



# DNSSEC Workshop

*ICANN Meeting Singapore*  
*26 March 2014*



Microsoft

.se

SiDN



# Program Committee

- Steve Crocker, Shinkuro, Inc.
- Mark Elkins, DNS/ZACR
- Cath Goulding, Nominet
- Jean Robert Hountomey, AfricaCERT
- Jacques Latour, CIRA
- Xiaodong Lee, CNNIC
- Luciano Minuchin, NIC.AR
- Russ Mundy, SPARTA, A Parsons Company
- Ondřej Surý, CZNIC
- Lance Wolak, Public Interest Registry
- Yoshiro Yoneya, JPRS
- Dan York, Internet Society
- Julie Hedlund, ICANN

# DNSSEC Implementer's Gathering Sponsors

The Program Committee is holding a gathering for DNSSEC Implementers on 26 March, sponsored by the following Committee members:

- Afilias
- CIRA
- Dyn
- Microsoft
- .SE
- SIDN

# Program

## Key to Level of Difficulty:

**NOVICE** = New to DNSSEC and want to learn more

**INTERMEDIATE** = Familiar with DNSSEC and how it works, but not of all concepts

**EXPERT** = Expert understanding of DNSSEC and extensive experience in deployment/implementation

0830-0845 – Presentation: Dan York, Internet Society – *DNSSEC Workshop Introduction, Program, Deployment Around the World – Counts, Counts, Counts*

0845-0945 – Panel Discussion: DNSSEC Activities in the Asia Pacific Region

0945-1015 – Presentation: The Operational Realities of Running DNSSEC

1015-1030 – Break

1030-1115 – Panel Discussion: Guidance for Registrars in Supporting DNSSEC

1115-1200 – Presentation: Preparing for DNSSEC Root Key Rollover

1200-1230 – Presentation: Implementing DNSSEC Validation at ISPs

1230-1330 – Lunch Break: Warren Kumari, Google – Great DNS Quiz

1330-1400 – Presentation: DANE and DNSSEC Applications

1400-1445 – Demonstration: DANE Tools and Ideas

1445 – Russ Mundy, Sparta/Parsons and Dan York, Internet Society – *DNSSEC - How Can I Help?*

