

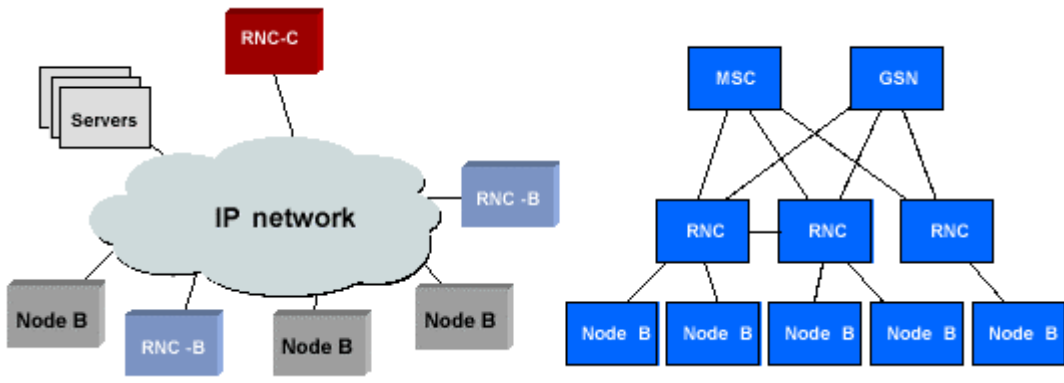
[ ]

IP

IP . RAN(Radio Access Network; )  
 IP IP  
 IP 가 가 ,  
 IP  
 RAN All IP IP RAN

IP  
IP

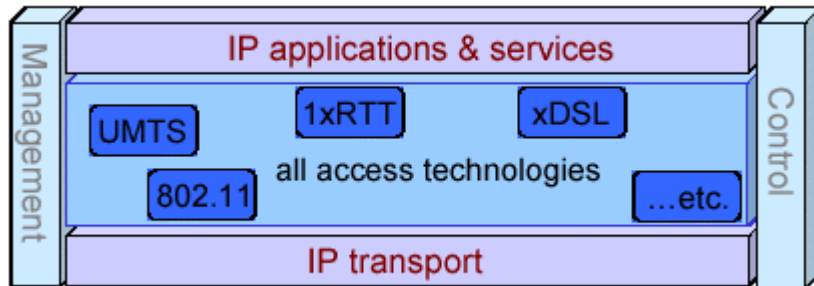
- :  
 - : ATM , ,  
 ATM , QoS  
 가 IETF QoS  
 IP  
 가 ,  
 가



1. (Distributed) vs. (Hierarchical)

- IP : RAN 1  
 IP 가  
 RRM (Radio Resource Management)  
 Bearer RNC (Radio Network Controller, )  
 ,  
 Node B( ) . RNC

Node B  
가 가



2. (Unified Architecture)

- : IP (transport)  
(transport plane), (user plane), (control plane),  
(management plane) 가 , 2

- : Plug-and-Play 가 , IP

IP Layer( ) 3 IP RAN  
가

IP RAN

3G RAN IP IP  
RAN (3GPP 3GPP2)

, IP (transport) Work Item(TR 25.933) Release 5  
(2002 3 ) 가 , RAN (Radio  
Network Signalling) R99 NBAP(Node B Application Part), RNSAP(Radio Network  
Subsystem Application Part), RANAP(Radio Access Network Application part)

Transport IP

IP RAN

- All IP

- 가

- /

- 가

- / 가

- , VoIP IP

, TSG-A 가 . ,

3GPP, PP2 MWIF (Mobile Wireless Internet Forum) All

IP OPEN RAN (Open RAN

Network Reference Model)

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