DNSSEC Workshop

ICANN Meeting Los Angeles

15 October 2014

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
- Yoshiro Yoneya, JPRS
- Dan York, Internet Society
- Julie Hedlund, ICANN

DNSSEC Workshop Luncheon Sponsors:

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

NOTE: We are seeking 2015 sponsors!

DNSSEC Implementer's Gathering Sponsors

The Program Committee held a DNSSEC Implementers Gathering on 13 October, sponsored by:

- Comcast

- NBC/Universal

- Motion Picture Association of America (MPAA)

DNSSEC Workshop Support

The DNSSEC Workshop and associated activities at ICANN are an organized activity of the:

- **ICANN Security and Stability Advisory Committee (SSAC)**

with additional assistance from the:

- **Internet Society Deploy360 Programme**

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

0830-0900 – Presentation: Dan York, Internet Society: *DNSSEC Workshop Introduction, Deployment Around the World*
0900-1000 – Panel Discussion: DNSSEC Activities in North America
1000-1100 – Panel Discussion: Impact of Root Key Rollover
1100-1115 – Break
1115-1200 – Panel Discussion: DNSSEC Deployment in Operating Systems
1200-1300 – Lunch Break
1300-1400 – Panel Discussion: DNS/DNSSEC Monitoring
1400-1445 – Panel Discussion: DANE and Email Services
1445 –Dan York, Internet Society – *DNSSEC - How Can I Help?*

DNSSEC
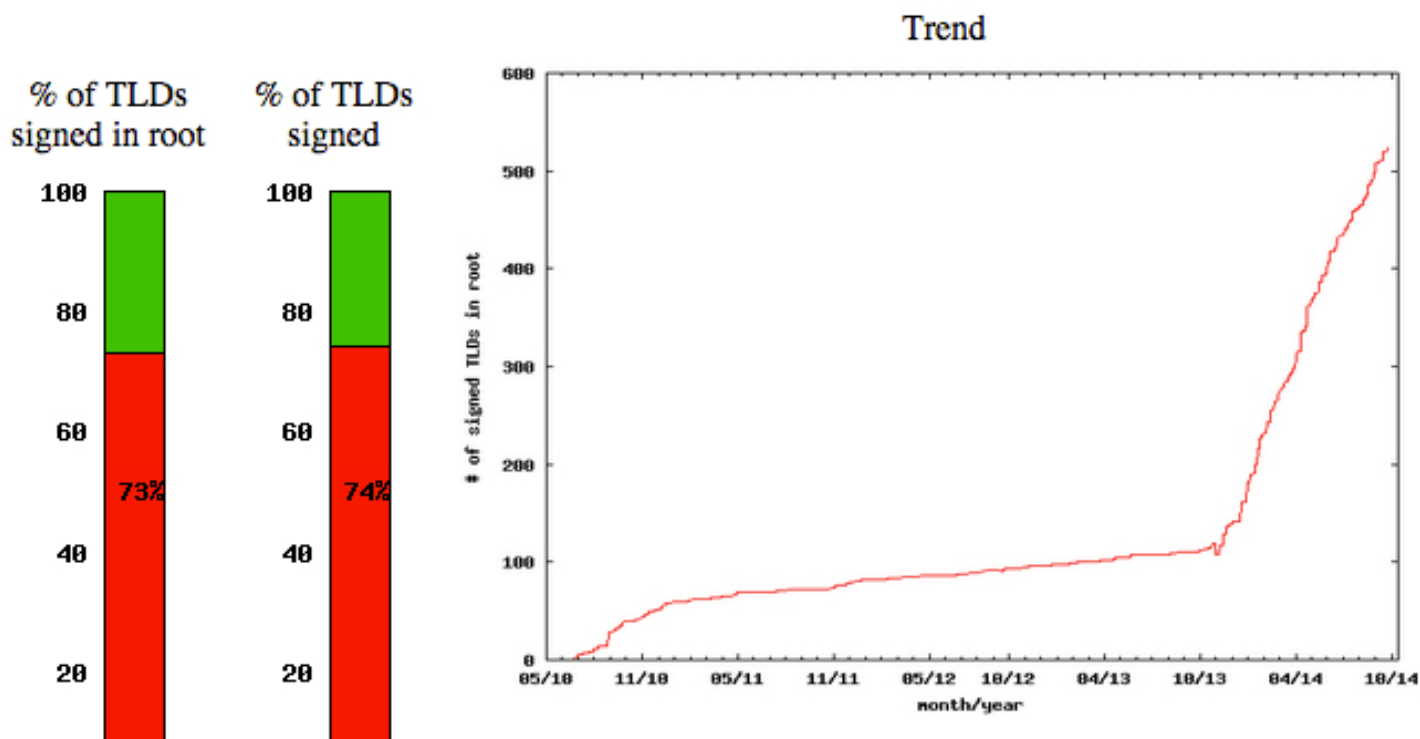# Deployment Around the World
Counts, Counts, Counts
October 2014
Dan York, Internet Society

