

.KR DNS Update

Dynamic Update & WHOIS OpenAPI

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KRNIC DNS Management

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NIDA

한국인터넷진흥원

Goal

- Complaints from the customers
 - ✓ Why can't I use MY kr Domain RIGHT NOW!!!
 - ✓ Why isn't MY registered kr Domain work RIGHT NOW!!!
 - ✓ I want my kr Domain revive RIGHT NOW!!!

- We give you Dynamic Update service
 - ✓ No more complaints

What is Dynamic Update?

➤ Update the zone data in real time

- **BEFORE**

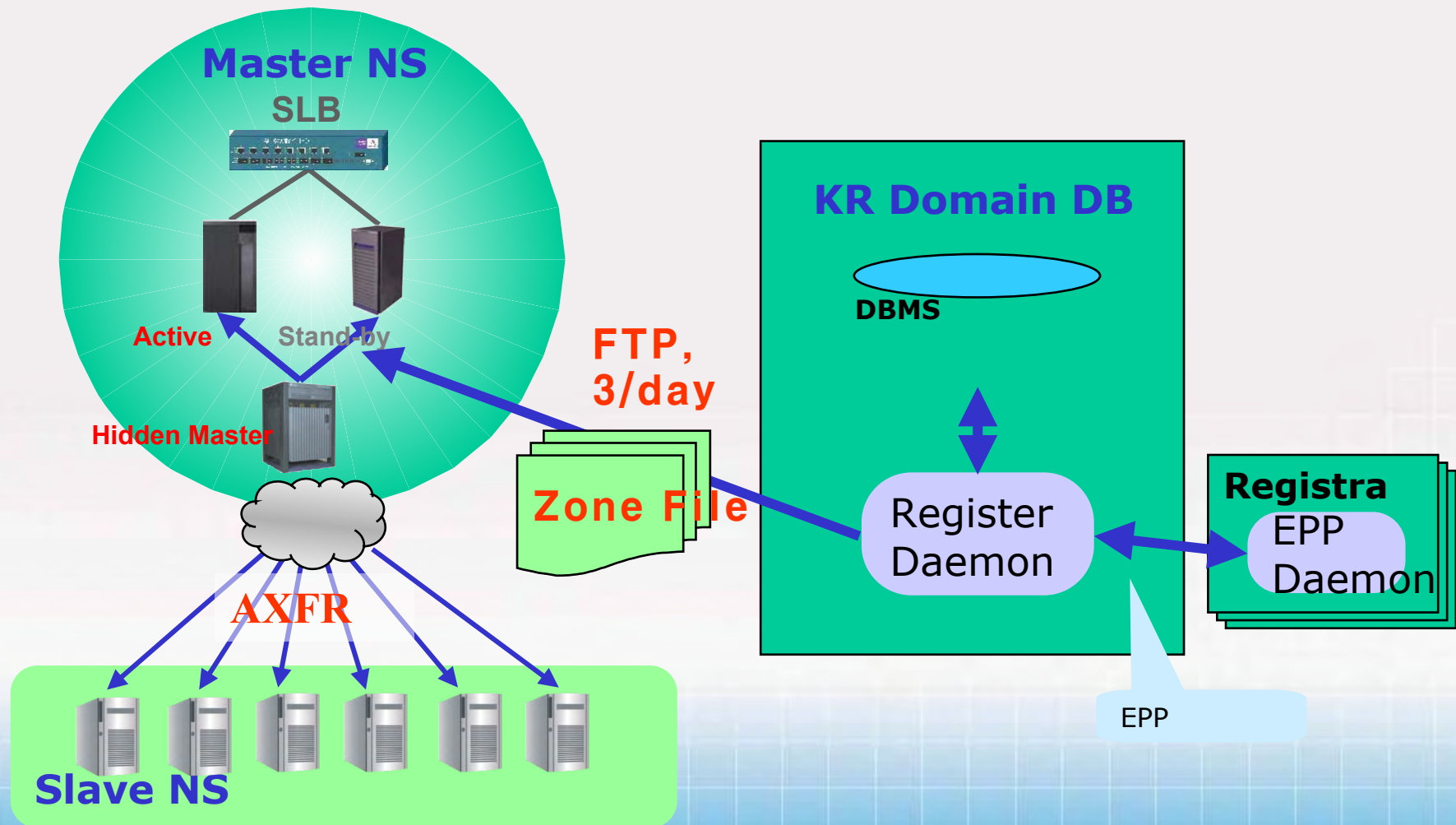
- Zone data Update at 8:00, 12:00, 18:00 - 3 times a day