# DNSSEC Deployment Around the World

## Counts, Counts, Counts

April 2014

Dan York, Internet Society

# TLD DNSSEC Implementation Status

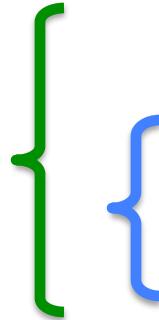
**Experimental – internal experiments**

**Announced – Public commitment to deploy**

**Partial – Zone is signed but not in operation**

**DS in Root**

**Operational – Accepting signed delegations**



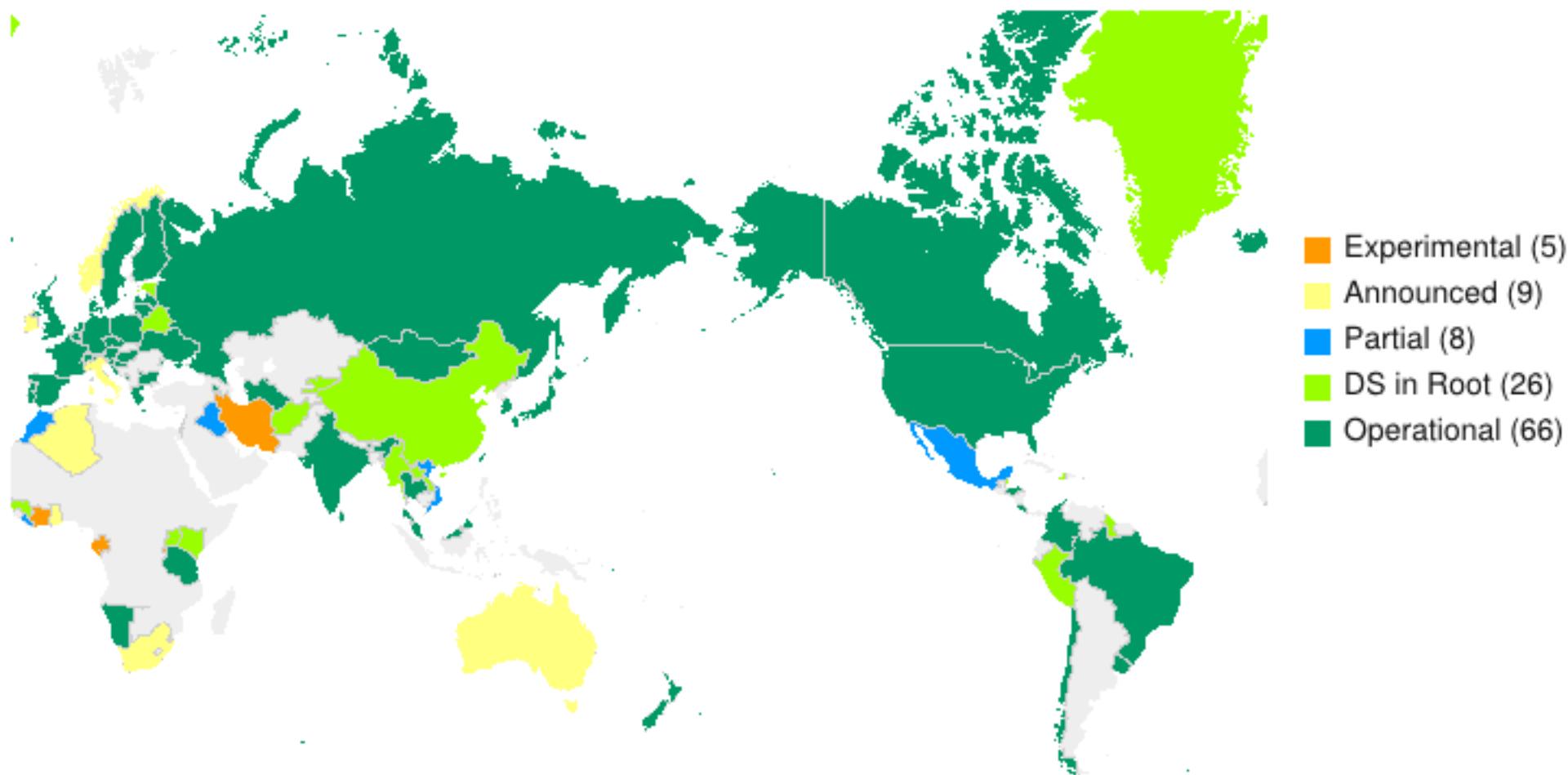
# The TLDs – DS or Operational

## Current

	gTLD	ccTLD	Regional	Total
Classic	171(183)	92(247)	2(2)	265(432)
IDN	21(23)	10(39)		42(73)
Total	192(206)	102(286)	2(2)	307(505)

- Measured: April 1, 2014
- Status: DS in the Root or Operational
- “Regional” is SU and EU, i.e. not associated with a single country but operating under ccTLD rules.

