# DNSSEC Workshop

## ICANN Meeting Buenos Aires, Argentina
## 20 November 2013

# 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 held a gathering for DNSSEC Implementers on 18 November, sponsored by the following Committee members:

- CIRA

- Iservices Systems LLC

- JPRS

- NIC.AR

- Nominet

# 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: Steve Crocker, Shinkuro – *DNSSEC Workshop Program, DNSSEC History Project,* and *DNSSEC Deployment Around the World | Counts, Counts, Counts* |
| 0845-0945 – Panel Discussion: DNSSEC Activities in Latin America |
| 0945-1015 – Presentations/Discussion: DNSSEC for the Enterprise |
| 1015-1030 – Break |
| 1030-1100 – Panel Discussion: Guidance for Registrars in Supporting DNSSEC |
| 1100-1130 – Presentations: DNSSEC Root Key Rollover |
| 1130-1215 – Panel Discussion: Automated Update of DNSSEC Information |
| 1215-1230 – Survey/Discussion on the Structure of DNSSEC Workshops |
| 1230-1330 – Lunch Break: *Roy Arends, Nominet UK – Great DNS Quiz* |
| 1330-1415 – Panel Discussion: Operational Realities of Running DNSSEC |
| 1415-1445 – Presentation – DNSSEC Innovation: 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
# November 2013
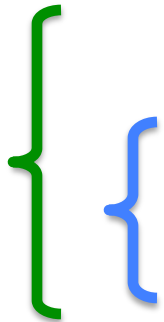# Steve Crocker, Shinkuro, Inc.