- **AFTER**

- Zone data updated less than 5 minutes

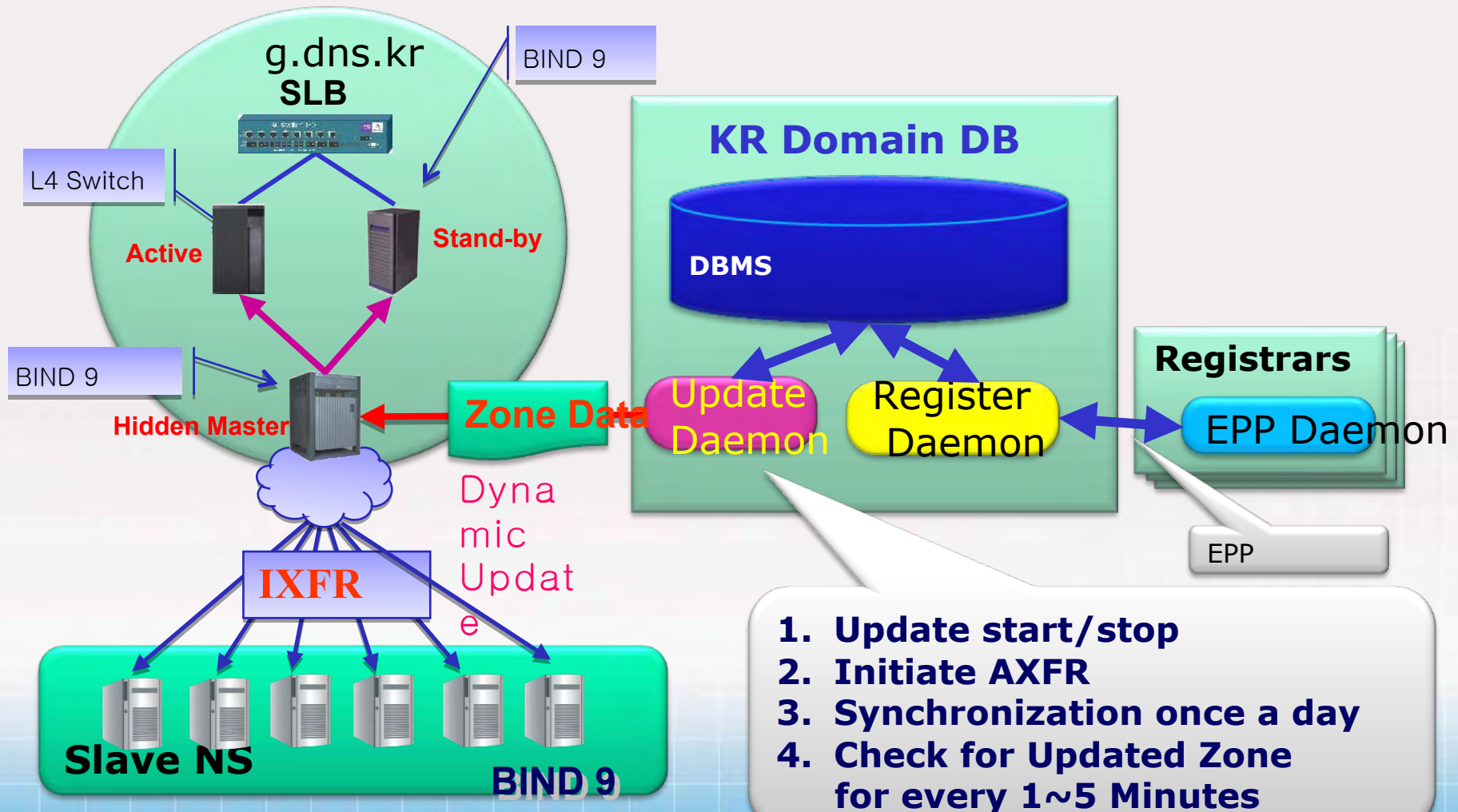
Dynamic Update

Before



Dynamic Update

After Dynamic Update



