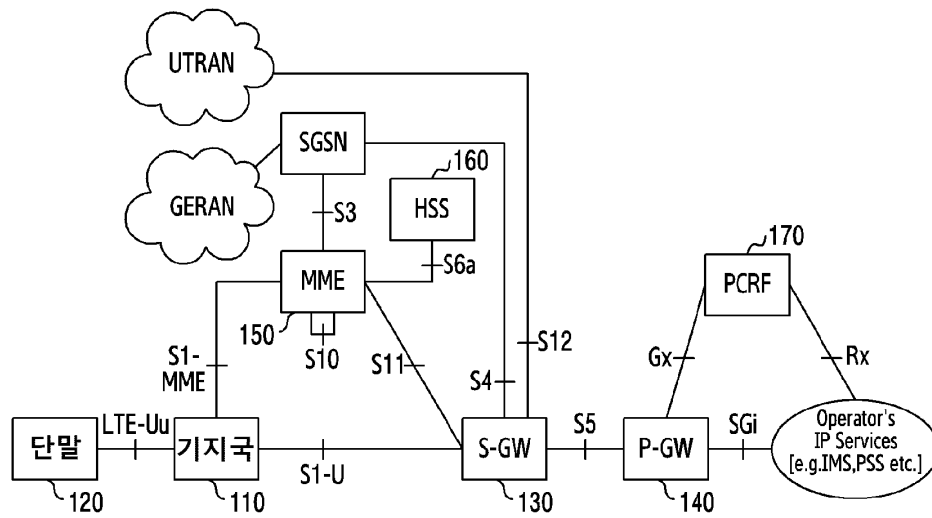
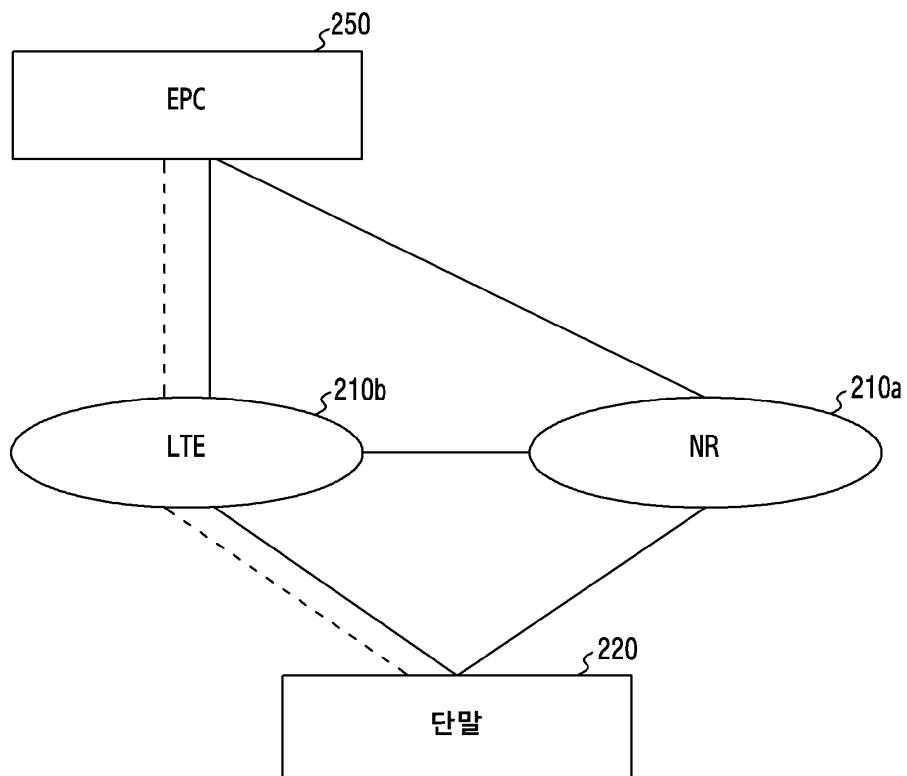