# TLD DNSSEC Implementation Status

**Experimental – internal experiments**

**Announced – Public commitment to deploy**

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

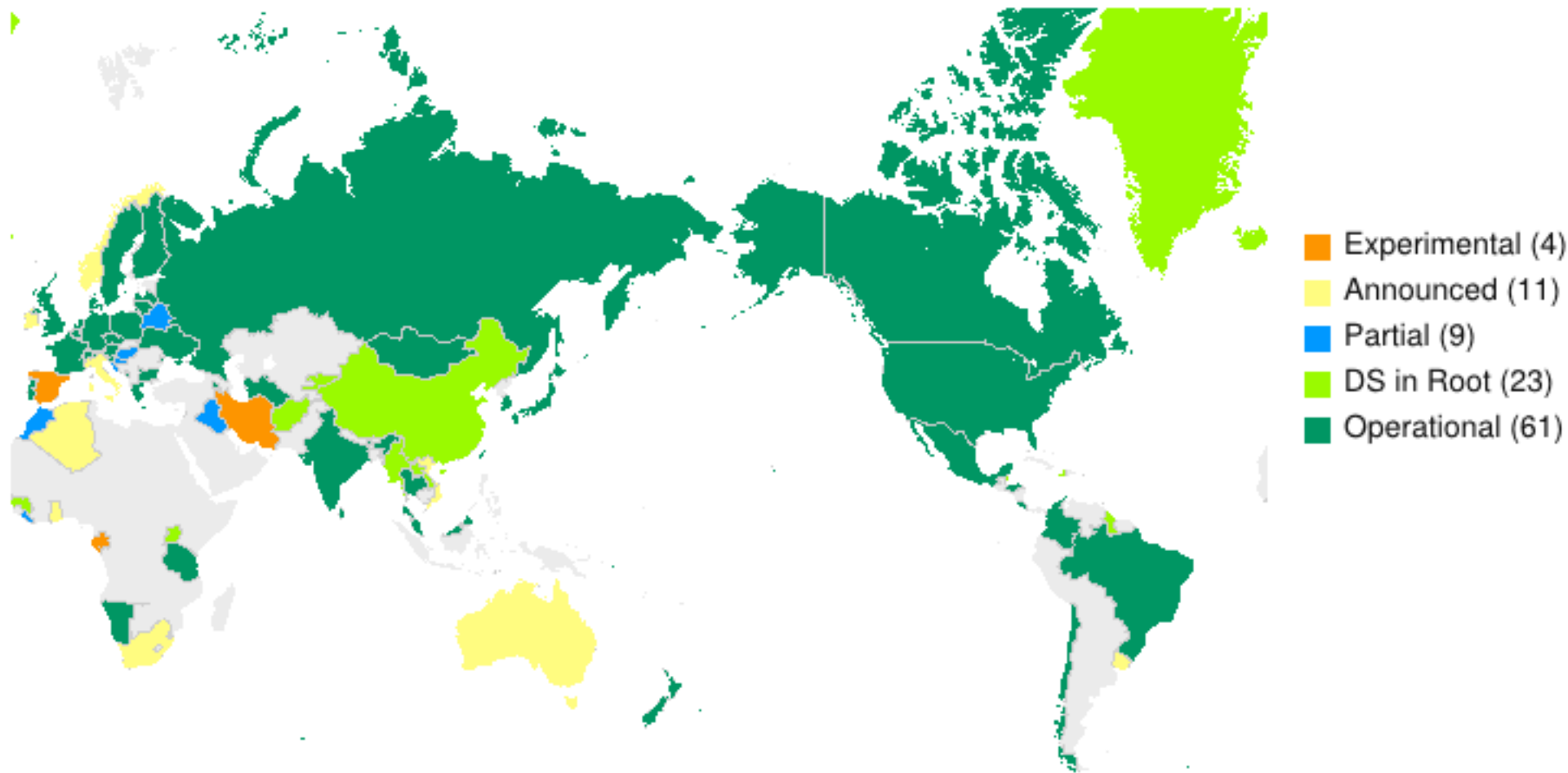**DS in Root**

**Operational – Accepting signed delegations**

# The TLDs – DS or Operational
# <span style="color:red">Current</span>

|  | gTLD | ccTLD | Regional | Total |
|---|---|---|---|---|
| Classic | 14(25) | 84(247) | 2(2) | 100(274) |
| IDN | 0(0) | 8(39) |  | 8(39) |
| Total | 14(25) | 92(286) | 2(2) | 108(313) |

- Measured: November 11, 2013
- 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 2013-11-11



Legend:
- Experimental (4)
- Announced (11)
- Partial (9)
- DS in Root (23)
- Operational (61)