https://rick.eng.br/dnssecstat/
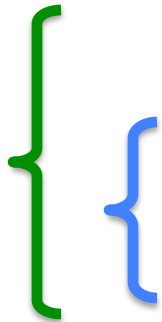
TLD DNSSEC Implementation Status

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

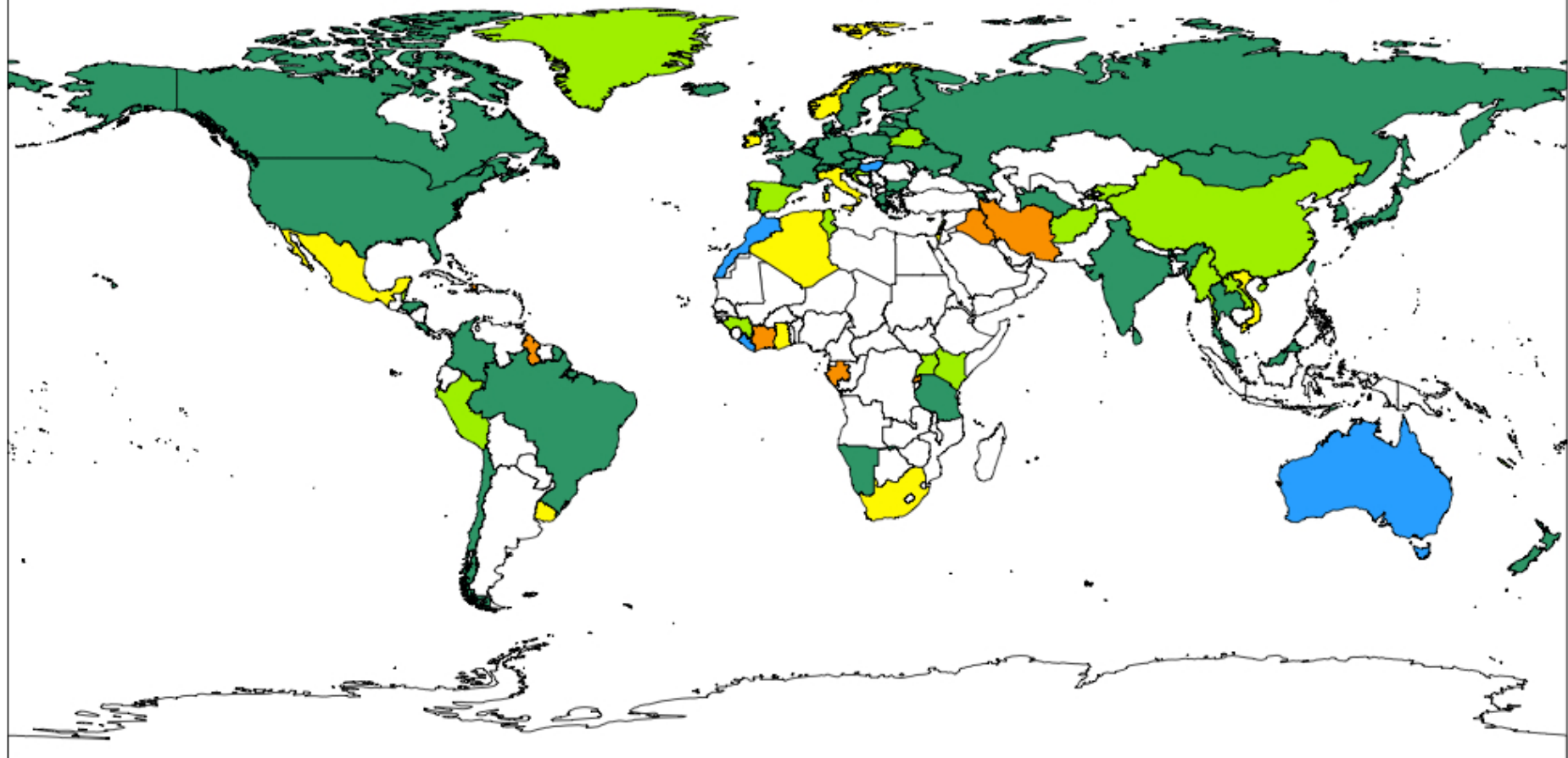|	gTLD	ccTLD	Regional	Total
Classic	**398(408**	**91(247)**	**2(2)**	**491(657)**
IDN	**35(35)**	**11(39**		**46(74)**
Total	**433(443)**	**102(286)**	**2(2)**	**537(731)**