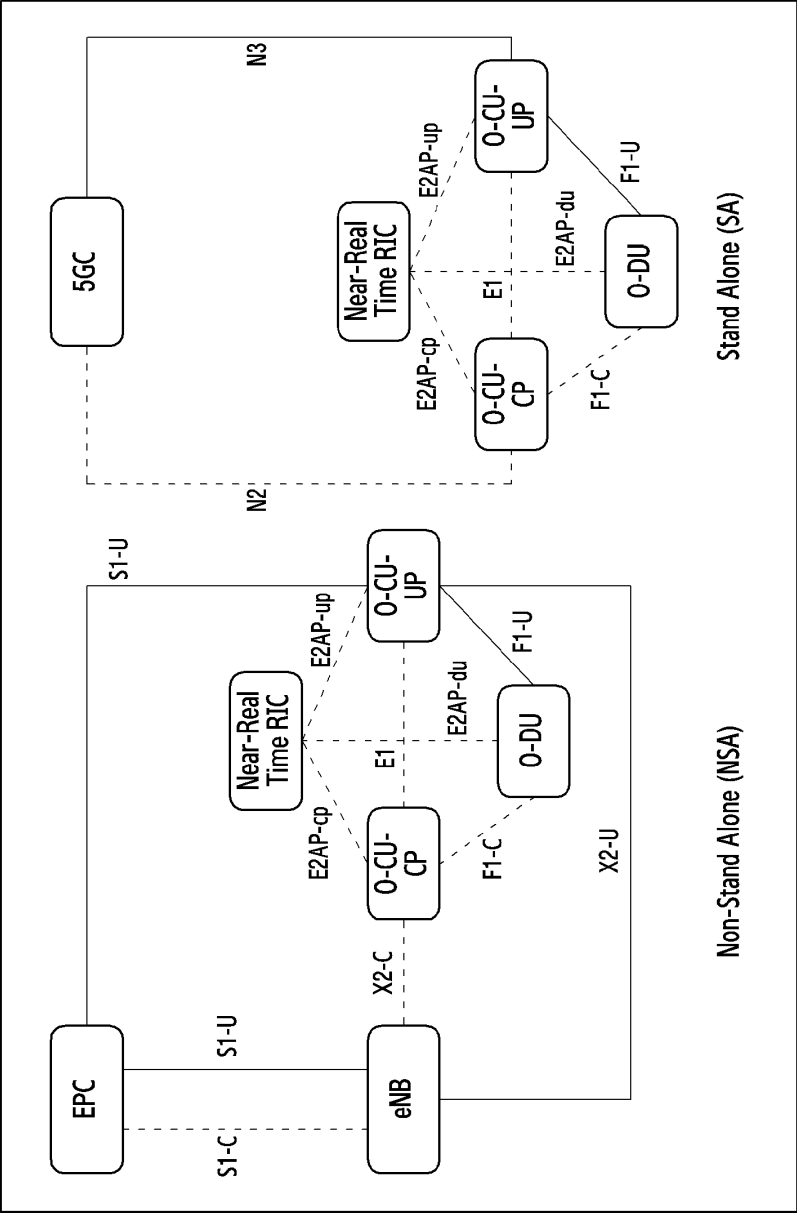
[51]



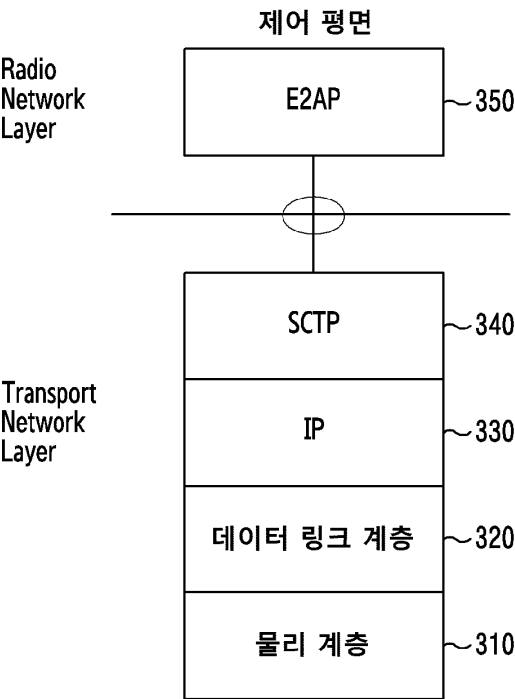
[도2a]



