

KRNIC Update



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Soojin Yoon



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[Statistics] KRNIC Members

■ Composed of ISPs, Independent IP users & ASN users

< IP members >

	2017	2018	2019
ISPs	94	96	96 (-)
Independent IP Users	168	175	185 (+10)
Total	262	271	281 (+10)

< AS members >

	2017	2018	2019
ASN Users	684	680	697 (+17)

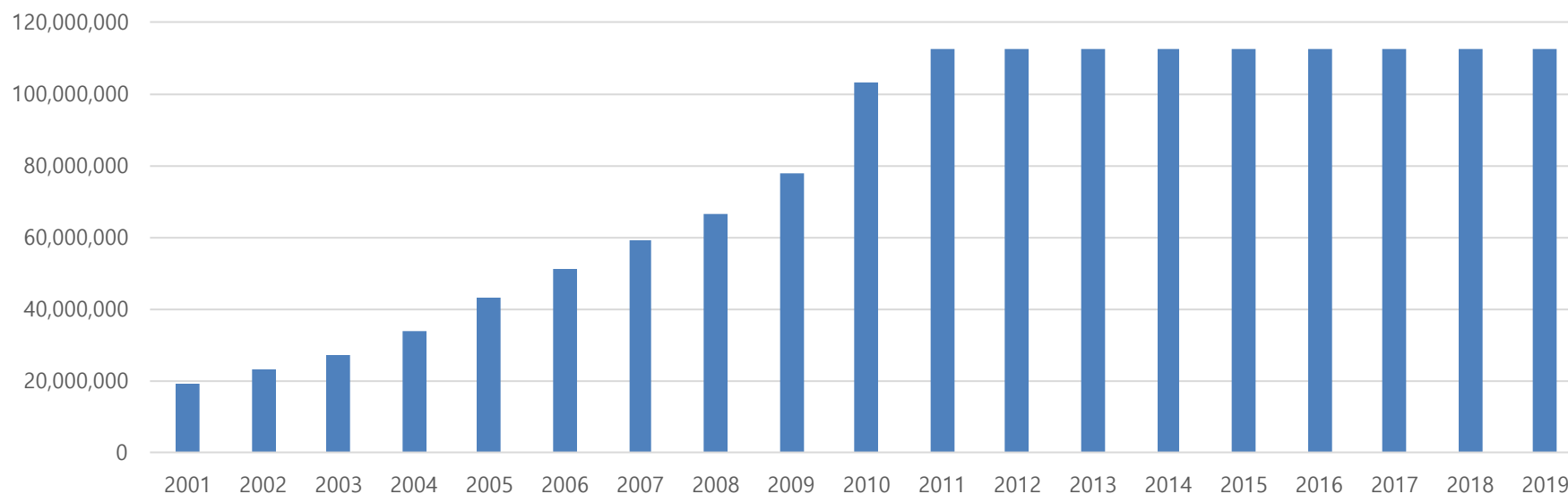
* Users Allocated only ASN(2019) : 434

[Statistics] IPv4

■ As of 2019, KRNIC holds 112,407,269 of IPv4

– 10,240 IPs(IPv4) allocated from APNIC in 2019

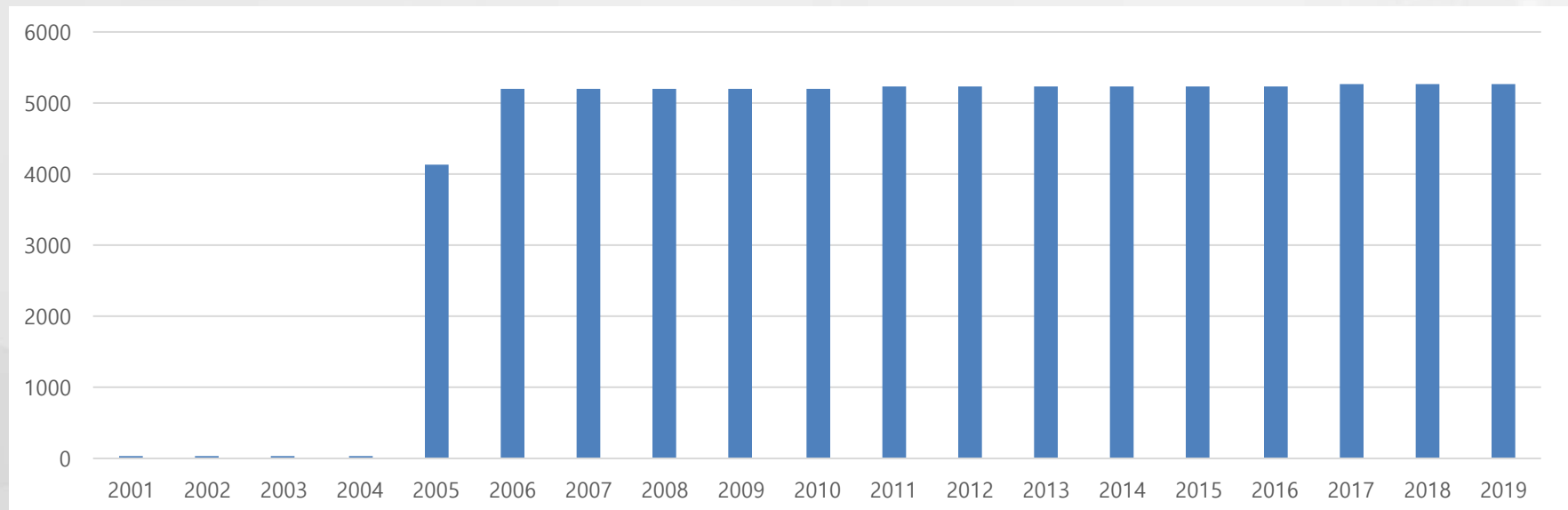
	2017	2018	2019
IPv4	112,385,536	112,397,056	112,407,296(+10,240)



