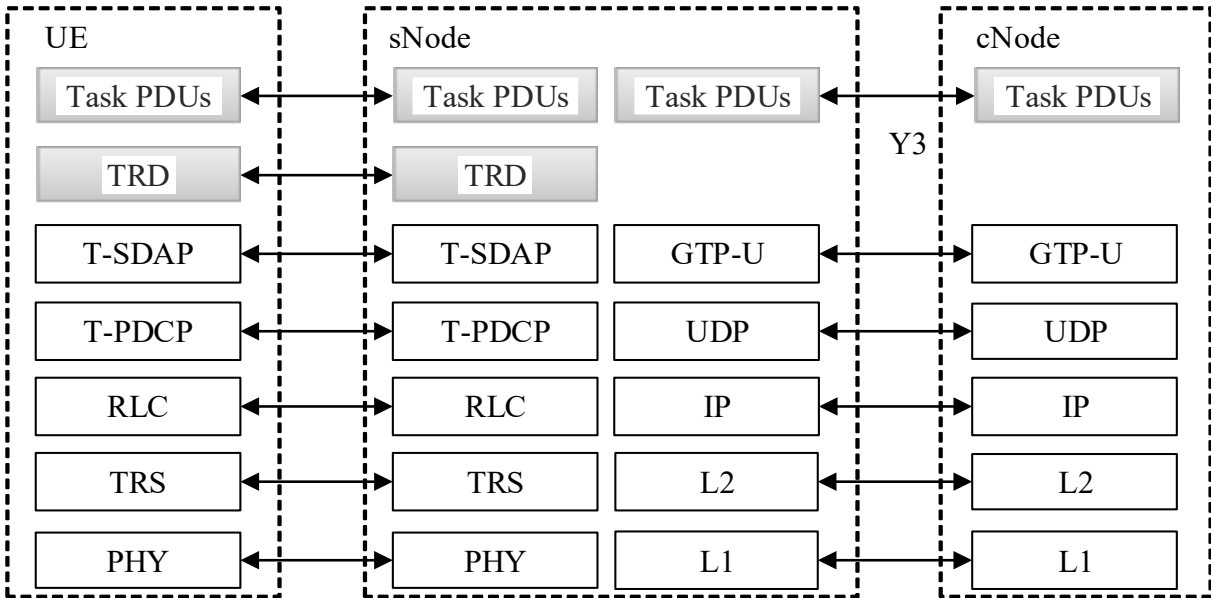


FIG. 56

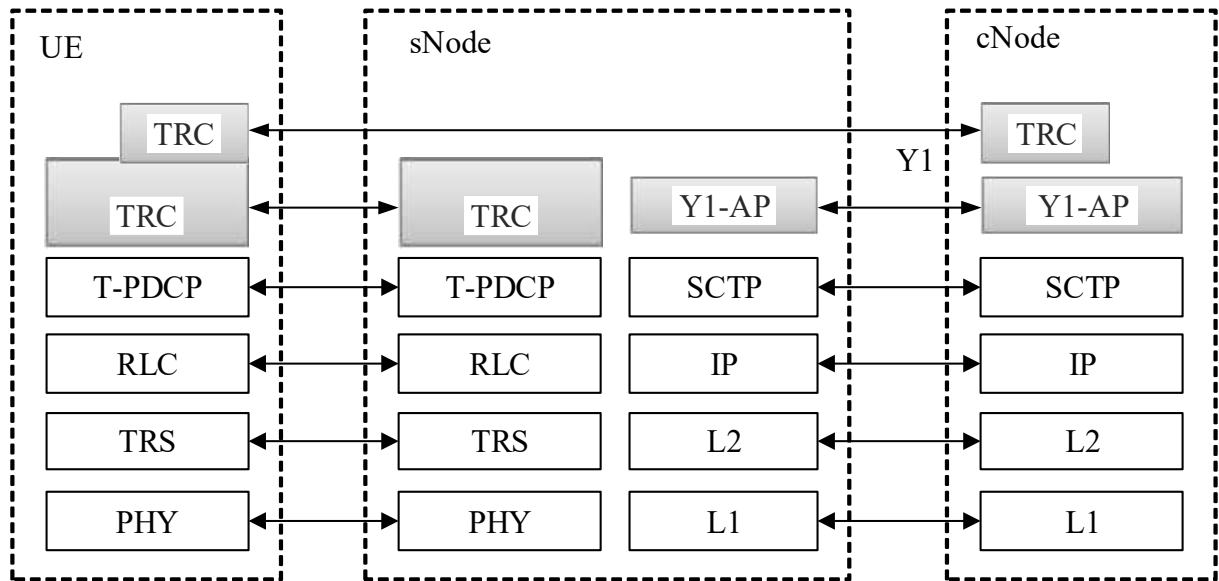


FIG. 57

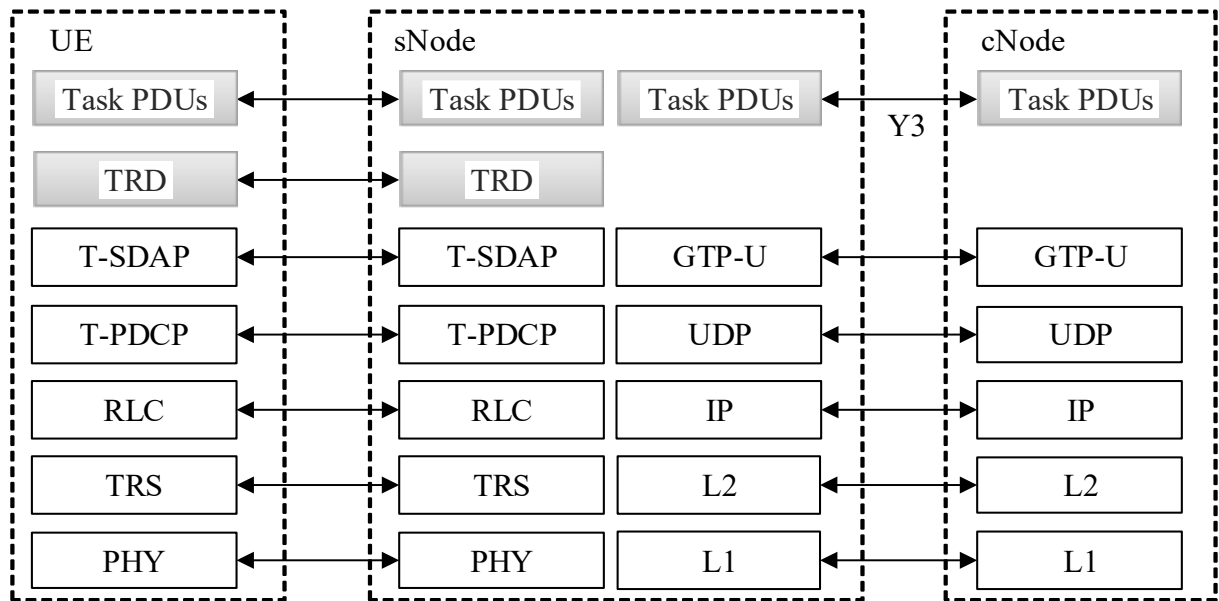


FIG. 58

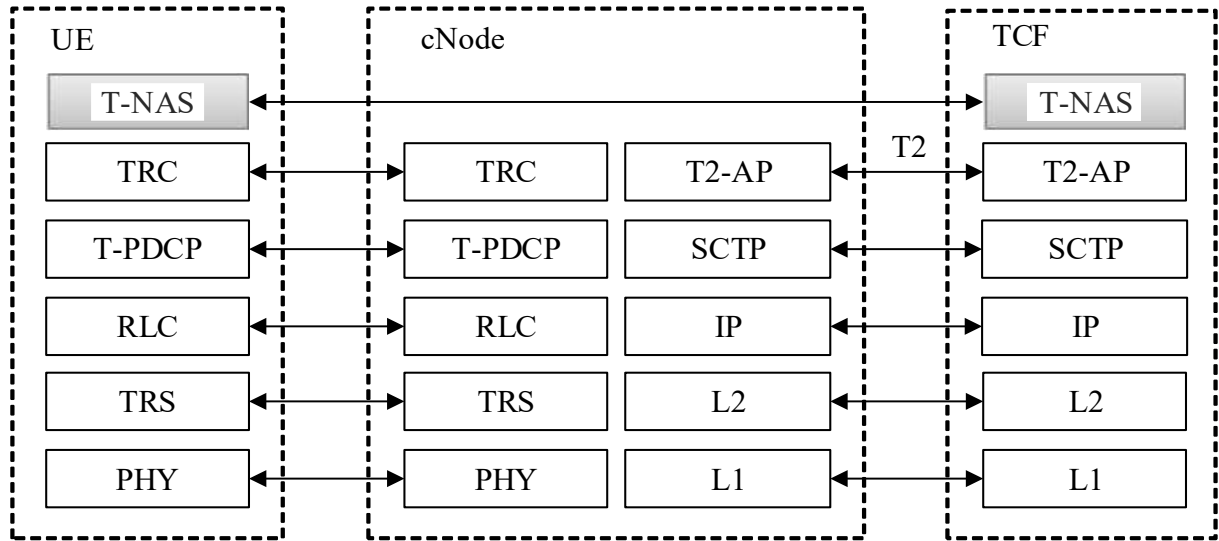


FIG. 59

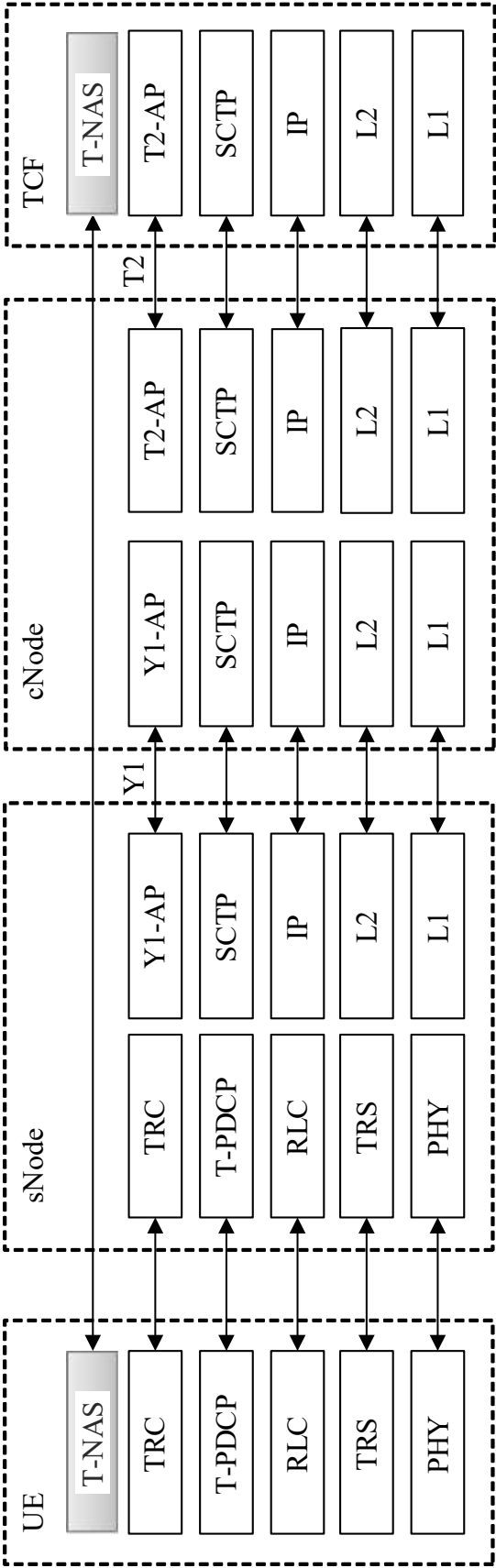


FIG. 60

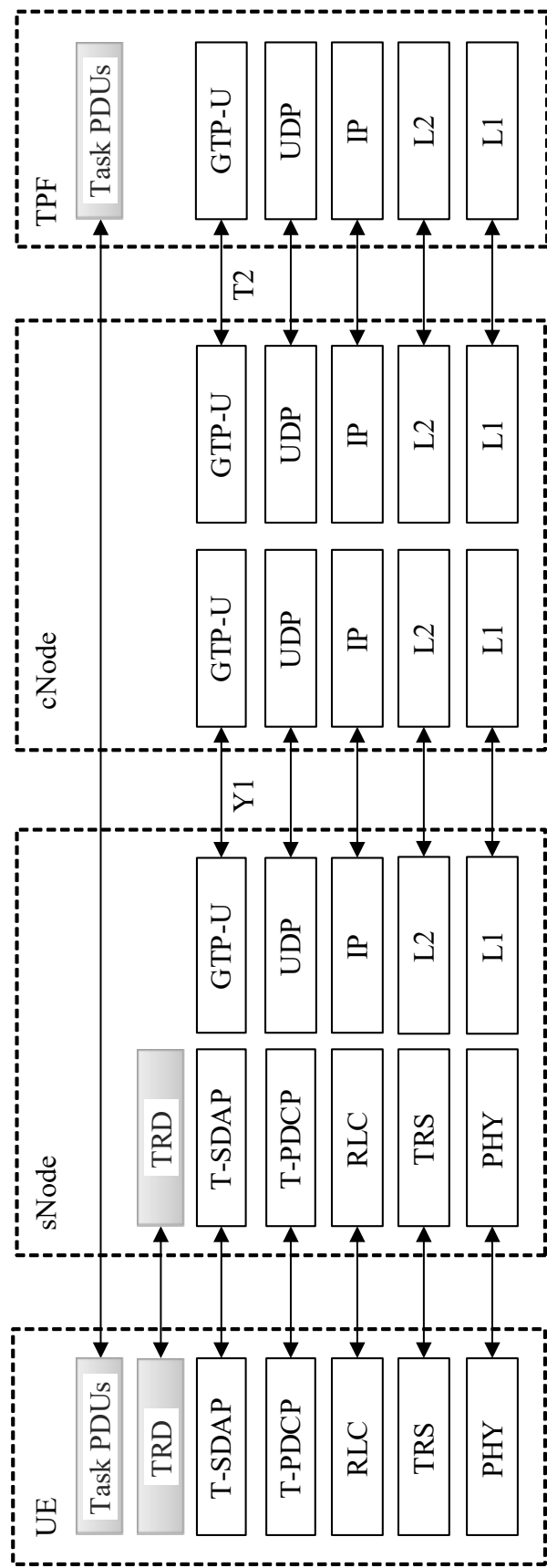


FIG. 61

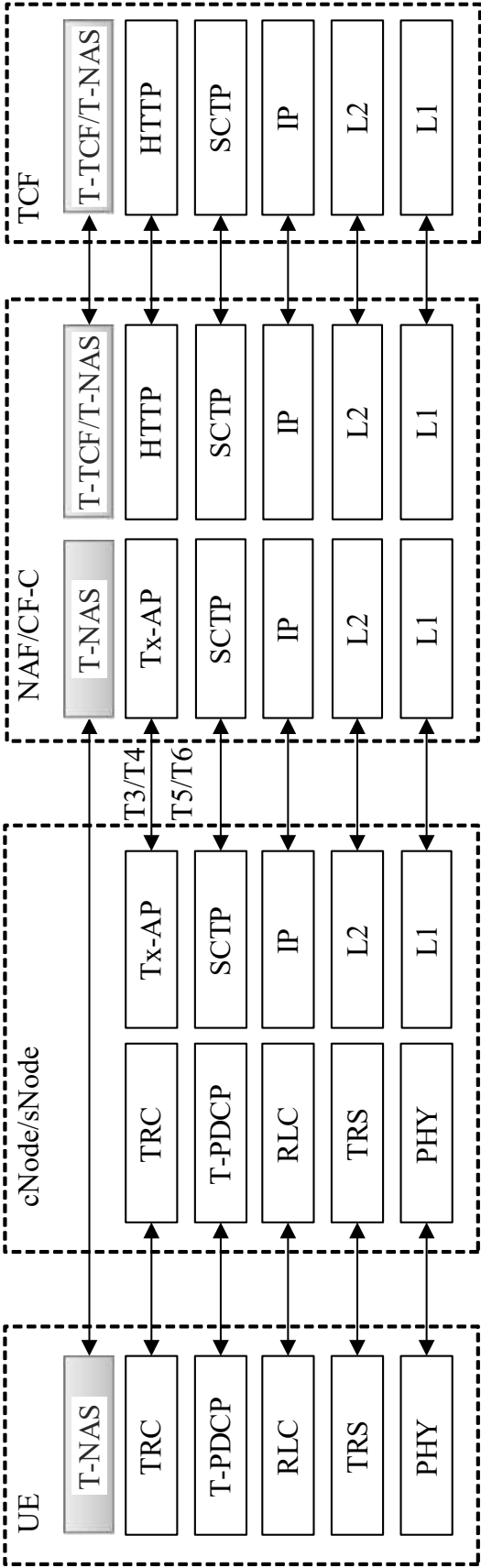


FIG. 62

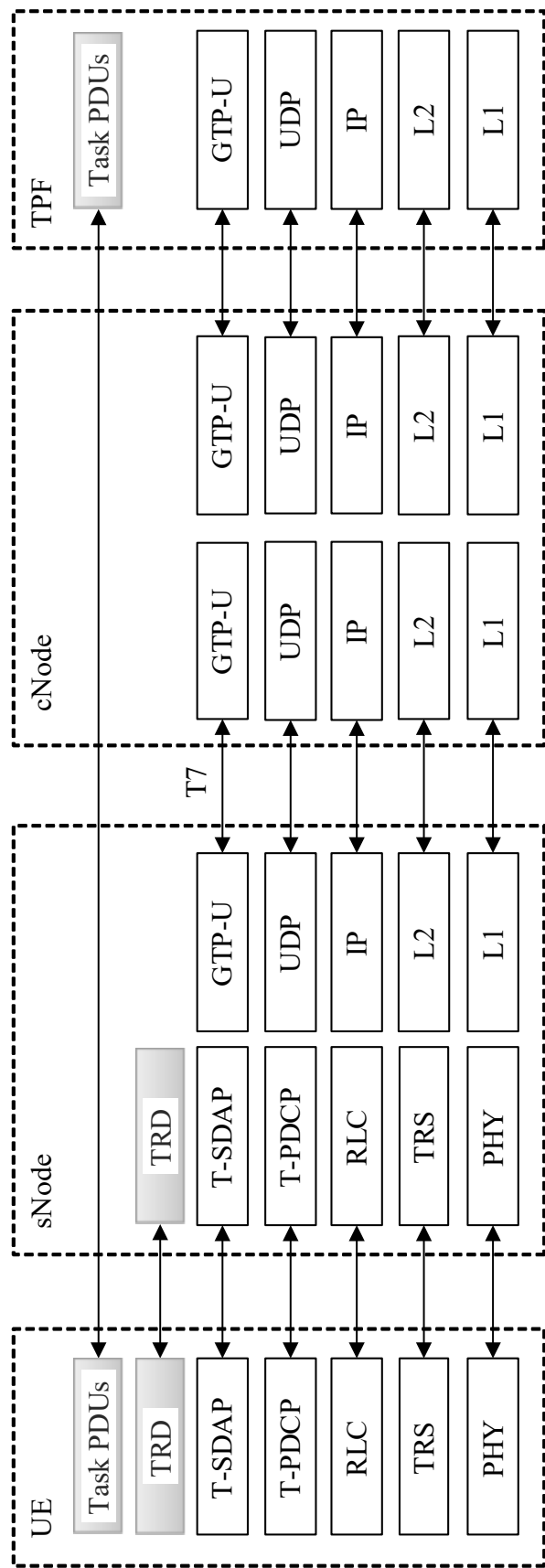


FIG. 63

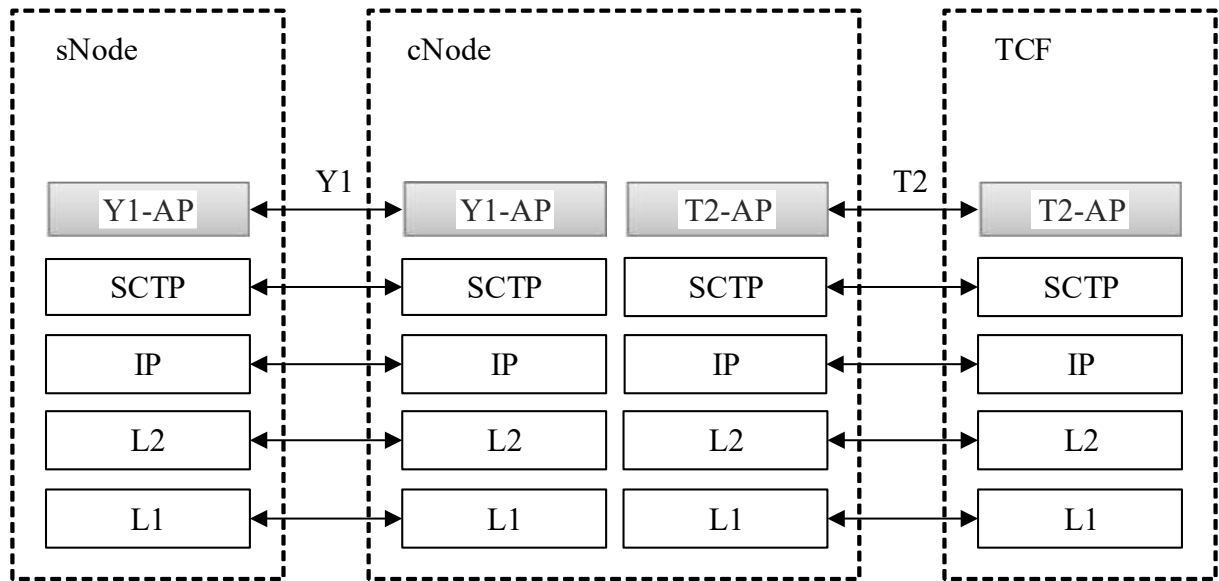


FIG. 64

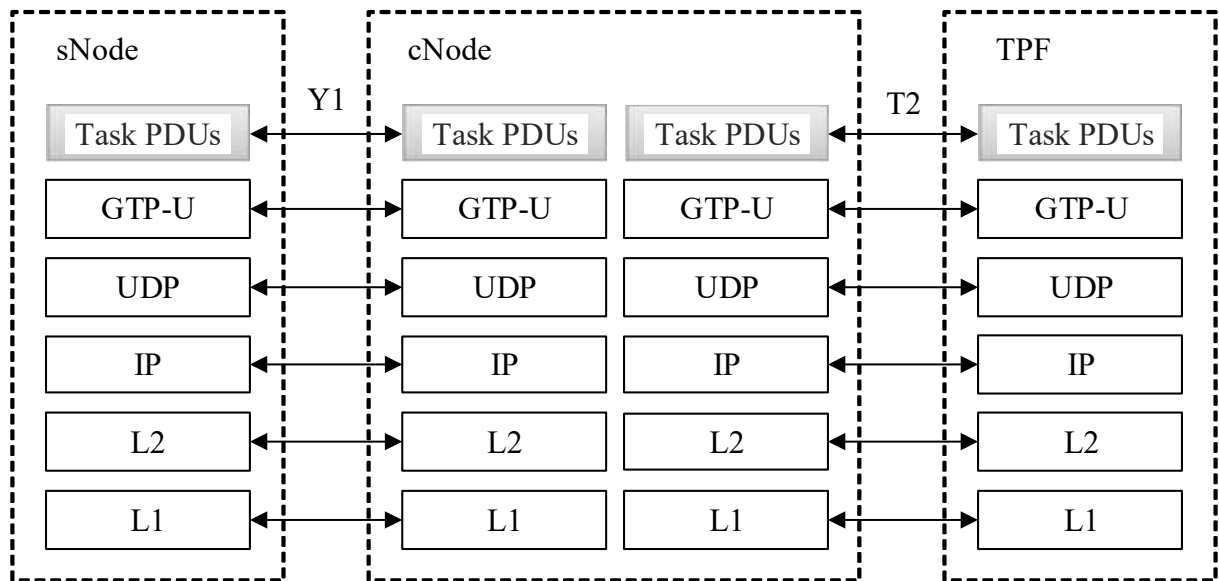


FIG. 65

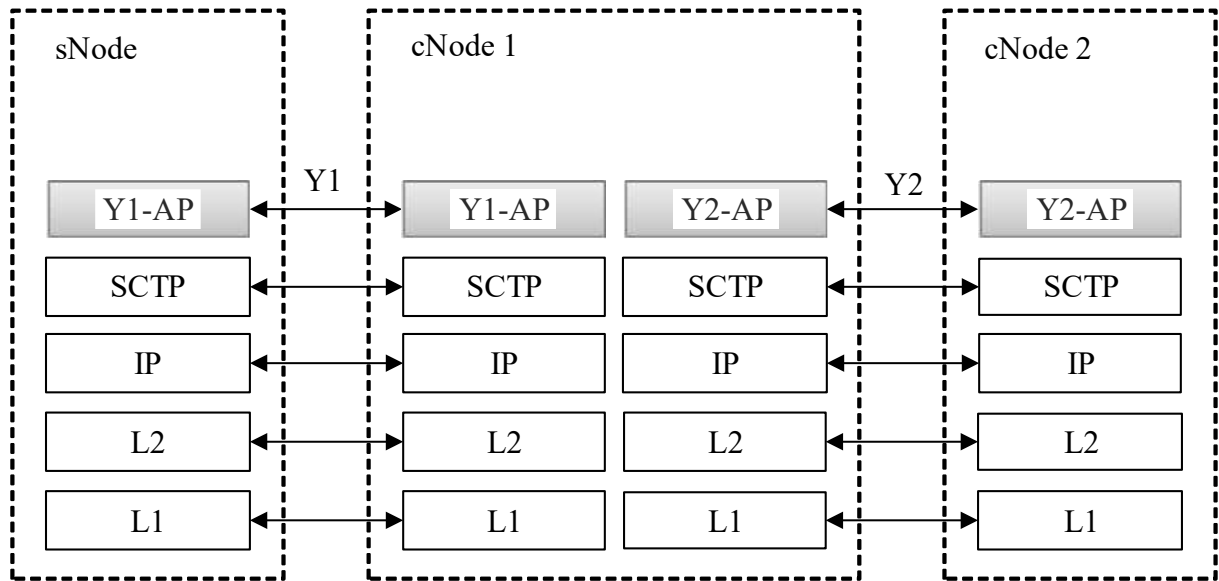


FIG. 66

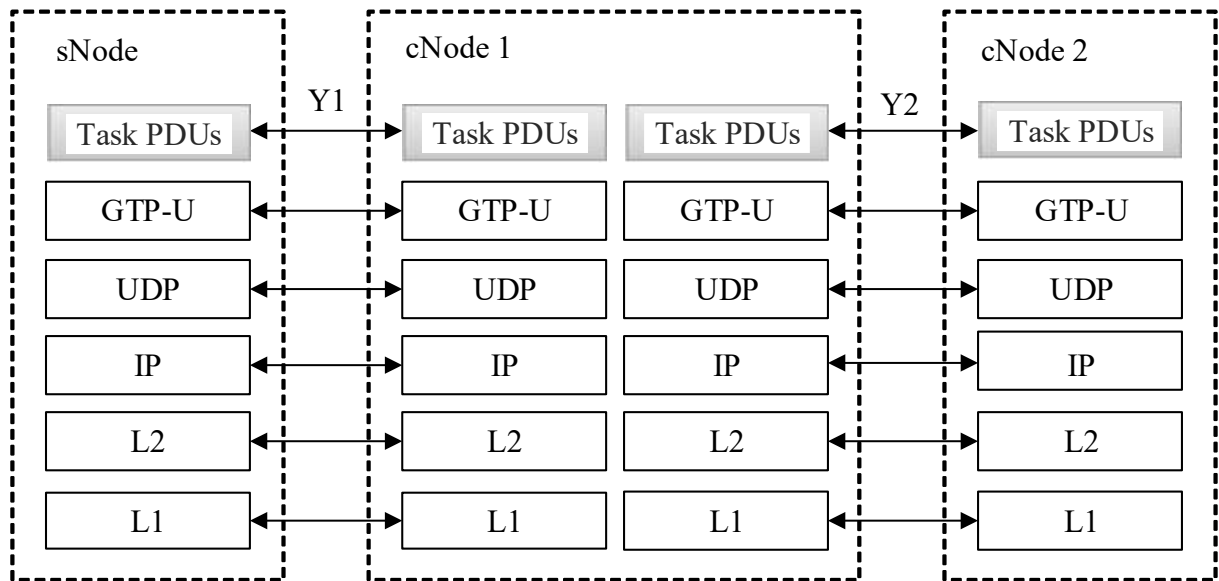


FIG. 67

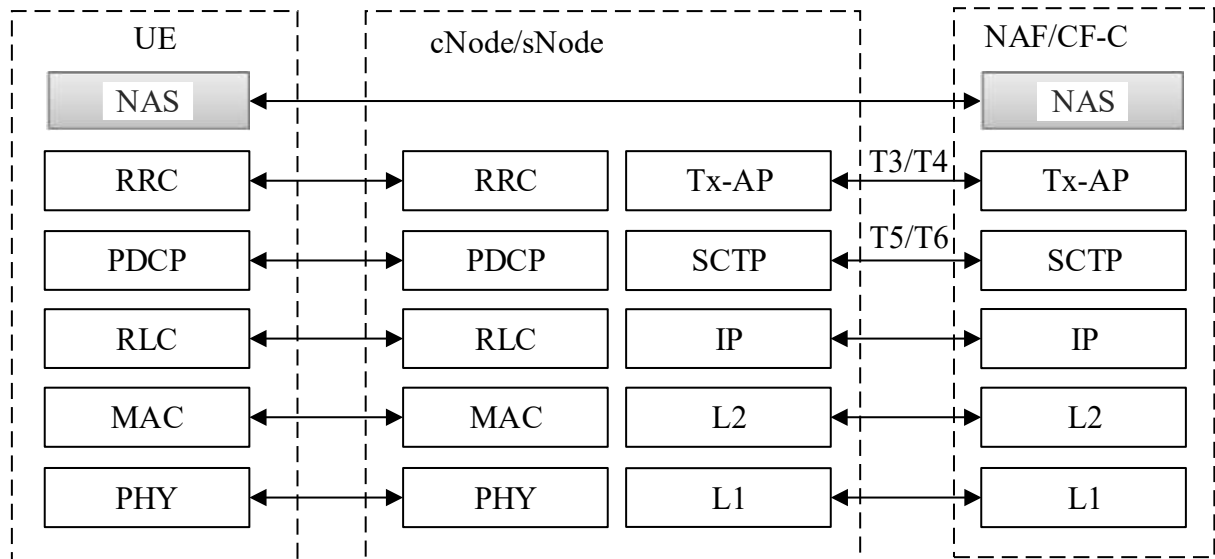


FIG. 68

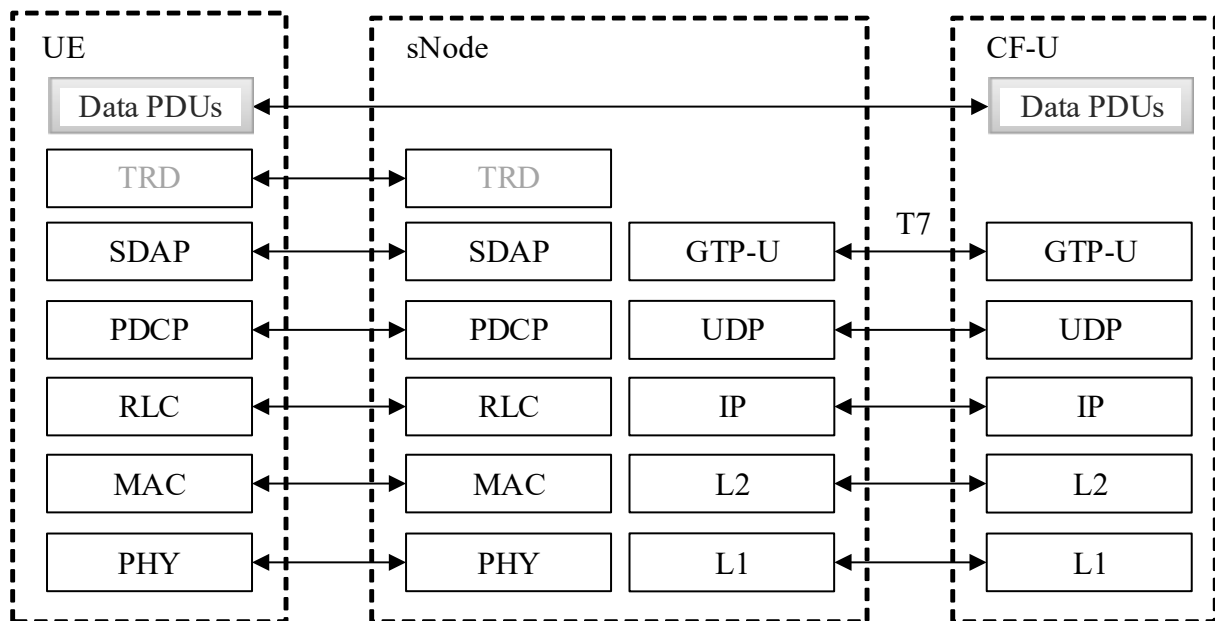


