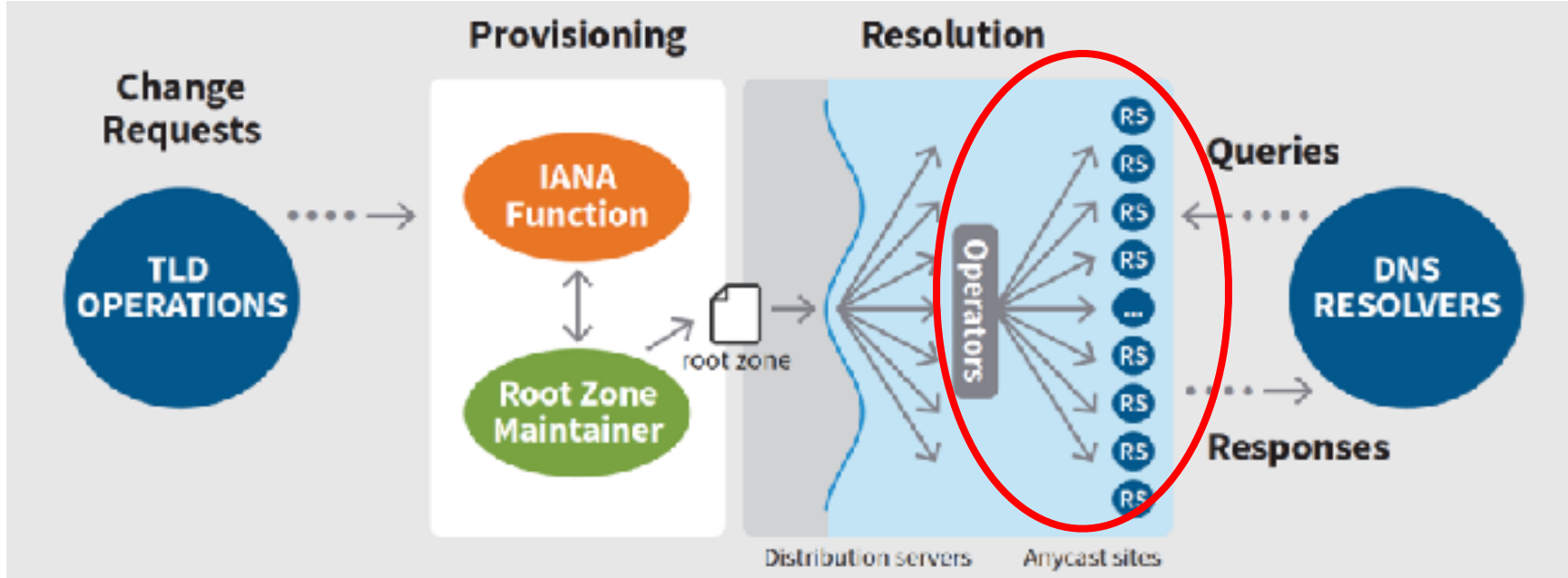


Deployment of M-Root instances in AP region

WIDE Project, JPRS, APNIC














What is Root DNS Server System



- **Root Server System Principles**

- Globally unique public namespace (source=IANA)
- Stable, reliable, resilient system
- Operation with integrity and ethos
- Transparency in operation
- Neutrality and impartiality
- ...