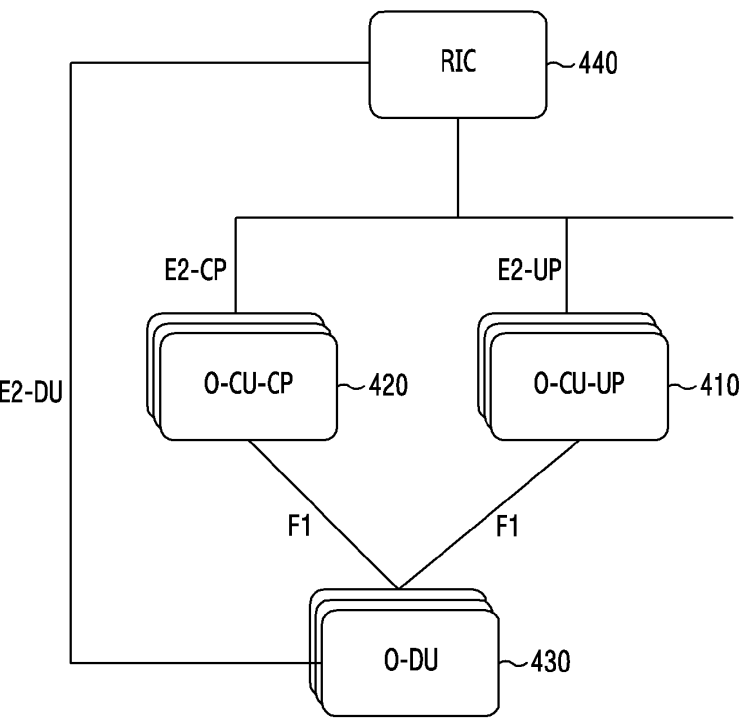
[도2b]



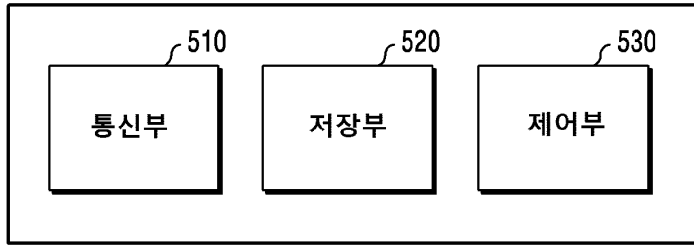
[도3]



[도4]



[도5]



[도6a]