# ccTLD DNSSEC Adoption as of 2013-11-13

Experimental ●    Announced ●    Partial ●    DS in Root ●    Operational ●
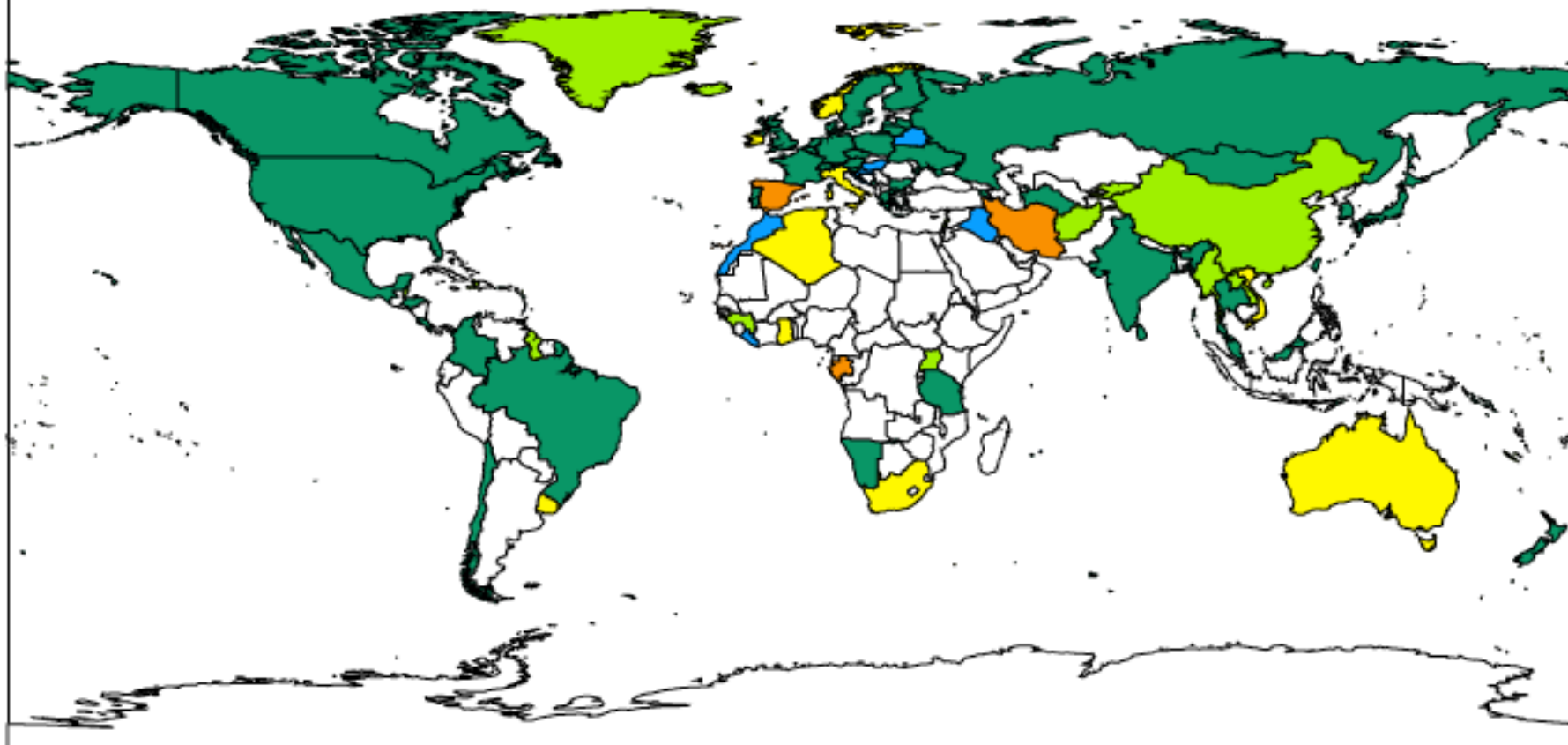


| | |
|---|---|
| Experimental -- Internal experimentaion announced or observed (4): | ES GA IR TO |
| Announced -- Public commitment to deploy (11): | AU DZ GH HK IE IT NO SG UY VN ZA |
| Partial -- Zone is signed but not in operation (no DS in root) (9): | BY HR HU IQ LR MA MS MU VC |
| DS in Root -- Zone is signed and its DS has been published (23): | AF AG BZ CC CN FO GI GL GN GY HT IS KG KI LA LB LC MM NC NU PW TV UG |
| Operational -- Accepting signed delegations and DS in root (81): | AC AM AT BE BG BR CA CH CL CO CR CX CZ DE DK FI FR GR GS HN IN IO JP KR LI LK LT LU LV ME MN MX 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 WF YT |

