

[] IPv6

(Multi-Homing) ?

100%

가 , 100%
ISP(Internet Service Provider)
(load sharing),

?

Global IPv4

PI(Protocol Independent)

PA(Protocol Aggregatable)

PI

ISP

PA

ISP

PI

PA

가

ISP

가

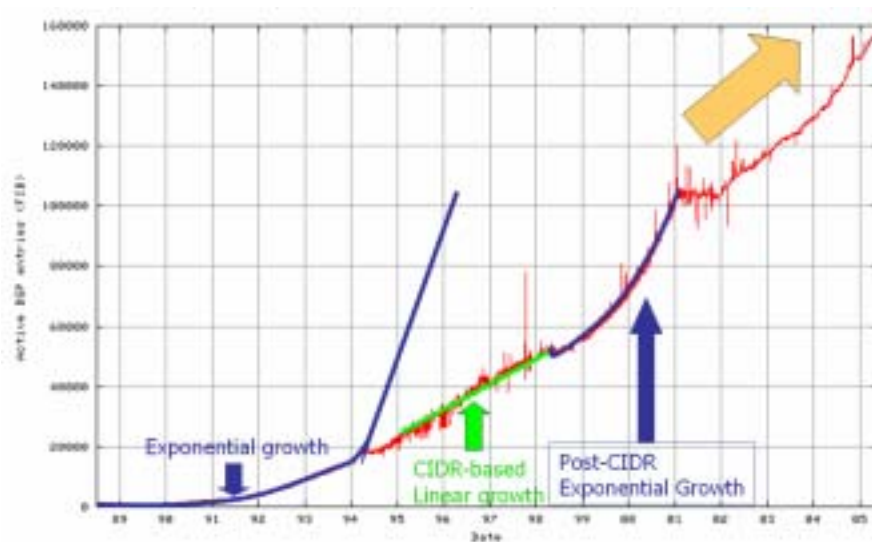
< 1>

Global

가

< 1> BGP

가



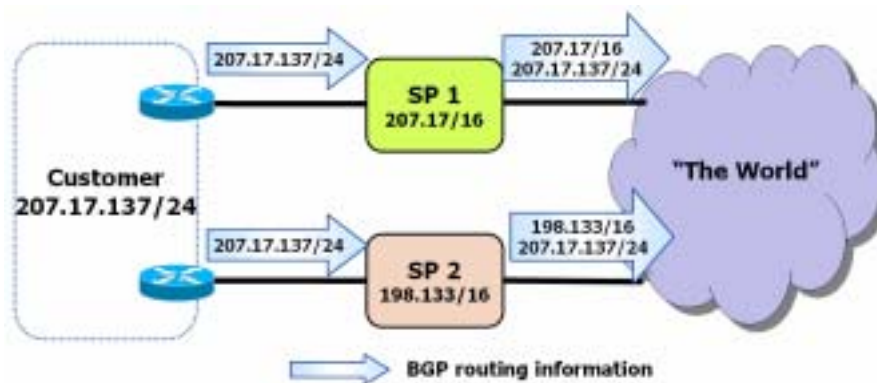
< 1> Active BGP entries (FIB) [BGP data obtained from AS4637]

- 88 94 C class(24 prefix 가) 가
- IETF(Internet Engineering Task Force) CIDR(Classless Interdomain

- Routing)
 - 98 가 가
 - CIDR 가
 - BGP 가
 - 가
 - 98 가
 - 가

- IPv4

- IPv4 BGP (Border Gateway Protocol)
- BGP AS (Autonomous System) Number가
- Inter-domain 가 <
- 2> BGP IPv4



- < 2> BGP
- 1. ISP1 IP (207.17.137/24) BGP
- 2. ISP2 IP

BGP

- DFZ(Default Route Free zone) BGP
- IETF BGP
- RFC 2260(Scalable Support for Multi-homed Multi-provider Connectivity)
- ISP 가
- (Auto-route injection).

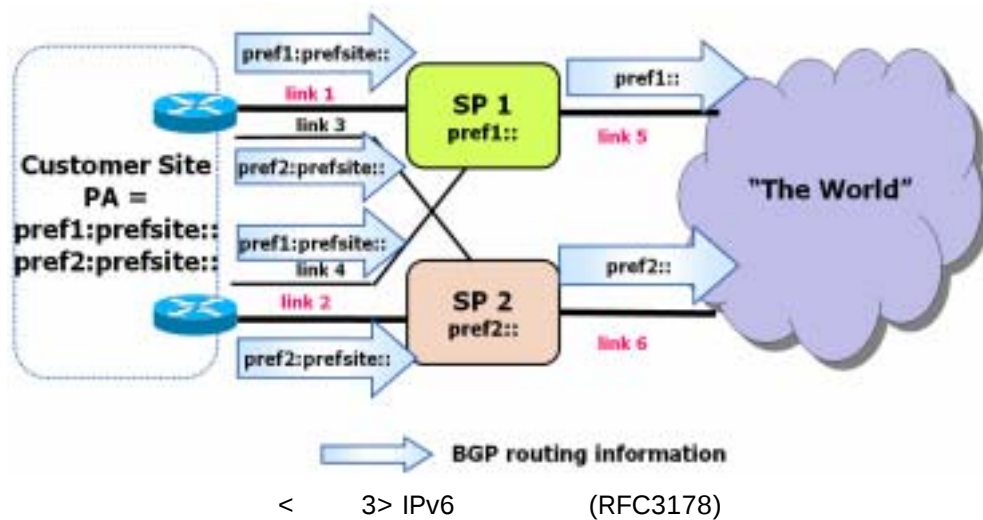
- IPv6

IPv6 가 가 IP 가 , IP
ISP , IPv6 IPv4

IPv6 가 6Bone(IPv6 Backbone Network) IETF
RFC 2772(6Bone Backbone Routing Guidelines) IPv4

1. ISP ISP IP
2. IP ISP

가 IPv6
IPv4 RFC 2260 IPv6 RFC 3178(IPv6
Multihoming Support at Site Exit Routers) < 3>
ISP (link3, 4) ISP , ISP



IPv6

IPv6 IPv4 Redundancy, Load-sharing, Policy

IETF Multi6(Site Multihoming in IPv6) 가
, Mobile IP binding ,
IPv6 Route Renumbering , Transport

가 SCTP(Stream Control Transmission Protocol)
 . Multi6 IP 가
 (who) (where) ID/Locator
 . HIP(Host Identity Protocol) ID/Locator ,
 가 Layer 3
 Shim(L3Shim) . Multi6
 Shim6(Site Multihoming by IPv6 Intermediation)
 , IETF standard track
 .
IPv6
 IETF IPv6
 . 가
 .
 LAN LAN ,
 CDMA GSM, WCDMA CDMA2000
 .
 . 가 가
 .
 (, twyou@etri.re.kr)