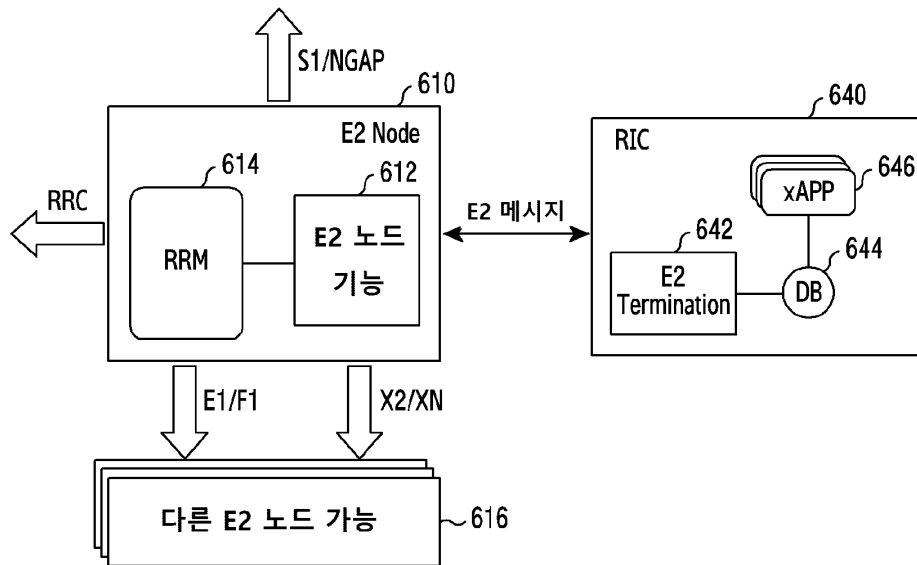
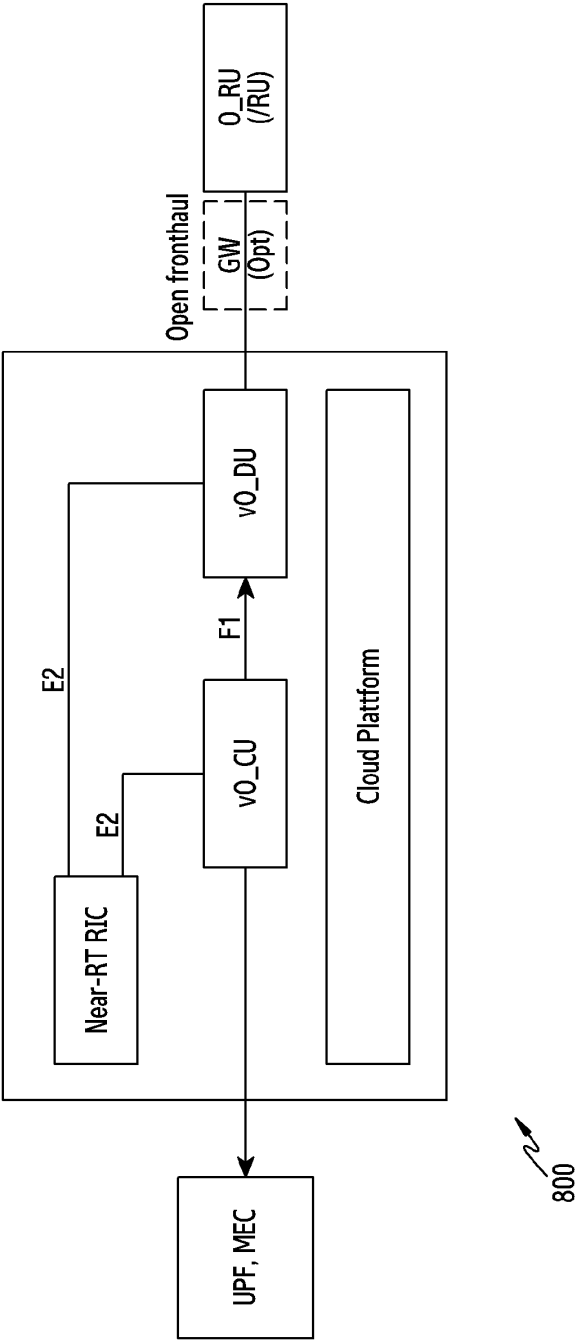


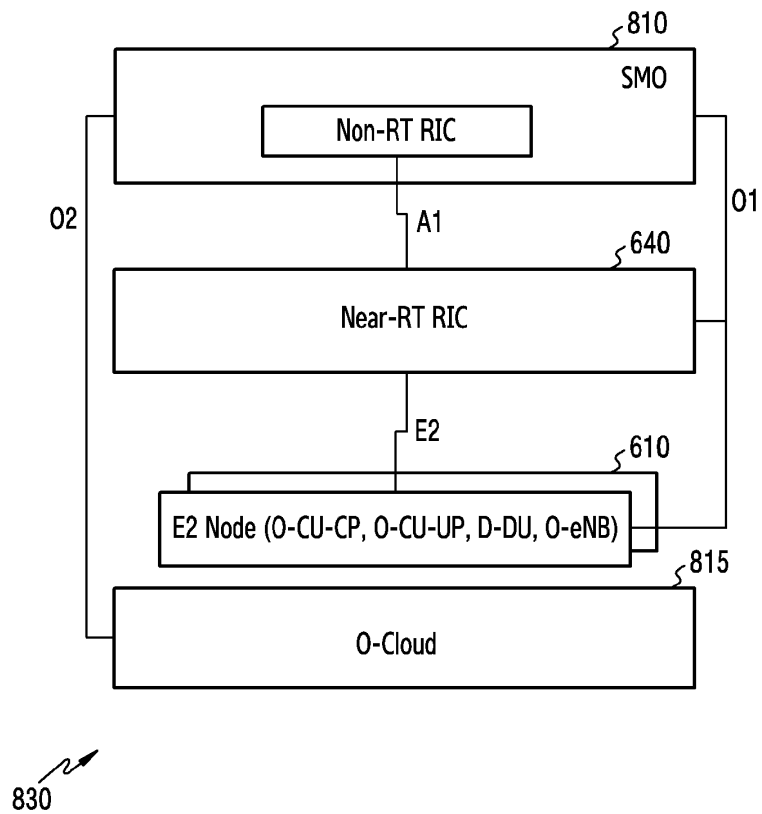
Figure 6 illustrates the architecture of a Near-RT RIC (640) and an E2 Node (610). The Near-RT RIC (640) contains three xAPPs (646), an E2 Termination block (642), and a Database (644). The E2 Node (610) contains an E2 Agent (615), Func (1) (612), Func (N) (612), and Other functions (612). Solid lines represent E2 connections between xAPPs and E2 Termination/Database, and between E2 Termination/Database and E2 Agent. Dashed lines represent E2 connections between xAPPs and Func (1), Func (N), and Other functions.