AF ccTLD DNSSEC Status on 2013-11-11
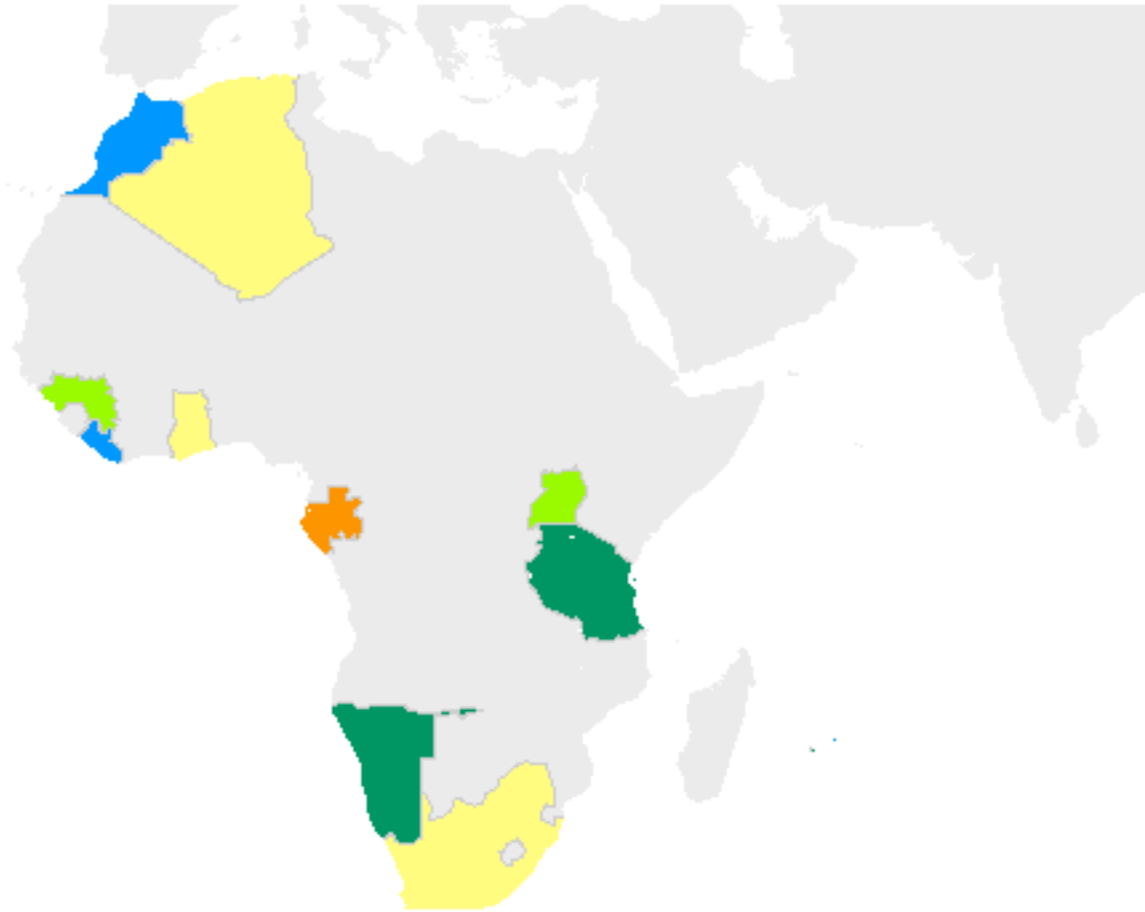
Experimental (1)