FIG. 69

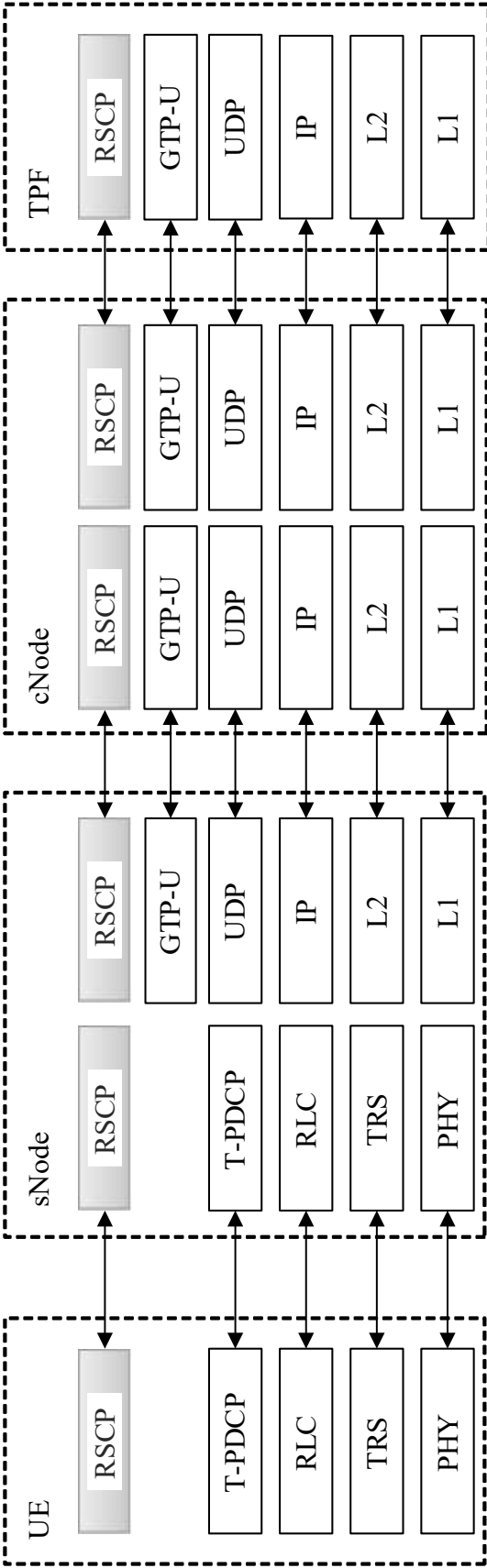


FIG. 70

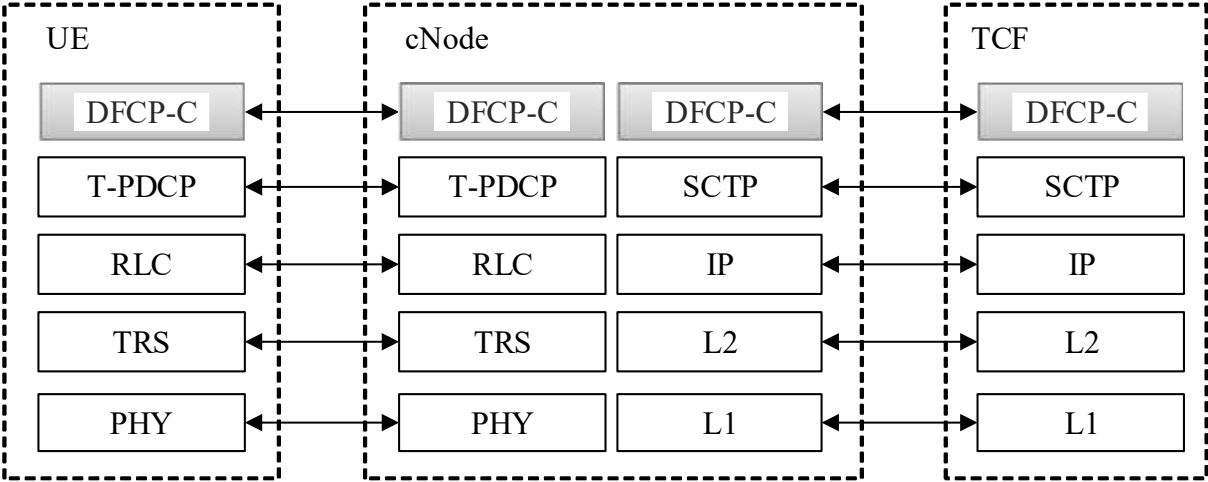


FIG. 71

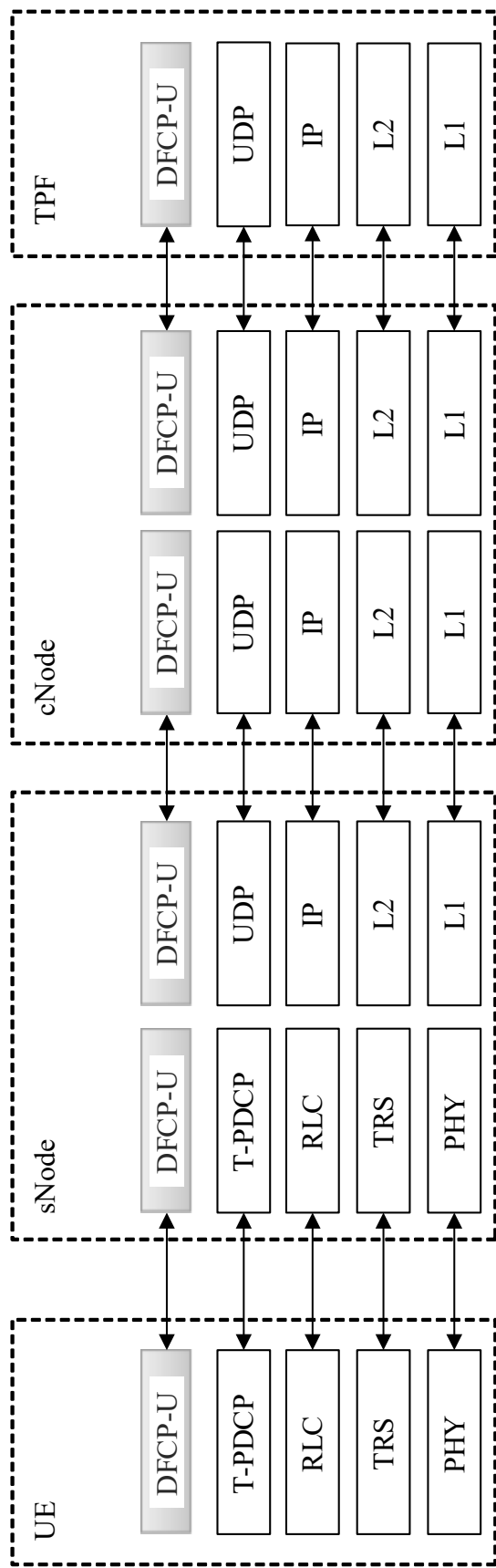


FIG .72

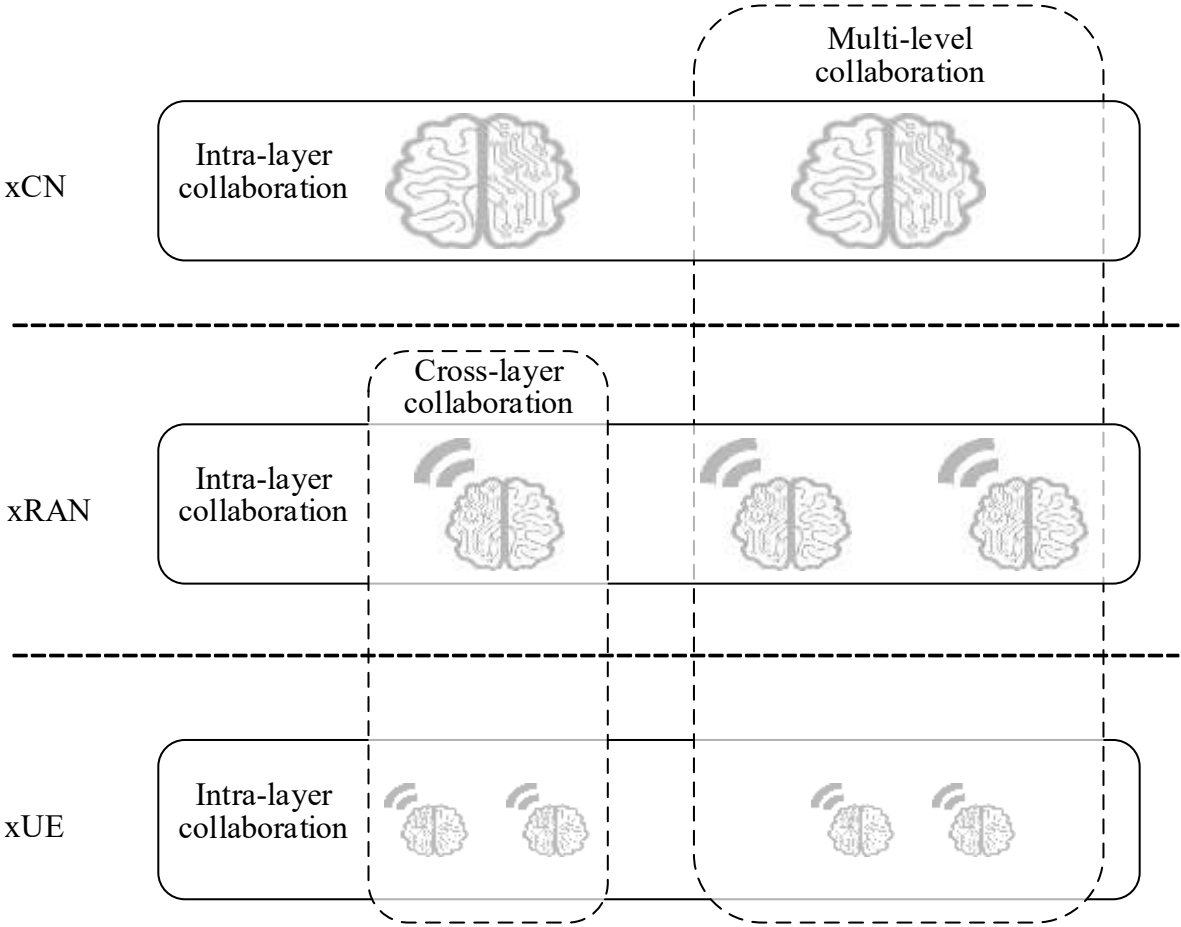


FIG. 73

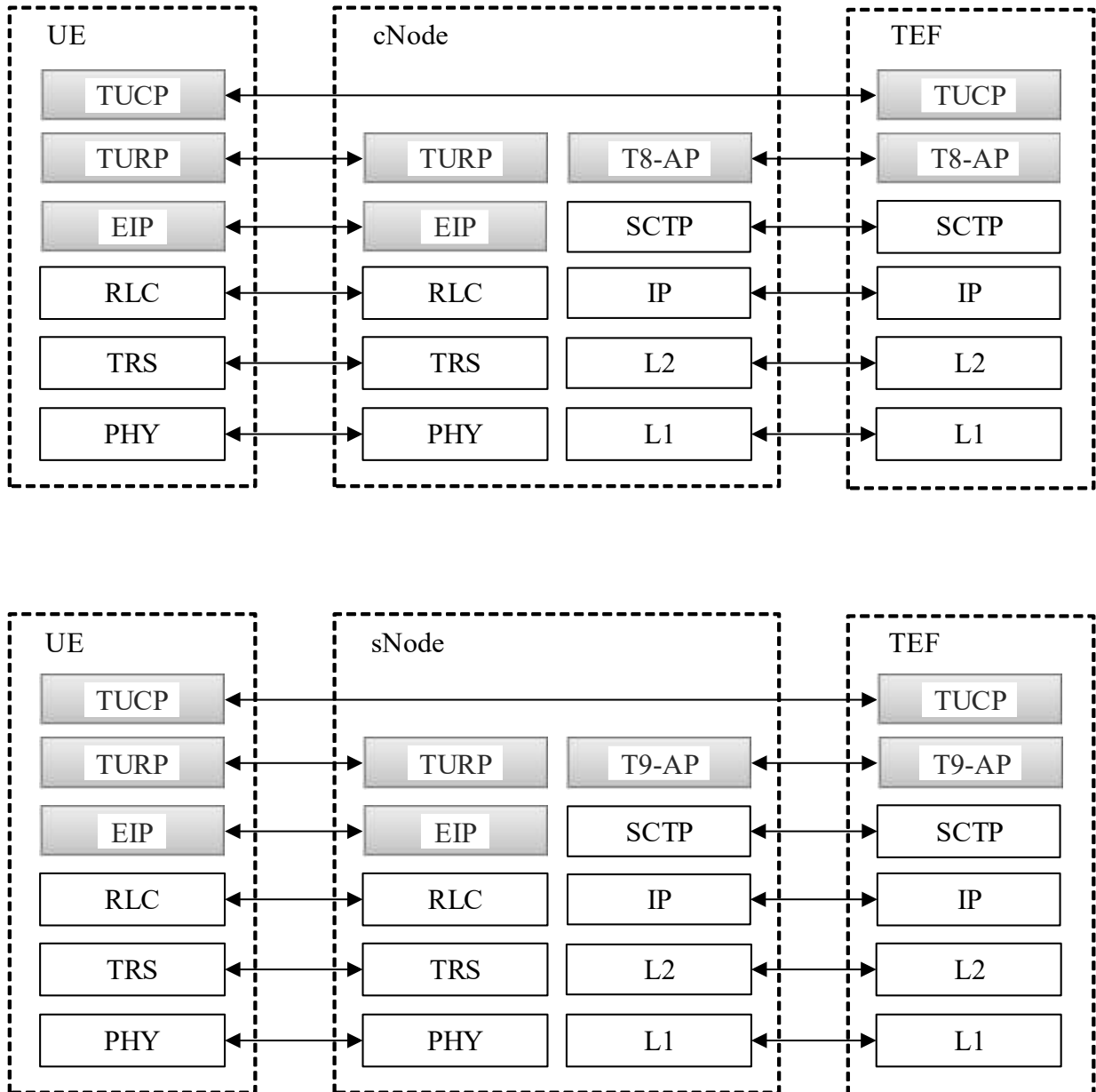


FIG. 74

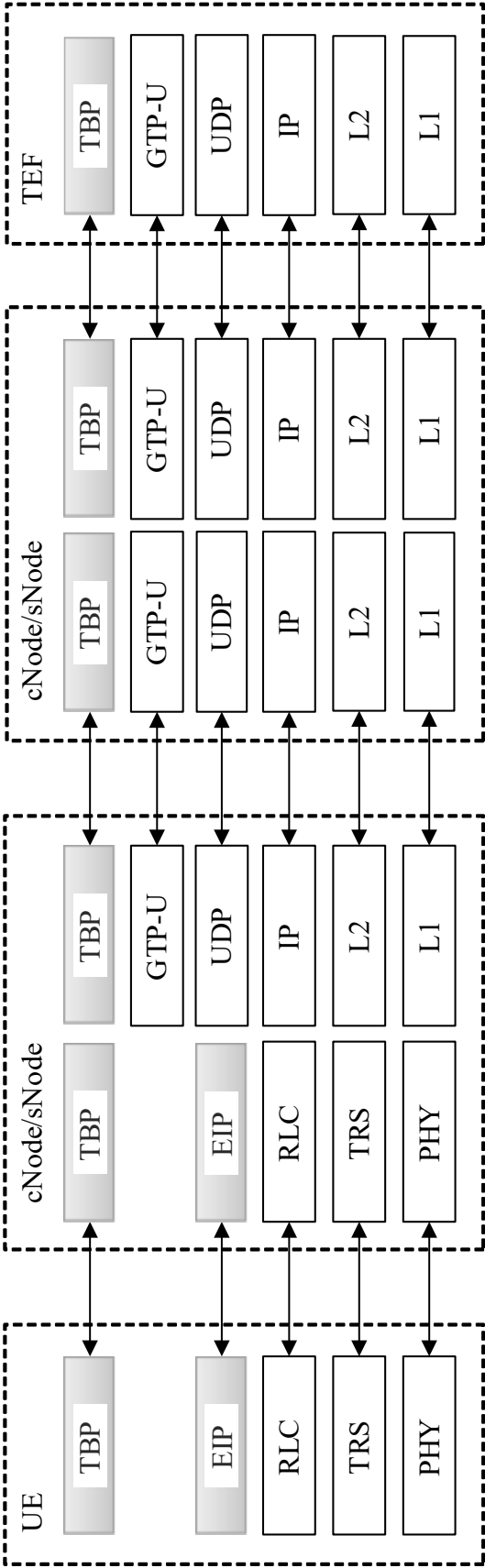


FIG. 75

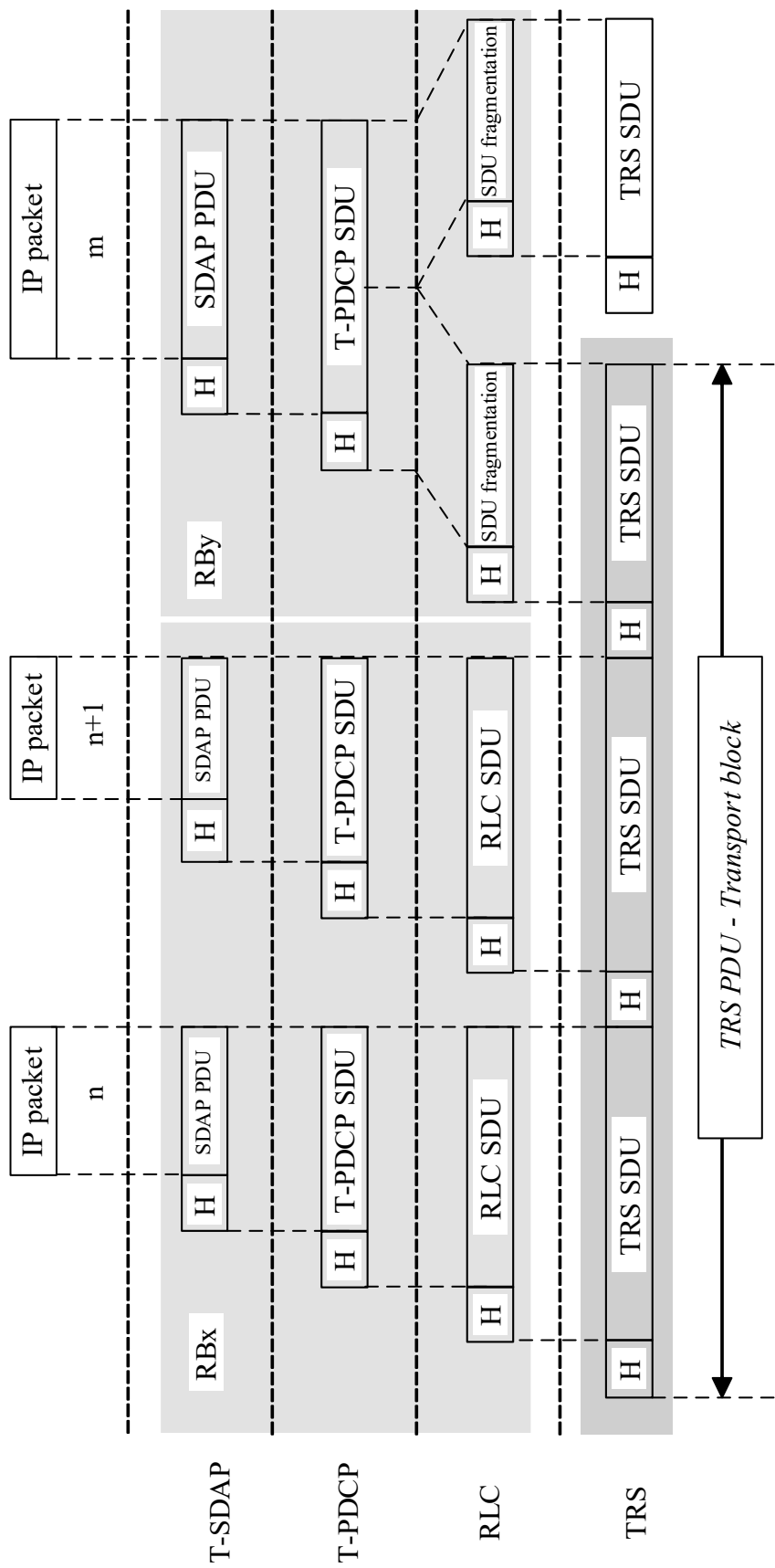


FIG. 76

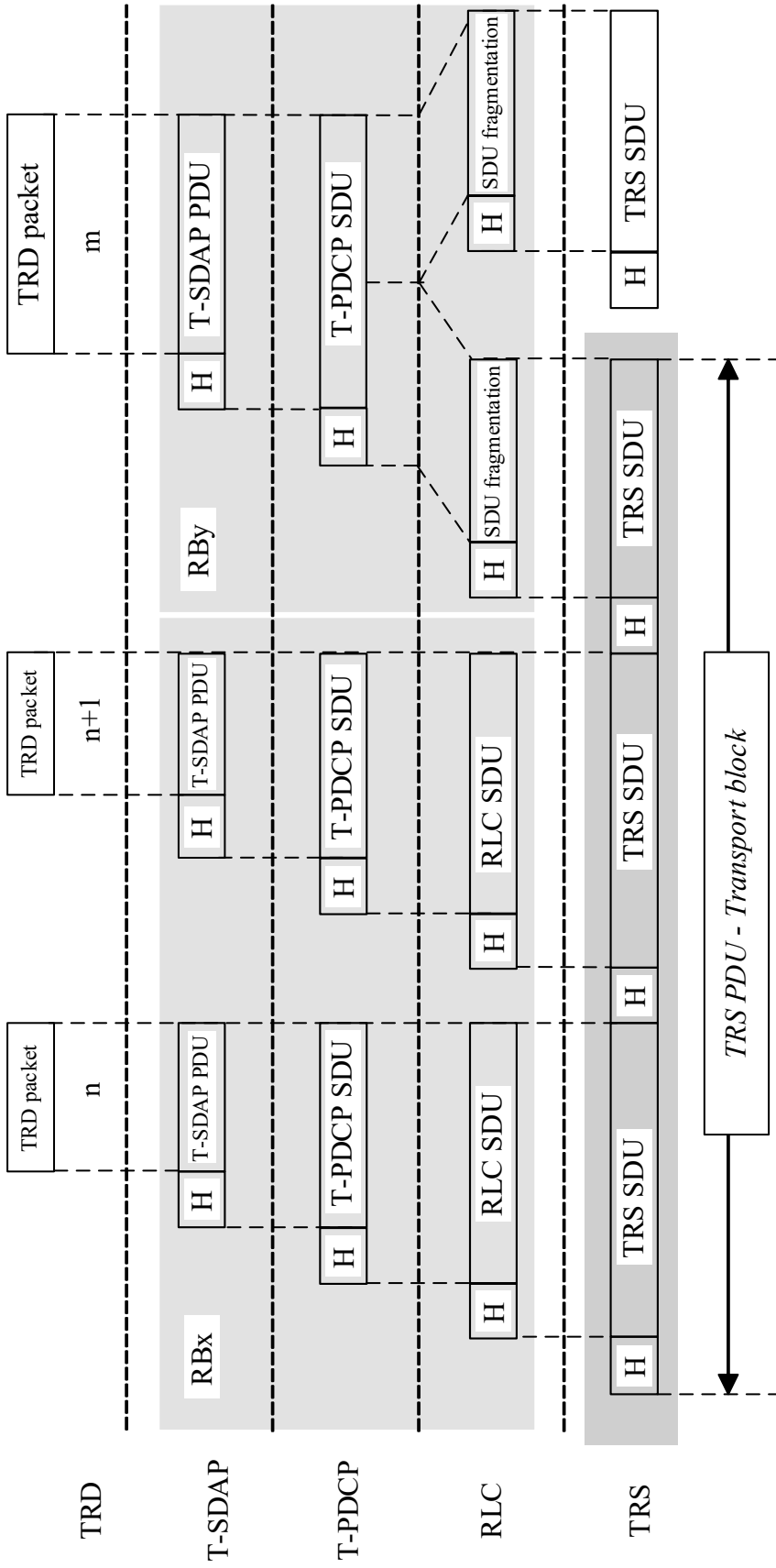


FIG. 77

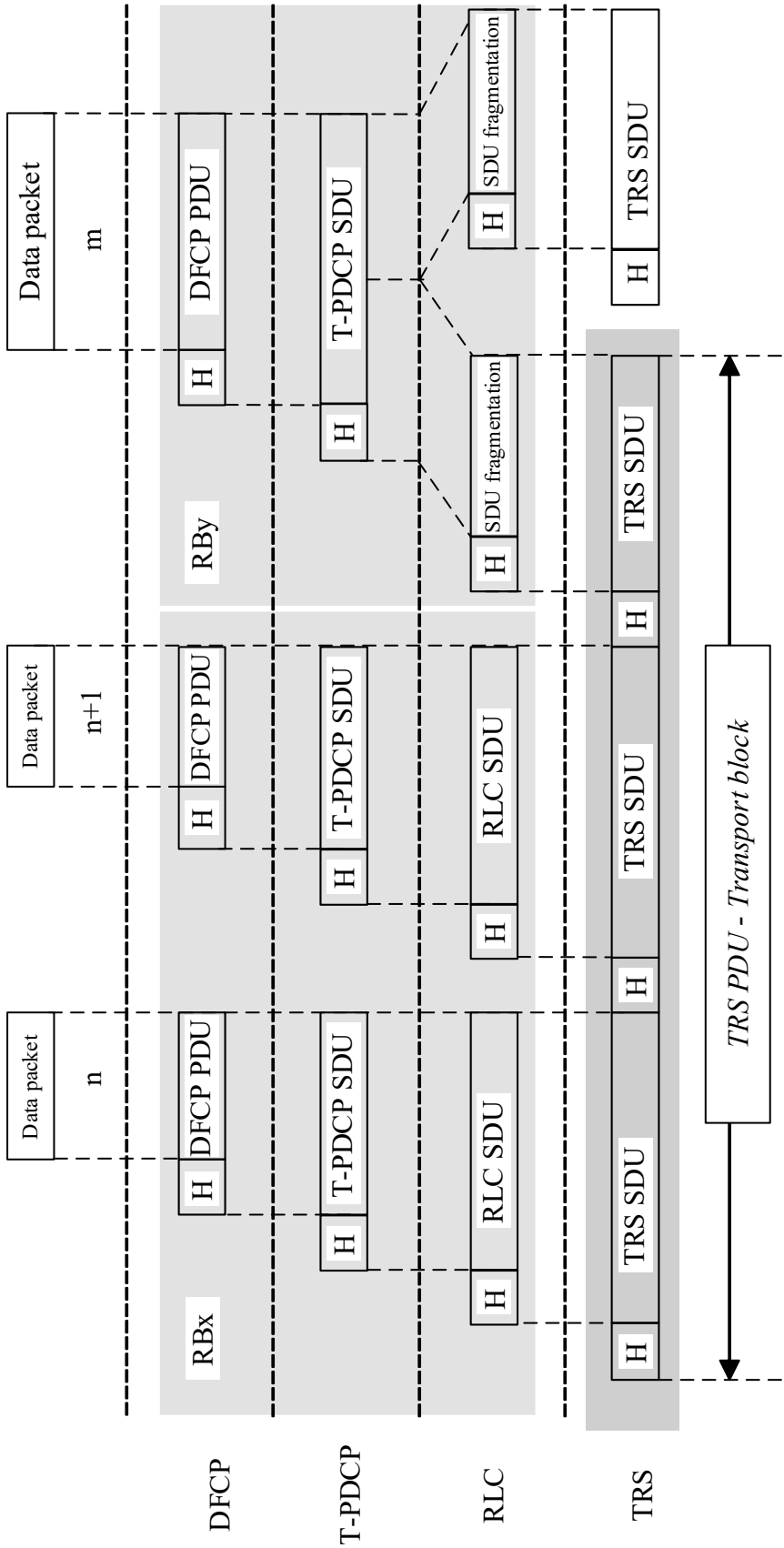


FIG. 78

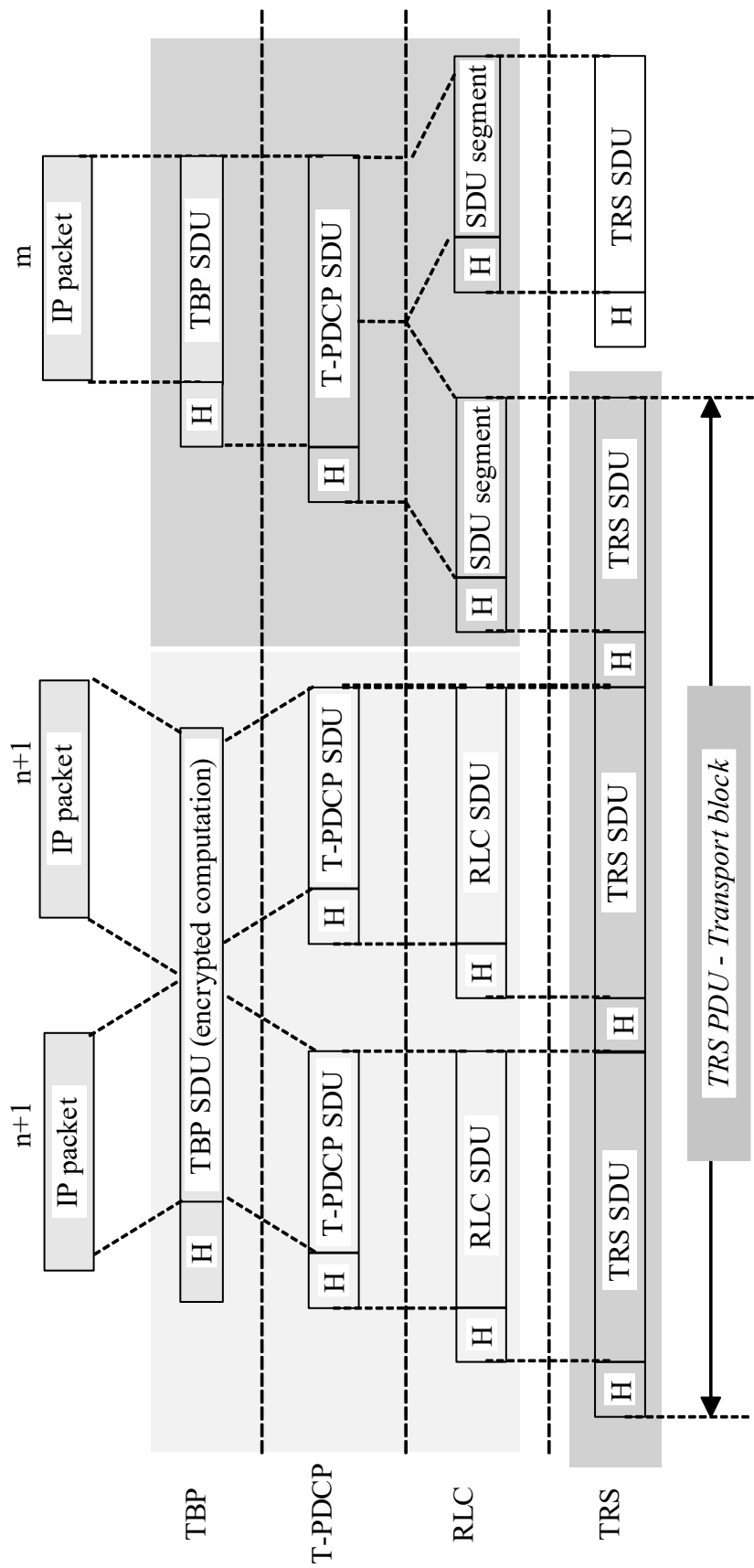


FIG. 79

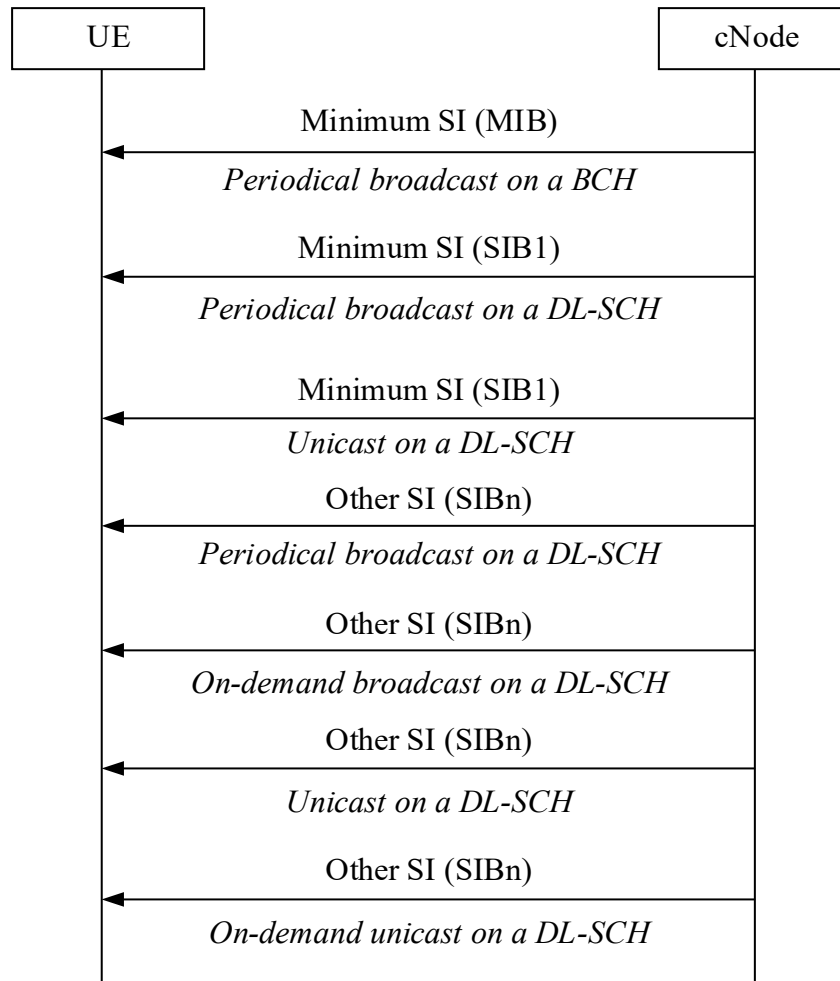
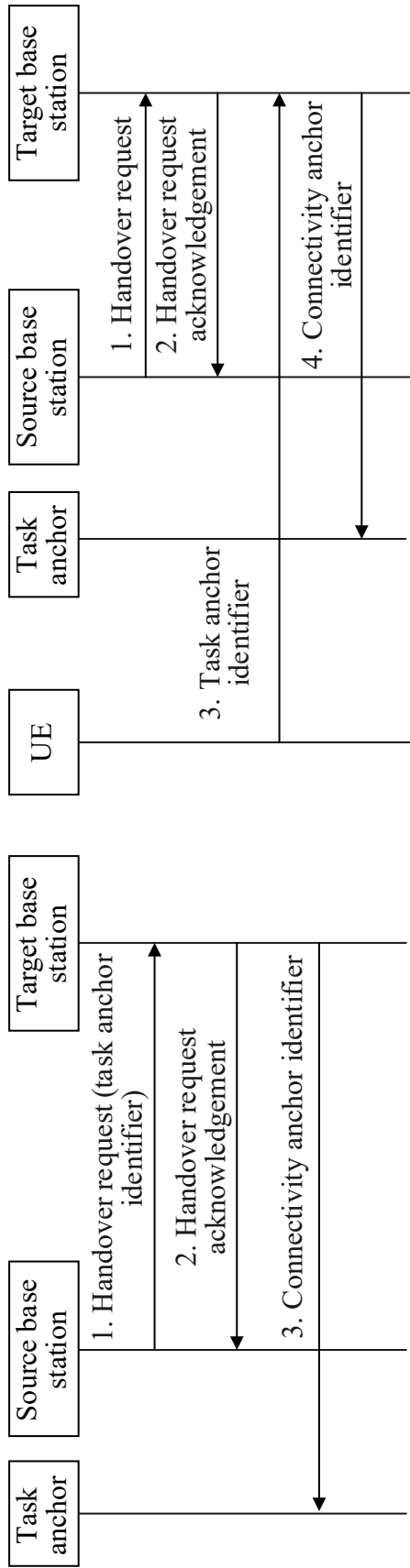
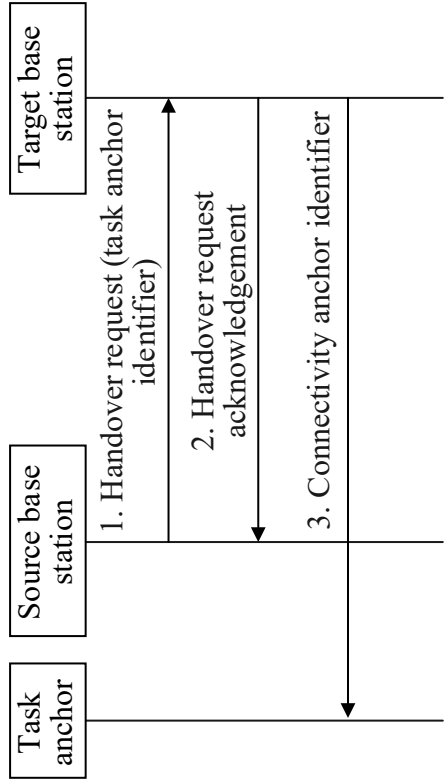


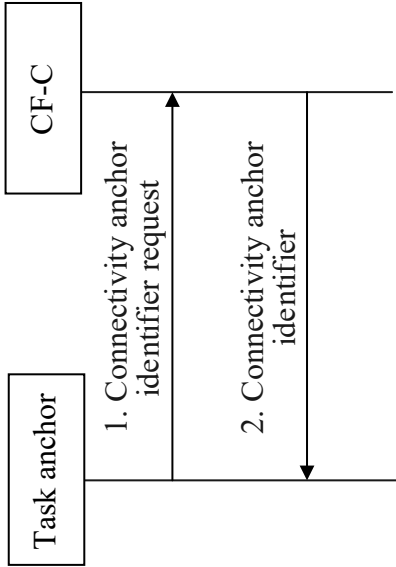
FIG. 80



Solution 2