Diagram 700 illustrates a system architecture. It consists of three main components connected vertically. The top component is a box labeled "ONAP/MANO/NMS". The middle component is a box labeled "Near-RT RIC" with diagonal hatching. The bottom component is a box labeled "CU-stack". A vertical line connects the "ONAP/MANO/NMS" box to the "Near-RT RIC" box, labeled "A1: policy". Another vertical line connects the "Near-RT RIC" box to the "CU-stack" box, labeled "E2: commands".

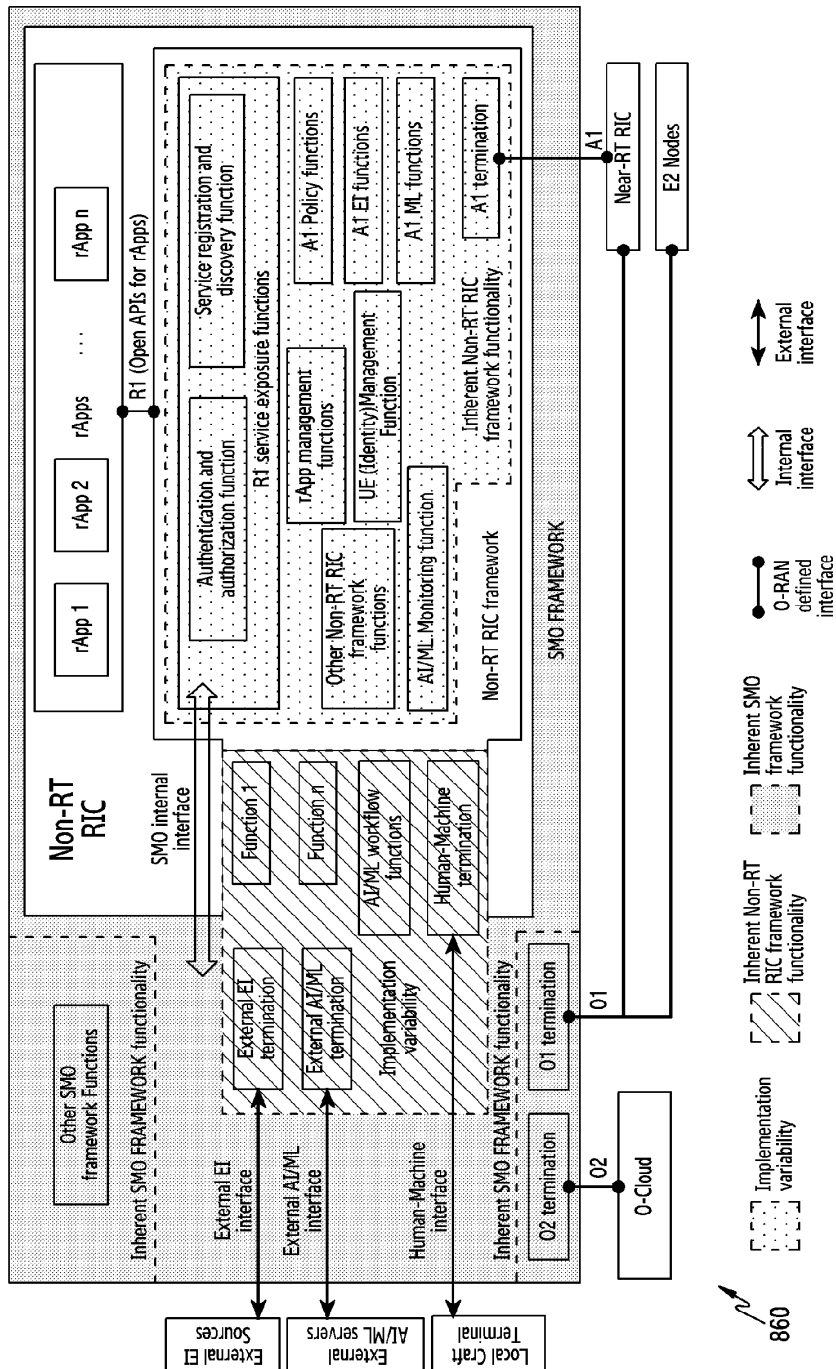
[도8a]