[Statistics] IPv6

- As of 2019, KRNIC holds 5,254(/32) of IPv6
 - 1(/32) block(IPv6) allocated from APNIC in 2019

	2017	2018	2019
IPv6(/32)	5,252	5,253 (+1)	5,254 (+1)



■ Current status of IPv6 members

- 72 out of 271 domestic IP members allocated IPv6 addresses

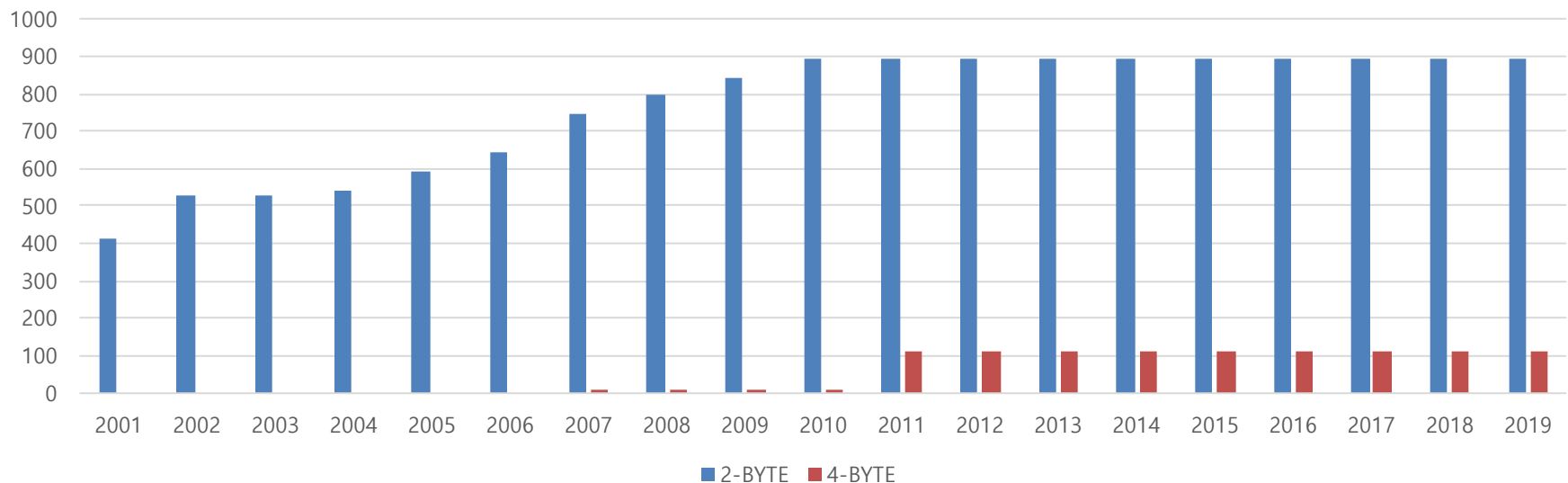
	2017	2018	2019
ISPs	94 (57)	96 (57)	96(57)
Independent IP Users	168 (13)	175 (14)	175(15)
Total	262 (70)	271 (71)	271(72)

[Statistics] ASN

As of 2019, KRNIC holds 1,005 ASNs

- 2-byte ASNs : 895(831 assigned), 4-byte ASNs : 110(assigned)

	2017	2018	2019
2-byte ASN	895 (809)	895 (805)	895 (831)
4-byte ASN	110 (-)	110 (4)	110 (4)





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[Activities]

- Synchronizing WHOIS information between APNIC and KISA**
 - KRNIC is regularly querying the APNIC WHOIS information for IP blocks allocated to KRNIC.
 - The WHOIS information on IP blocks which do not match between APNIC and KRNIC is updated monthly from 2017

- Launching trial RDAP service**
 - KRNIC completed developing RDAP service and tested trial RDAP service
 - Open RDAP service(4th quarter of 2020)

[Activities]

- **Government-Enterprise cooperation project(IPv6 based cloud service)**
 - Joint investment to discover IPv6 based commercial service cases
 - The First commercial IPv6 Cloud Service is launched in KOREA
 - 2019 is last year of this project
- IPv6 Commercial Services have opened

Service	Corporation	Details
IPv6 internet	SK Broadband, KINX	IPv6 BGP Peering, IPv6 Transit
IPv6 Certificate, Test and IPv6 Logo	TTA (Telecommunication Technology Association)	IPv6 Ready Logo, TTA Verified Certificate
IPv6 Cloud	BroadbandIDC	IPv6 based IaaS

[Activities]

■ APNIC-NIR API Test Support

- Sending Query and Receiving Result in testbed
- Sharing Test Result

■ Transfer of Internet address management system

- Seoul → Naju (November 2019)
- 99 steps of Transfer and 15 steps of Test

[Plans in 2020]

■ Open RDAP service to users

- Open RDAP, Collecting Feedback, Improving Service(2020)
- Preparation for Integration of RDAP and WHOIS(2021)

■ Preparation for ROA

- Improving functions that handle ROA info (2nd quarter of 2020)
- Applying ROA functions on Web and Open it (3rd quarter of 2020)

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hostmaster@nic.or.kr