- Measured: Oct 14, 2014
- Status: DS in the Root or Operational
- "Regional" TLDs are SU and EU
- Total (537) does not include signed root

ccTLD DNSSEC Status on 2014-10-14

Legend:
- Experimental (11)
- Announced (11)
- Partial (5)
- DS in Root (29)
- Operational (62)
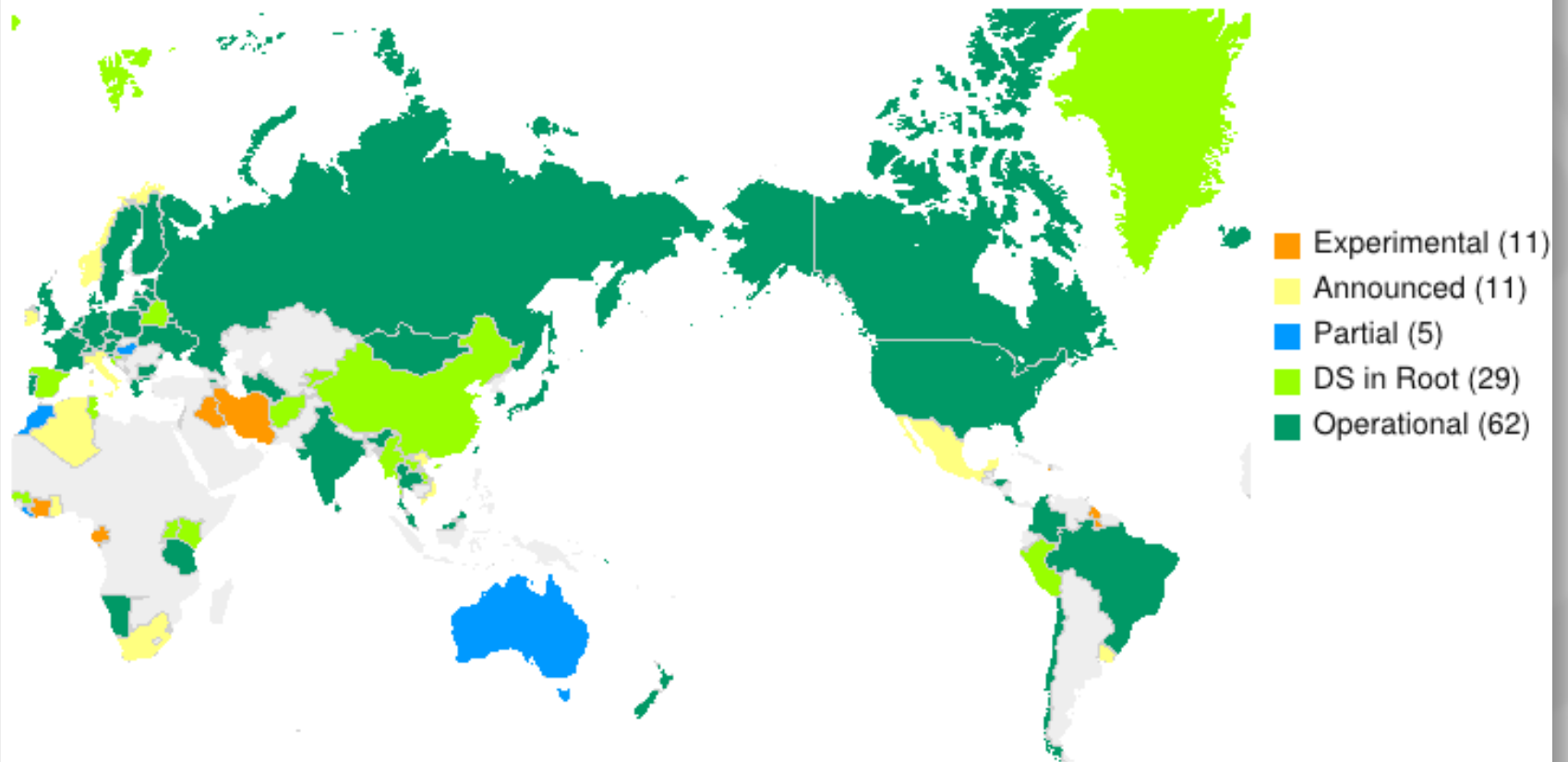
ccTLD DNSSEC Adoption as of 2014-10-14