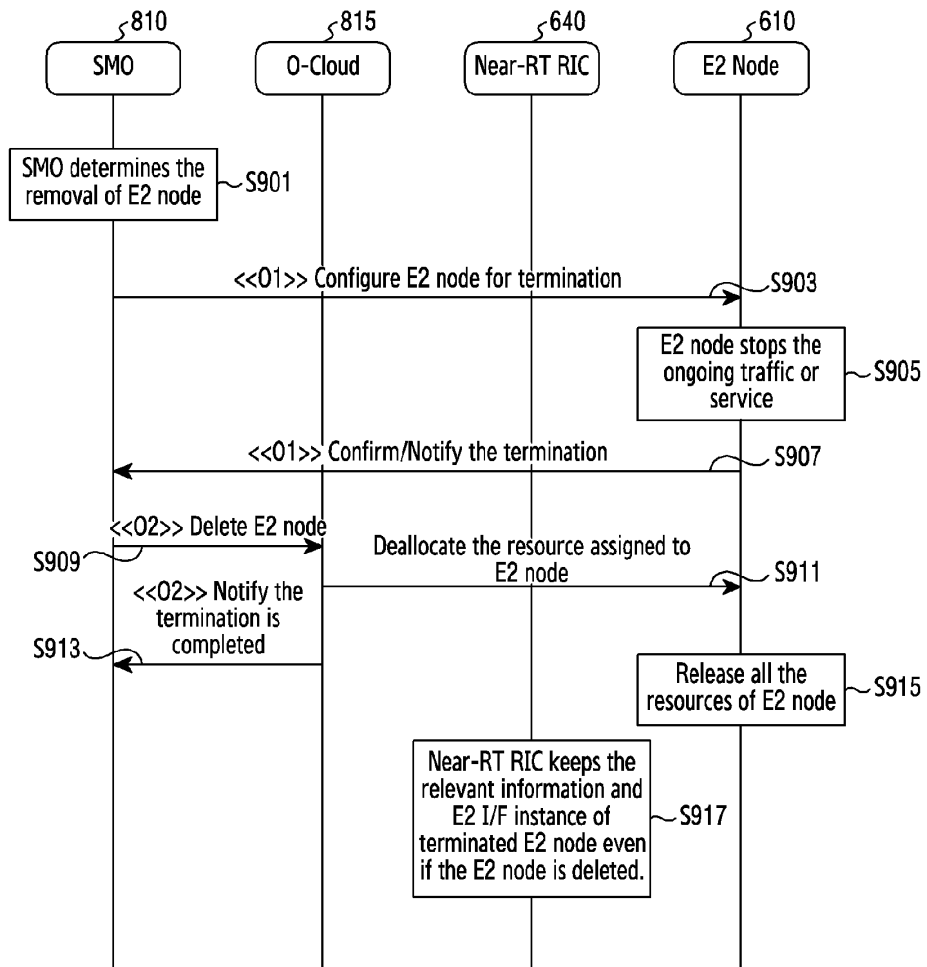
[도 8b]