## ccTLD DNSSEC Status on 2014-04-01



## ccTLD DNSSEC Adoption as of 2014-04-01

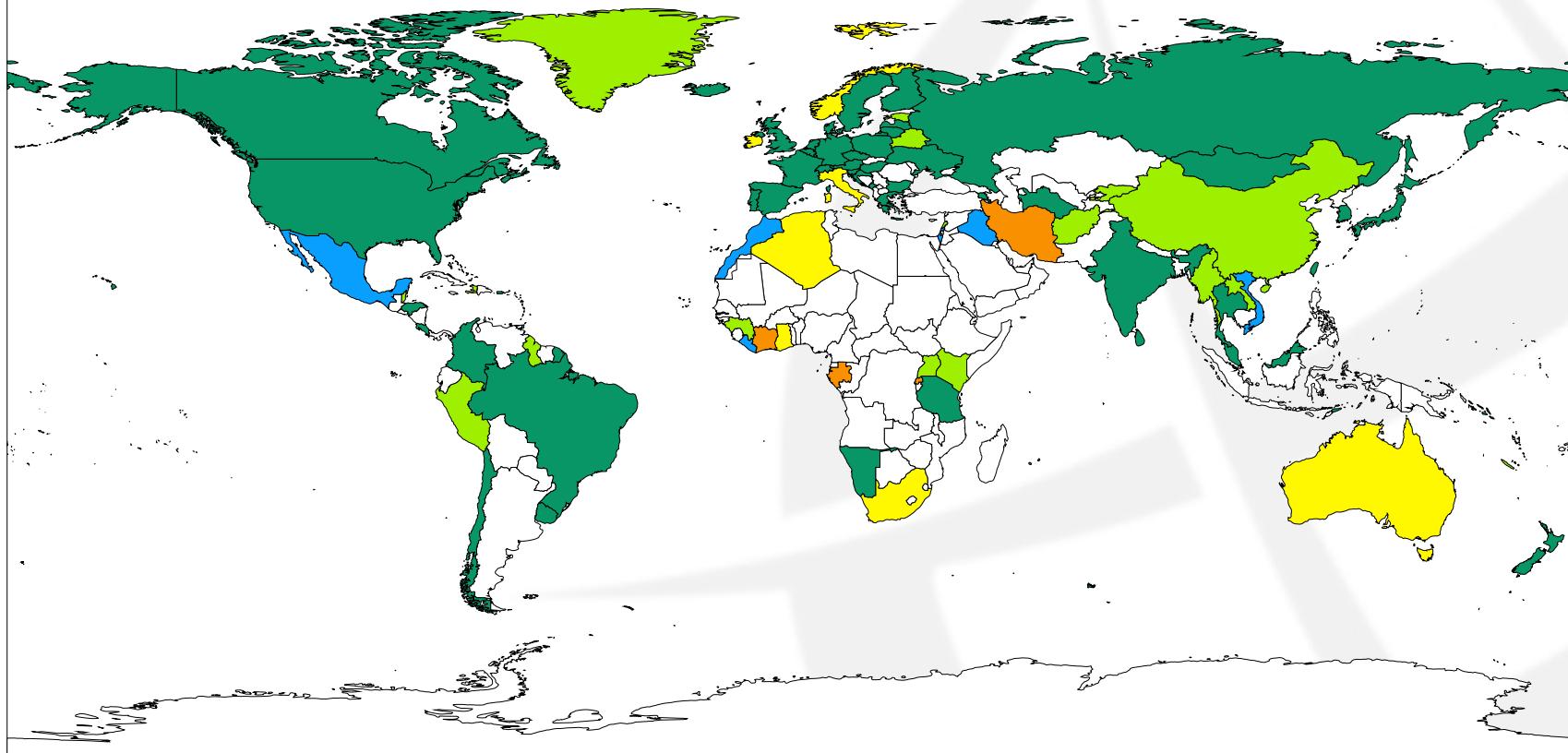
Experimental

Announced

Partial

DS in Root

Operational



Experimental -- Internal experimentation announced or observed (5):

Announced -- Public commitment to deploy (9):

Partial -- Zone is signed but not in operation (no DS in root) (8):

DS in Root -- Zone is signed and its DS has been published (26):

Operational -- Accepting signed delegations and DS in root (66):