Solution 1



Solution 3

FIG. 81

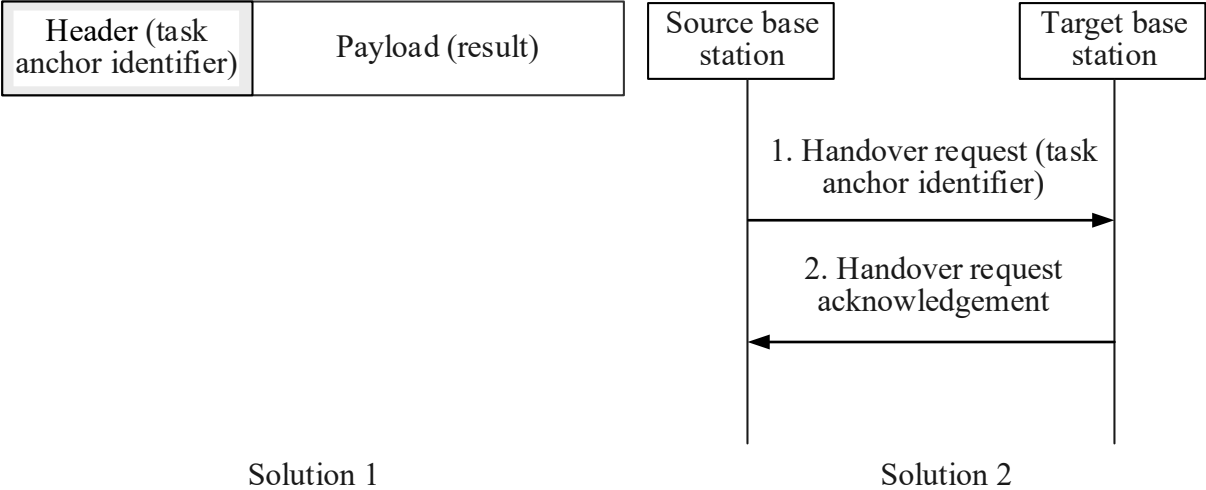


FIG. 82

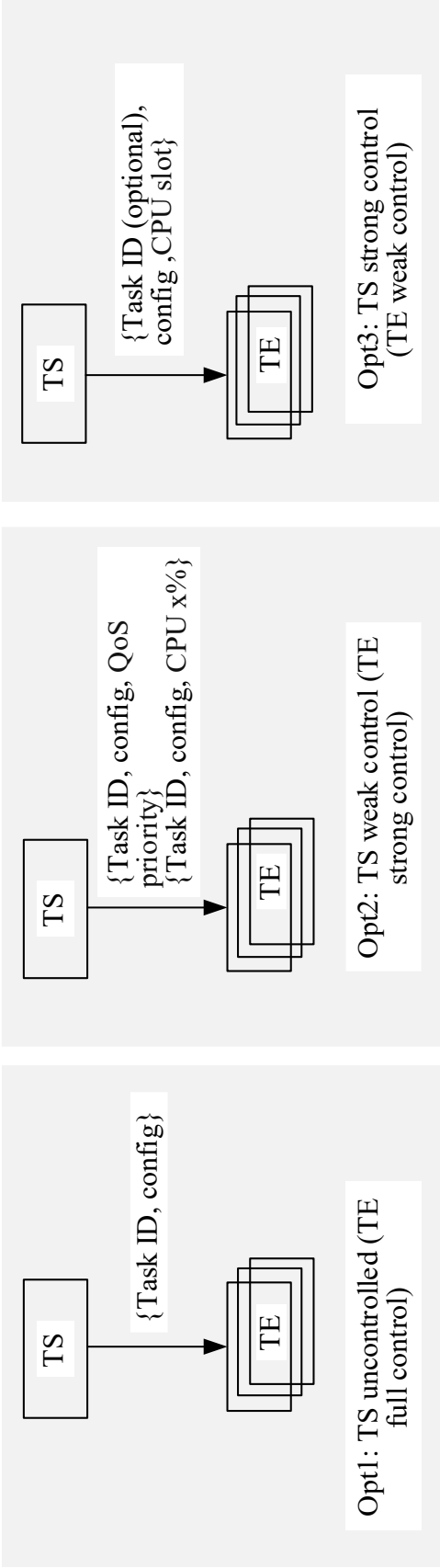


FIG. 83

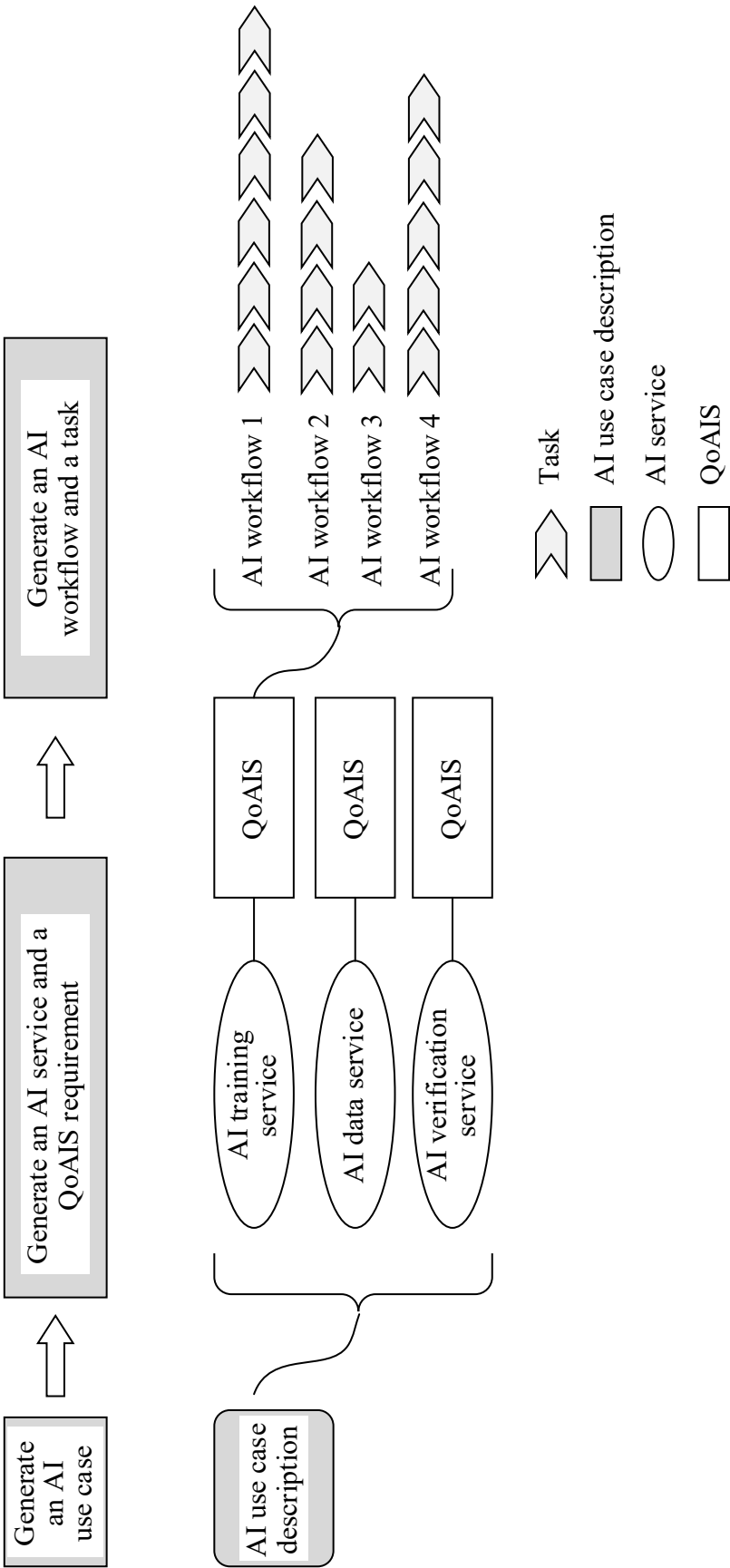


FIG. 84

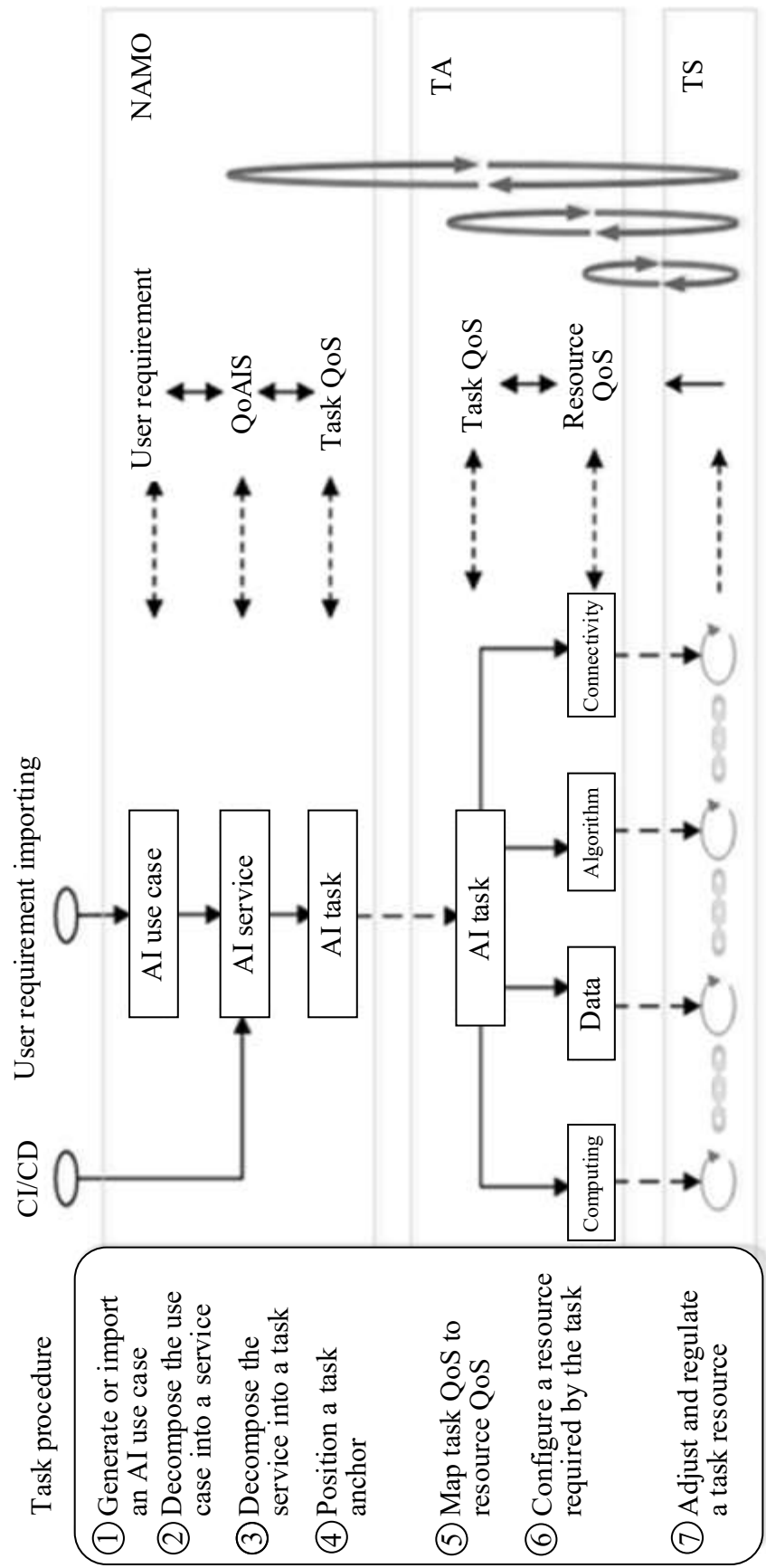


FIG. 85

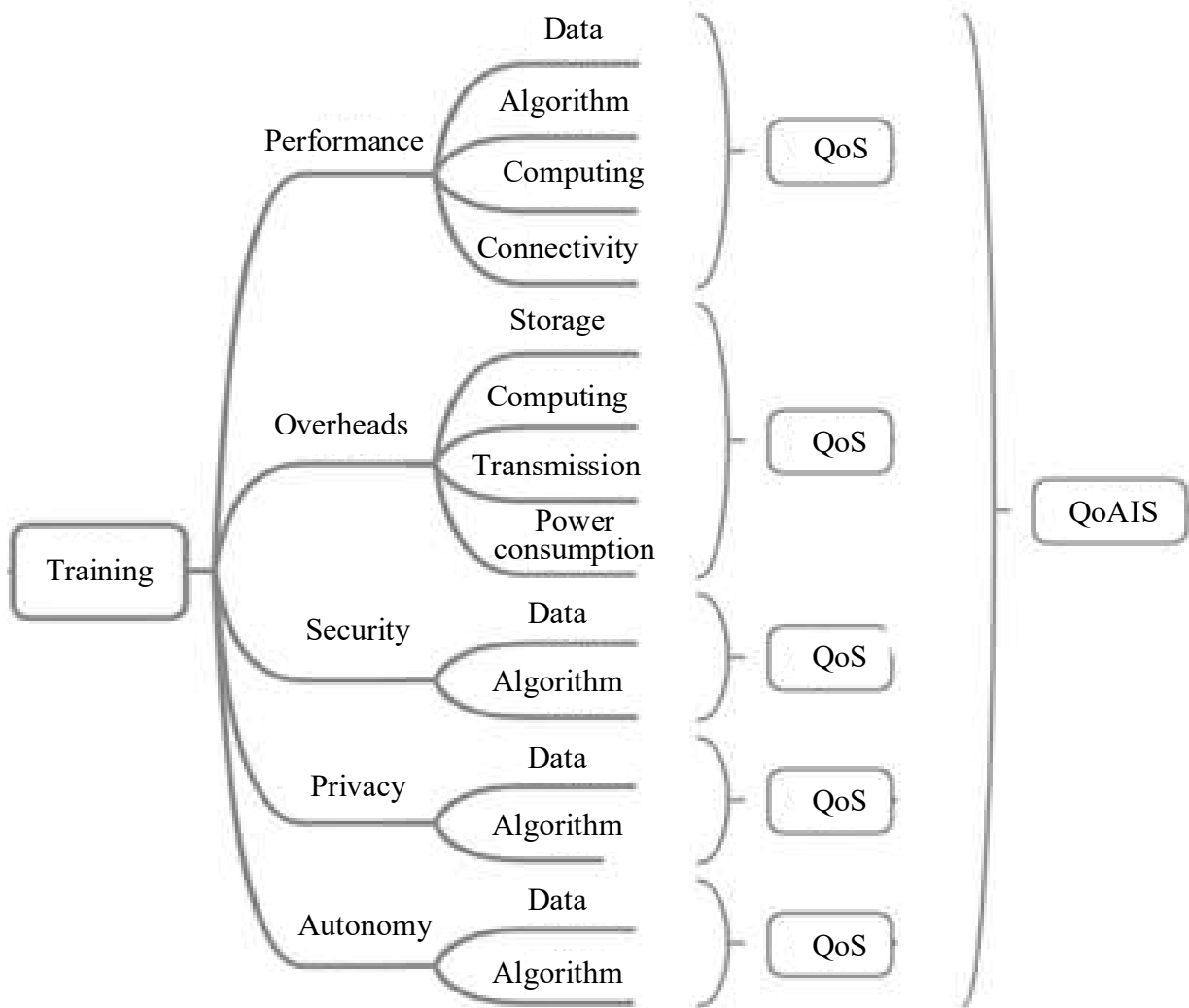


FIG. 86

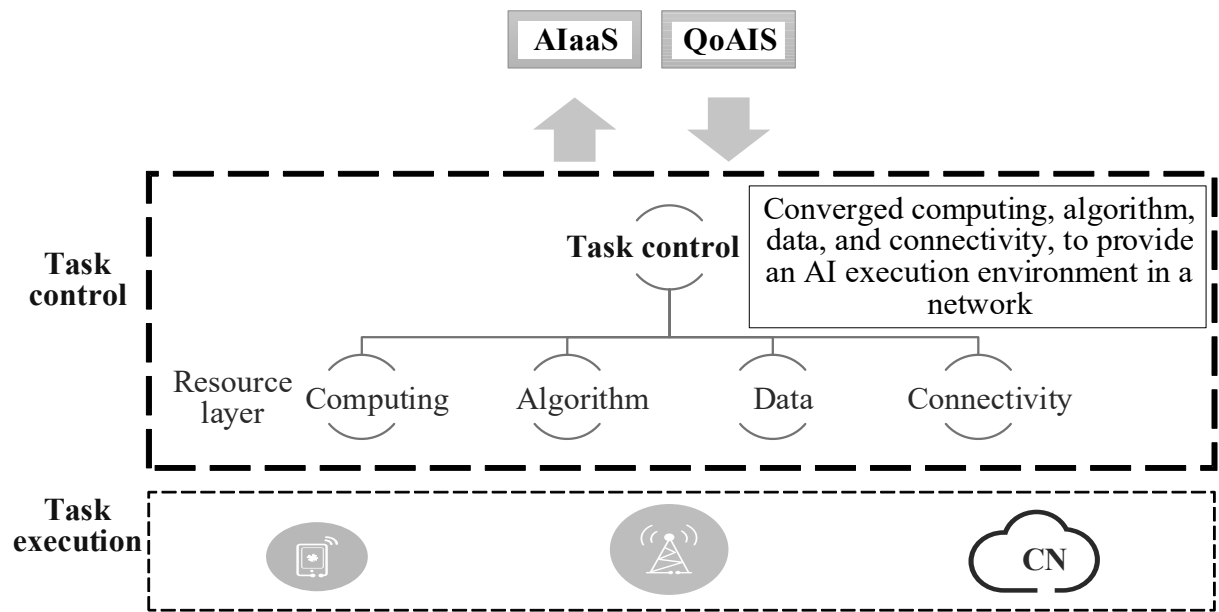


FIG. 87

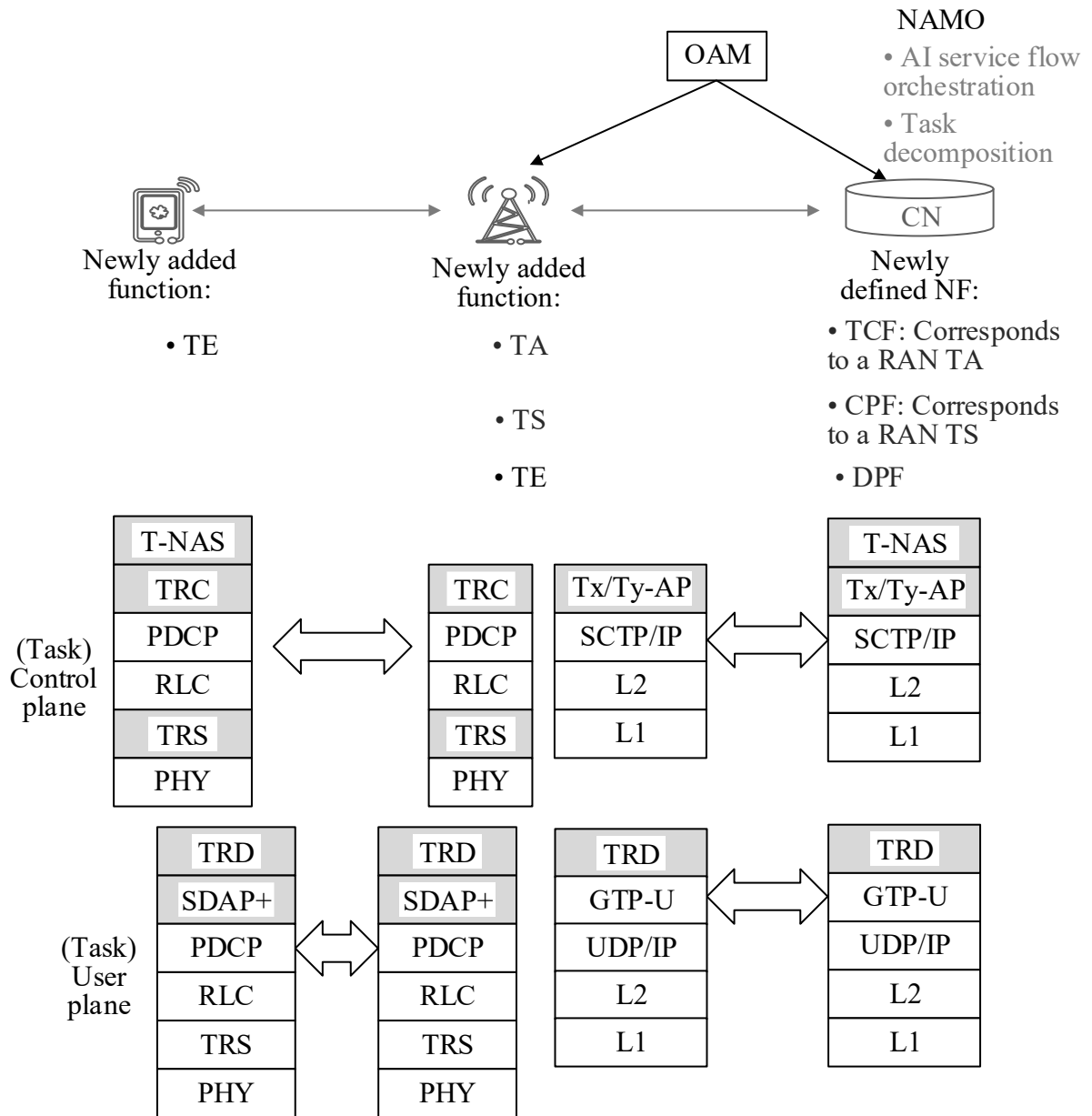


FIG. 88

(Semi-real-time) Algorithm and data are coordinated at a TRC layer
(Real-time) Connectivity and computing are coordinated at a TRC layer

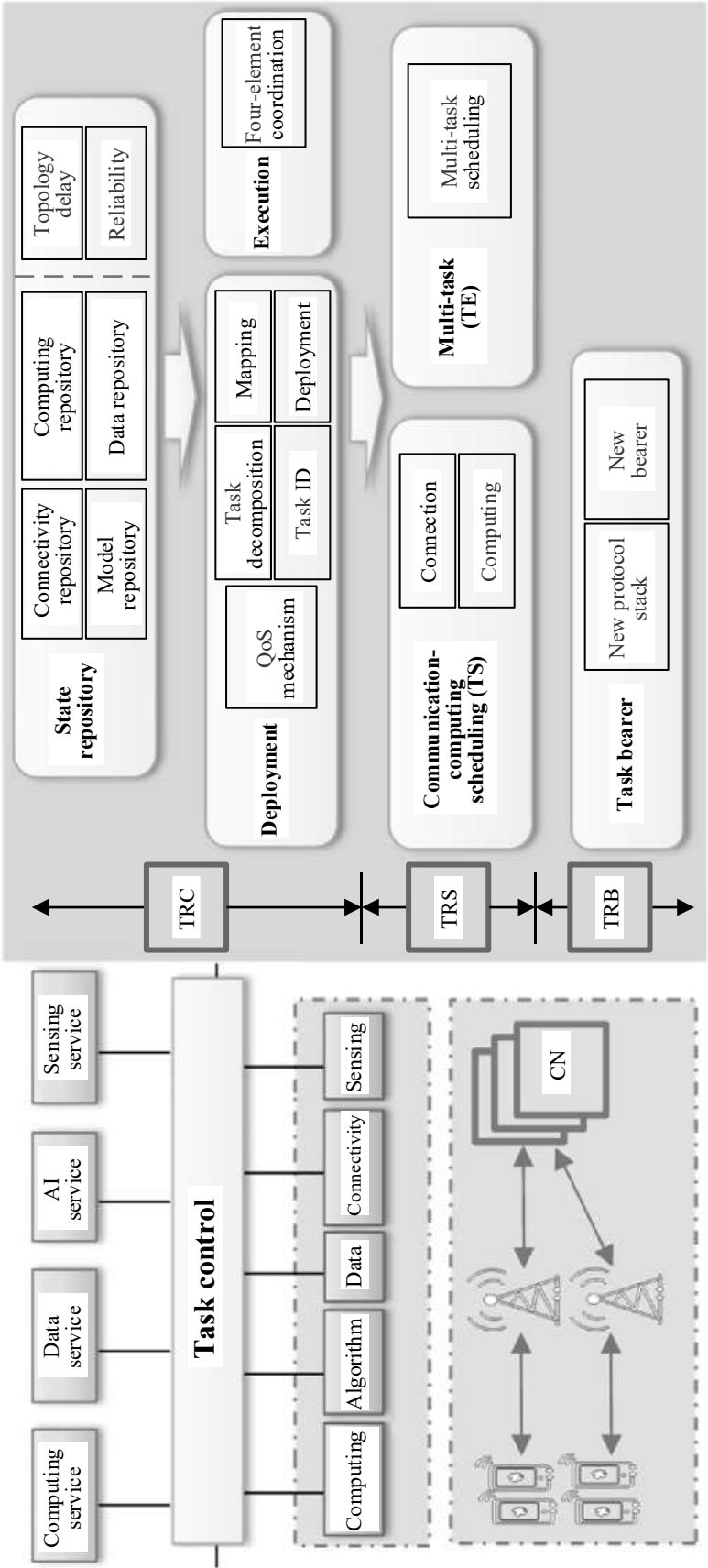


FIG. 89

Because a TE may be deployed on a UE and various network element nodes, a task interface involves various 3GPP interfaces