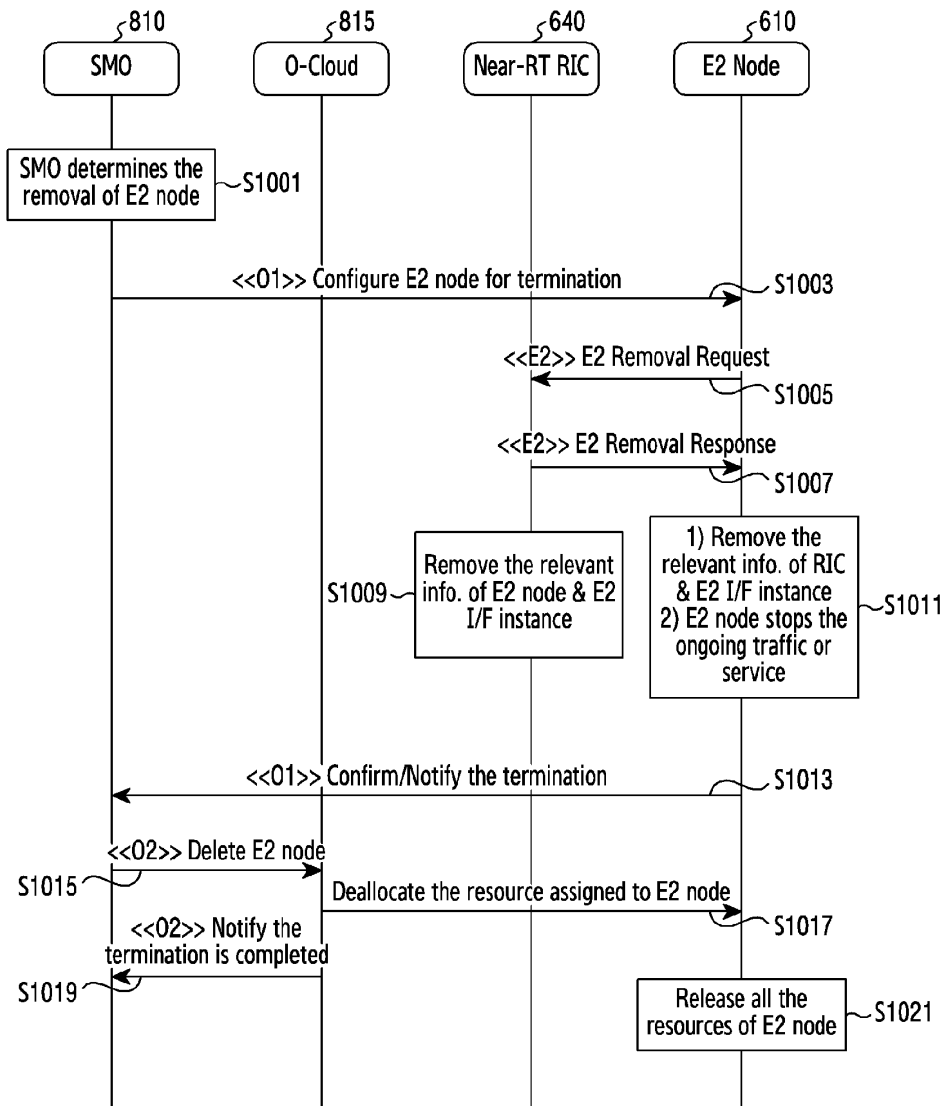
[도8c]



[도9]



[圖 10a]