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

Experimental -- Internal experimentation announced or observed (11):   CI GA GY HK HT IQ IR MS MU RW TO

Announced -- Public commitment to deploy (11):   DZ GH IE IL IT MX NO SG UY VN ZA

Partial -- Zone is signed but not in operation (no DS in root) (5):   AU HU LR MA VC

DS in Root -- Zone is signed and its DS has been published (29):   AD AF AG AW BY BZ CC CN ES FO GI GL GN HR KE KG KI LA LB LC MM NC NU PE PW SJ TN TV UG

Operational -- Accepting signed delegations and DS in root (62):   AC AM AT BE BG BR CA CH CL CO CR CX CZ DE DK EE FI FR GR GS HN IN IO IS JP KR LI LK LT LU LV ME MN 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
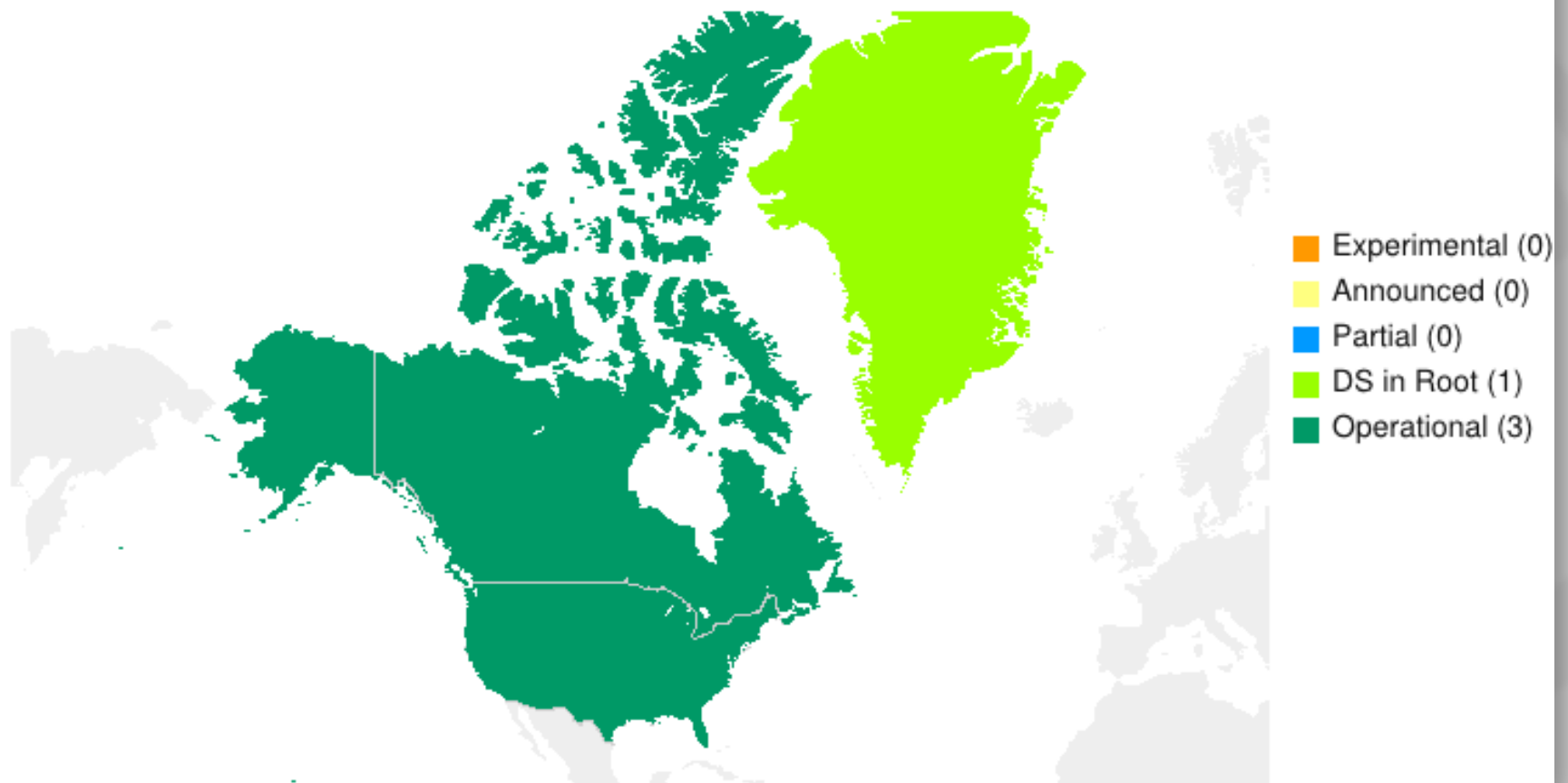
AF ccTLD DNSSEC Status on 2014-10-14