- ① Uu interface
- ② RAN terrestrial interface
- ③ Inter-CN interface

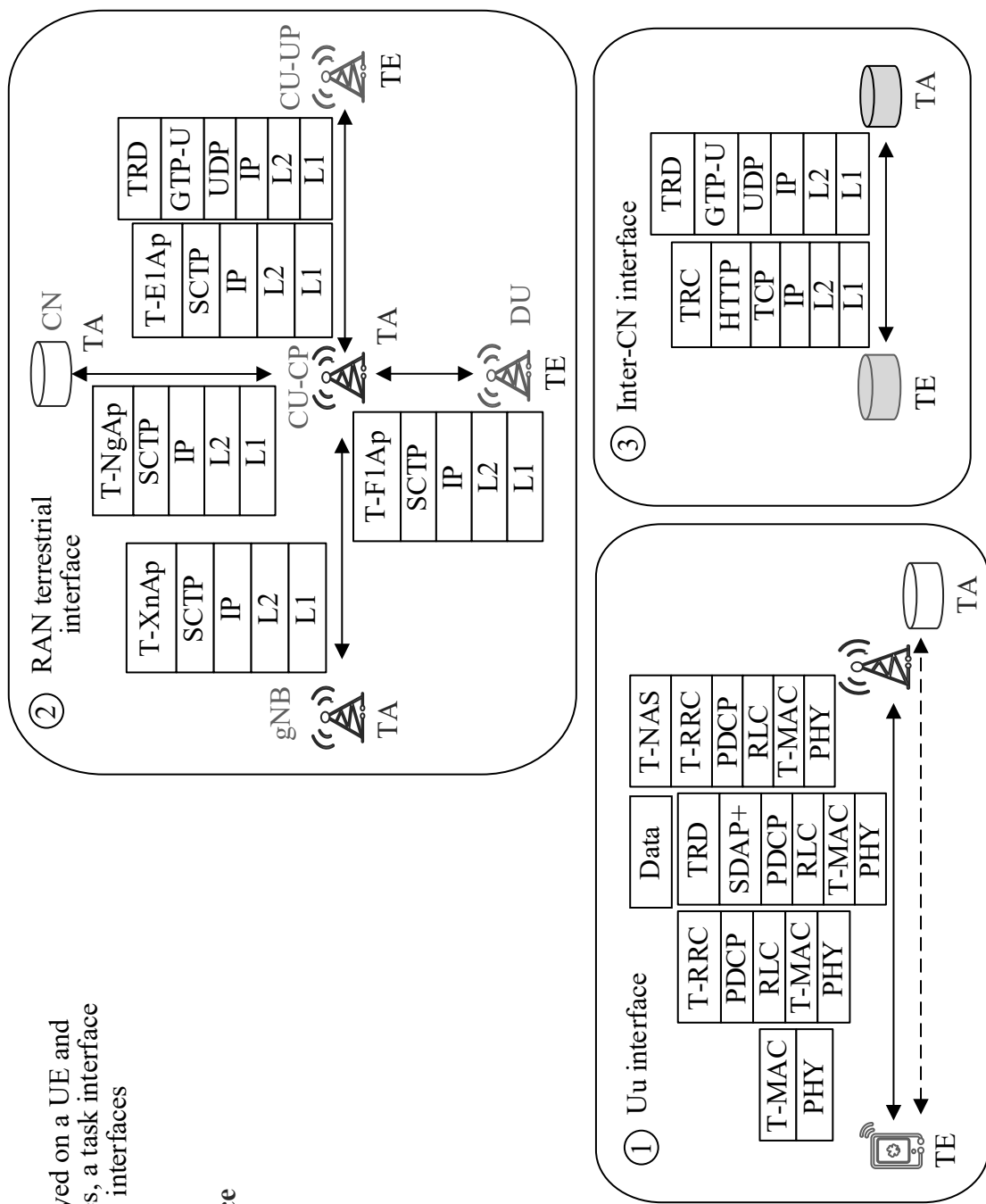
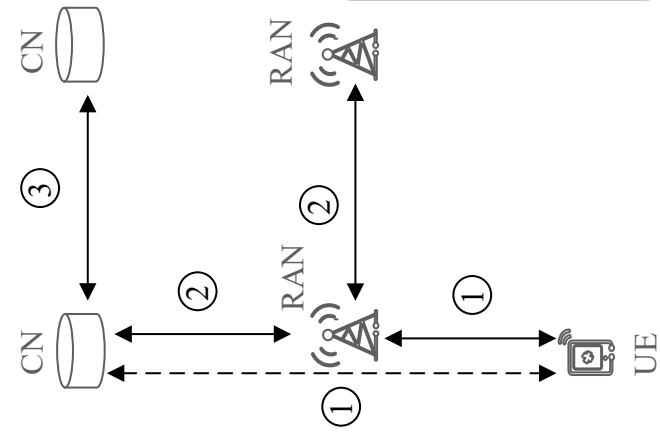


FIG. 90

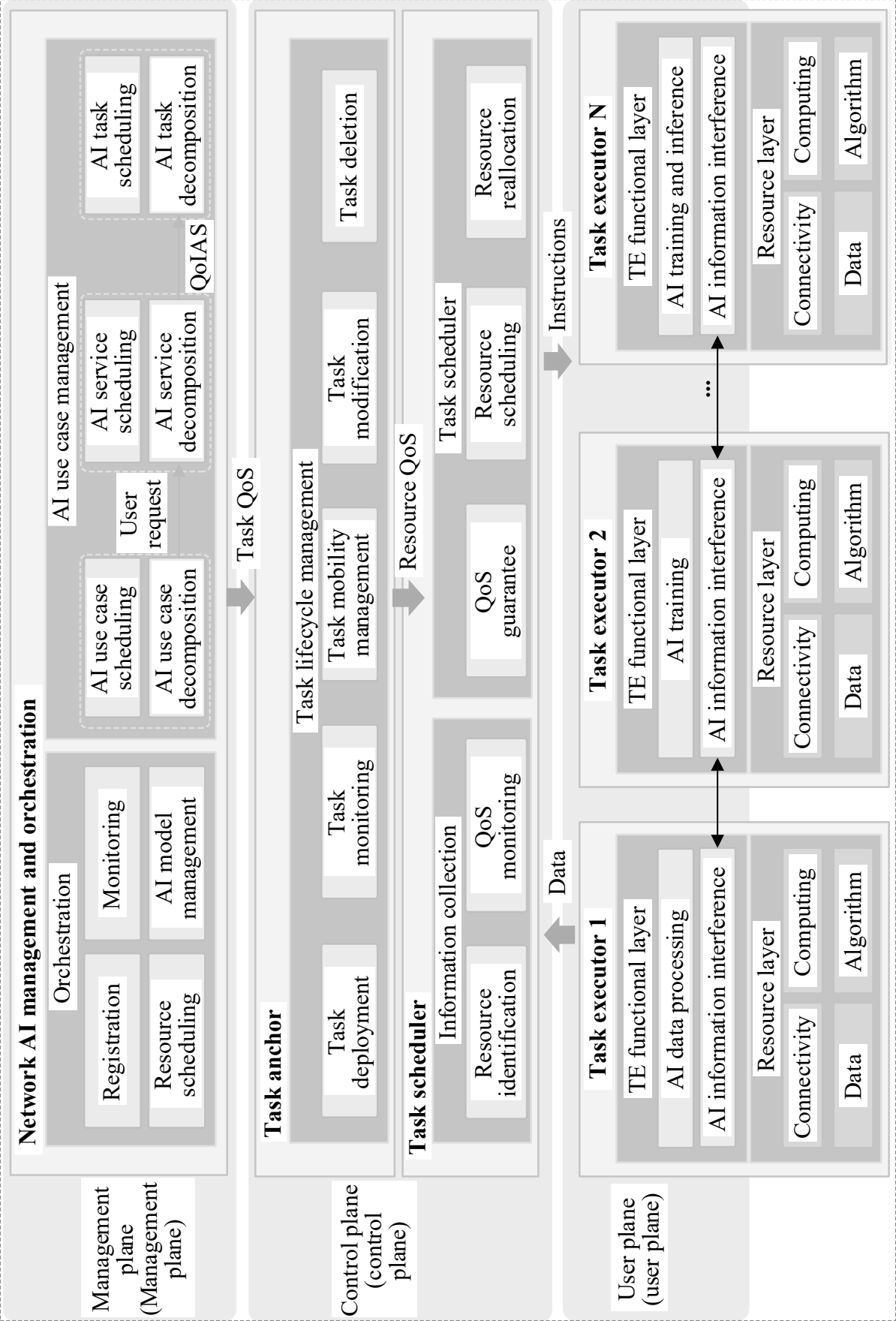


FIG. 91

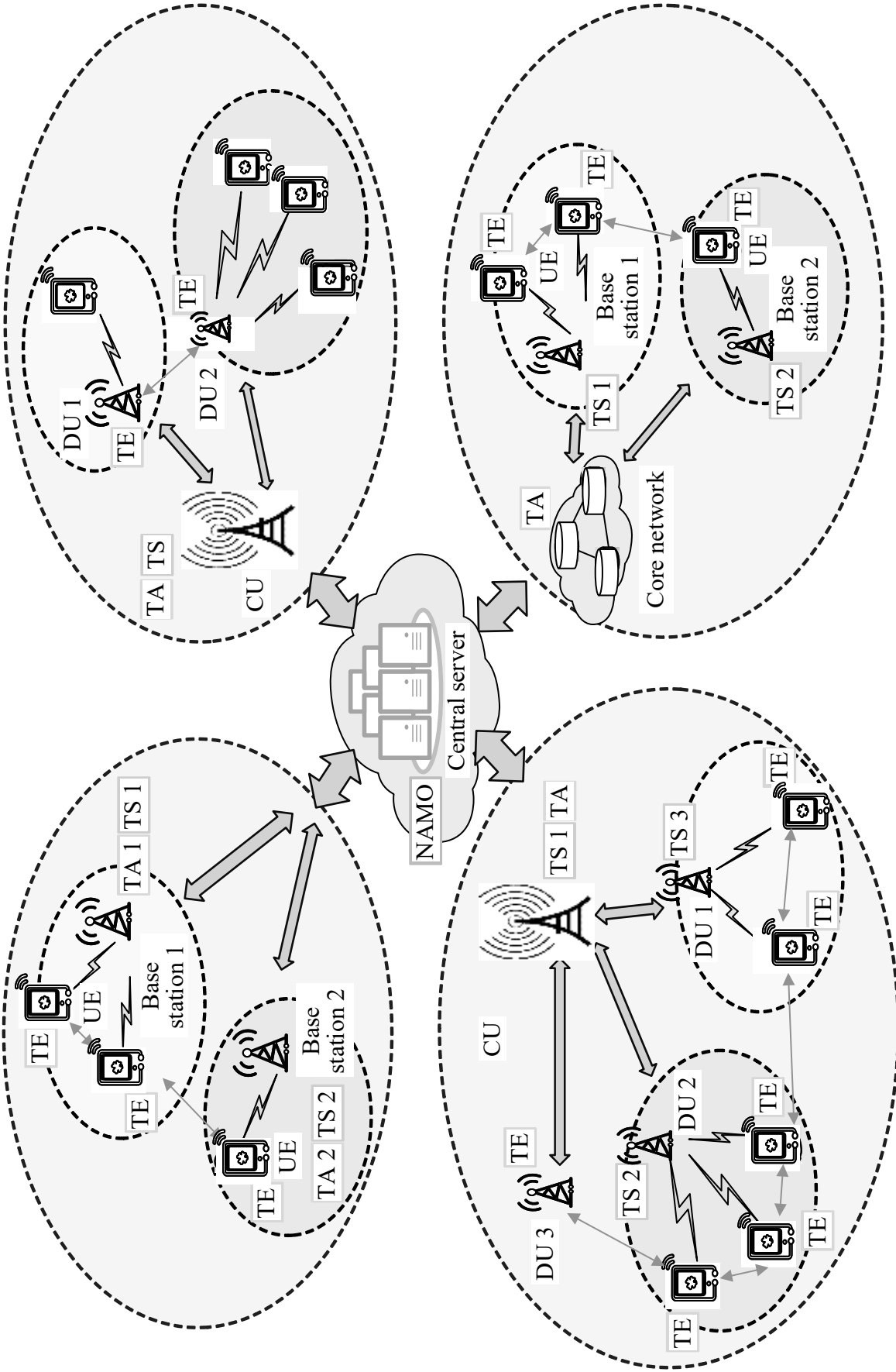


FIG. 92

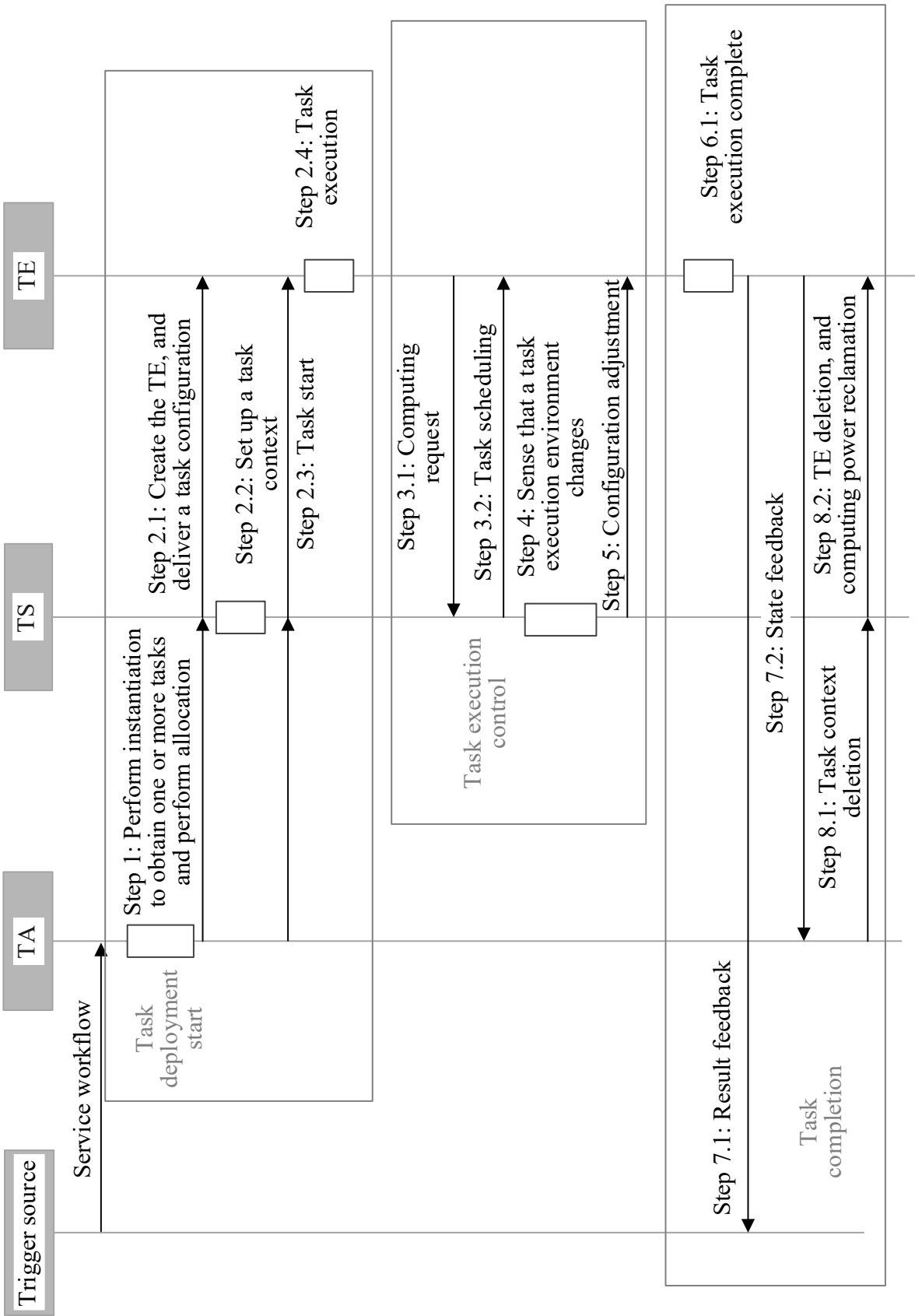


FIG. 93

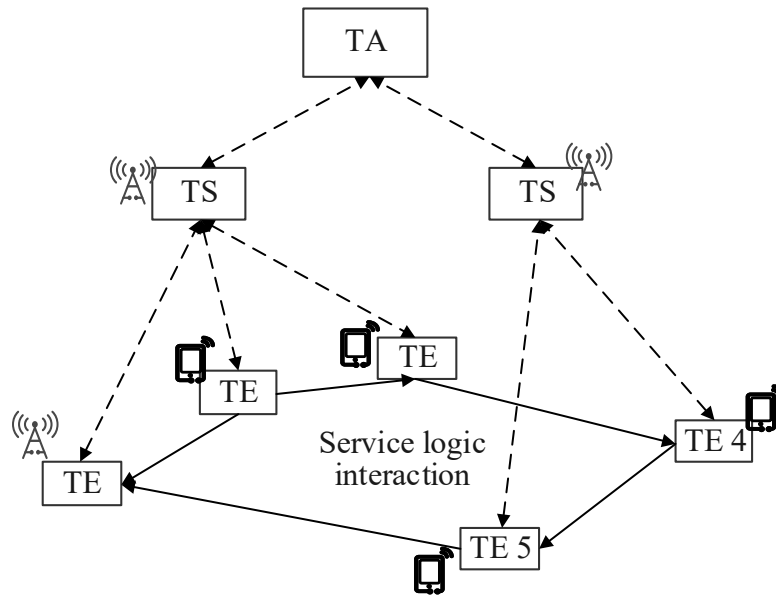


FIG. 94

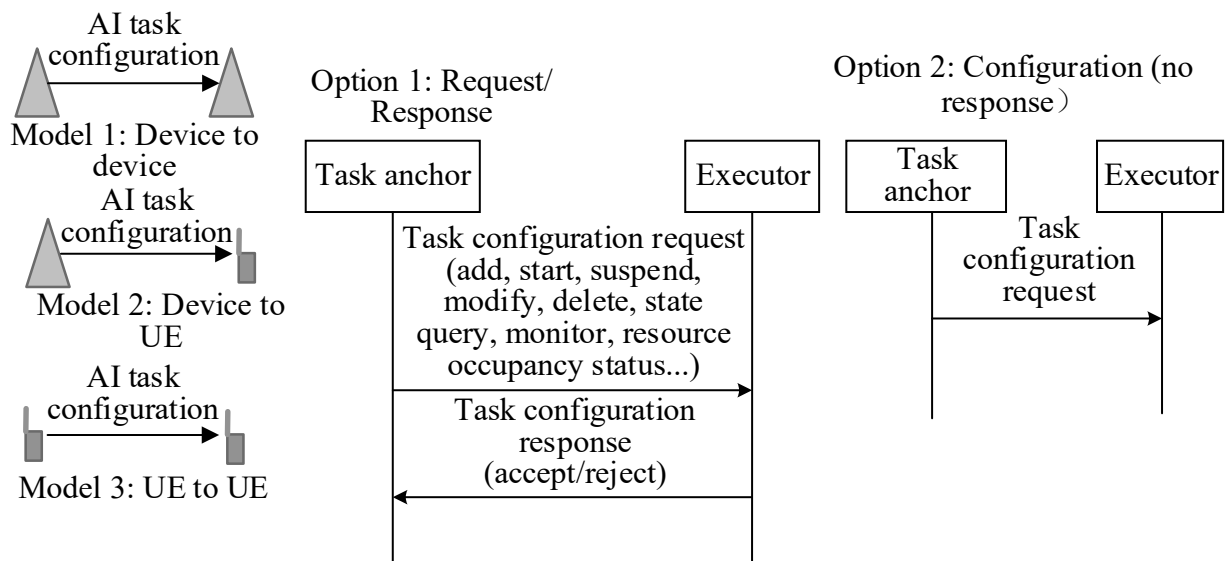
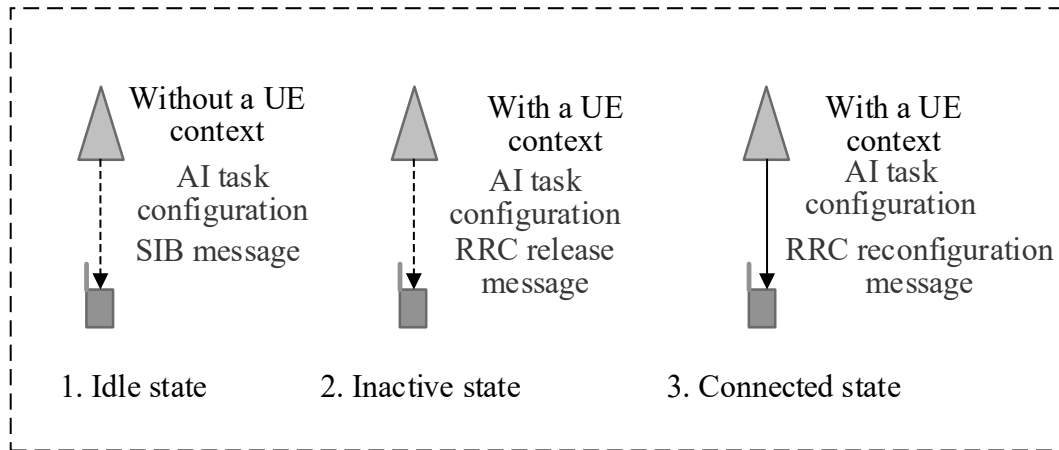


FIG. 95



AI task configurations of a UE in different states

FIG. 96

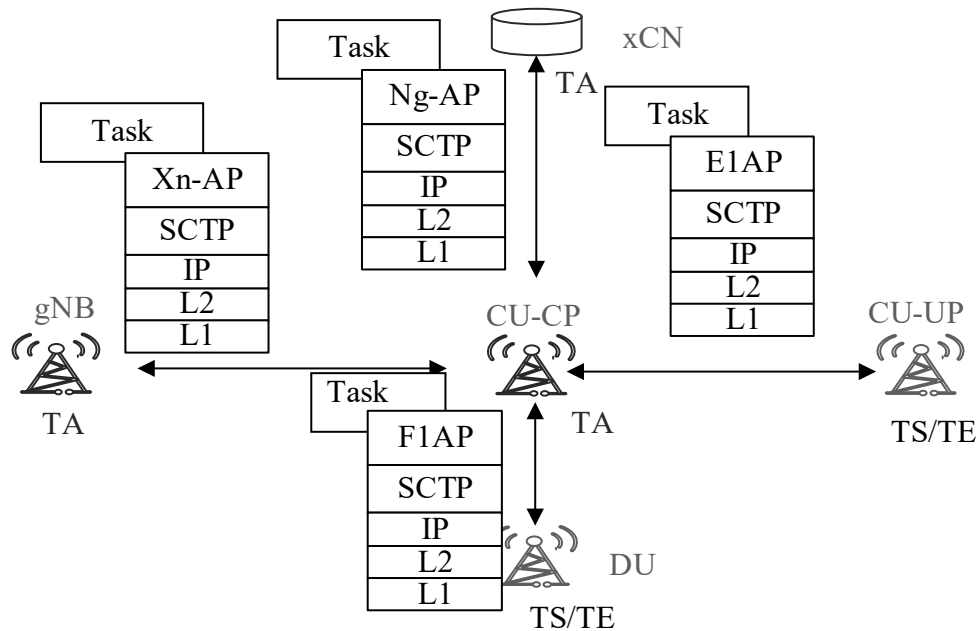


FIG. 97

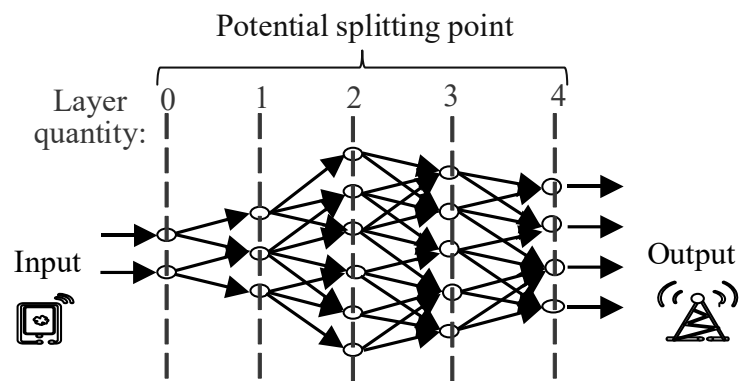


FIG. 98

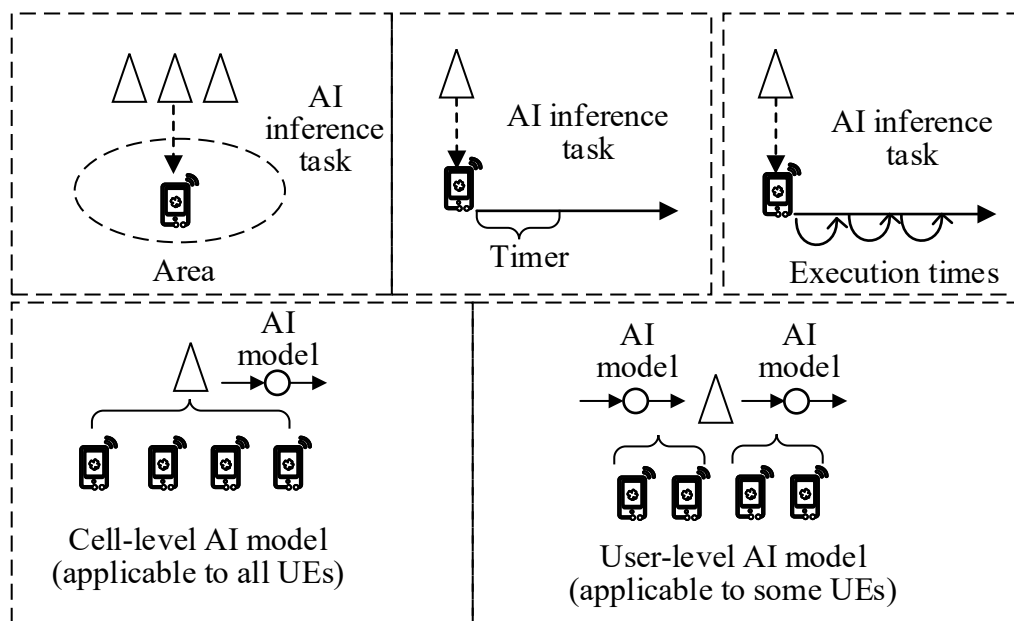


FIG. 99

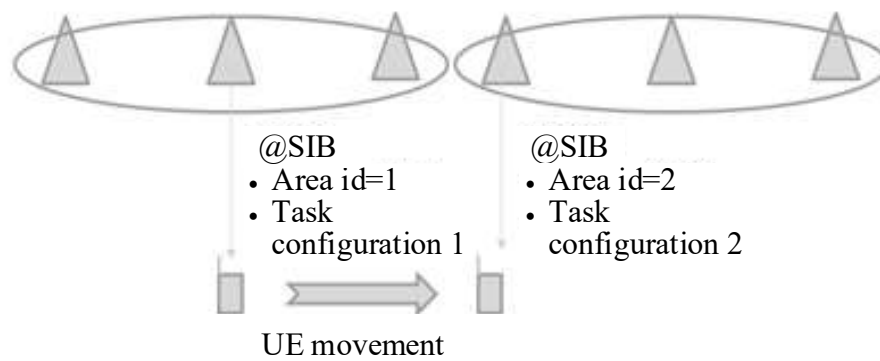


FIG. 100

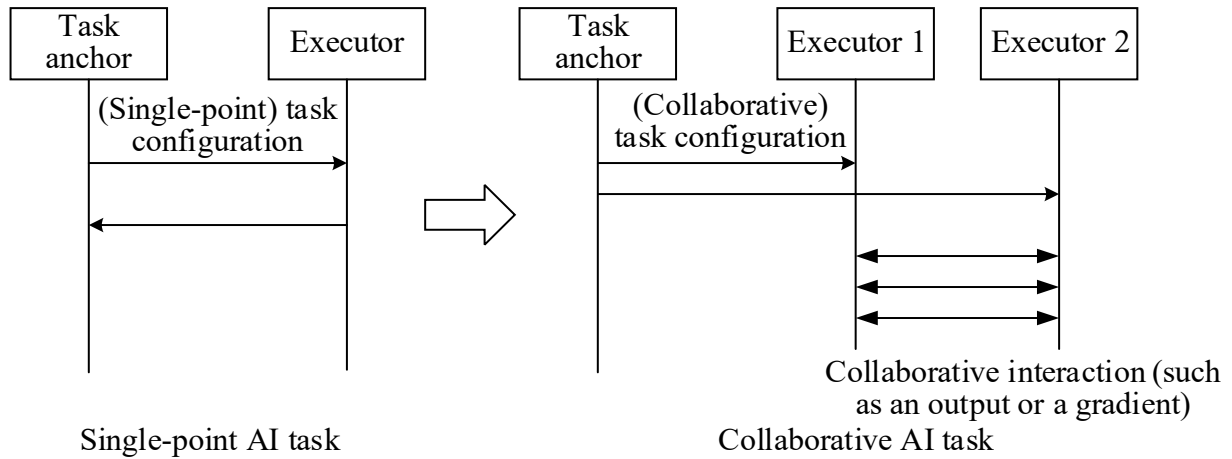


FIG. 101

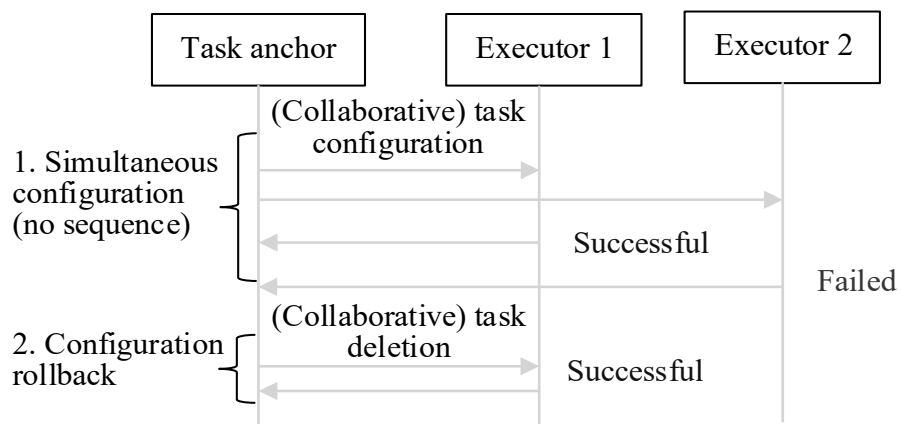


FIG. 102

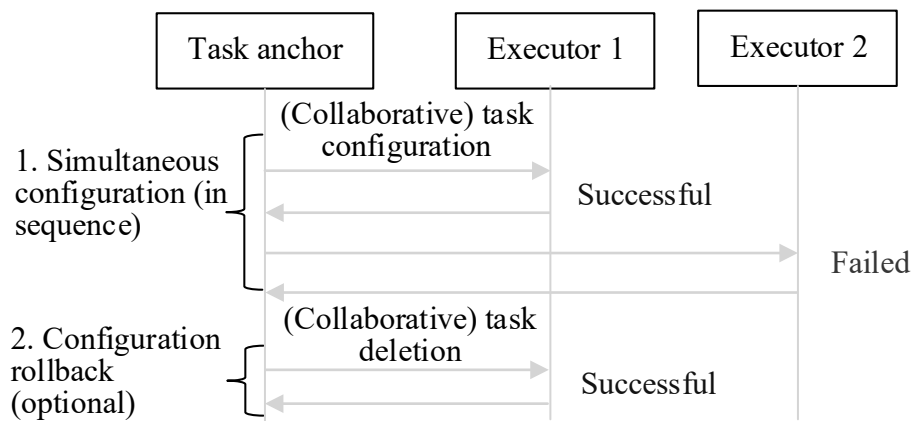


FIG. 103

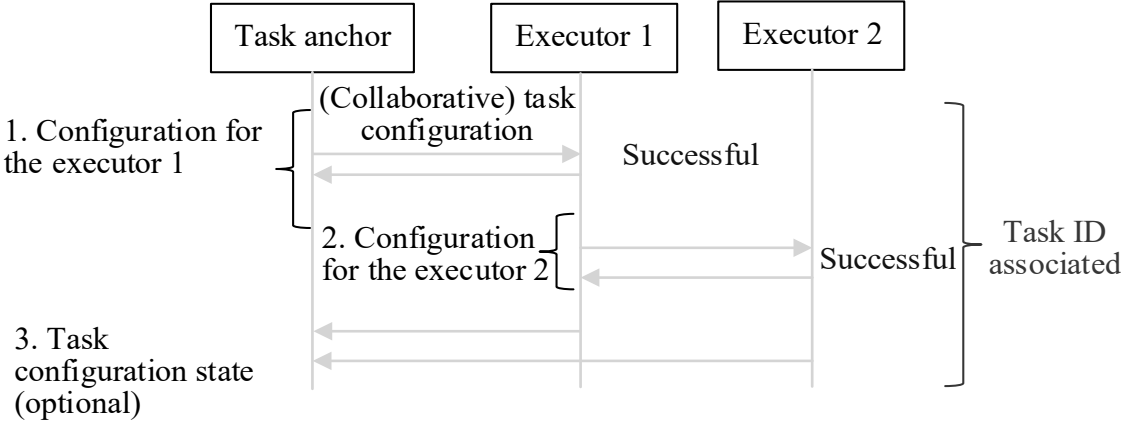
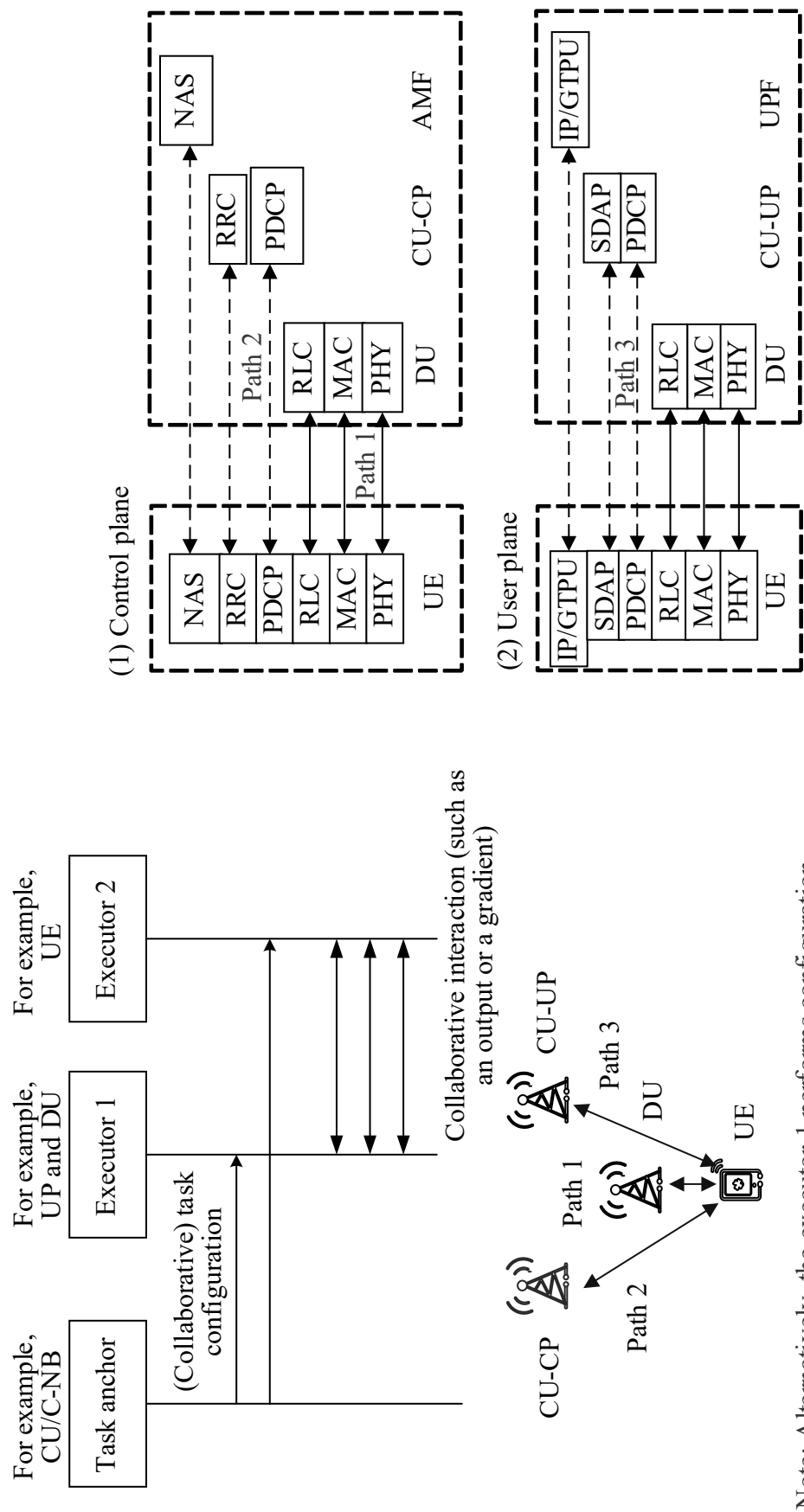