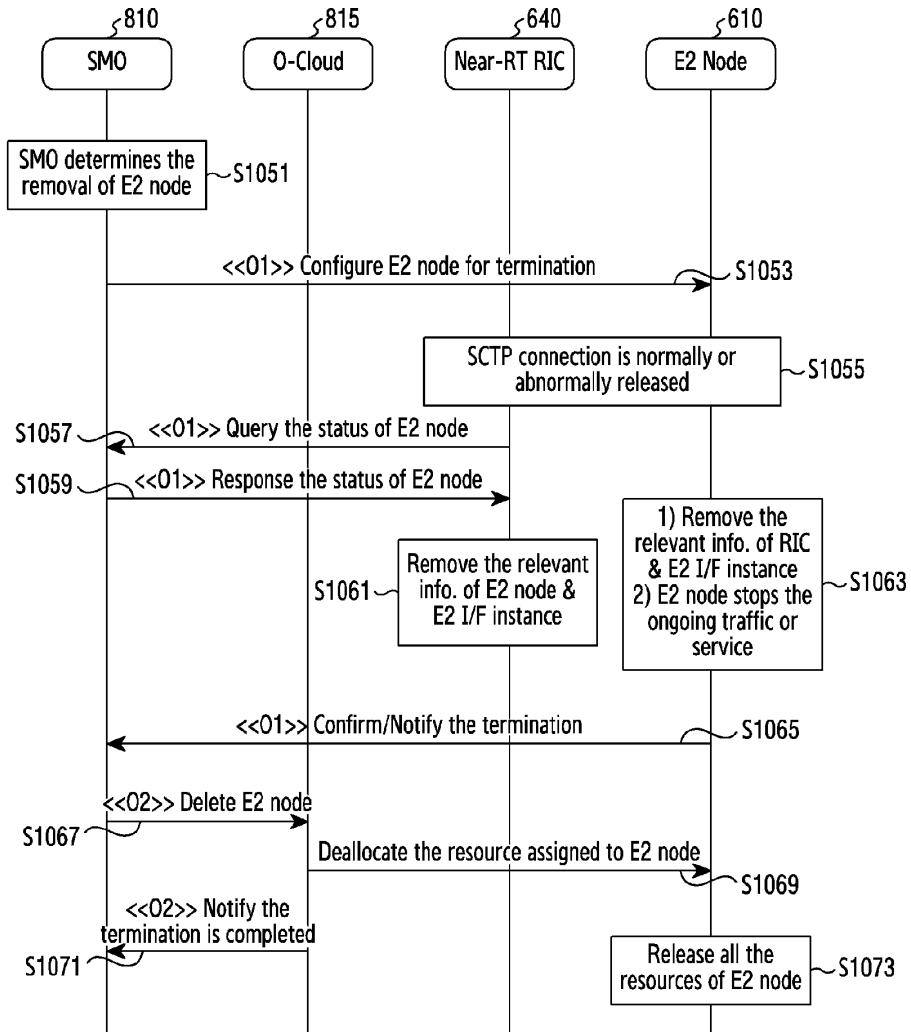
```

sequenceDiagram
    participant SMO as SMO 810
    participant OCloud as O-Cloud 815
    participant NearRT as Near-RT RIC 640
    participant E2Node as E2 Node 610

    SMO->>E2Node: SMO determines the removal of E2 node S1031
    SMO->>E2Node: <<O1>> Configure E2 node for termination S1033
    E2Node->>NearRT: SCTP connection is normally or abnormally released S1035
    Note over NearRT: Release timer S1037
    Note over NearRT: Remove the relevant info. of E2 node & E2 I/F instance S1039
    E2Node->>OCloud: 1) Remove the relevant info. of RIC & E2 I/F instance  
2) E2 node stops the ongoing traffic or service S1039
    OCloud->>SMO: <<O1>> Confirm/Notify the termination S1041
    SMO->>OCloud: <<O2>> Delete E2 node S1043
    OCloud->>E2Node: Deallocate the resource assigned to E2 node S1045
    E2Node->>SMO: <<O2>> Notify the termination is completed S1047
    Note over E2Node: Release all the resources of E2 node S1049
    
```

Sequence diagram 800 illustrates the E2 node termination process between SMO (810), O-Cloud (815), Near-RT RIC (640), and E2 Node (610). The process begins with SMO determining the removal of E2 node (S1031). SMO then sends a configuration message to E2 Node (S1033). E2 Node releases the SCTP connection (S1035). Near-RT RIC releases the timer (S1037) and removes relevant info. (S1039). E2 Node removes relevant info. and stops ongoing traffic (S1039). O-Cloud confirms/notify the termination (S1041). SMO deletes E2 node (S1043). O-Cloud deallocates the resource assigned to E2 node (S1045). E2 Node notifies the termination is completed (S1047). E2 Node releases all the resources (S1049).

[도 10c]



[도 10d]