Announced (3)
Partial (3)
DS in Root (2)
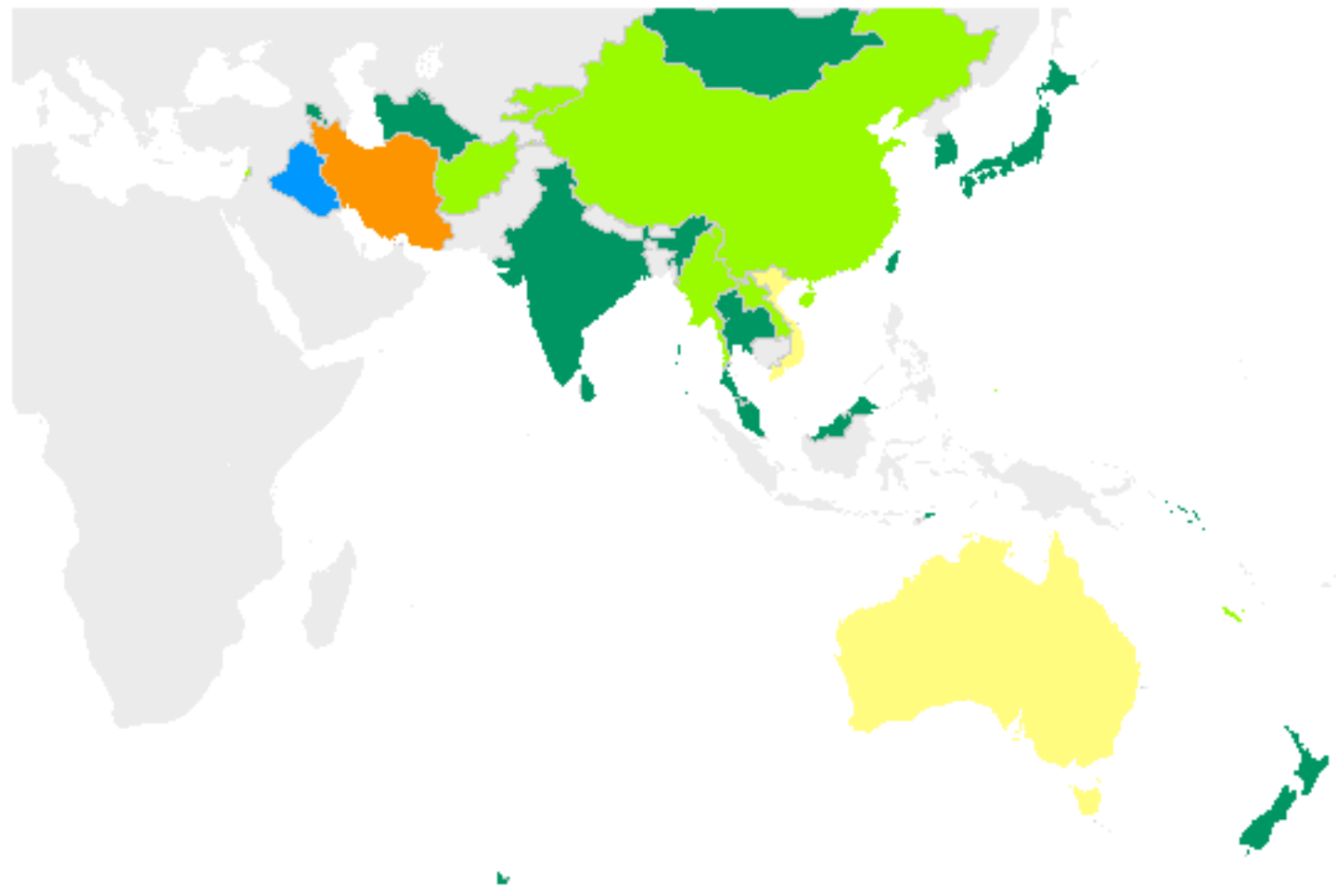Operational (7)