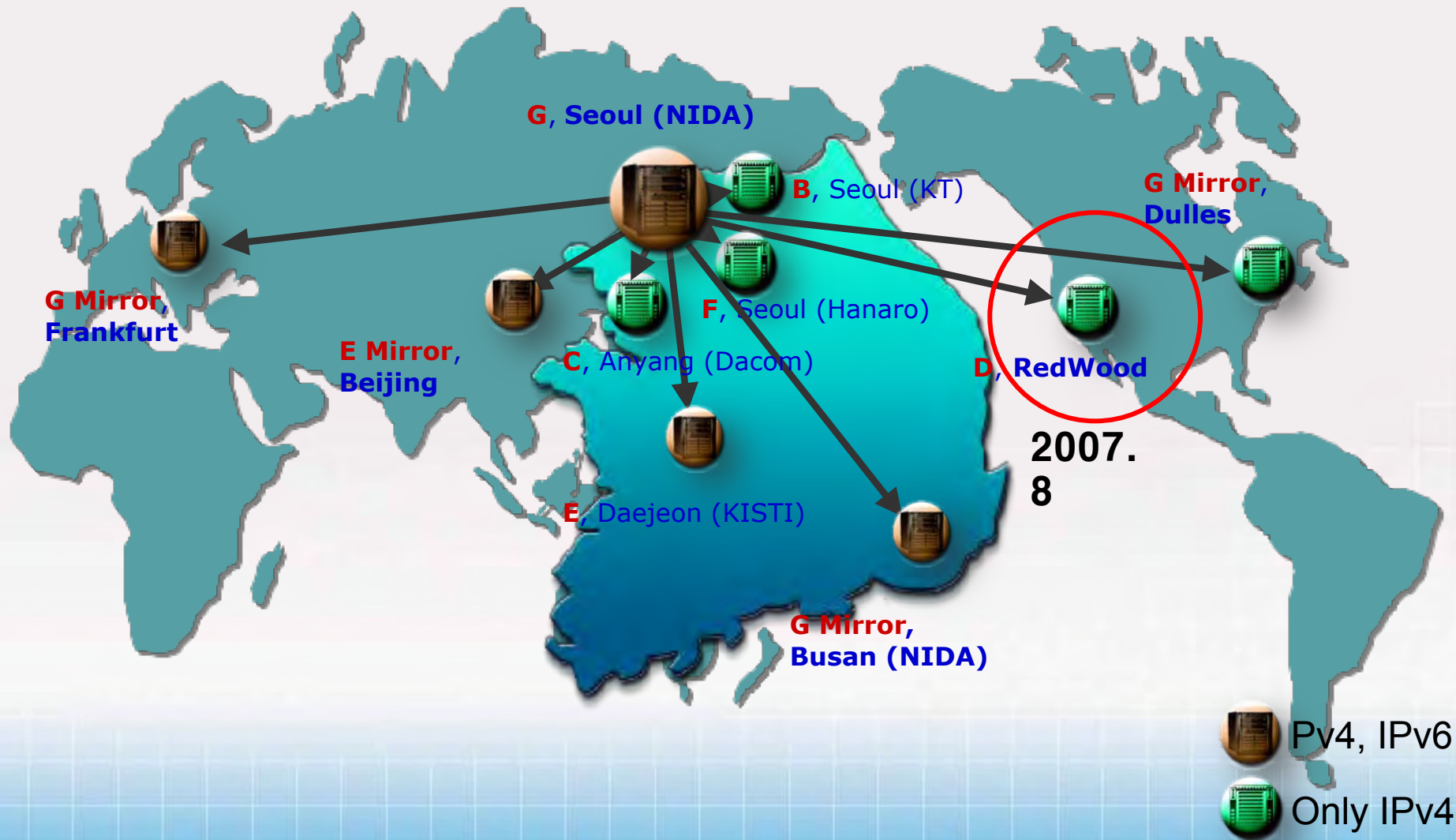
Pre tasks before implementation

- **H/W upgrade for BIND9**
 - External monitoring system implemented in all .kr DNS
 - d.dns.kr relocation and upgrade