FIG. 104



Note: Alternatively, the executer 1 performs configuration for the executer 2

FIG. 105

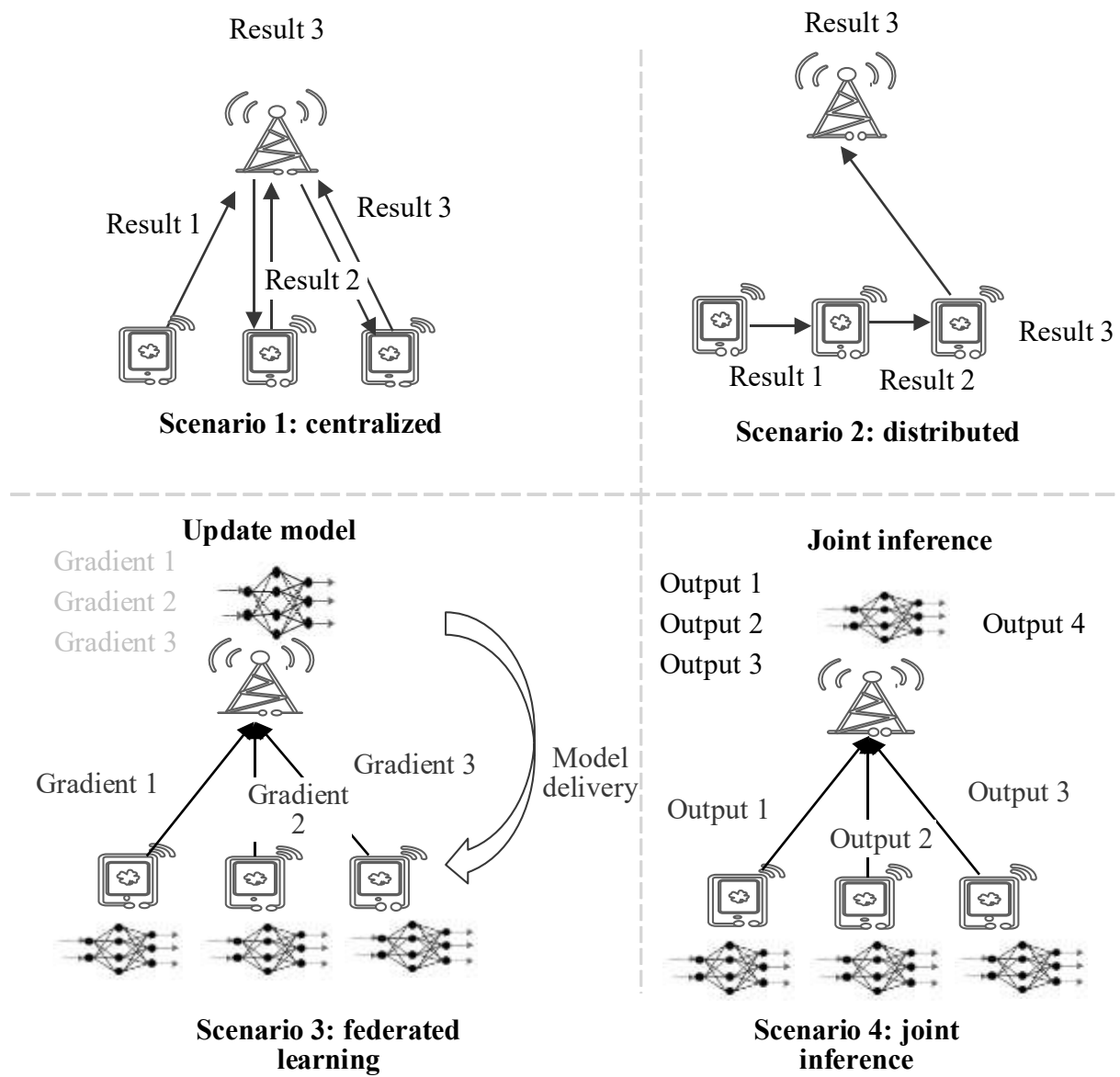


FIG. 106

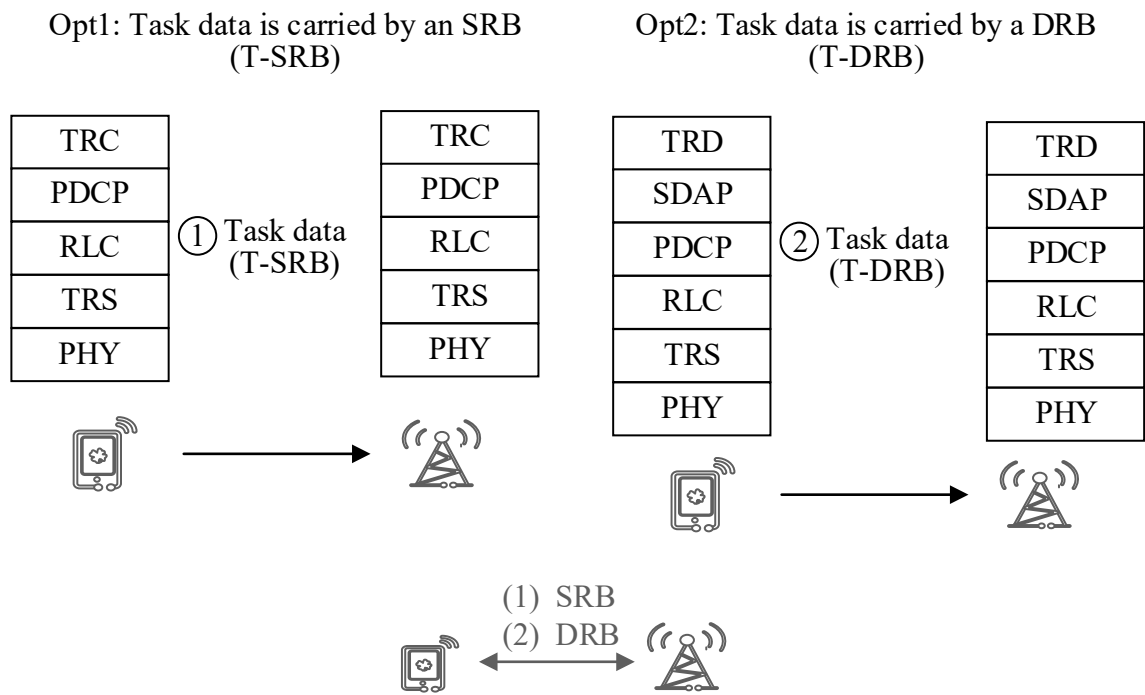


FIG. 107

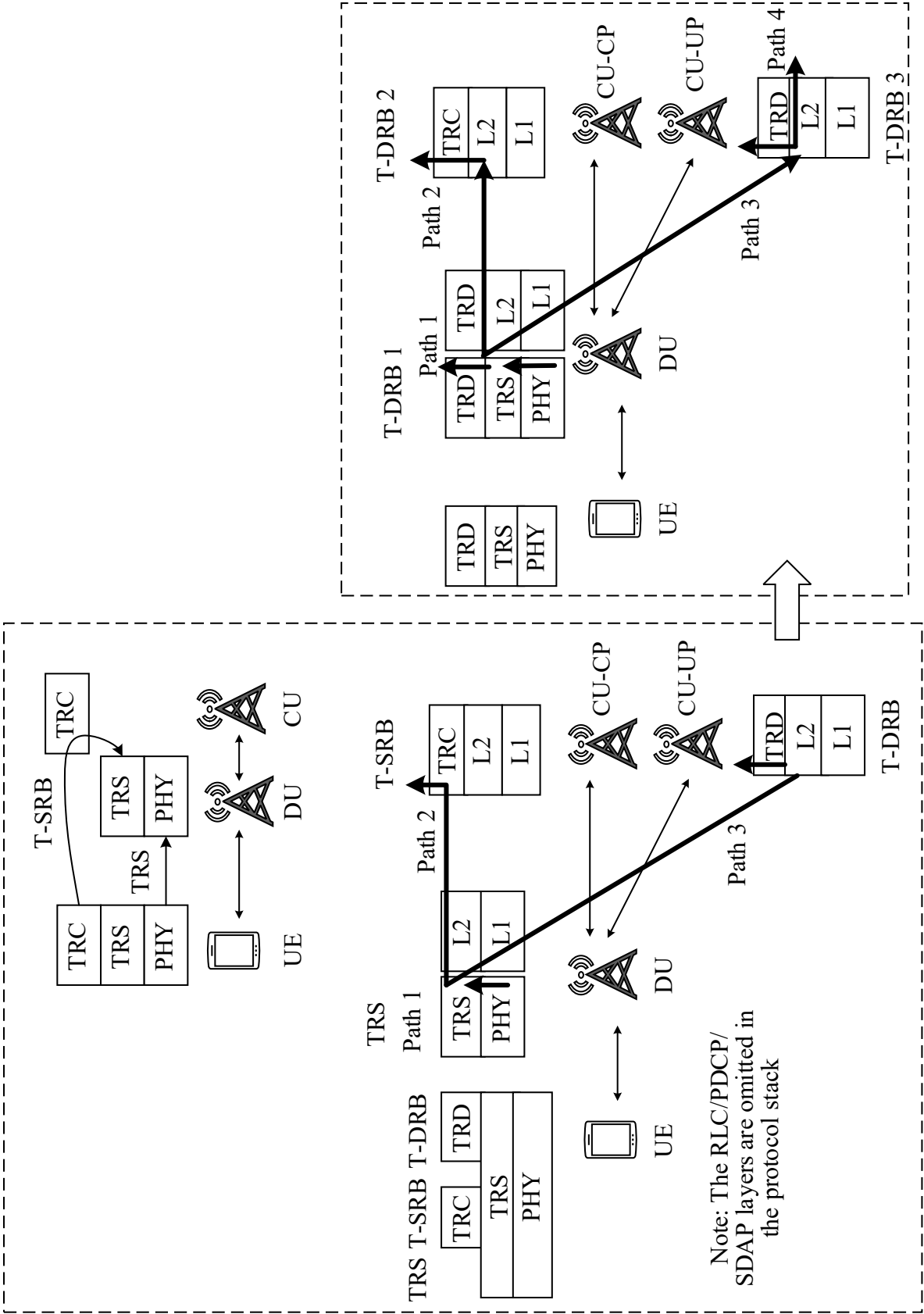


FIG. 108

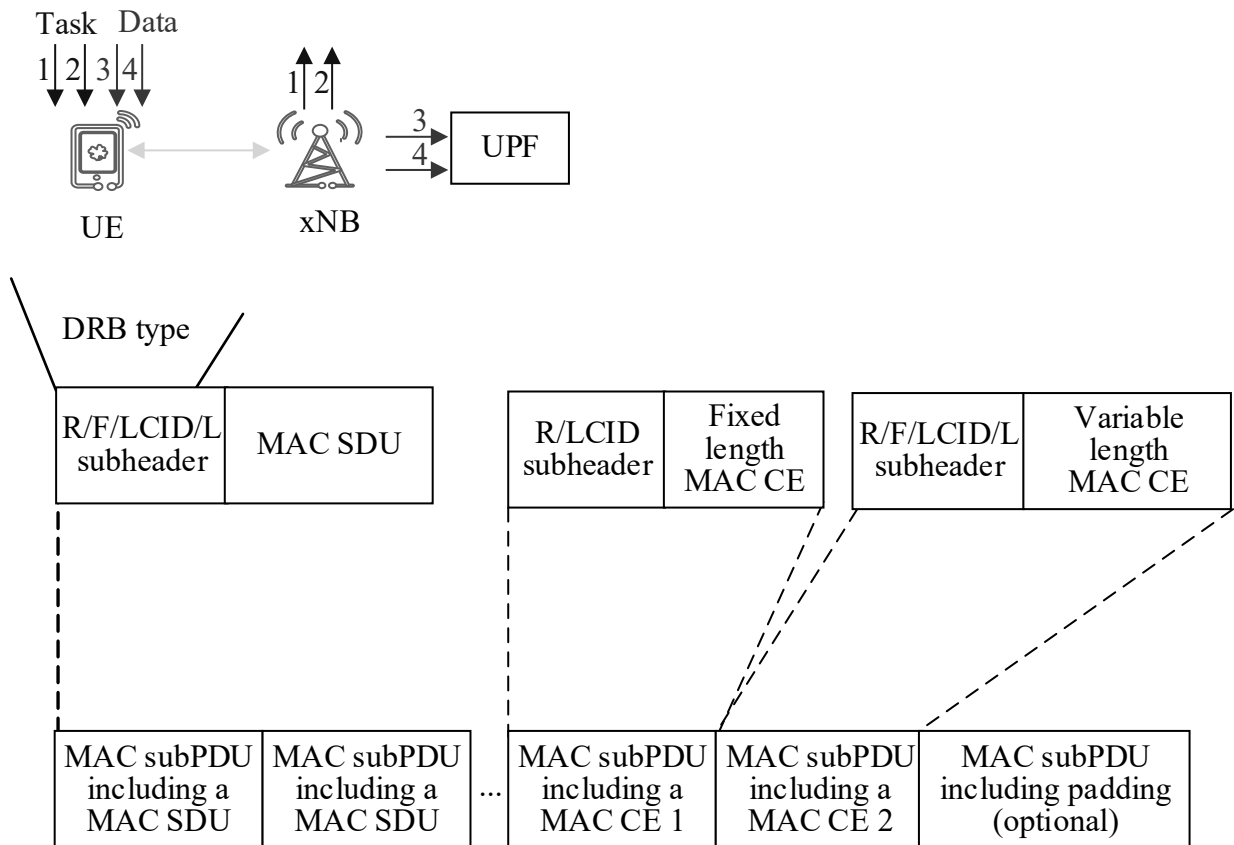


FIG. 109

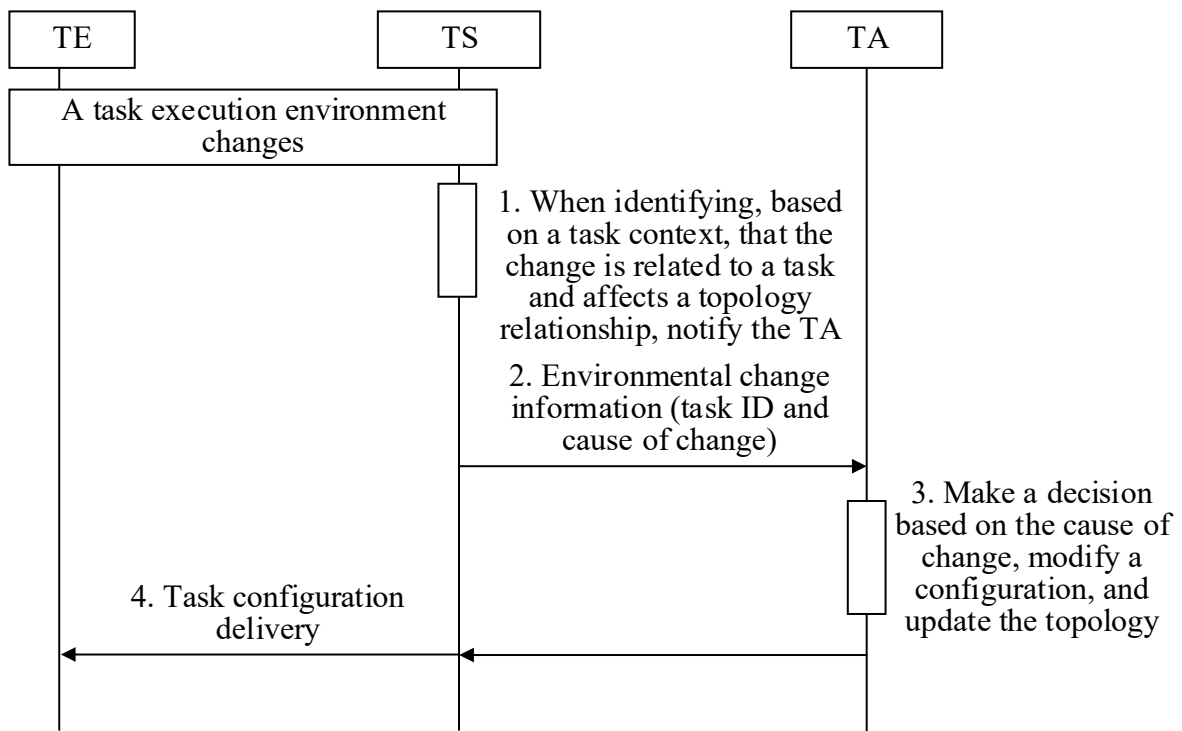


FIG. 110

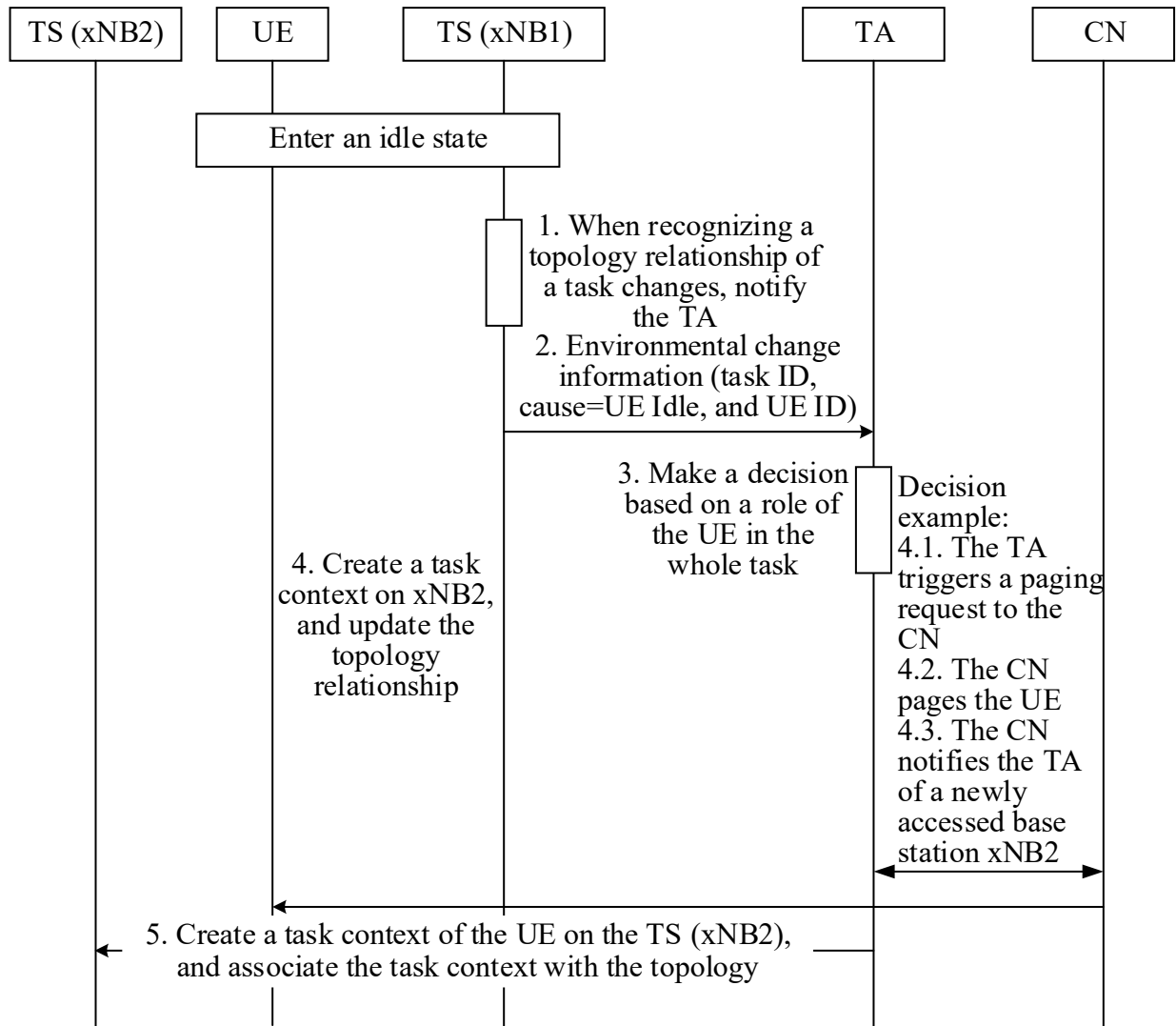


FIG. 111

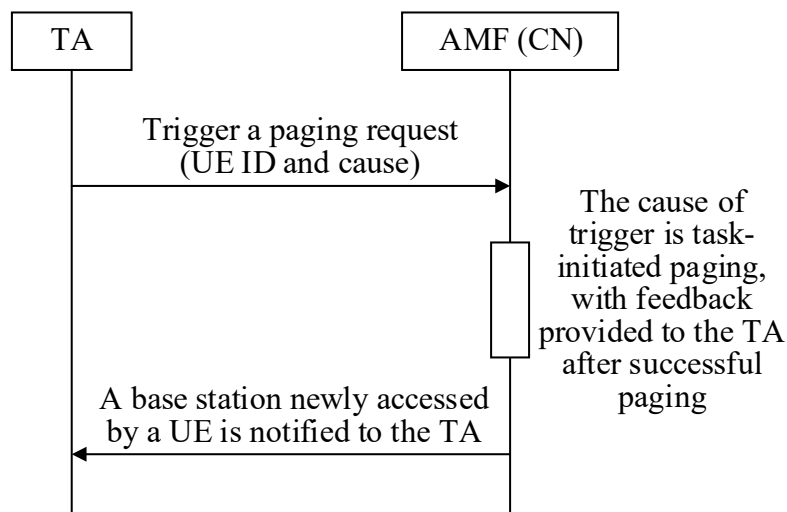


FIG. 112

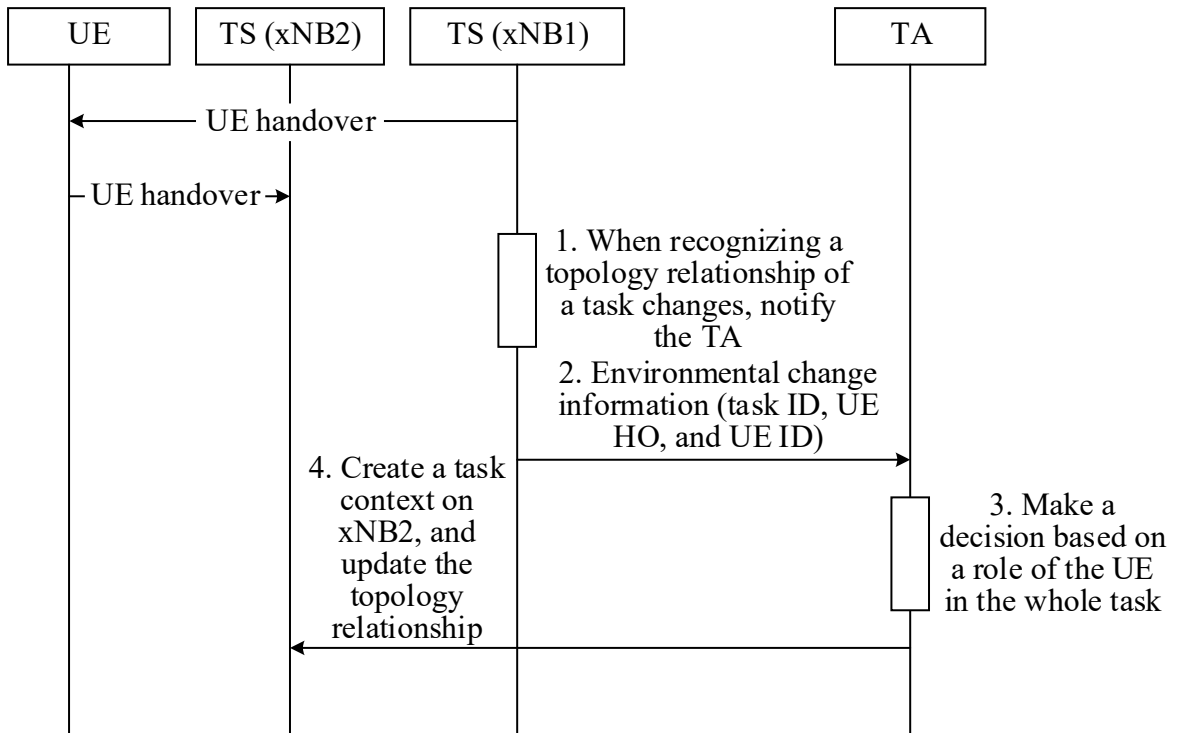


FIG. 113

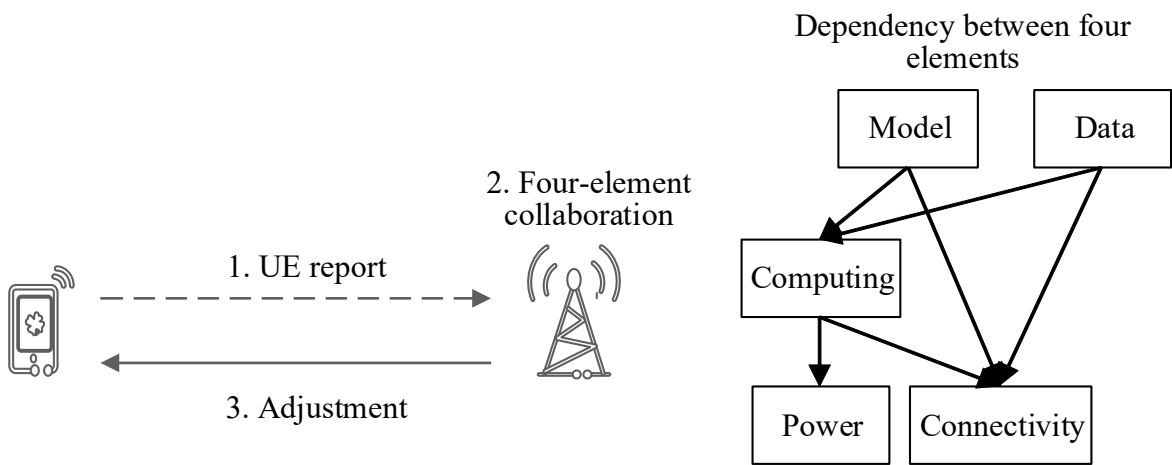


FIG. 114

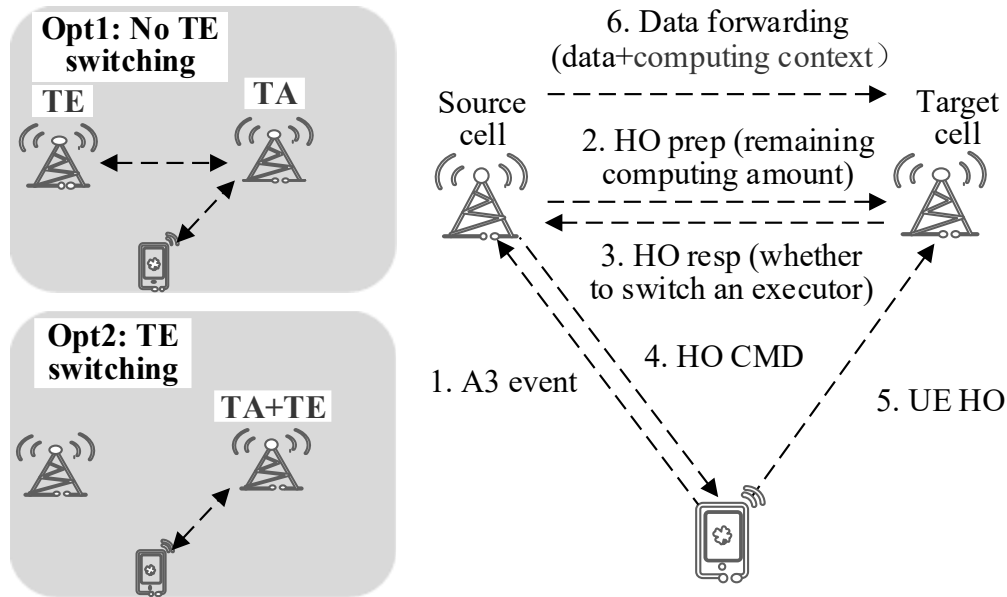


FIG. 115

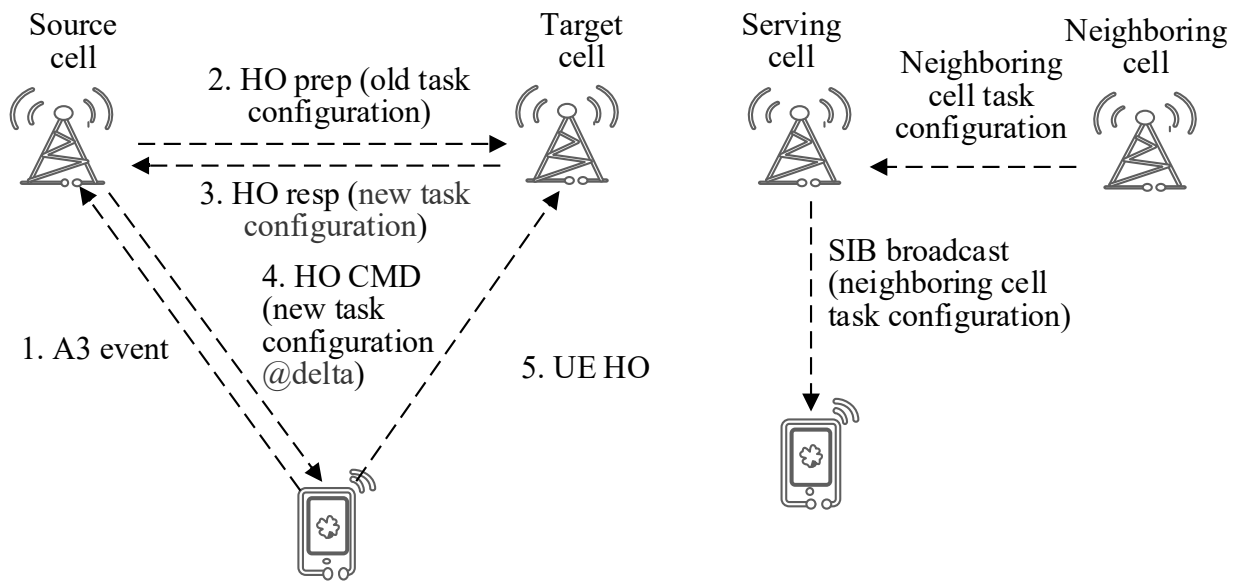


FIG. 116

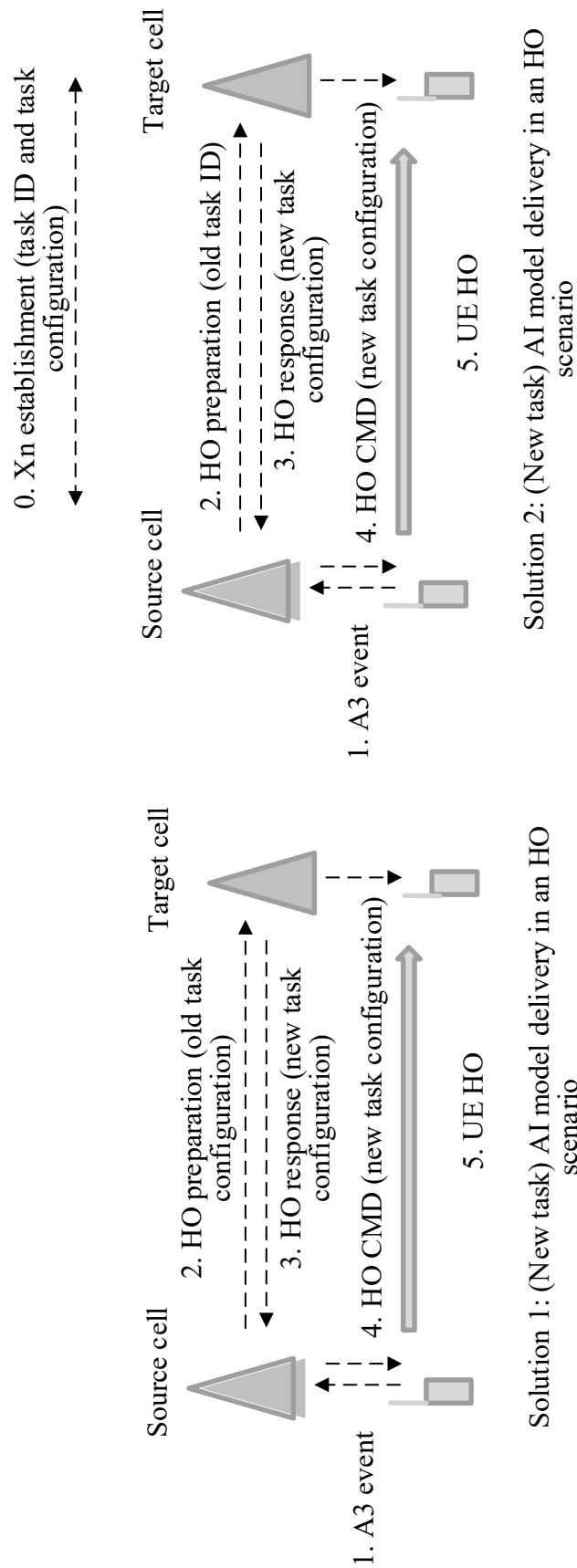
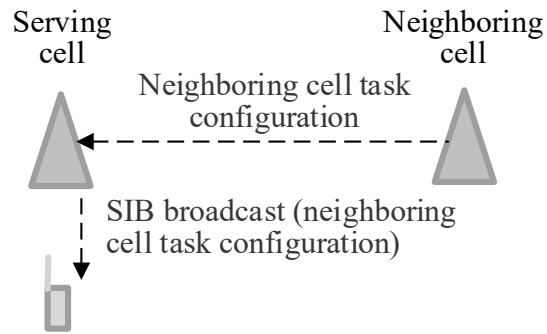


