

[] NGN IP Identifier locator (ID/LOC separation)

ID/LOC

IETF Future Internet 가
 , 1970 IP 가 가

IP 가 (aggregation)
 (Default route free zone)

가 가 IP 가 Identifier locator

Identifier and Locator Separation(ID/LOC separation)

ID/LOC 2가 , IETF
 가

Internet ITU-T 가 , IETF
 ID/LOC separation

ID/LOC

IETF 1990 RFC 1287
 “Towards the Future Internet Architecture” CIDR(Classless Inter-domain
 Routing protocol) scalability, transparency,
 multihoming, renumbering, provider independence, traffic engineering, IPv6

가 , 2006 IAB(Internet Architecture Board)
 “Routing and Addressing Workshop”

RFC 4984 “ Report from the IAB
 workshop on Routing and Addressing” , 2007 3 68 IETF
 가

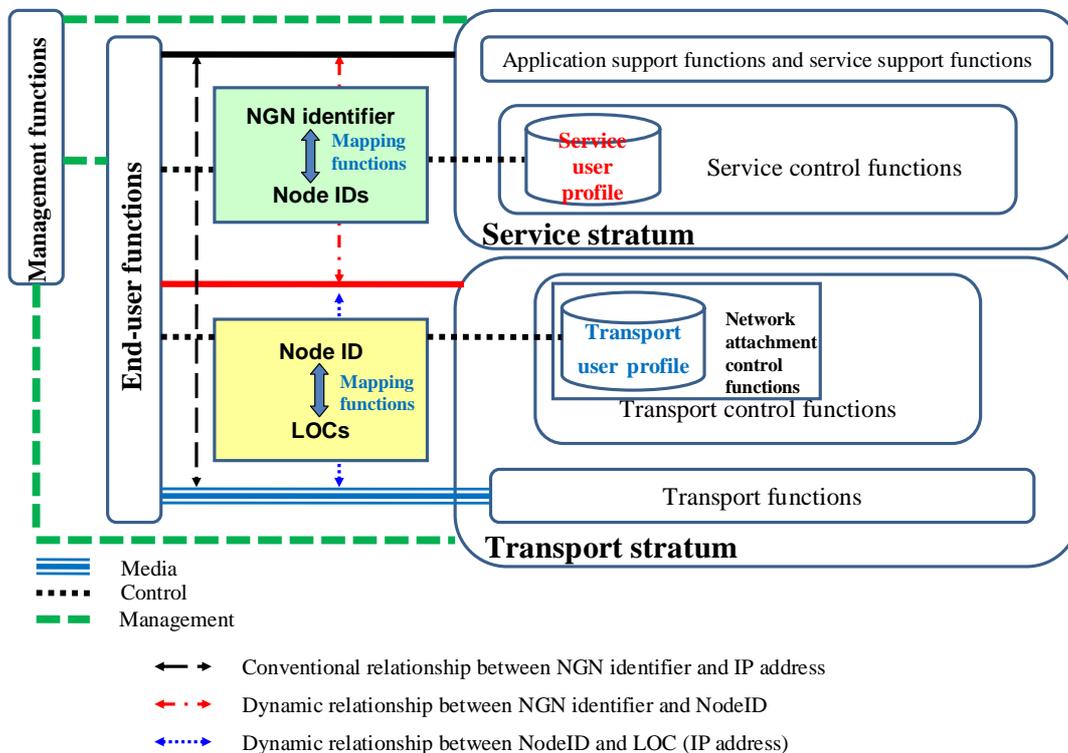
Internet Area Routing Area가 ROAP(ROuting and Addressing Problem) BoF(Birds
 of a Feather) ID/LOC

IRTF(Internet Research Task Force) RRG(Routing Research

Group) , ID/LOC 가 .
 ID/LOC LISP(Locator Identifier Separation Protocol) , mapping and encapsulate
 ID/LOC host HIP(Host Identity Protocol) SHIM6(Site-Multihoming by IPv6 Intermediation) ,
 packet .

NGN ID/LOC

ITU-T Study Group 13(SG13) Next Generation Network(NGN)
 , NGN PSTN circuit
 packet , IP 가 .
 SG13 Question 3(Q.3) NGN
 , 2006 IETF ROAP IP Identifier locator (ID/LOC)
) NGN Y.ipsplit (Separation of IP into Identifier and locator in
 NGN)
 2006 ETRI SNU NGN IP identifier locator
 가 , identifier
 Node ID , locator IP 가 NGN
 FRA(Functional Requirement and Architecture of NGN) IP 가 service
 stratum identifier NGN identifier Node ID
 , locator IP Node ID
 dynamic 가 . 2008
 9 Y.2015 (General Requirements for ID/locator separation in NGN)
 (consent) .



< 1> NGN ID/LOC
 (: ITU-T Y.2015, "General Requirements for ID/locator separation in NGN")

Y.2015 NGN ID/LOC
 , NGN FRA
 , FRA IETF LISP NGN ID/LOC
 Q.3 , , ,
 4 , Y.FAid-loc-split (Functional Architecture of
 id-loc-split in NGN) 가 2009 .
 IPv6 NGN Q.9 Y.2015 NGN IPv6
 ID/LOC Y.ipv6split (Framework of ID/LOC separation in IPv6-based
 NGN)

Y.FAid-loc-split Y.ipv6split .

· Y.FAid-loc-split (Functional Architecture of id-loc-split in NGN) at Q.3/13

2008 9 SG13 Q.3 , SNU, ETRI,
 Huawei, NICT, France Telecom 6 editor
 Y.2015 NGN FRA

ID/LOC functional architecture functional entity
FRA release 2

· Y.ipv6split (Framework of ID/LOC separation in IPv6-based NGN) at Q.9/13

Y.2015 IPv6 NGN ID/LOC
2008 9 SG13 Q.9 Q.3
Y.FAid-loc-split IPv6 deployment

ID/LOC

1960 circuit packet

가

, traffic engineering, policy routing, mobility,
IETF

, 가 . 가

가

ITU-T SG13 NGN NGN IP

SG13 Q.3 Q.9 가 ,
가 .

(, twyou@mmlab.snu.ac.kr)