Experimental (4)
Announced (3)
Partial (2)
DS in Root (4)
Operational (7)
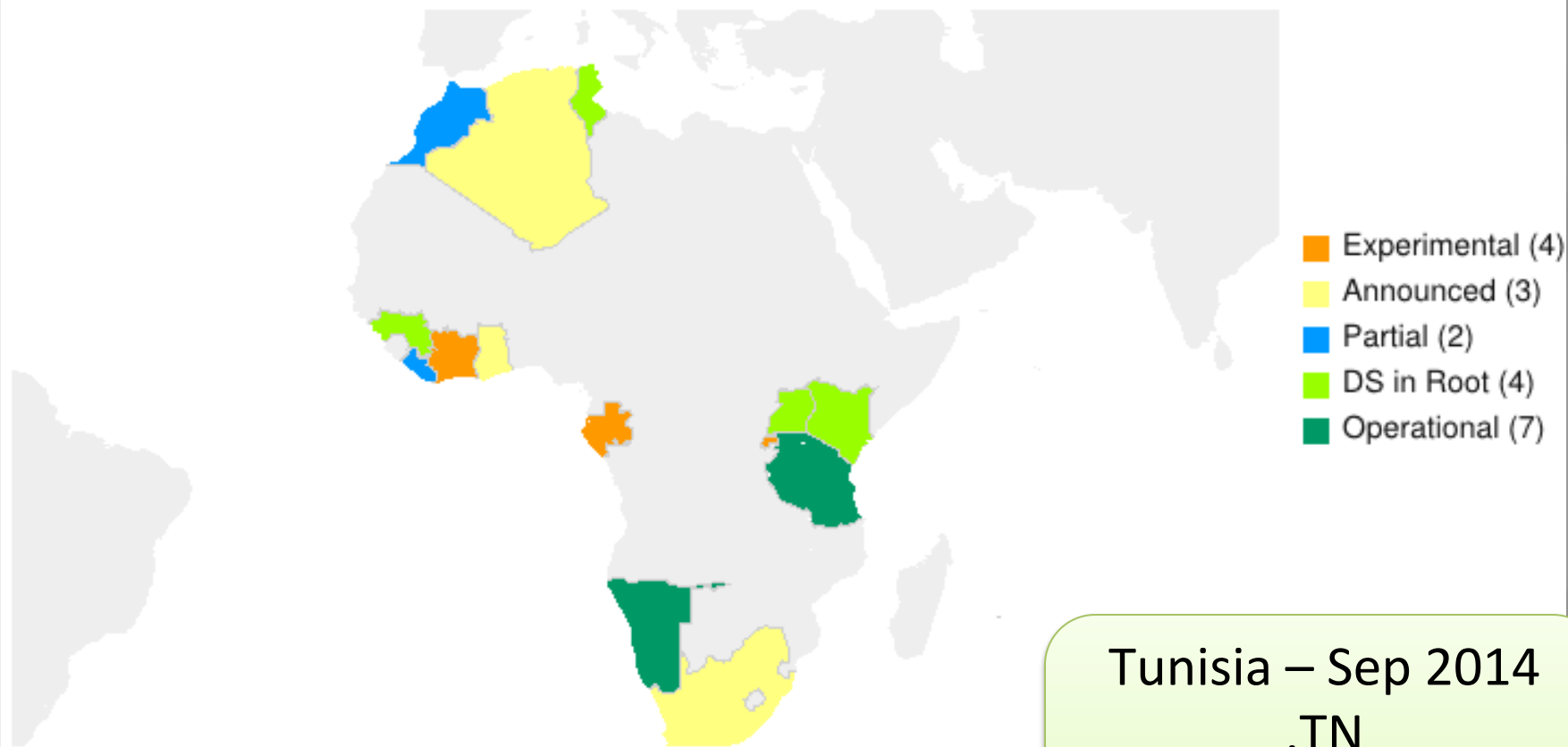
Tunisia – Sep 2014
.TN
تونس.
Updated: MU

NA ccTLD DNSSEC Status on 2014-10-14

Experimental (0)
Announced (0)
Partial (0)
DS in Root (1)
Operational (3)

LAC ccTLD DNSSEC Status on 2014-10-14

Experimental (3)
Announced (2)
Partial (1)
DS in Root (5)
Operational (9)