NA ccTLD DNSSEC Status on 2013-11-11
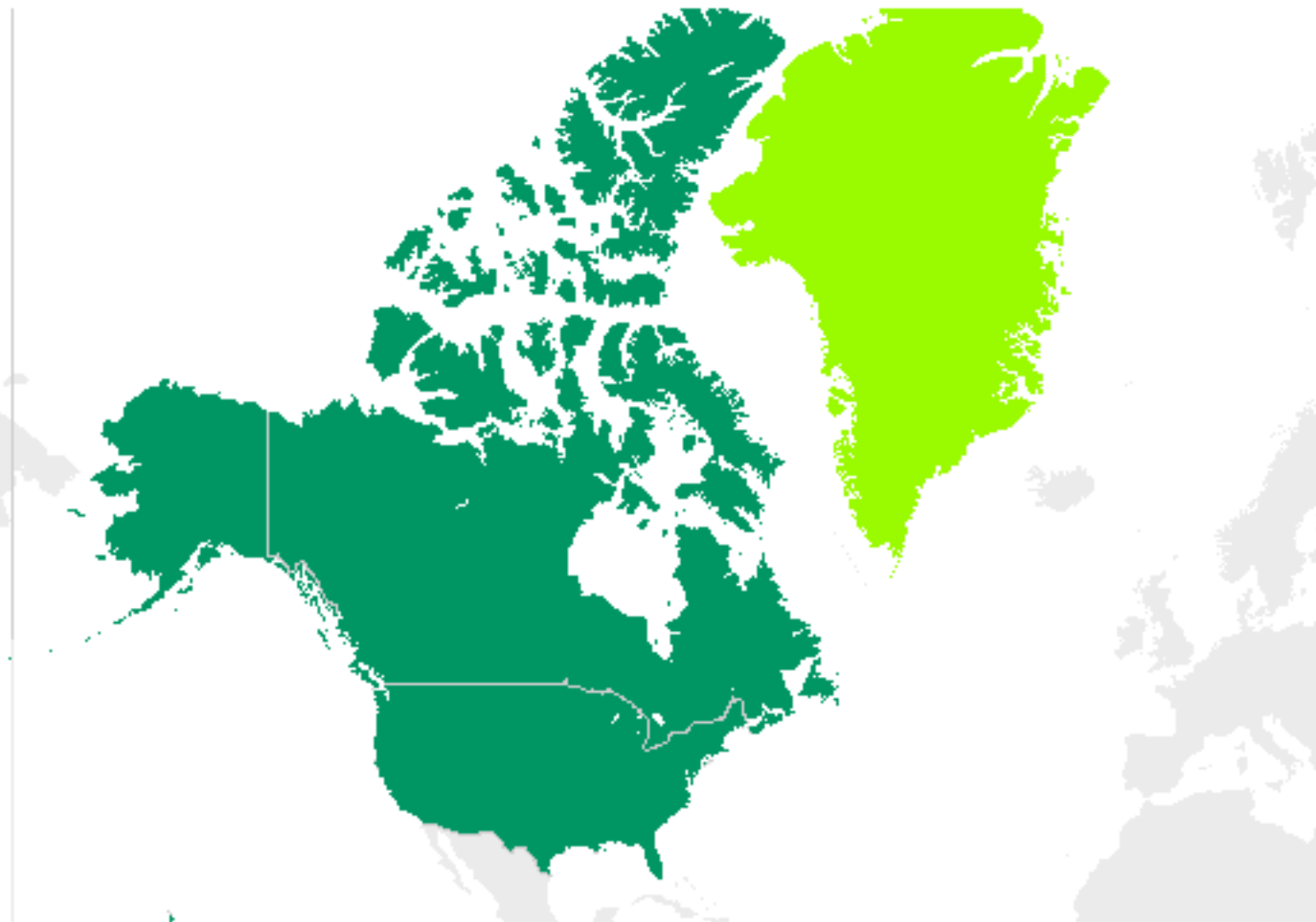
Experimental (0)
Announced (0)
Partial (0)
DS in Root (1)
Operational (3)