CI GA IR RW TO

AU DZ GH HK IE IT NO SG ZA

IL IQ LR MA MS MX VC VN

AF AG BY BZ CC CN EE FO GI GL GN GY HT KE KG KI LA LB LC MM NC NU PE PW TV

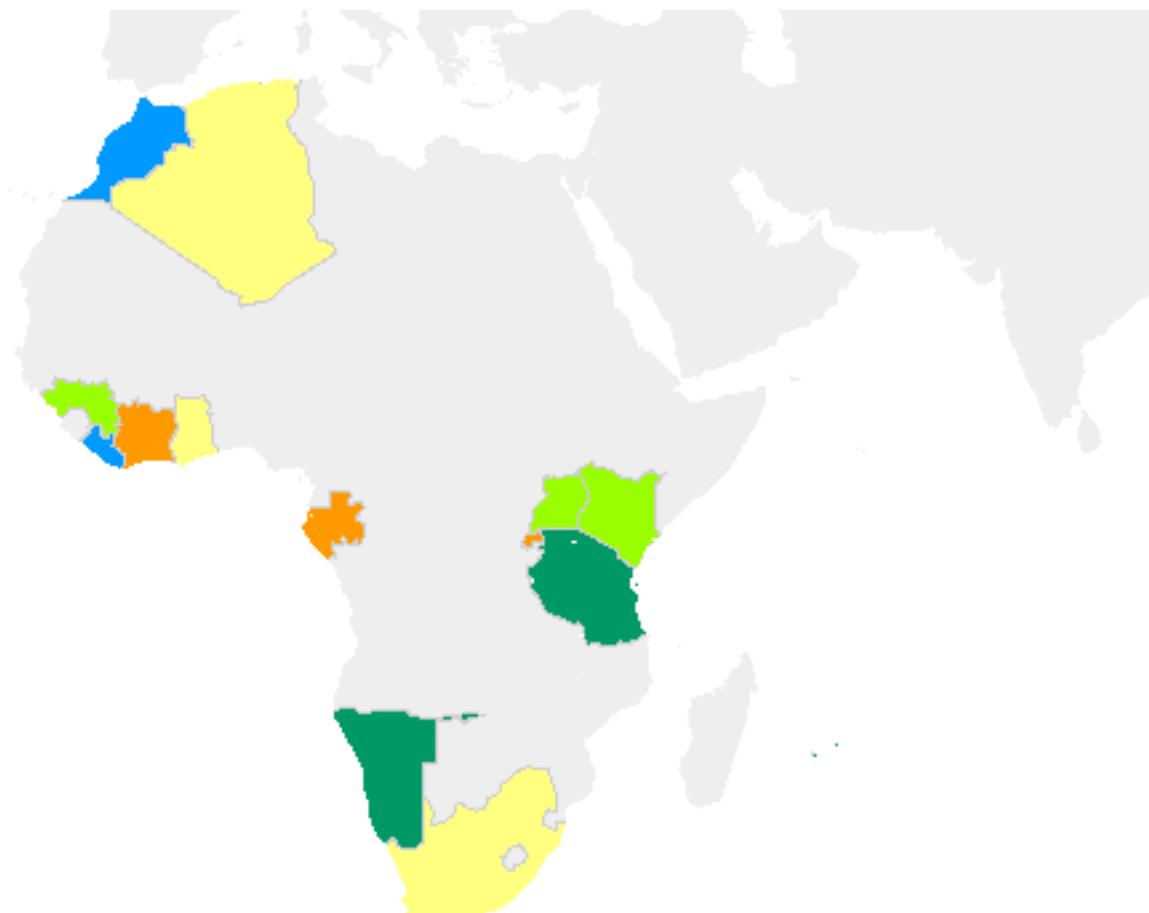
UG

AC AM AT BE BG BR CA CH CL CO CR CX CZ DE DK ES FI FR GR GS HN HR HU IN IO

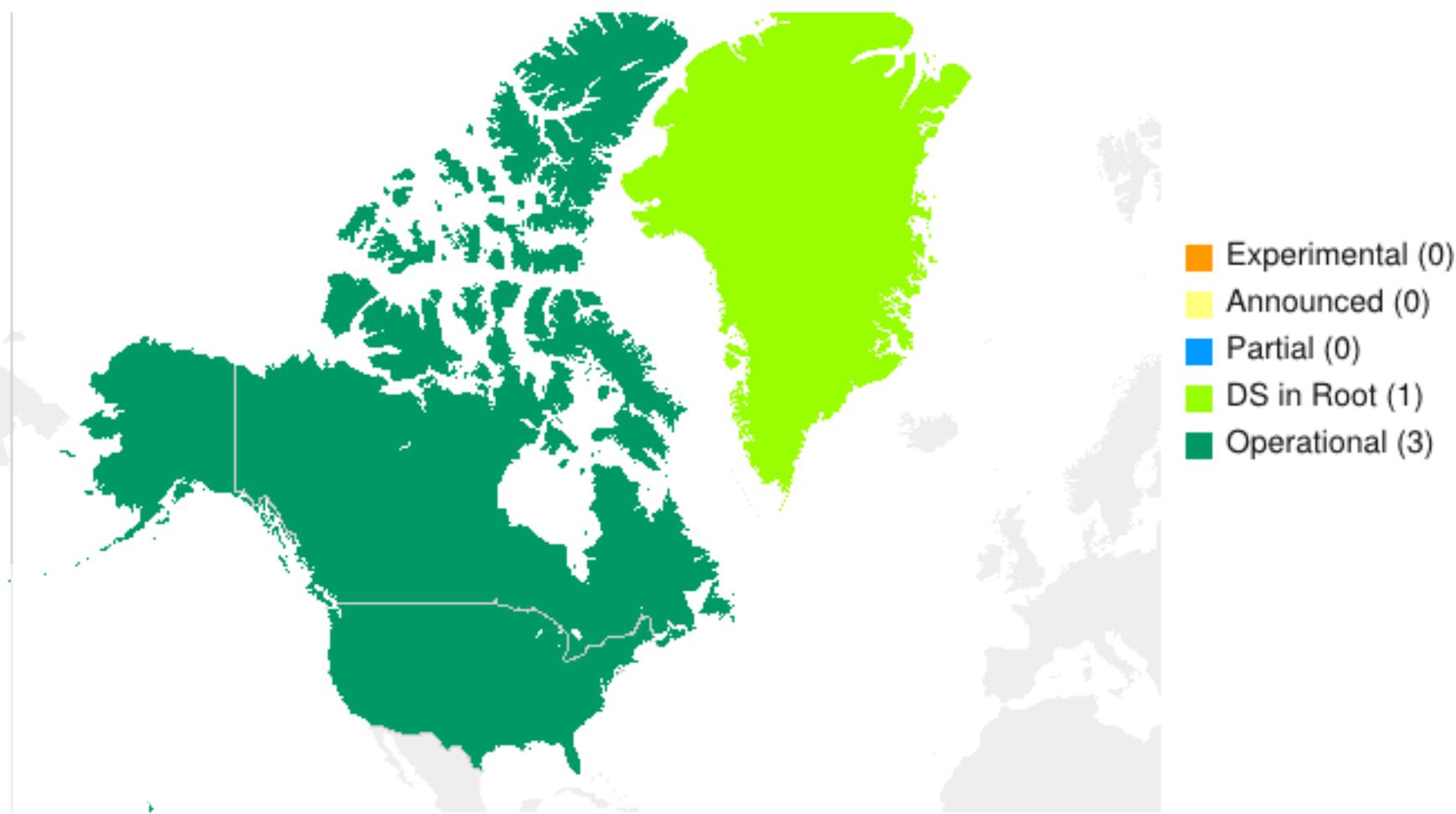
IS JP KR LI LK LT LU LV ME MN MU MY NA NF NL NZ PL PM PR PT RE RU SB SC SE