FIG. 117



Solution 3: (New task) neighboring cell
AI model broadcast

FIG. 118

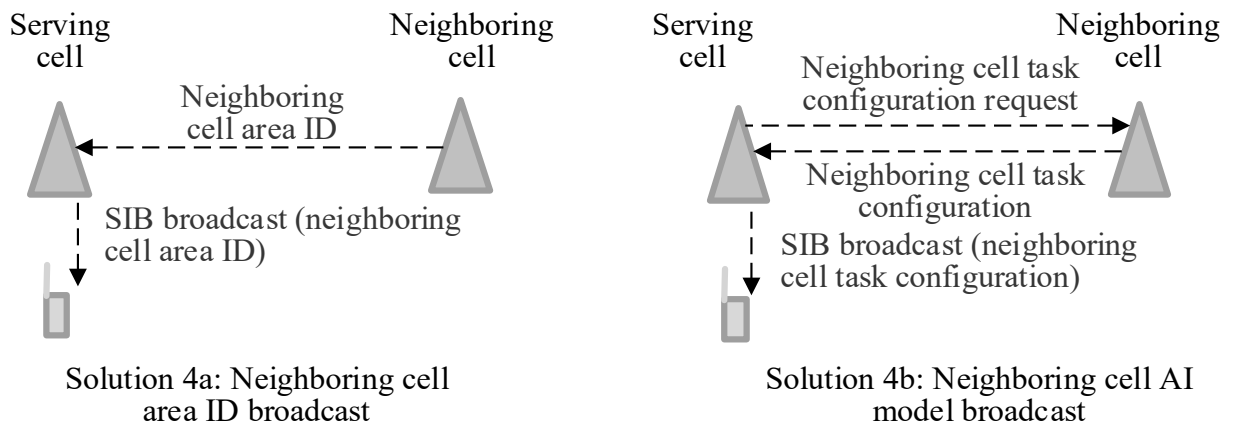
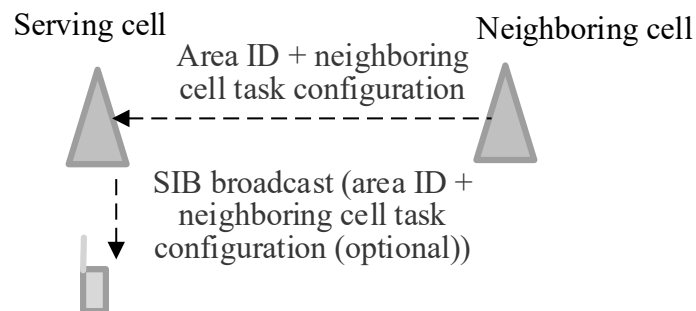