Updated status of:
GY, HT, MS, MX, UY

AP ccTLD DNSSEC Status on 2014-10-14

Experimental (4)
Announced (3)
Partial (1)
DS in Root (12)
Operational (18)
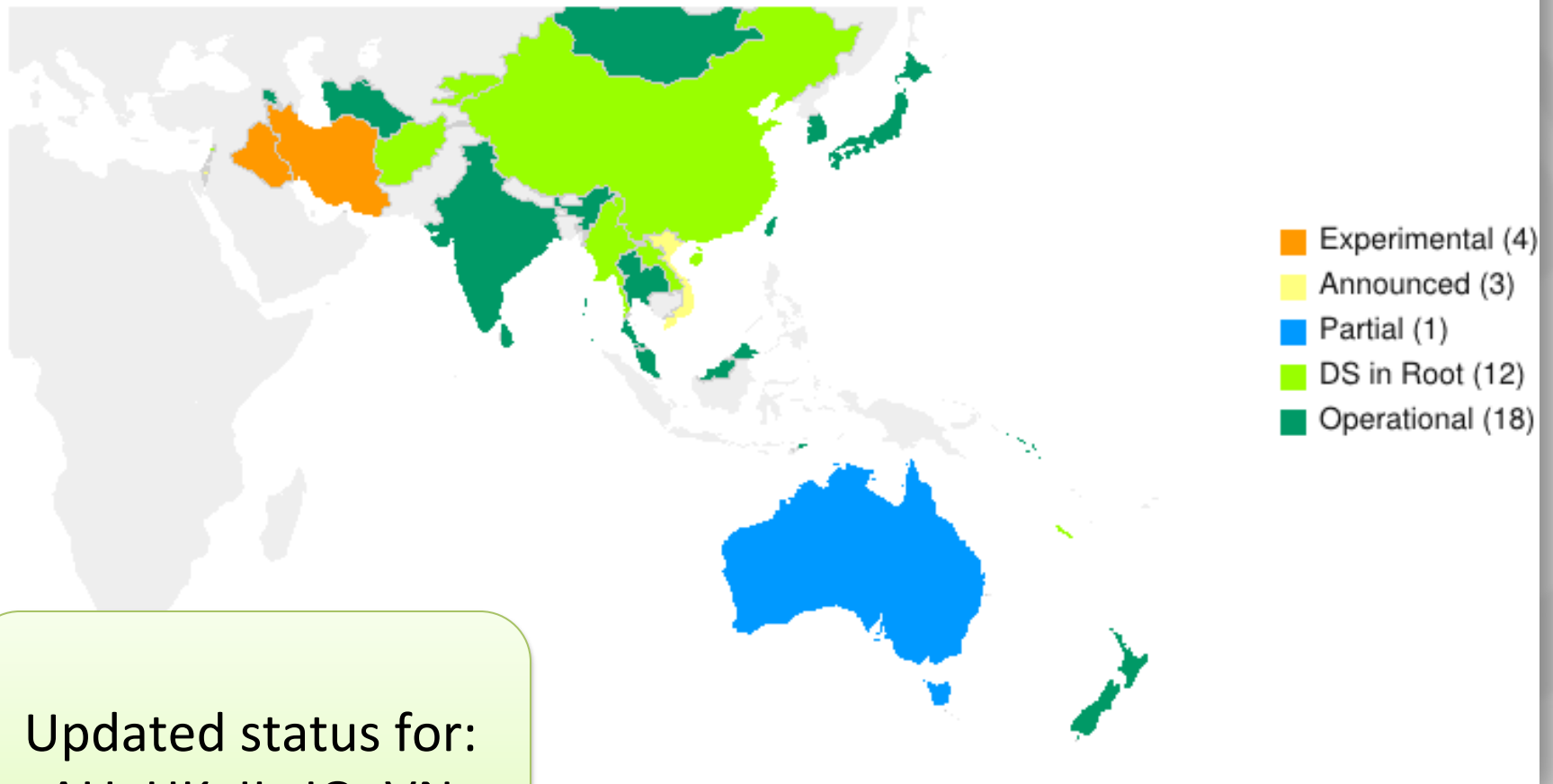
Updated status for:
AU, HK, IL, IQ, VN