SH SI SX TF TH TL TM TT TW TZ UA UK US UY WF YT

## AF ccTLD DNSSEC Status on 2014-04-01



## NA ccTLD DNSSEC Status on 2014-04-01

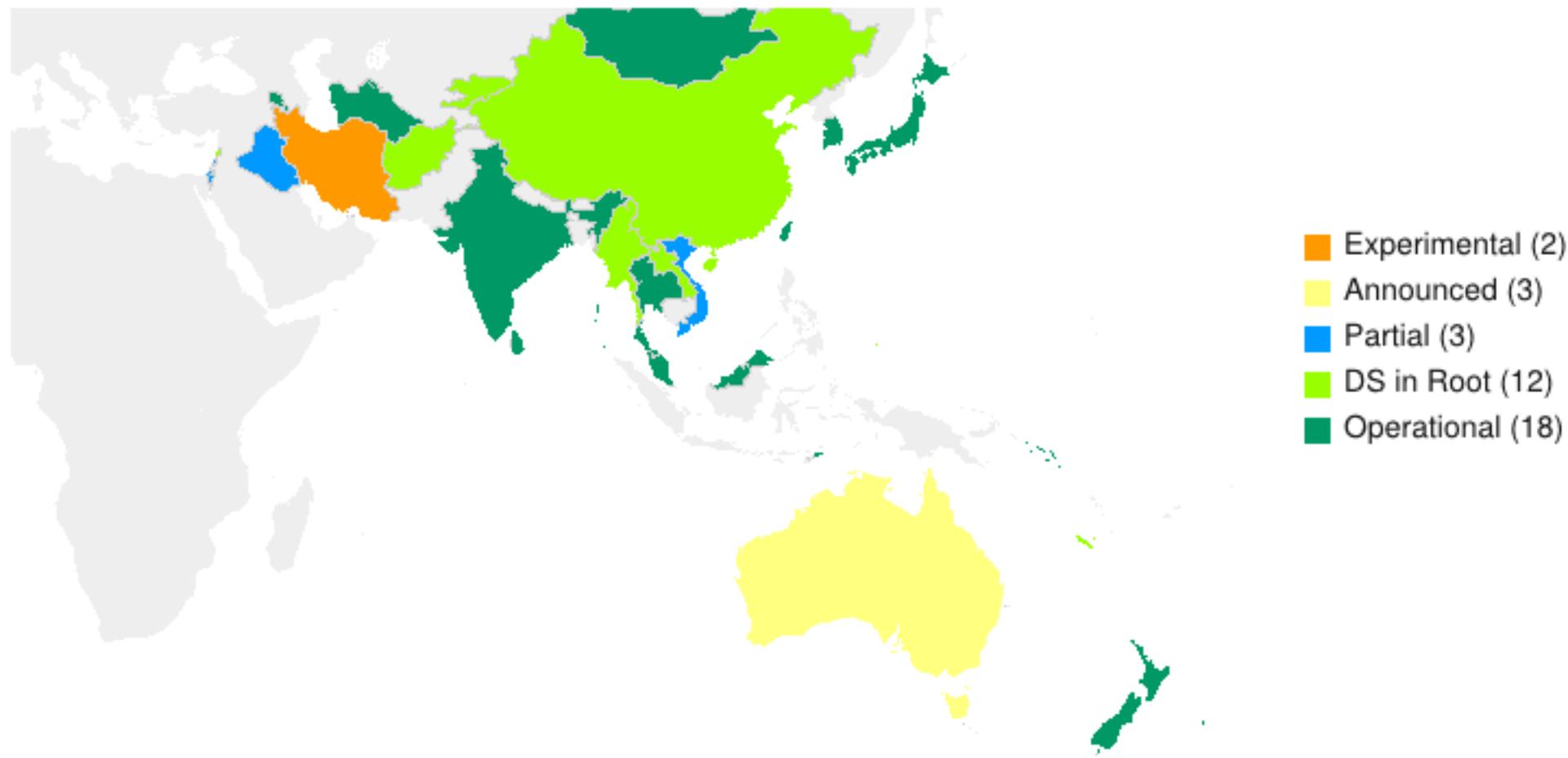


## LAC ccTLD DNSSEC Status on 2014-04-01

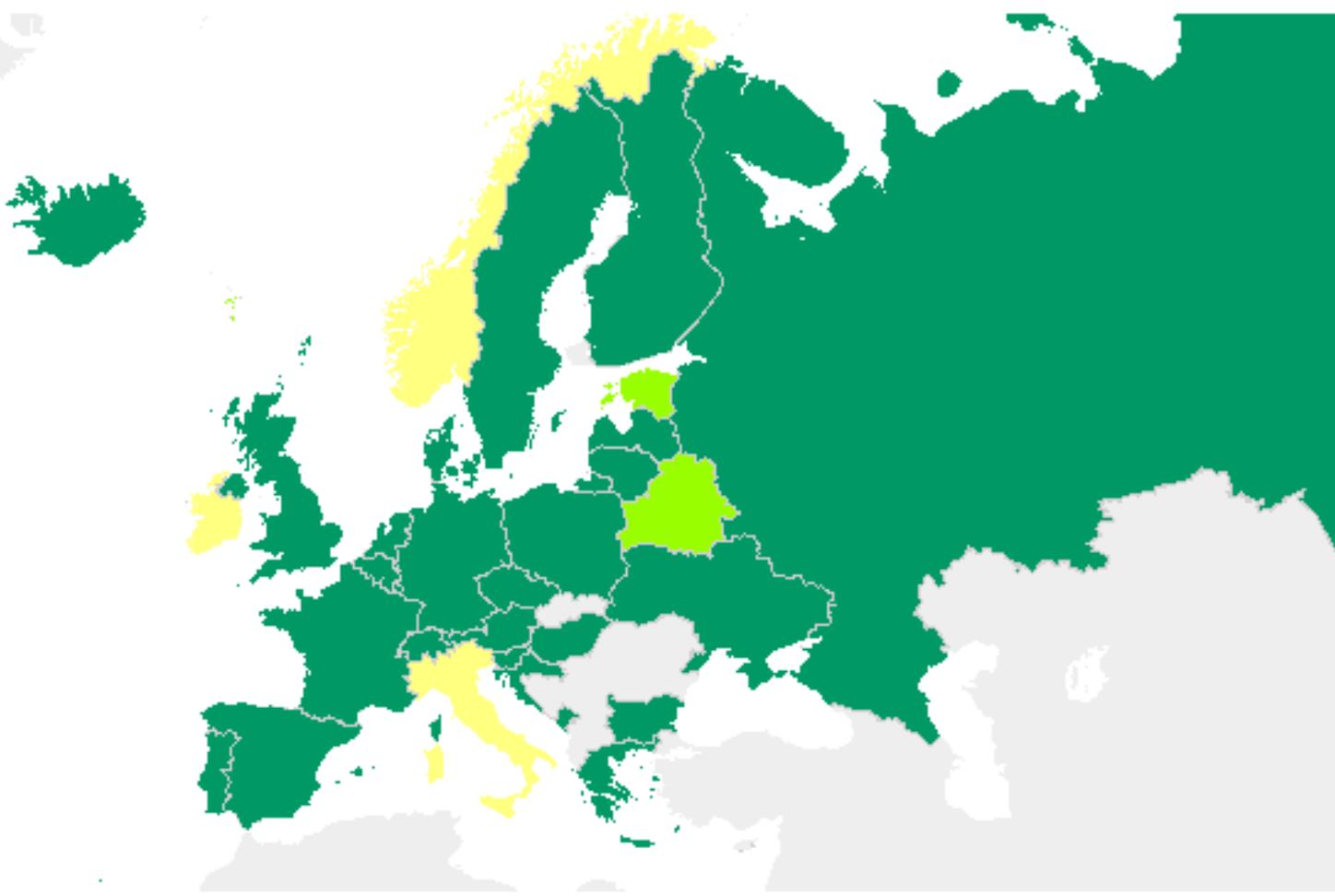


- Experimental (0)
- Announced (0)
- Partial (3)
- DS in Root (6)
- Operational (10)

## AP ccTLD DNSSEC Status on 2014-04-01



## EUR ccTLD DNSSEC Status on 2014-04-01



- Experimental (0)
- Announced (3)
- Partial (0)
- DS in Root (4)
- Operational (27)

# Receiving the DNSSEC Deployment Maps Via Email

The DNSSEC Deployment Maps are now published via email every Monday morning through the Internet Society Deploy360 Programme. To subscribe, visit:

[www.internetsociety.org/deploy360/dnssec/maps/](http://www.internetsociety.org/deploy360/dnssec/maps/)

# Two New DNSSEC Documents

.SE: Recommendations for DNSSEC deployment

[www.iis.se/english/domains/tech/recommendations-for-dnssec-deployment/](http://www.iis.se/english/domains/tech/recommendations-for-dnssec-deployment/)

Microsoft: DNSSEC In Windows Server 2012

[technet.microsoft.com/en-us/library/dn593694.aspx](http://technet.microsoft.com/en-us/library/dn593694.aspx)

# Thank You and Questions