FIG. 119



Solution 5: Neighboring cell
AI model broadcast

FIG. 120

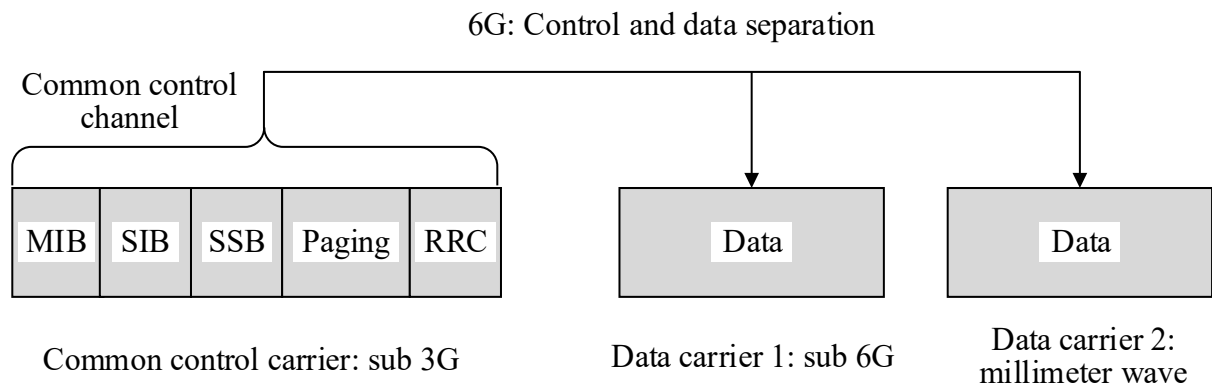


FIG. 121

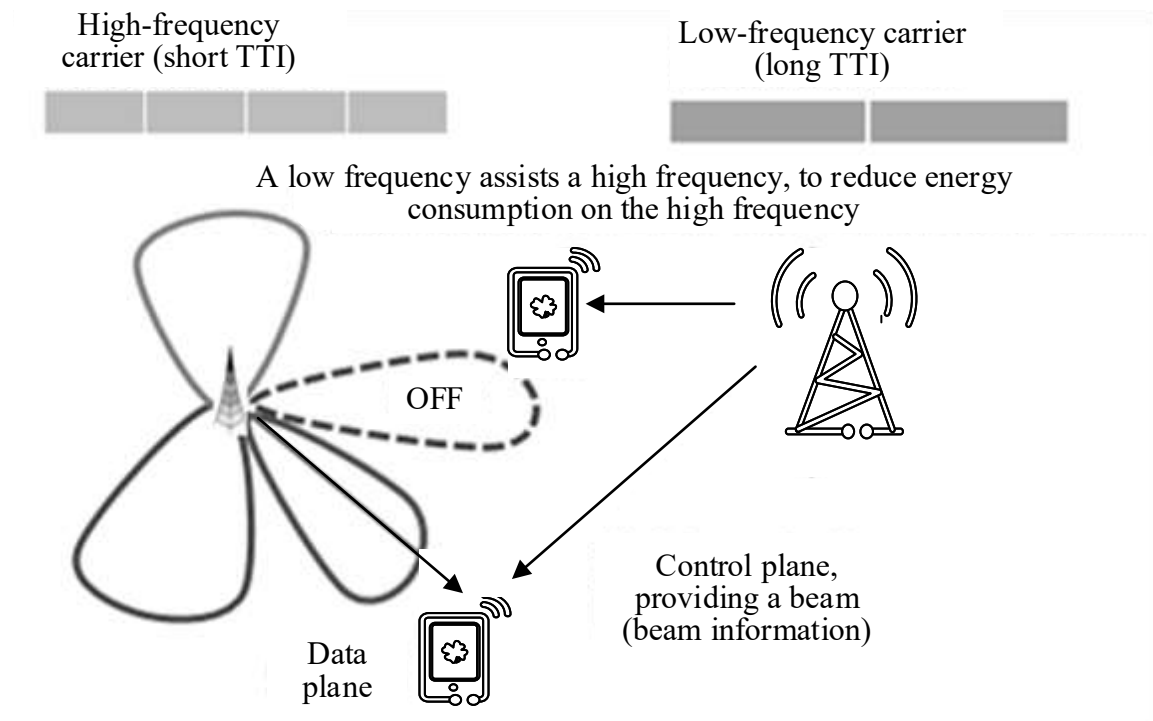


FIG. 122

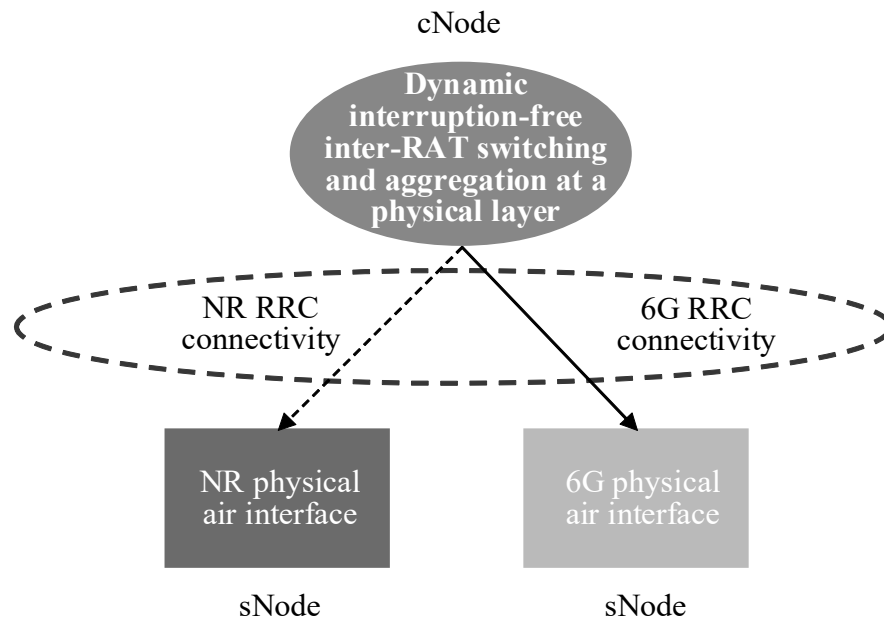


FIG. 123

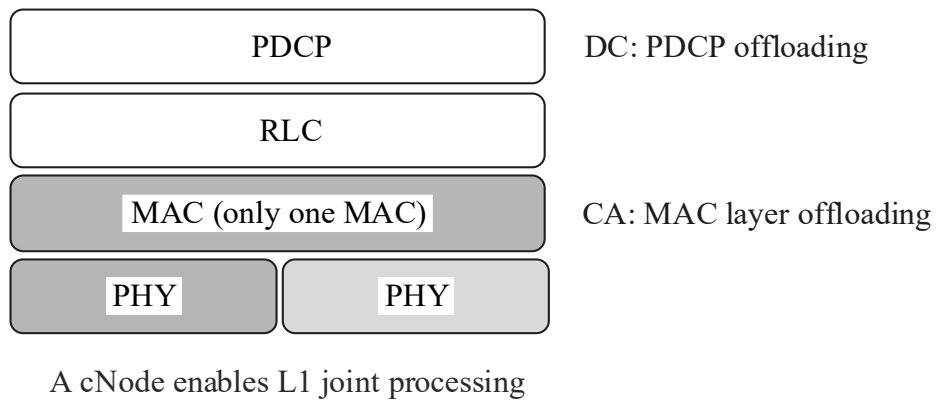


FIG. 124

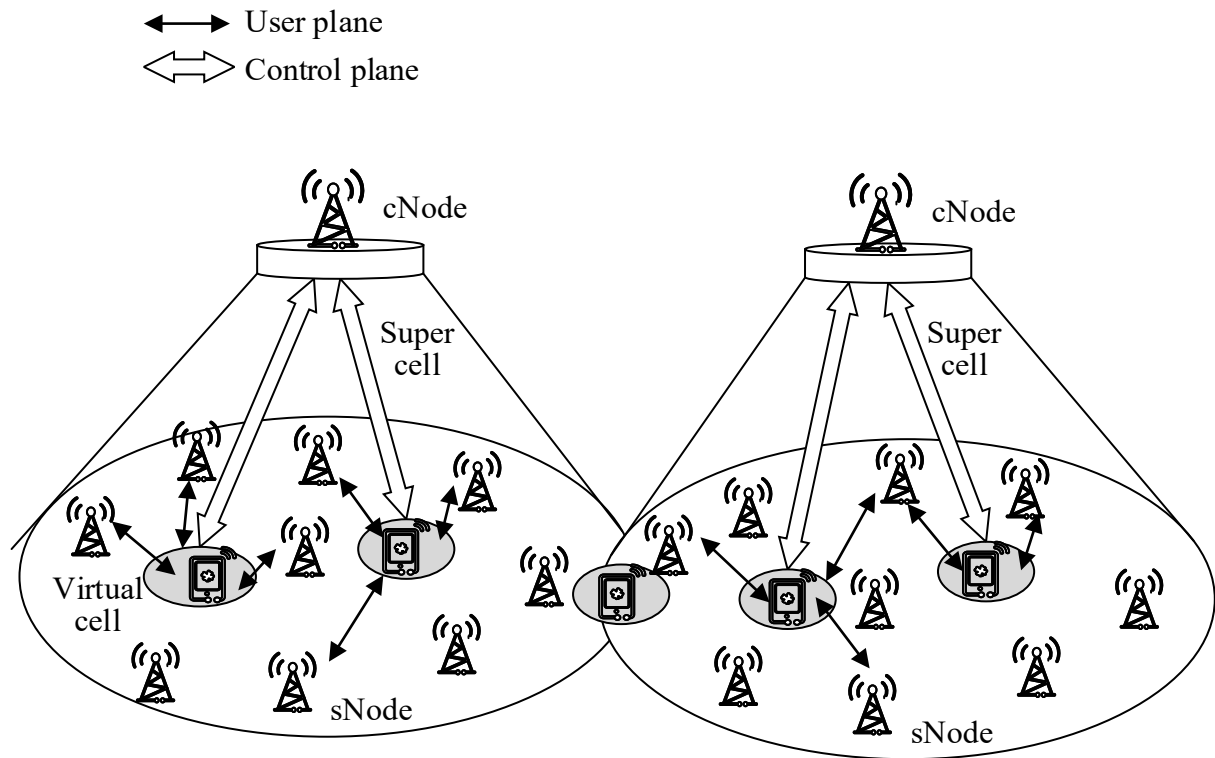


FIG. 125

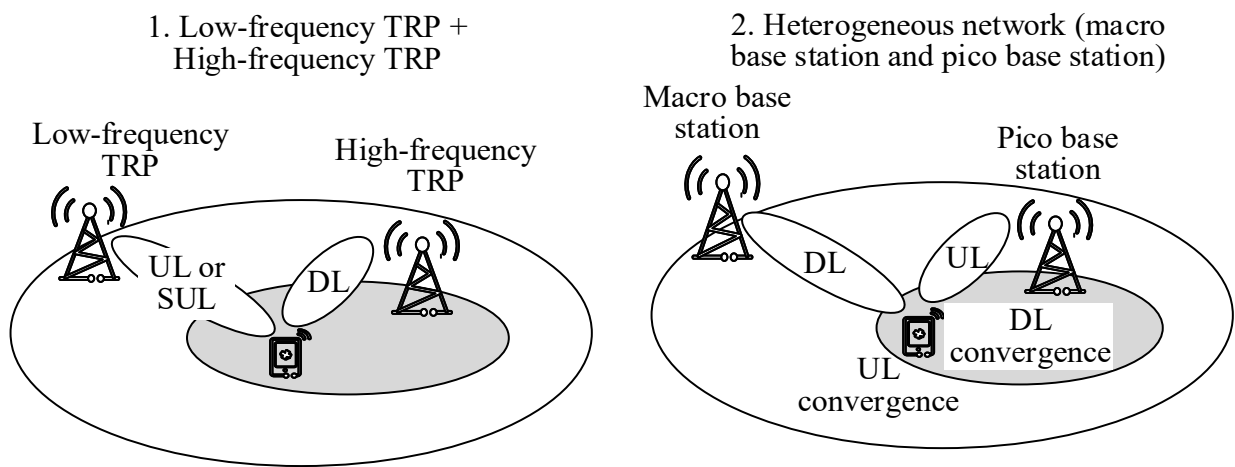


FIG. 126

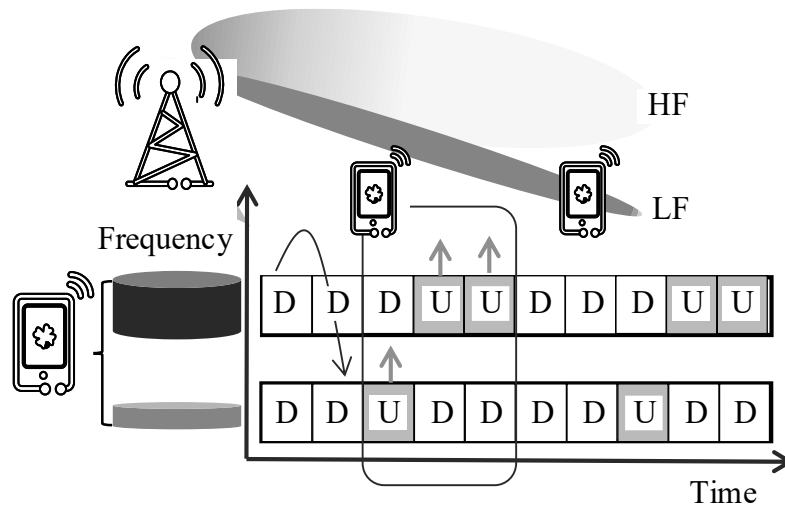


FIG. 127

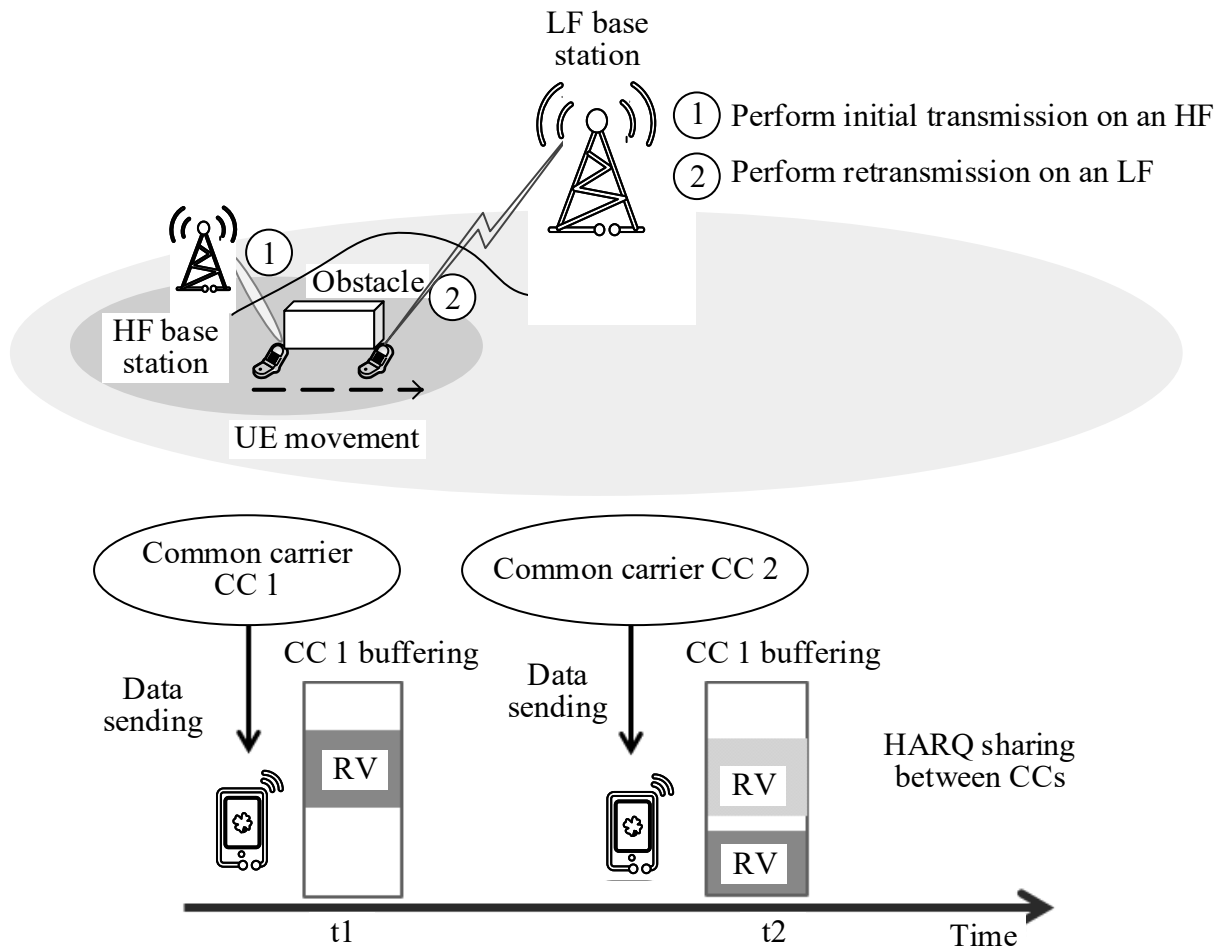


FIG. 128

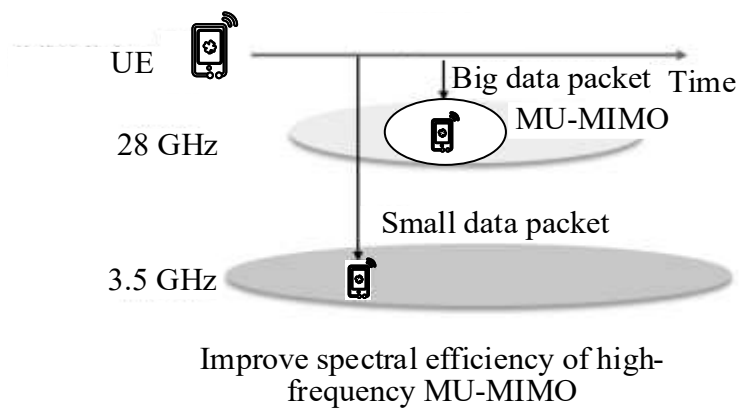


FIG. 129

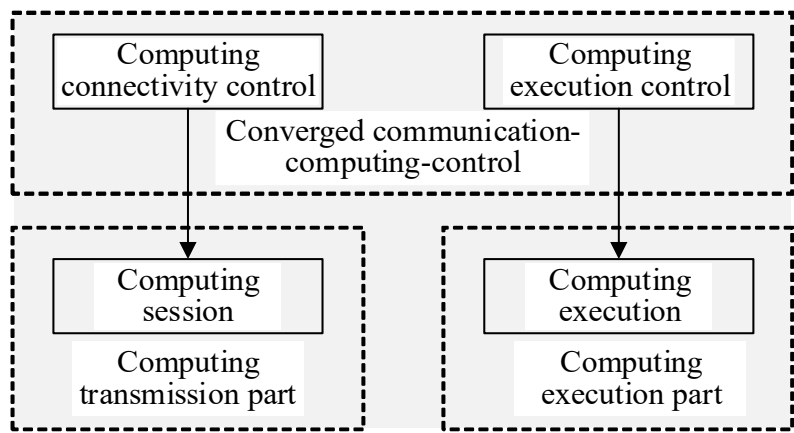


FIG. 130

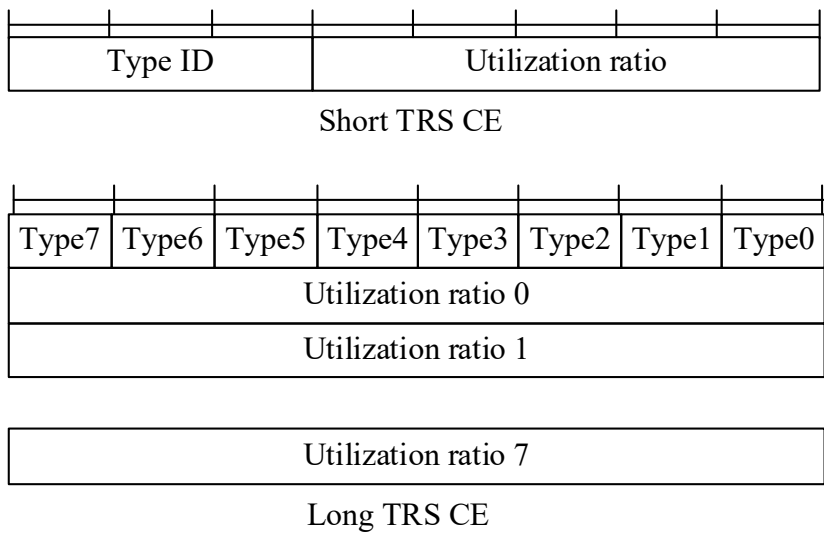


FIG. 131

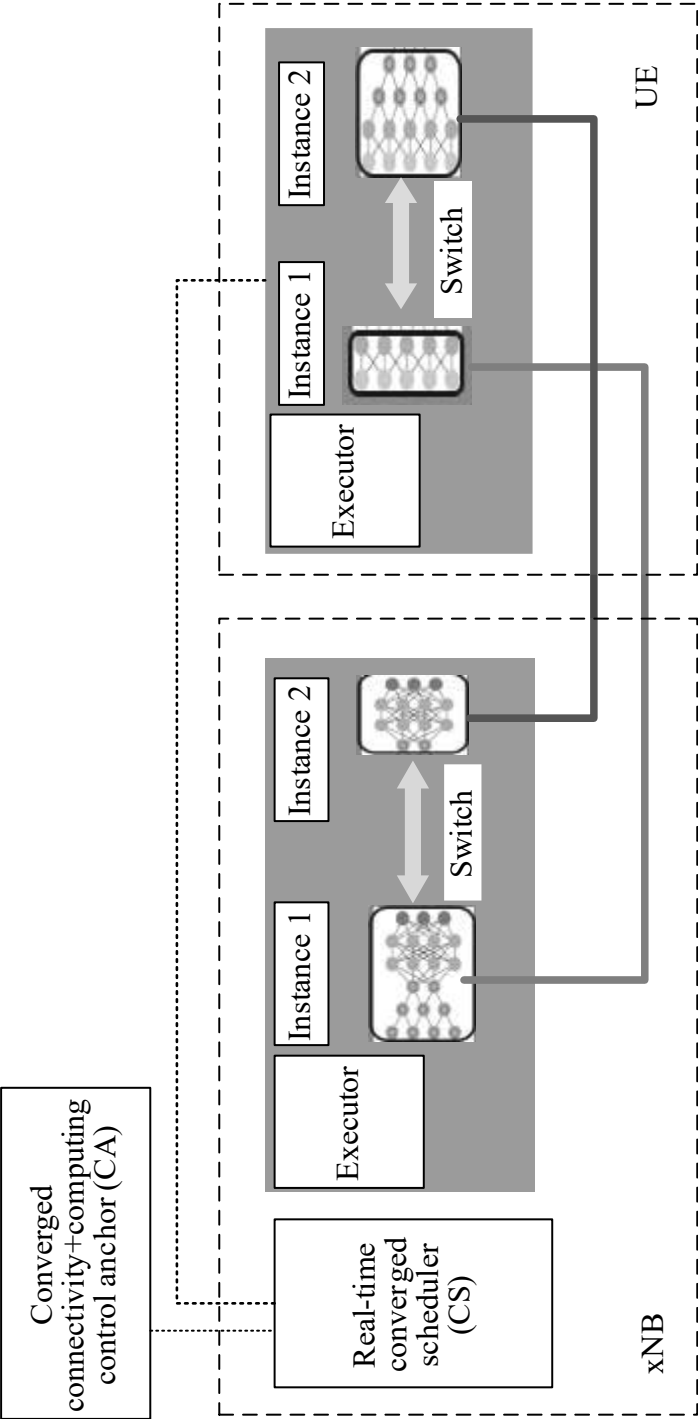


FIG. 132

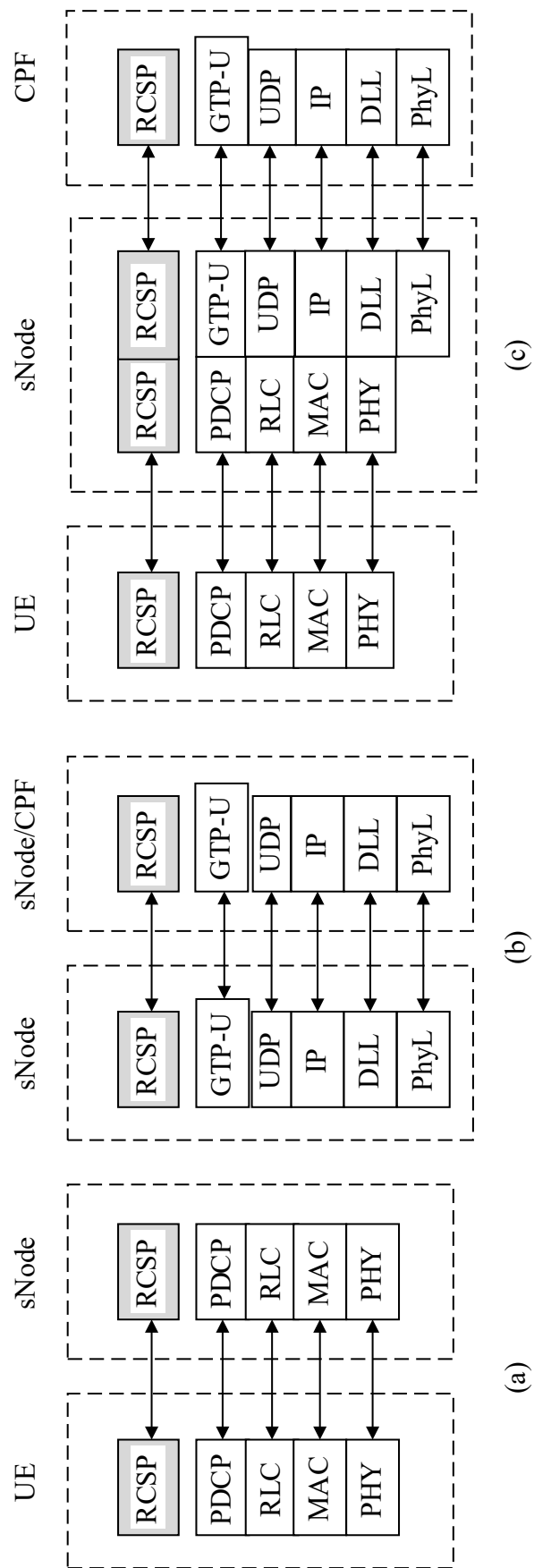


FIG. 133

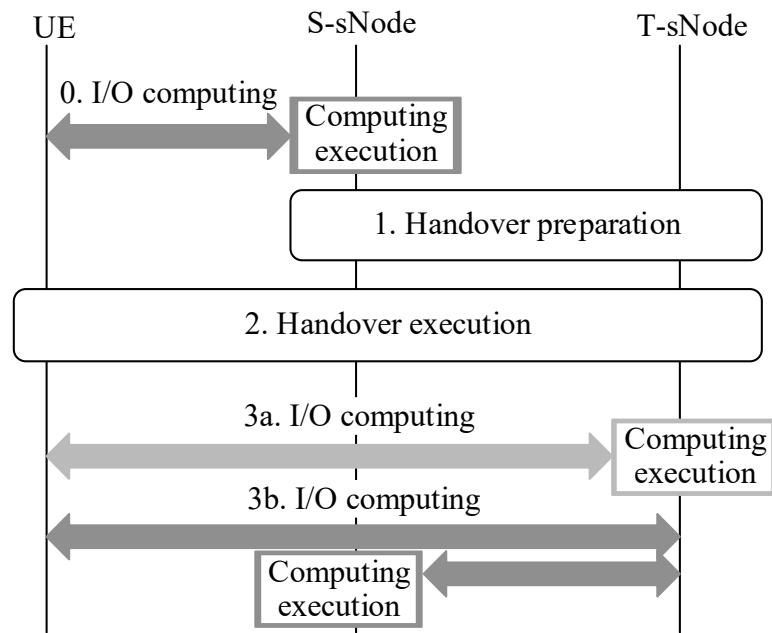


FIG. 134

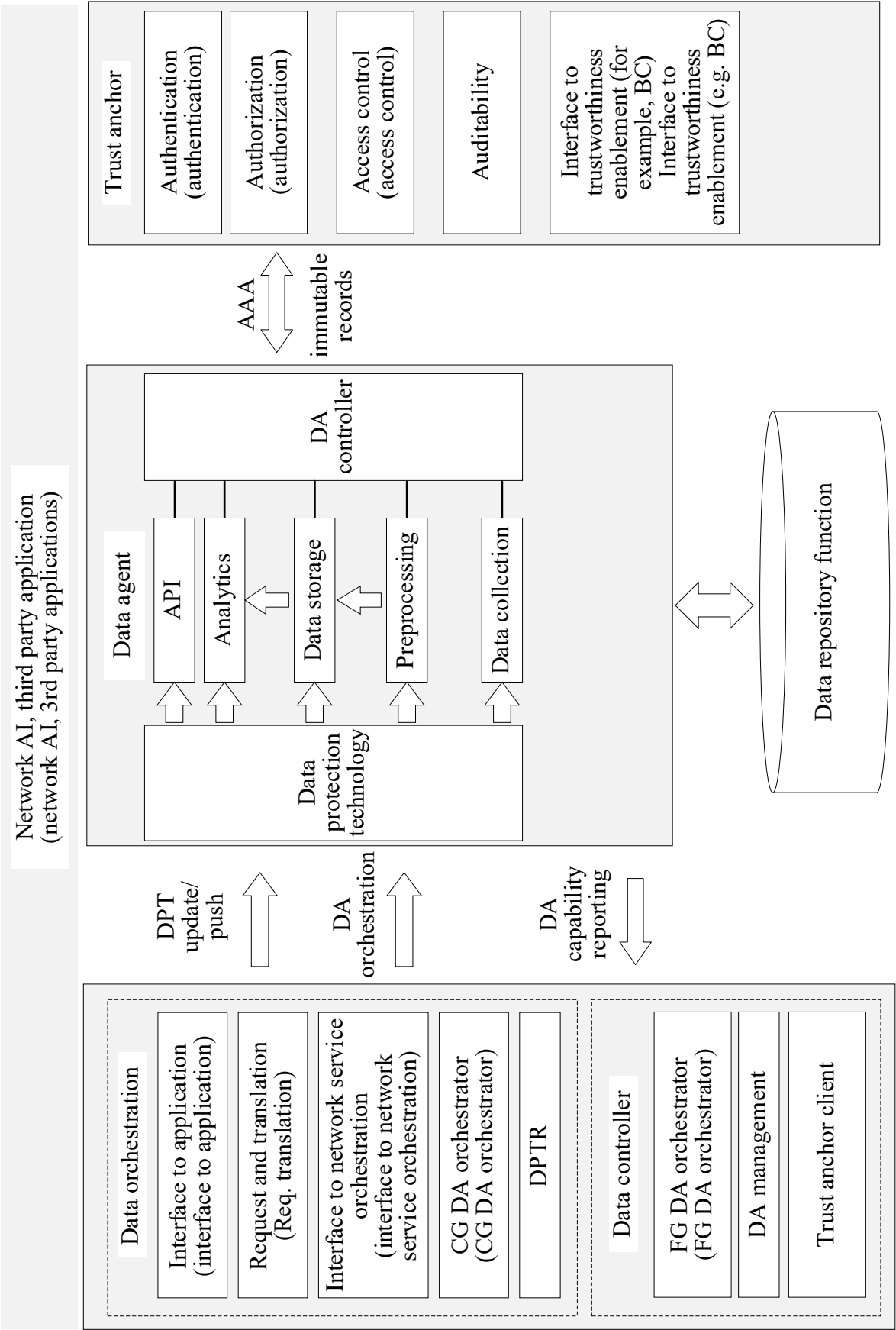


FIG. 135

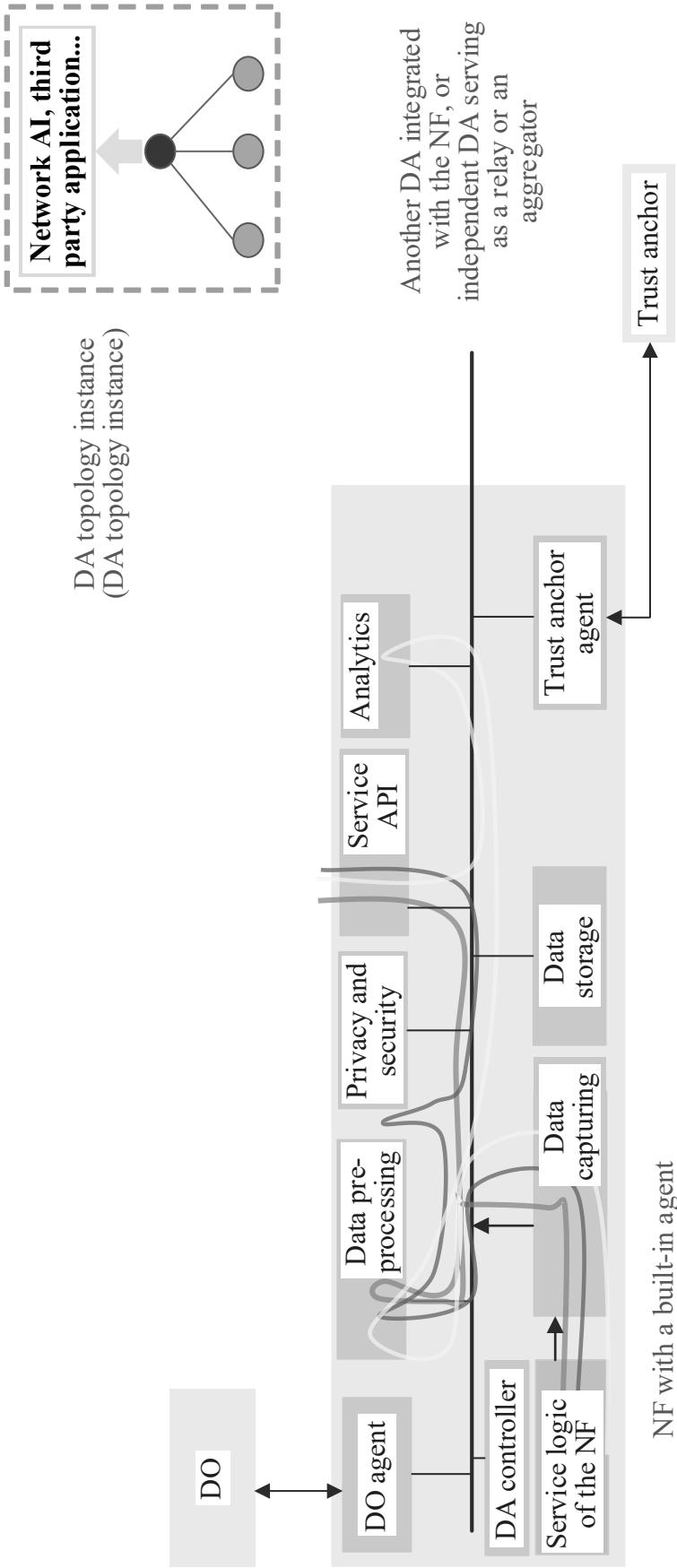


FIG. 136

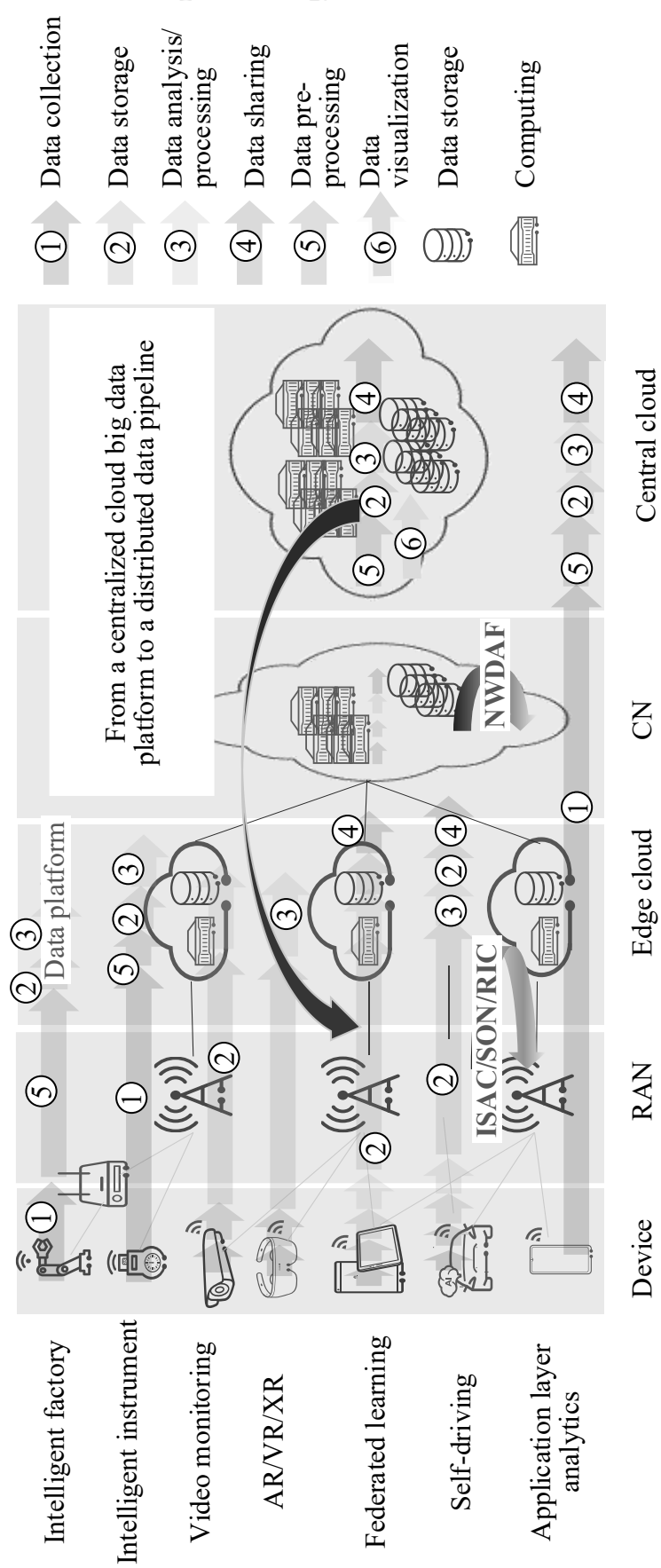


FIG. 137

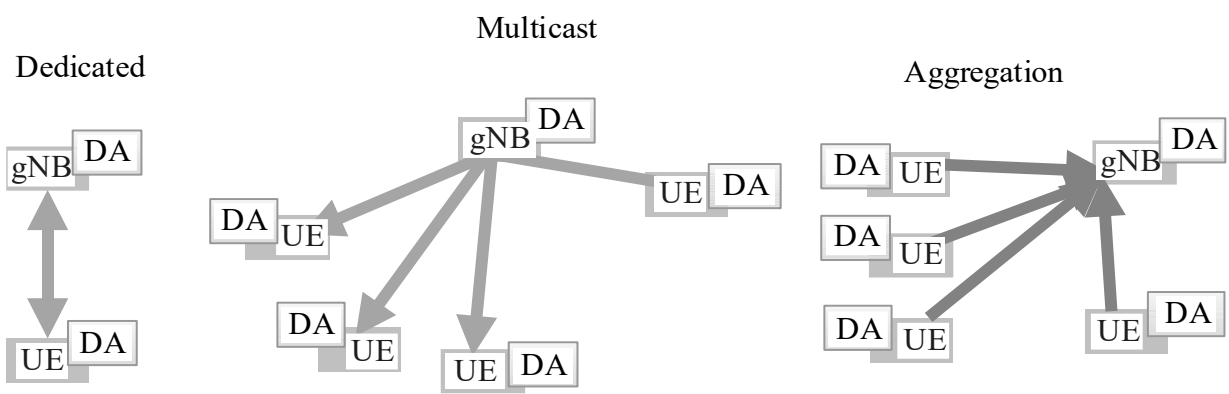


FIG. 138

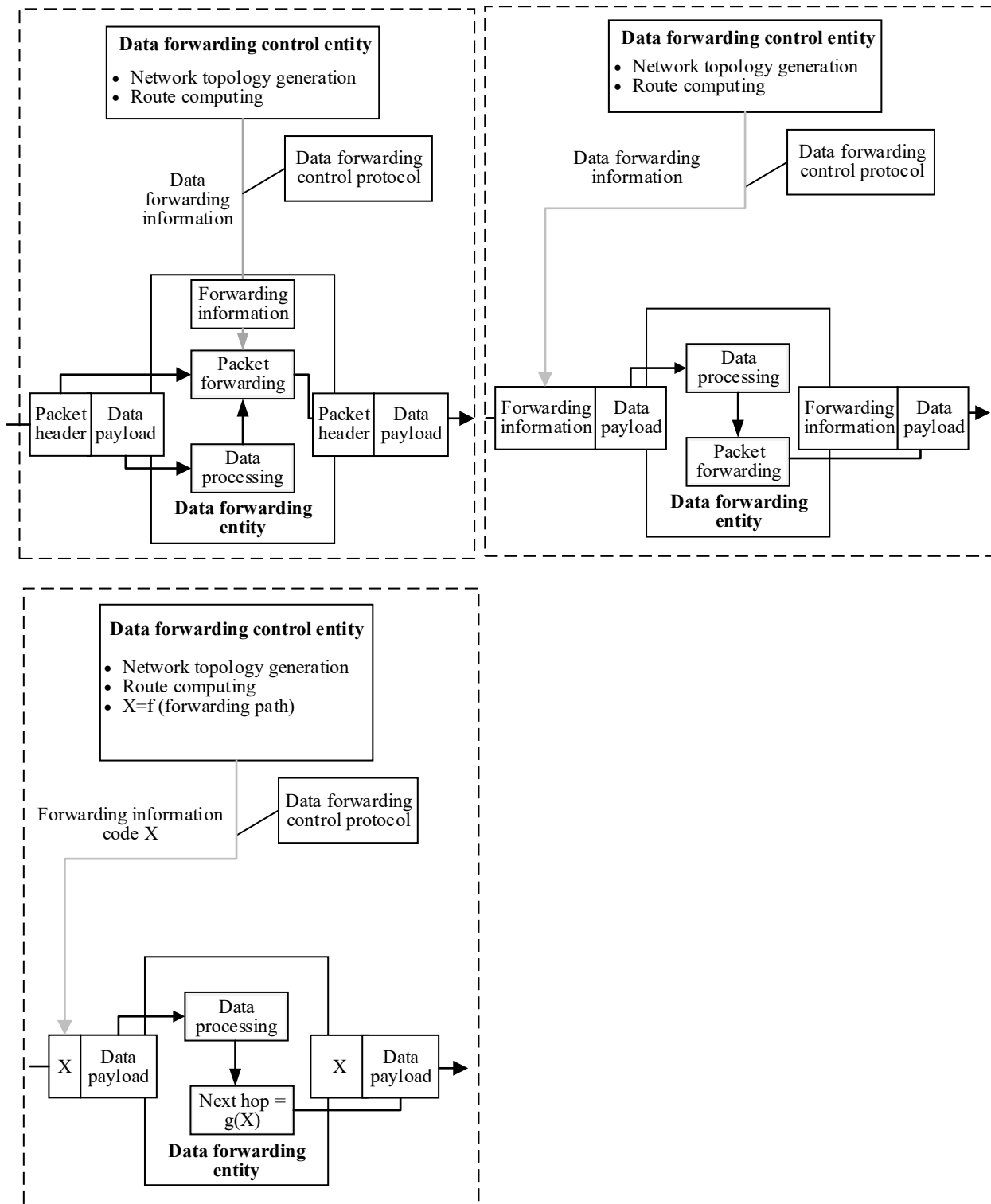


FIG. 139

7	6	5	4	3	2	1	0
D/C	S	Reserved					Protocol ID (0/2)
DS ID							
DS ID (cont.)							
DP ID							
DP ID (cont.)							
SequenceNumber (1st octet)							
SequenceNumber (2st octet)							
SequenceNumber (3st octet)							
Length							
Length (cont.)							
Data							
...							

FIG. 140

7	6	5	4	3	2	1	0
D/C	S	Reserved		Protocol ID (1)			
Header length							
DS ID							
DS ID (cont.)							
DP ID							
DP ID (cont.)							
SequenceNumber (1st octet)							
SequenceNumber (2st octet)							
SequenceNumber (3st octet)							
Route counts							
Route type							
Next DA ID1							
Next DA ID1 (cont.)							
Route type							
Next DA counts (							
Next DA ID2							
Next DA ID2 (cont.)							
Next DA ID3							
Next DA ID3 (cont.)							
...							
Data length							
Data length (cont.)							
Data							
...							

FIG. 141

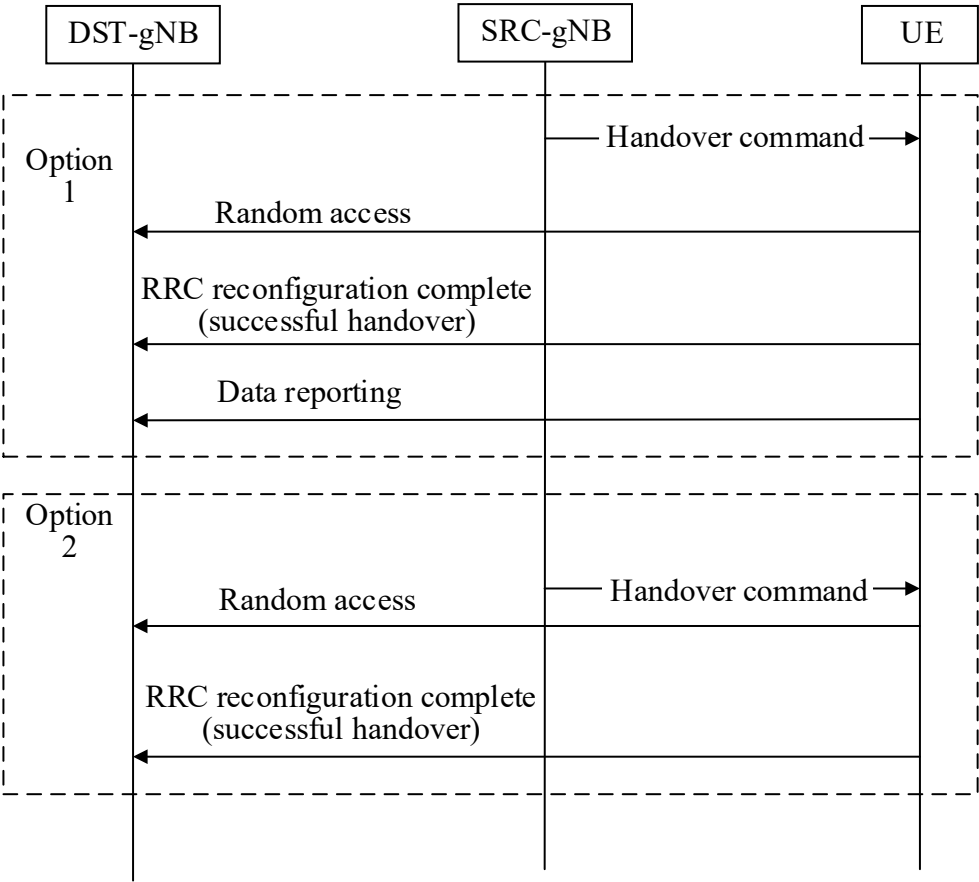
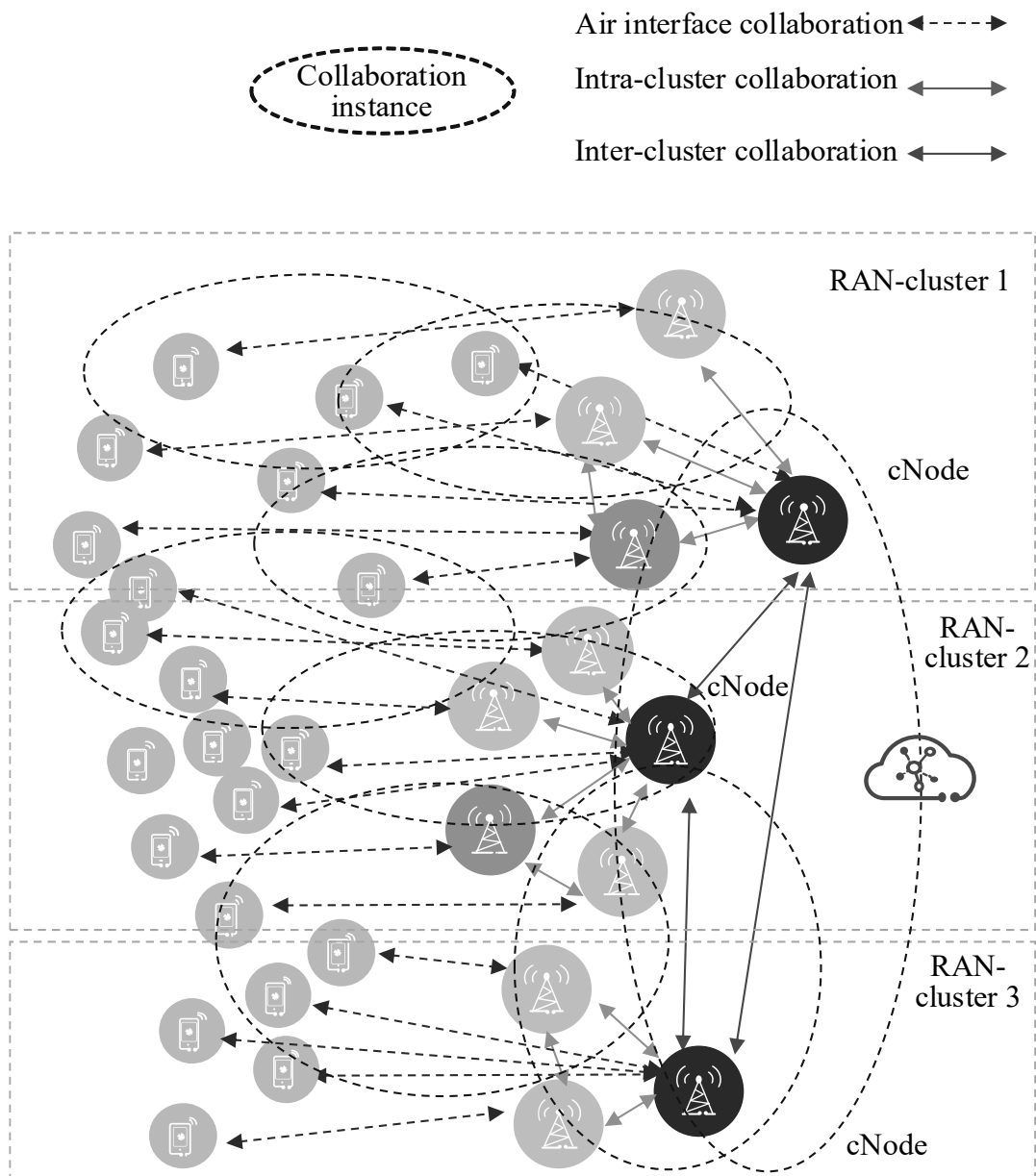


FIG. 142



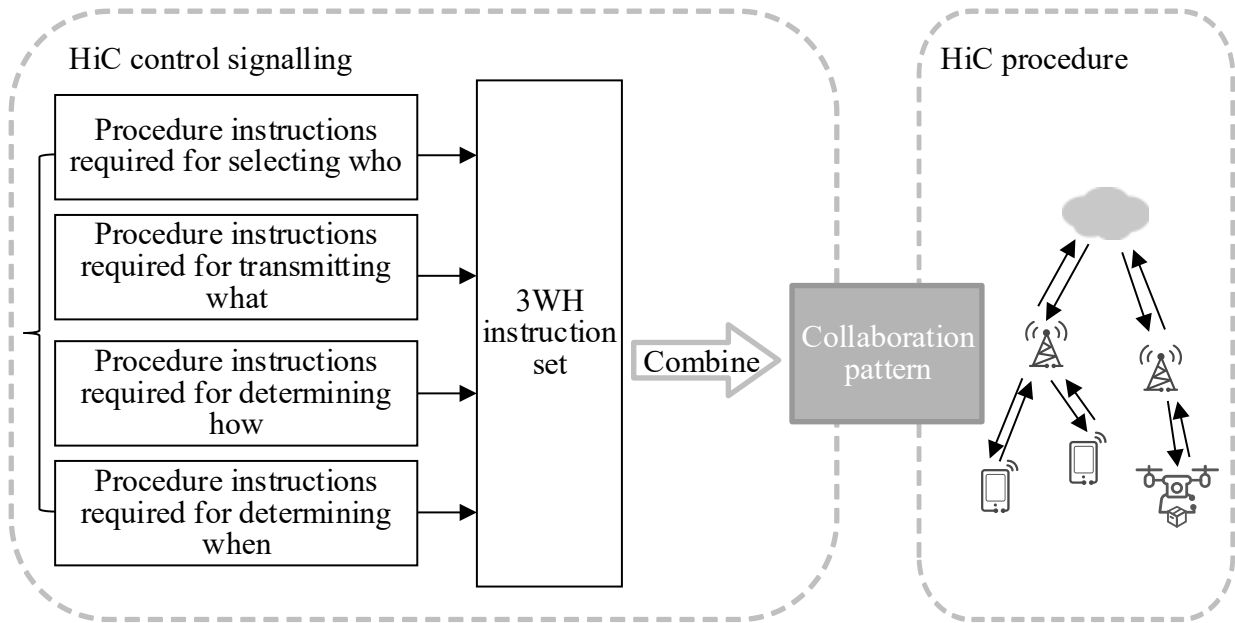


FIG. 144

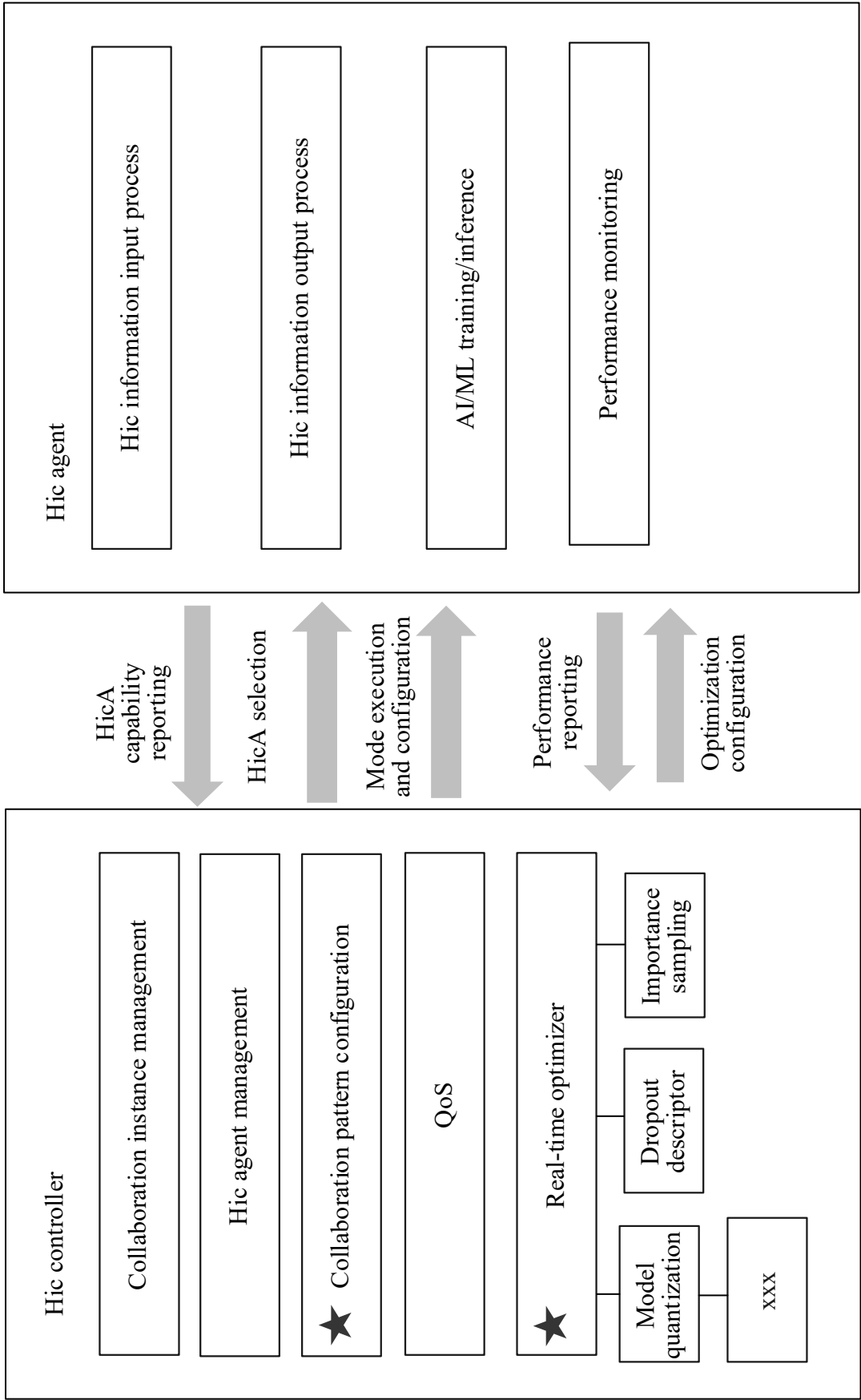


FIG. 145

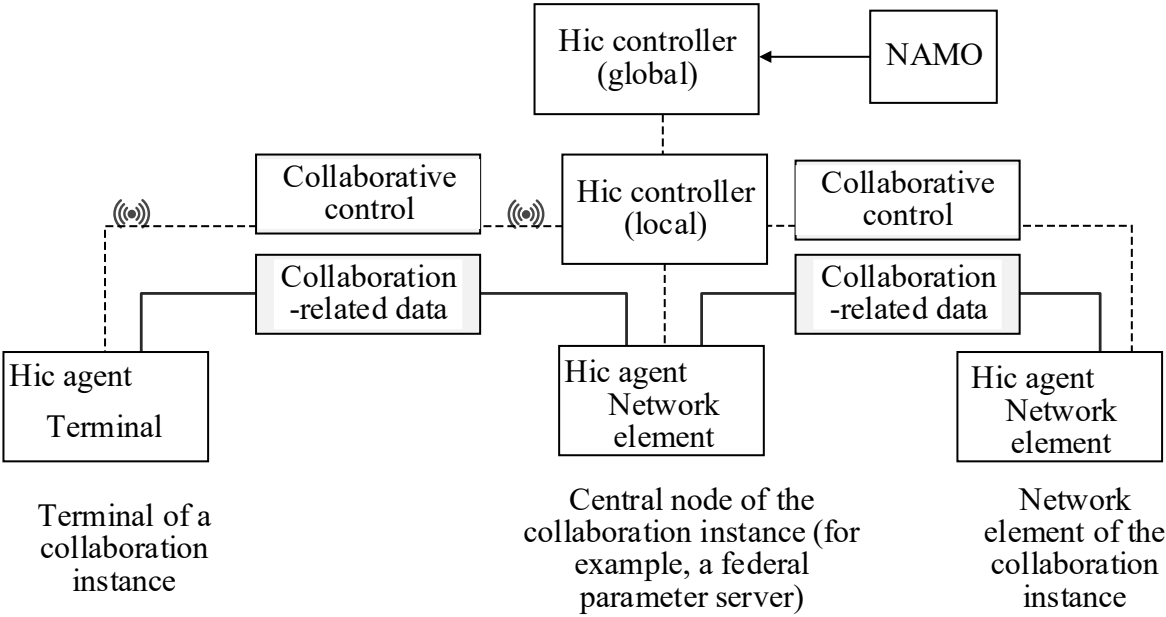


FIG. 146

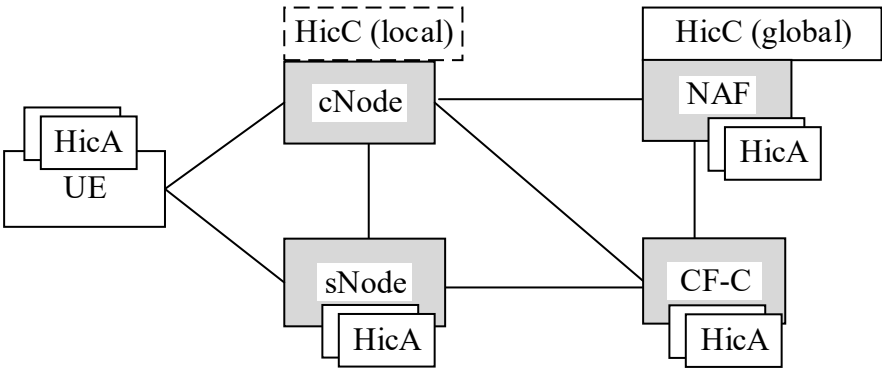
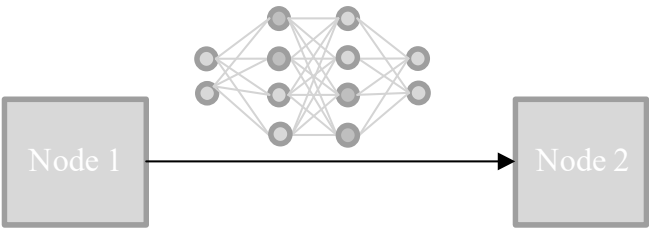