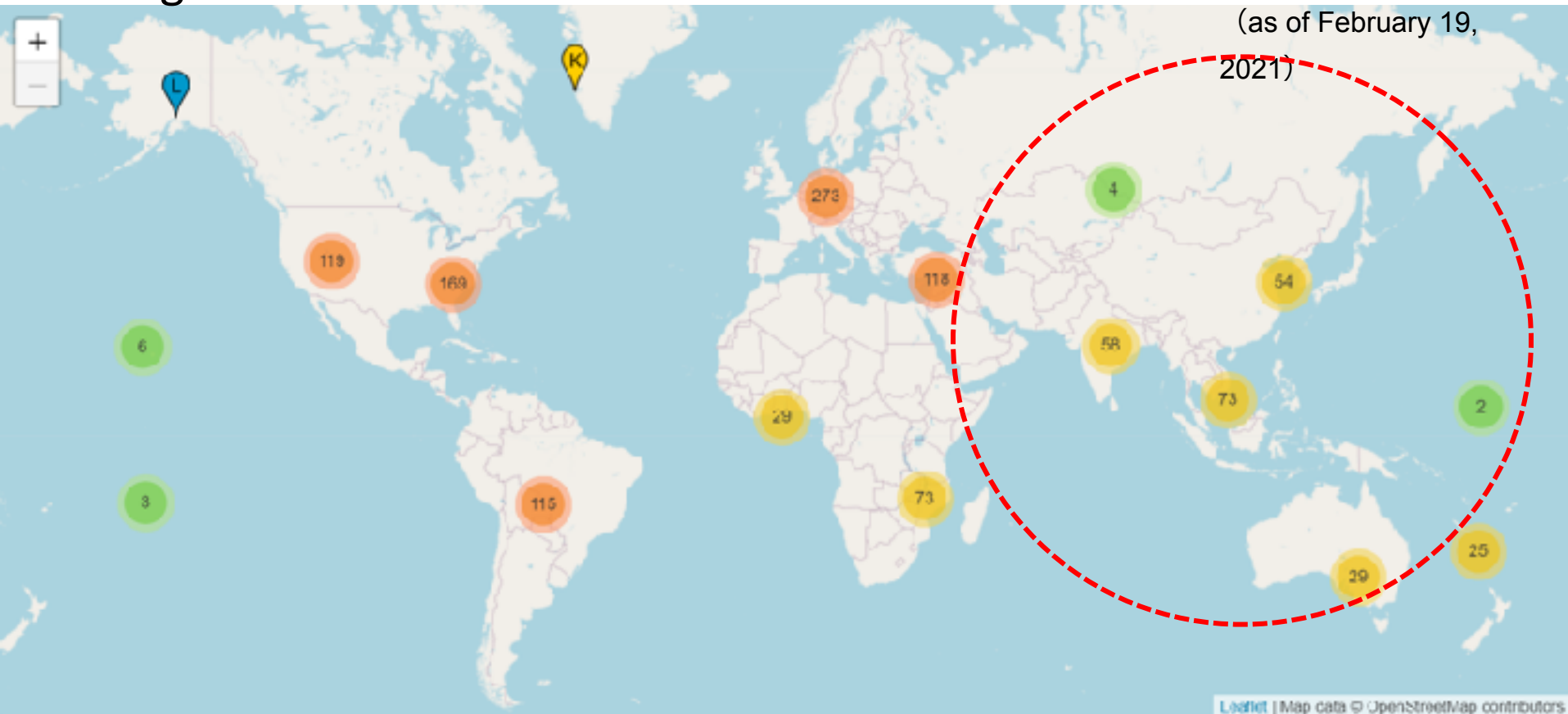
Operators of Root Servers

name		Operator	Organizational type
A-Root		Verisign, Inc.	Company (domain name registry)
B-Root		Univ. of Sothern California, Information Sciences Inst.	University (laboratory)
C-Root		Cogent Communications	Company (ISP)
D-Root		Univ. of Maryland	University
E-Root		NASA Ames Research Renter	Government (laboratory)
F-Root		Internet Systems Consortium (ISC)	Nonprofit organization (DNS soft. developer)
G-Root		U.S. DoD Network Information Center	Government
H-Root		U.S. Army Research laboratory	Army (laboratory)
I-Root		Netnod	Nonprofit organization (operator of IX)
J-Root		Verisign, Inc.	Company (domain name registry)
K-Root		RIPE NCC	European Regional Internet Registry
L-Root		ICANN	Nonprofit organization
M-Root		WIDE project & JPRS	Research project & Company (domain name registry)

M-Root is the only Operator based in **AP region**

Number of Root DNS Server Instances

- The root DNS server system consists of 1,300+ instances.
- AP region has about **20%** of root server instances



<https://root-servers.org/>

As of 02/19/2021 11:25 a.m., the root server system consists of 1370 instances operated by the 12 independent root server operators.

About **60%** of the world population live in AP region

Who Operate M-Root?

1997~	WIDE Project (Japan) started M-Root DNS operation
2005~	WIDE Project and JPRS started M-Root DNS joint operation

- WIDE Project
 - <http://www.wide.ad.jp/>
 - Joint Research Project based in Japan
 - Collaboration with R&E network and others including APAN and APNIC
- Japan Registry Services Co., Ltd (JPRS)
 - <https://jprs.co.jp/en/>
 - Manage and administer .JP(Japan) ccTLD

M-Root DNS Server deployment

- In 2004, M-Root started anycast services
- Its clusters exist in
 - Tokyo (3), Osaka (1), Seoul (1) (n) the number of instances
 - Paris (2), San Francisco area (2)
 - Brisbane (1) added in December 2020 with APNIC
- Deployment of more anycast instances under way
 - Focusing “AP region” primarily
 - In collaboration with APNIC
 - Under [the MOU among WIDE Project, JPRS and APNIC](#)
 - With funding support from APNIC Foundation/APIDT

M-Root Deployment in AP Region

- Having Root Server(s) beside you may give you and your neighbours
 - More stability in using the Internet
 - Shorter response time in using the Internet
 - Higher proficiency in infrastructure design and operation
 - ...
- Collaboration in deployment of M-Root?
 - System-wise
 - Connection to IXP(s) and/or the largest ISP(s)
 - Cabinet/Cage
 - Server
 - Management Network
 - ...
 - Operation-wise
 - Remote hand
 - ...

interested in hosting an instance?

contact :

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