- **IDN Service Upgrade**
 - Developed and upgraded Hangeul Navi system

- **Name Server Software upgrade to BIND9**

Dynamic Update



Dynamic Update

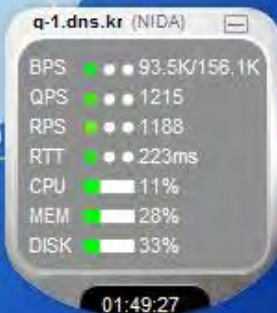
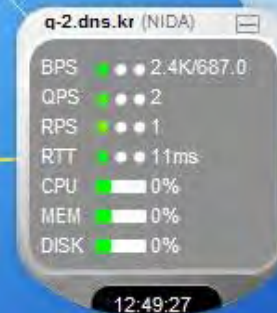
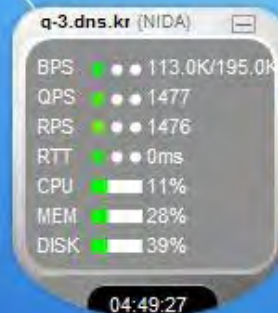
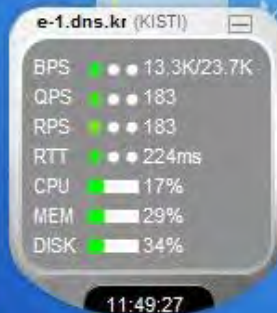
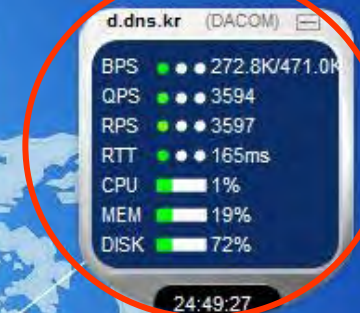
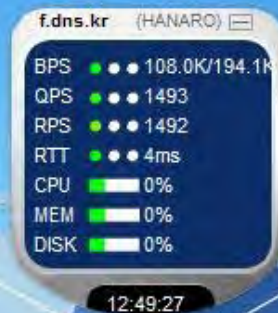
2007.9.14 / 12:49:27

kr DNS Traffic(BPS IN/OUT)