FIG. 147



- Dropout model parameter
- Normal model parameter

FIG. 148

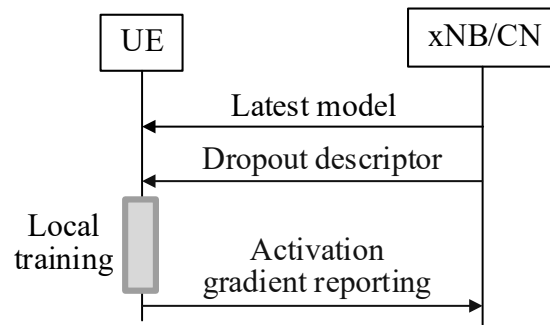


FIG. 149

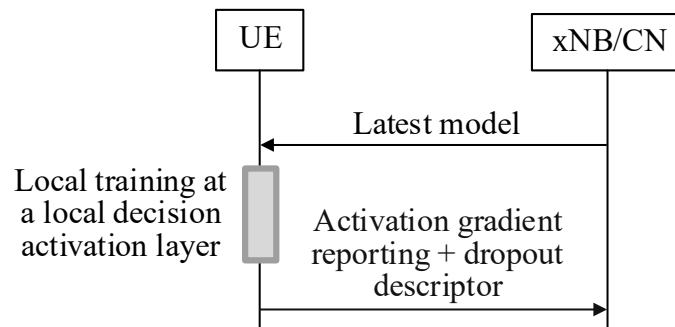


FIG. 150

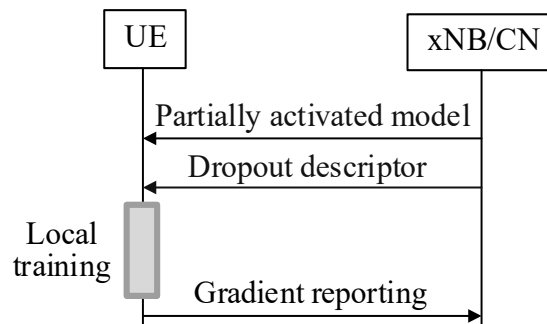


FIG. 151

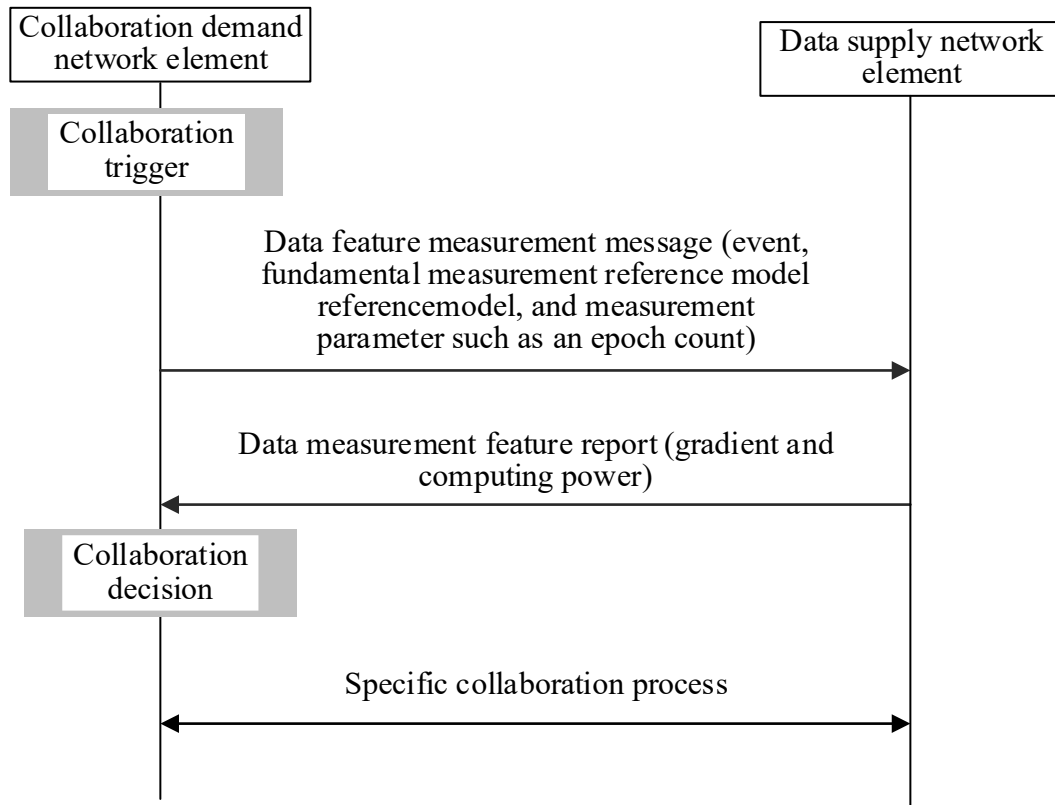


FIG. 152

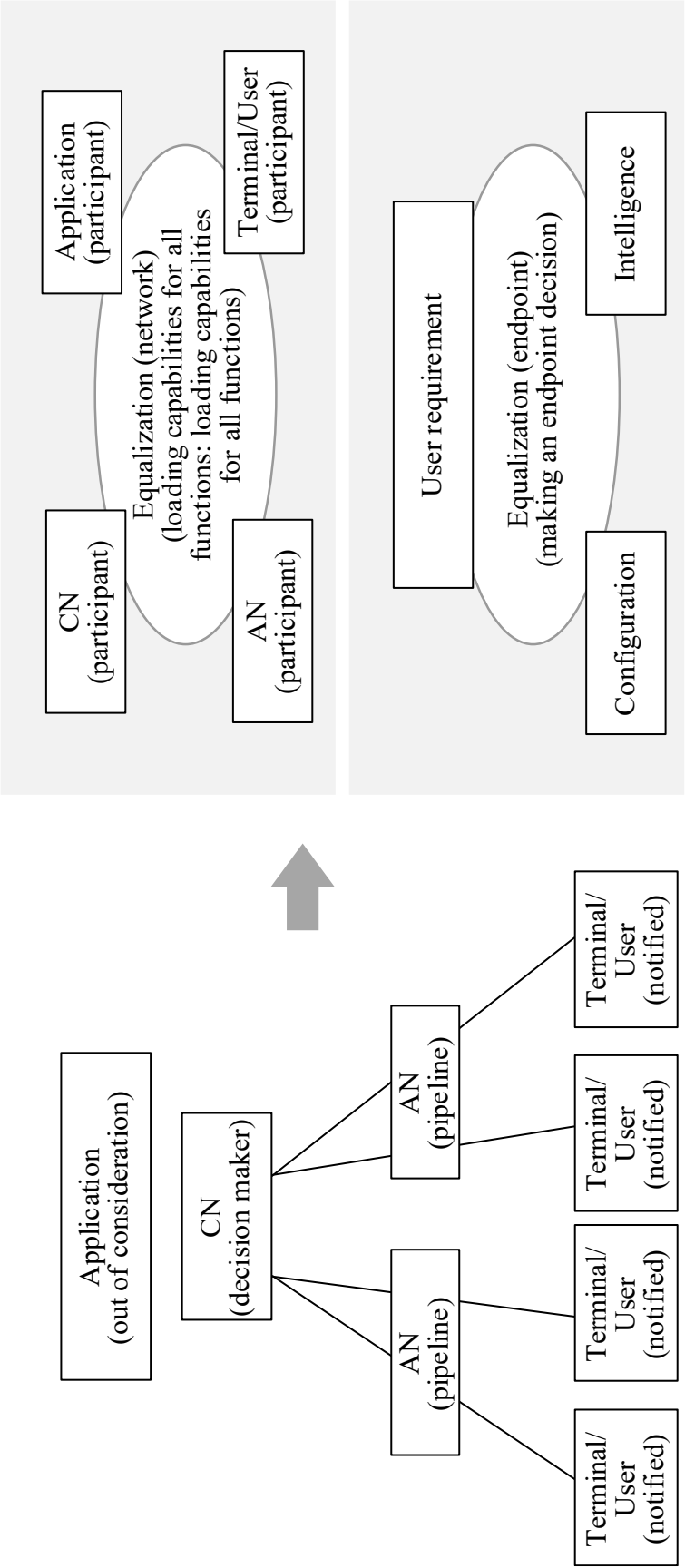


FIG. 153

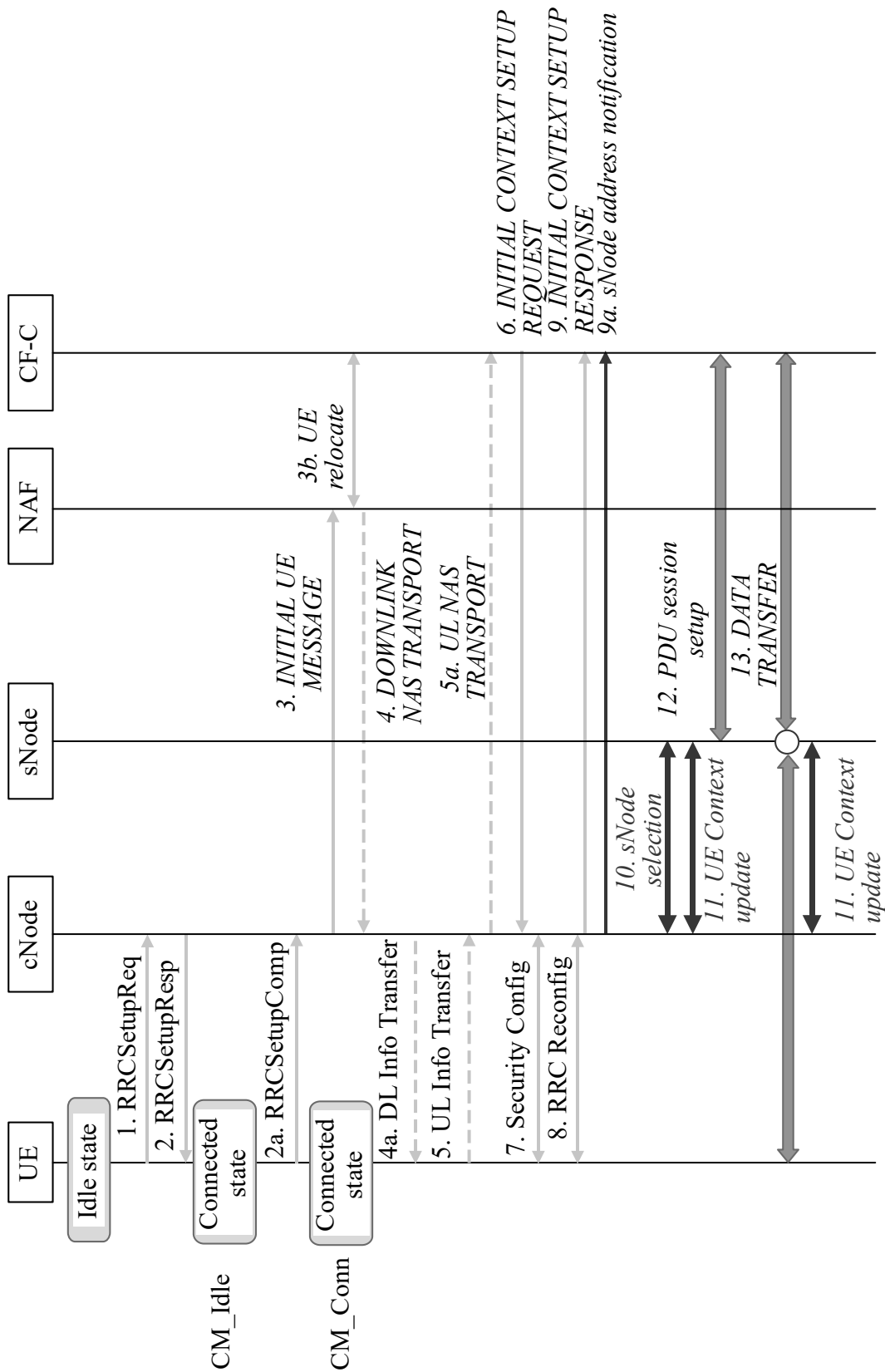


FIG. 154

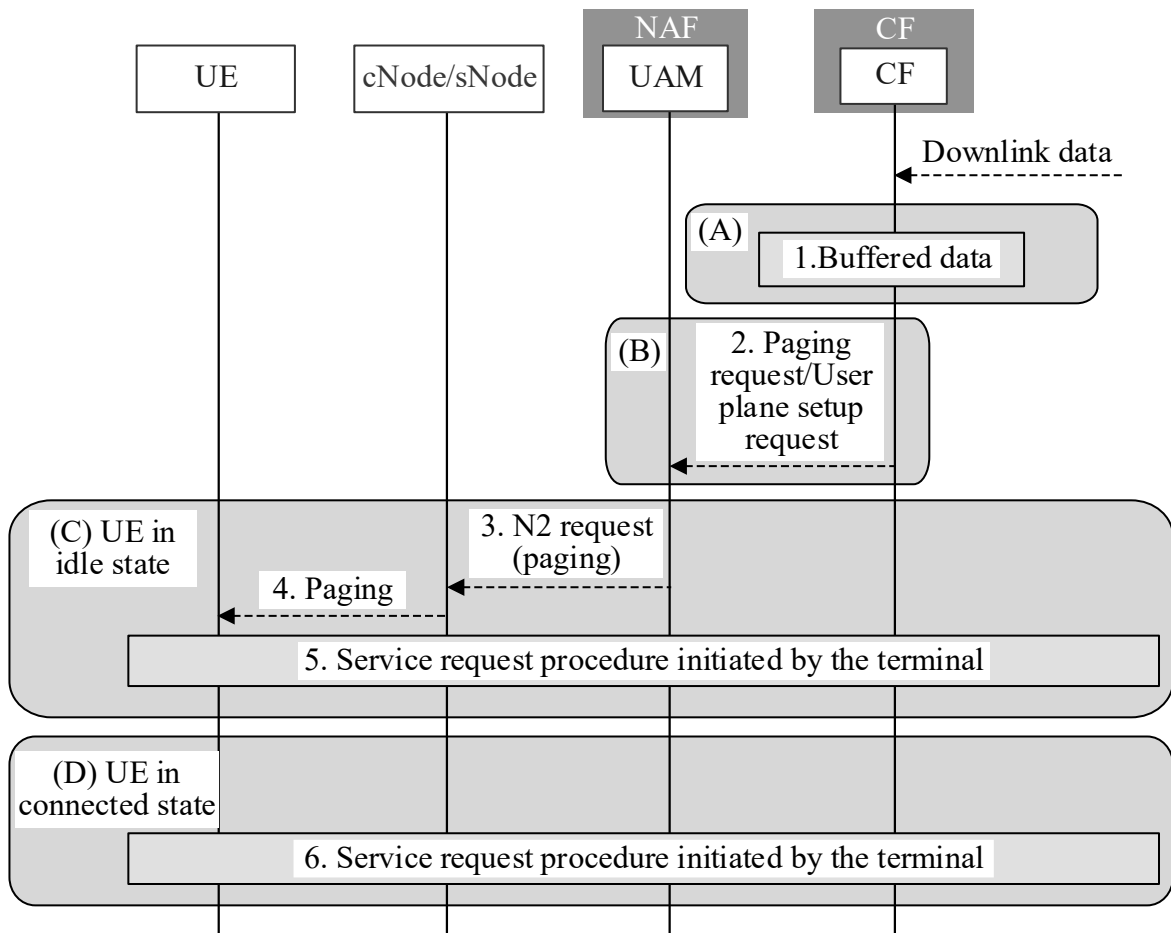


FIG. 155

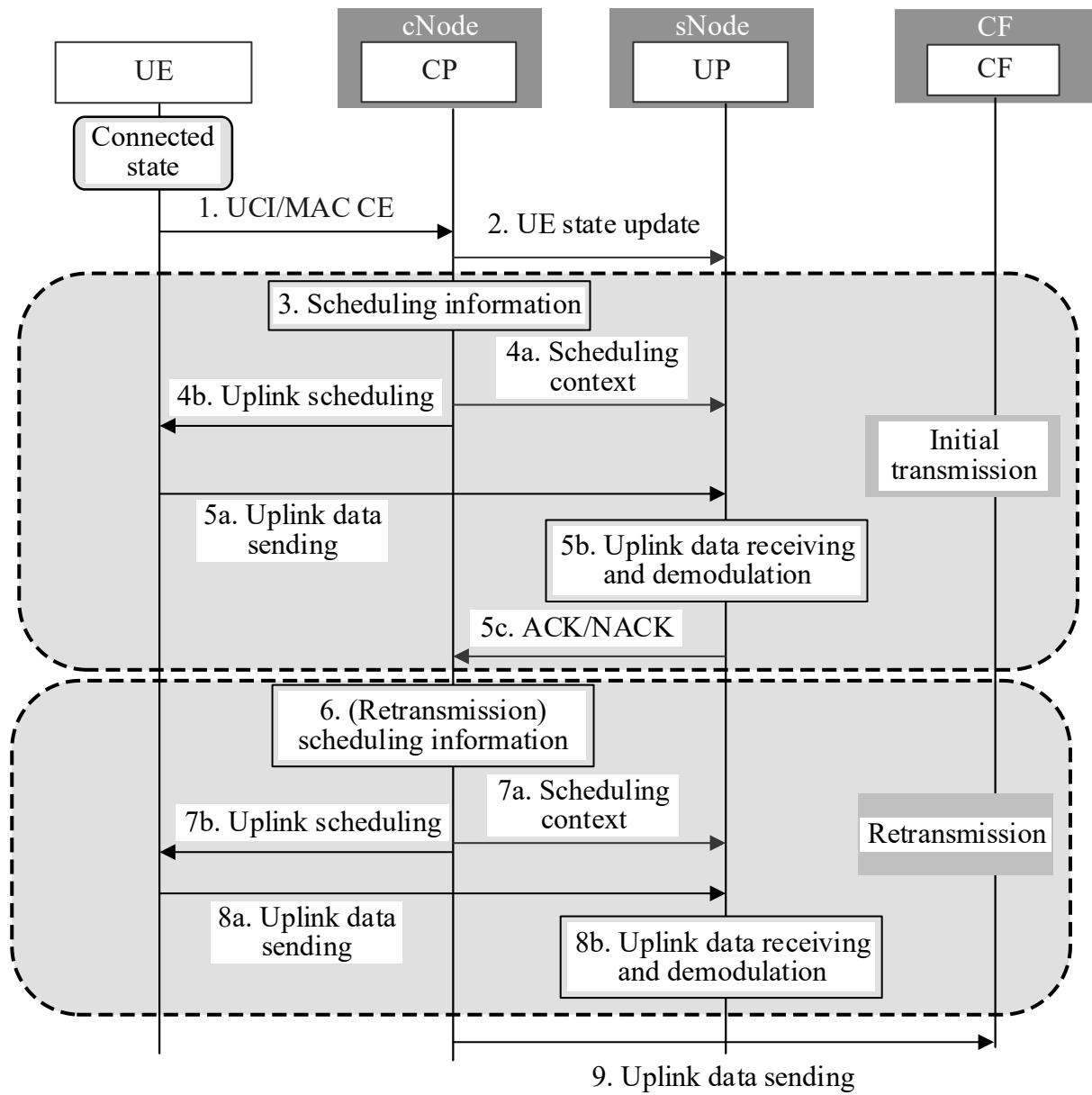


FIG. 156

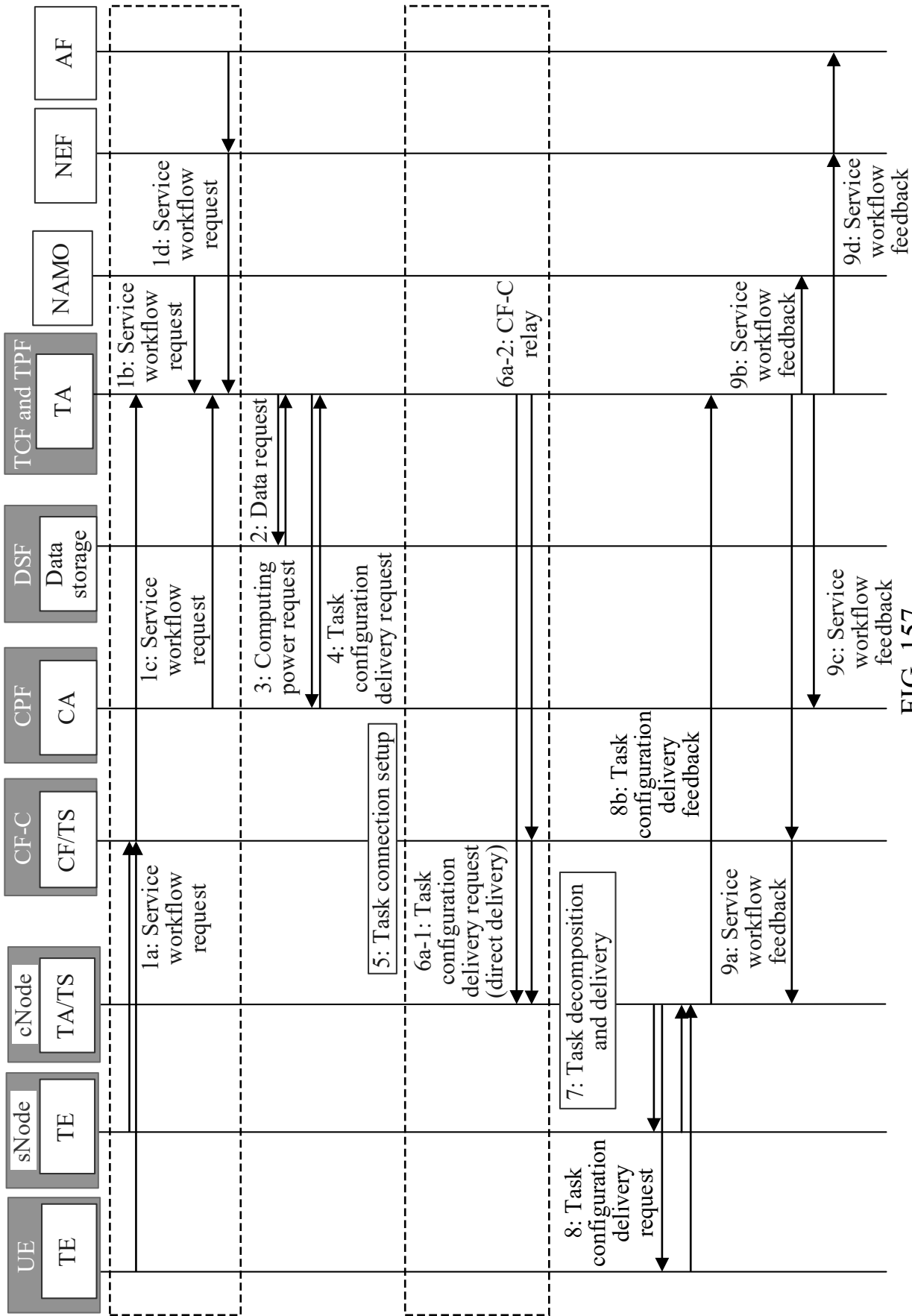


FIG. 157

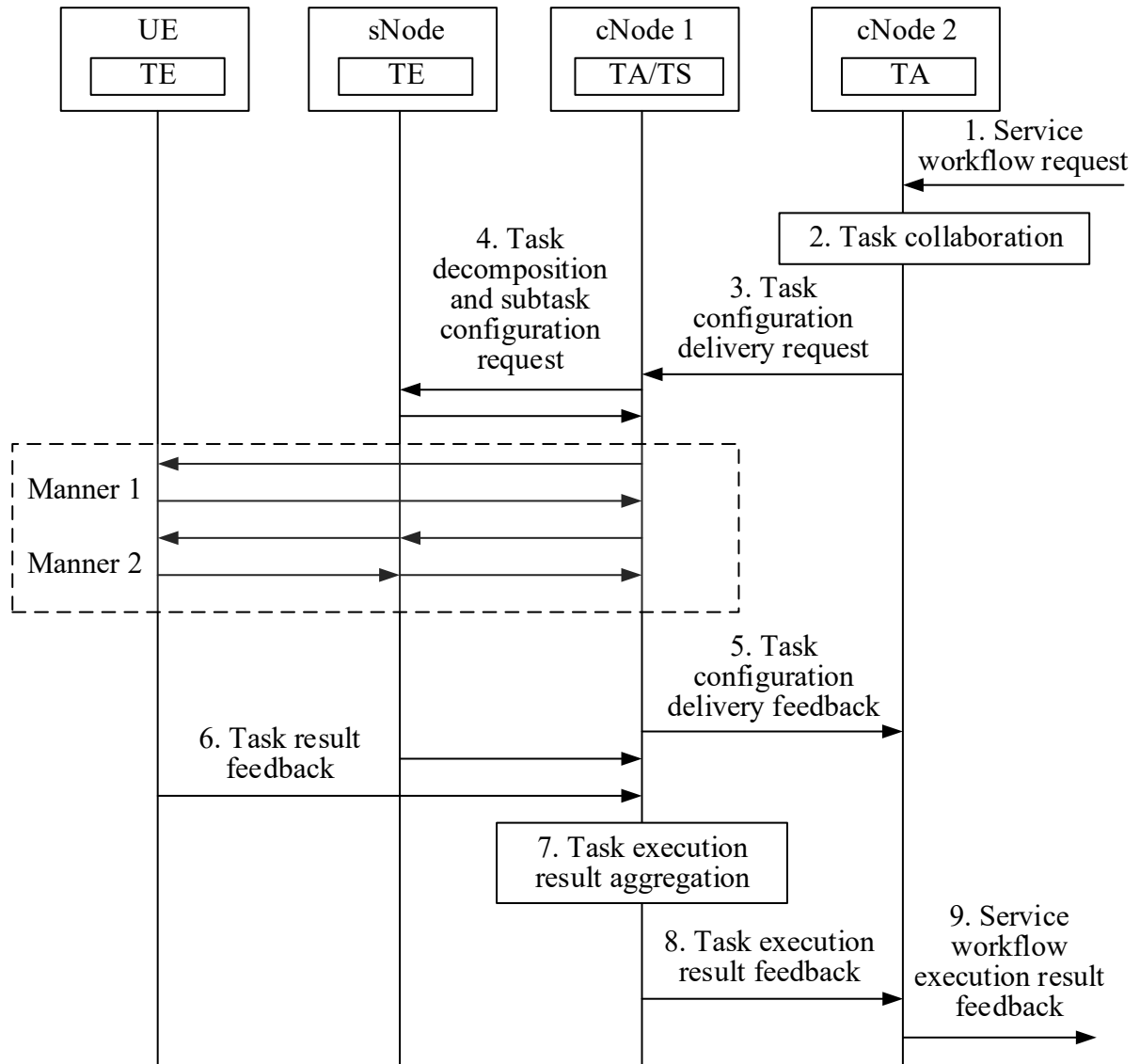


FIG. 158

101/101

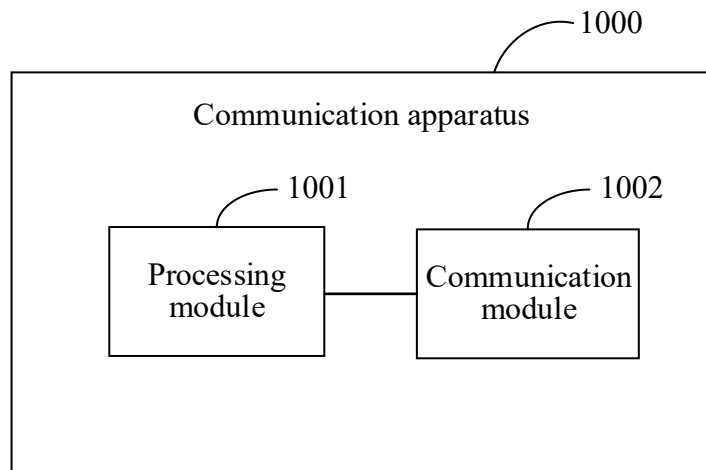


FIG. 159

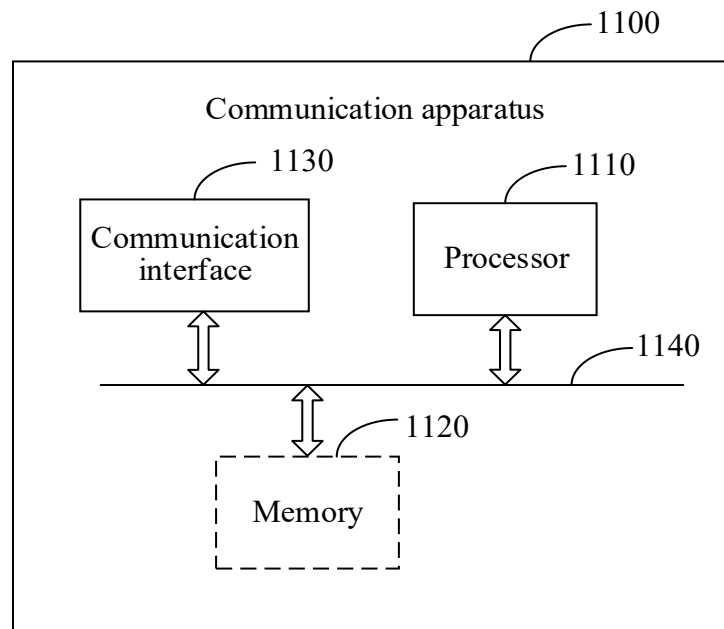


FIG. 160