EUR ccTLD DNSSEC Status on 2014-10-14

Experimental (0)
Announced (3)
Partial (1)
DS in Root (7)
Operational (25)
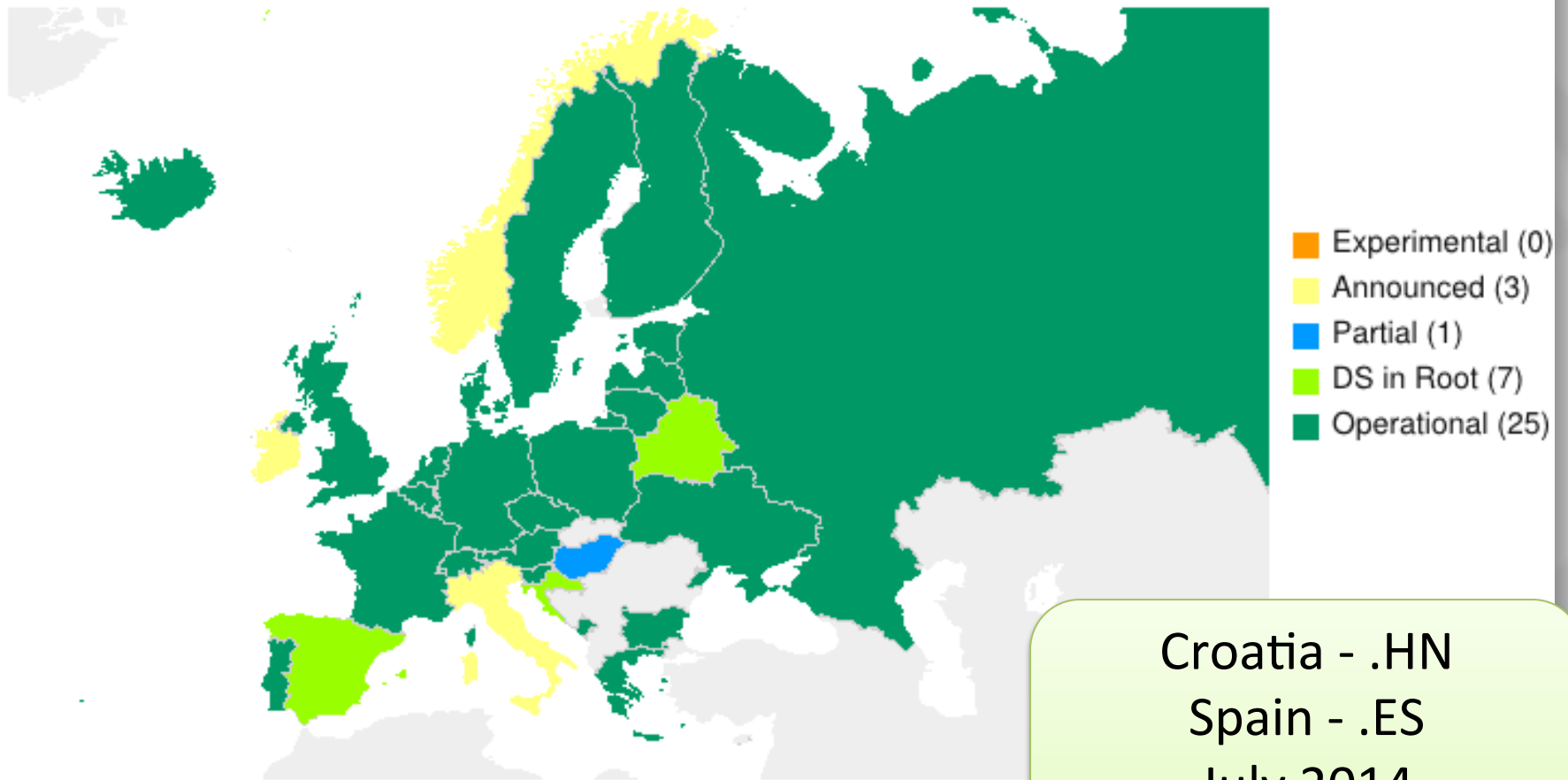
Croatia - .HN
Spain - .ES
July 2014
Updated: HU

DNSSEC Maps – Next Steps

With so many ccTLDs signed, next phase:

- Seeking to dive deeper into signed second-level domains

- Seeking to visualize DNSSEC status of generic TLDs (gTLDs) and number of signed second-level domains

Working to make code open source:

- https://github.com/Deploy360/dnssec-maps/issues

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/

DNSSEC History Project

The DNSSEC History Project is an ongoing project to collect and record the history of the work that went into bringing about the deployment of DNSSEC. To view – or to contribute – please see:

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

Thank You and Questions

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