현재:994.1K / 1.6M 전주:918.2K/1.6M 전월:777.1K/1.5M

실시간정보

● Normal ● Warning ● Critical



지역등록

Serial Number in SOA

- **Change of the Serial Number sequence**
 - 3/day to Maximum 9999/day**

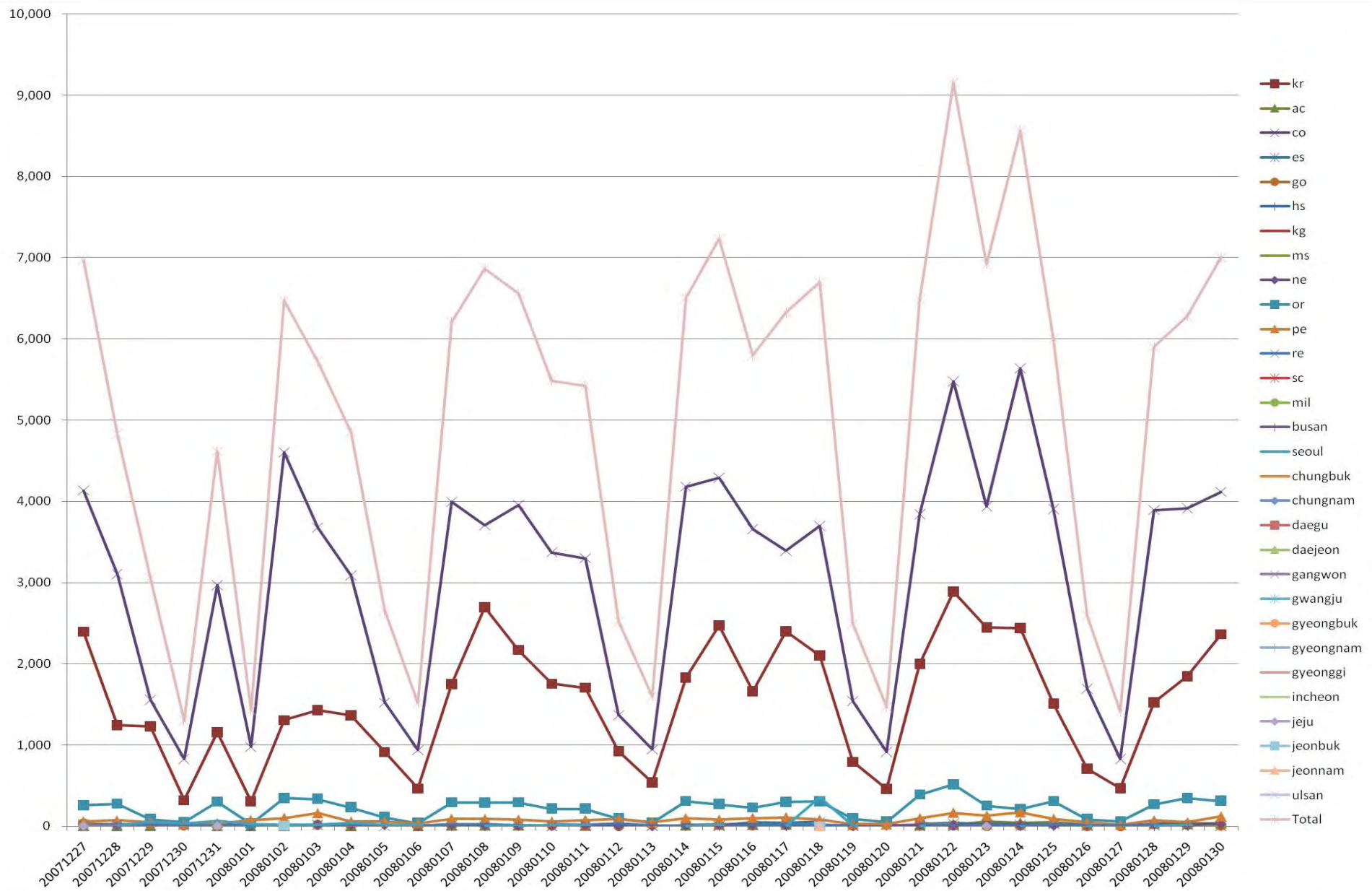
[Before]

```
kr      86400  IN      SOA      g.dns.kr.  
domain-manager.nic.or.kr. (  
    2007112208 3600 900 604800 7200 )
```