LAC ccTLD DNSSEC Status on 2013-11-11

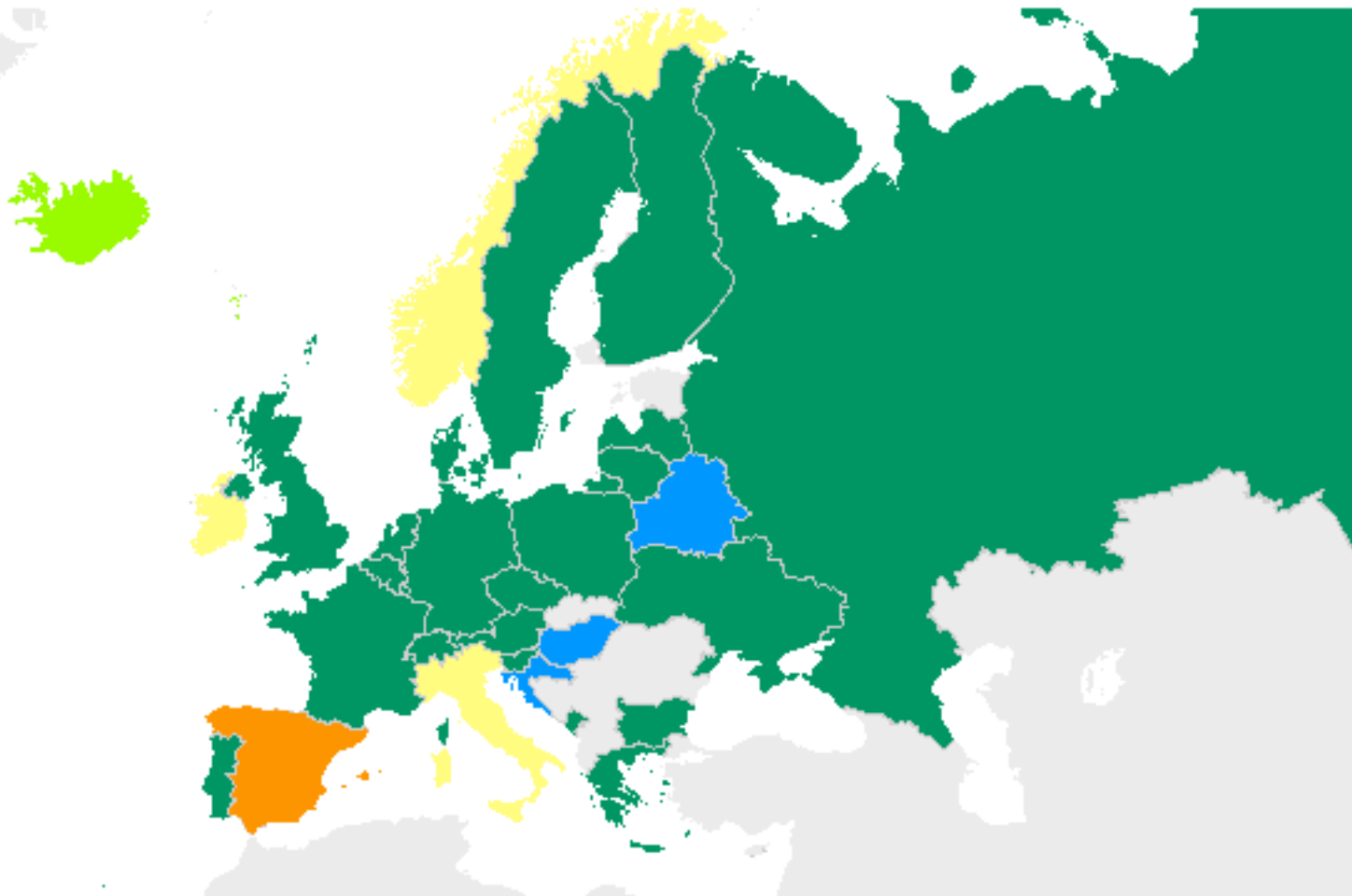Experimental (0)
Announced (1)
Partial (2)
DS in Root (5)
Operational (10)

# AP ccTLD DNSSEC Status on 2013-11-11



Experimental (2)
Announced (4)
Partial (1)
DS in Root (12)
Operational (18)

# EUR ccTLD DNSSEC Status on 2013-11-11



Experimental (1)
Announced (3)
Partial (3)
DS in Root (3)
Operational (23)

# DNSSEC History Project

# November 2013
## Dan York, Internet Society

# DNSSEC History Project

- Overall purpose is to document the ideas, activities, stories, challenges, controversies, and people involved in creating, defining, and deploying DNSSEC

- https://wiki.tools.isoc.org/DNSSEC_History_Project

- Project began in 2010.

# DNSSEC History Project – How You Can Help

- Review and add content:
- https://wiki.tools.isoc.org/DNSSEC_History_Project


- Contribute directly to wiki


- Email to dnssechistory@isoc.org to get started

# Thank You and Questions