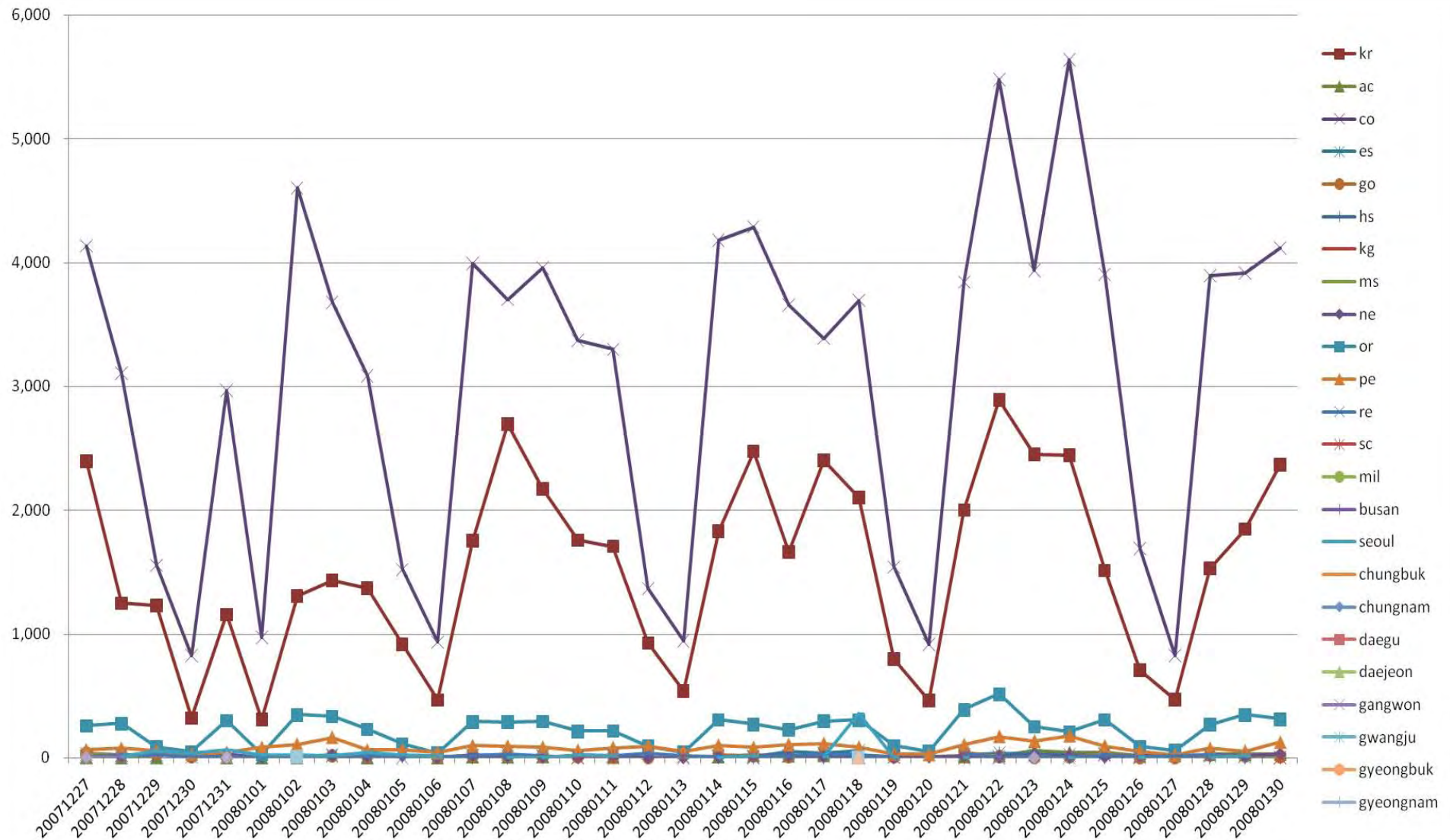
[After]

```
kr      86400  IN      SOA      g.dns.kr.  
domain-manager.nic.or.kr. (  
    0711220001 3600 900 604800 900 )
```


NIDA 한국인터넷진흥원
National Internet Development Agency of Korea



Dynamic Update



WHOIS OpenAPI

➤ Service URL

- <http://whois.nida.or.kr/openapi/whois.php>

➤ Request Variable

Request Variable	Value	Discriptions
KEY	STRING	Input the registerd KEY
DOMAIN_NAME	STRING	Input the Domain name to query

➤ Issue User KEY to prevent excess query

- Issued user KEY to the Registrars during the test service
- Intened to spred the service to the public

WHOIS OpenAPI

```
<?xml version="1.0" encoding="euc-kr" ?>
- <whois>
- <krdomain>
  <name>nic.or.kr</name>
  <regName>한국인터넷정보센터</regName>
  <addr>서울 서초구 서초2동 1321-11 KTF 빌딩 11층</addr>
  <post>137857</post>
  <adminName>도메인관리자</adminName>
  <adminEmail>domain-manager@nic.or.kr</adminEmail>
  <adminPhone>02-2186-4504</adminPhone>
  <regDate>1999. 06. 07.</regDate>
  <endDate>9999. 12. 31.</endDate>
  <infoYN>Y</infoYN>
  <agency>한국인터넷진흥원</agency>
  <agency_url>http://domain.nida.or.kr/</agency_url>
  <e_regName>Korea Network Information Center</e_regName>
  <e_addr>11F, KTF B/D, 1321-11 , Seocho 2(i)-dong , Seocho-gu , Seoul , Republic of
    Korea</e_addr>
  <e_adminName>Domain Manager</e_adminName>
  <e_agency>KRNIC</e_agency>
  <ns1>ns1.nic.or.kr</ns1>
  <ip1>202.30.50.51</ip1>
  <ns2>ns2.nic.or.kr</ns2>
  <ip2>220.73.220.113</ip2>
</krdomain>
</whois>
```

Thank You for listening