

DNSSEC
Deployment Around the
World
Counts, Counts, Counts
July 2013
Steve Crocker, Shinkuro, Inc.

TLD DNSSEC Implementation Status

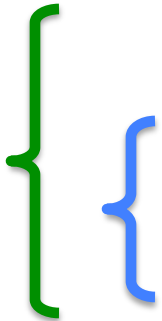
Experimental – internal experiments

Announced – Public commitment to deploy

Partial – Zone is signed but not in operation

DS in Root

Operational – Accepting signed delegations



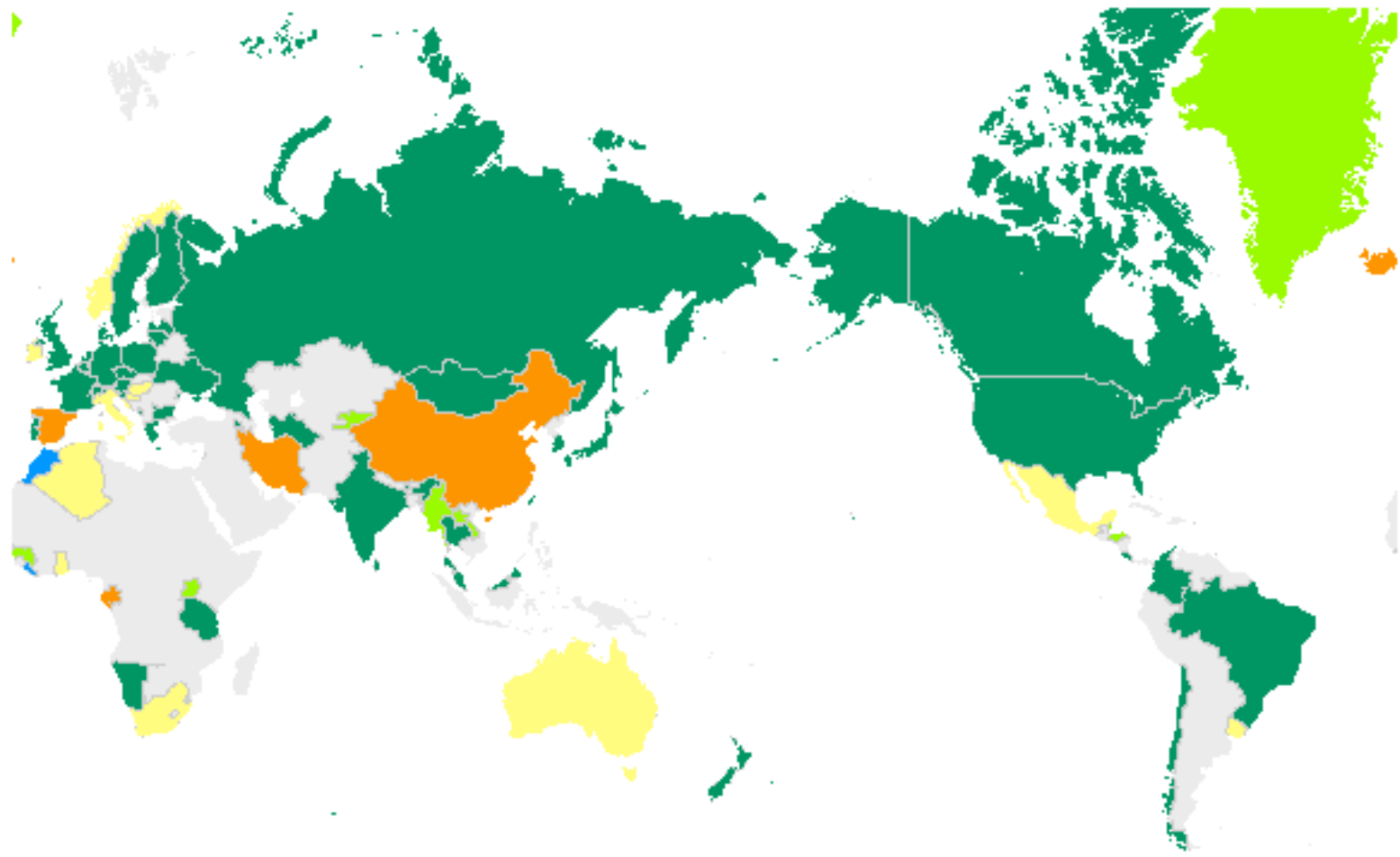
The TLDs – DS or Operational

Current

	gTLD	ccTLD	Regional	Test	Total
Classic	14(25)	74(248)	2(2)		90(275)
IDN	0(0)	7(38)		11(11)	18(49)
Total	14(25)	81(286)	2(2)	11(11)	108(324)

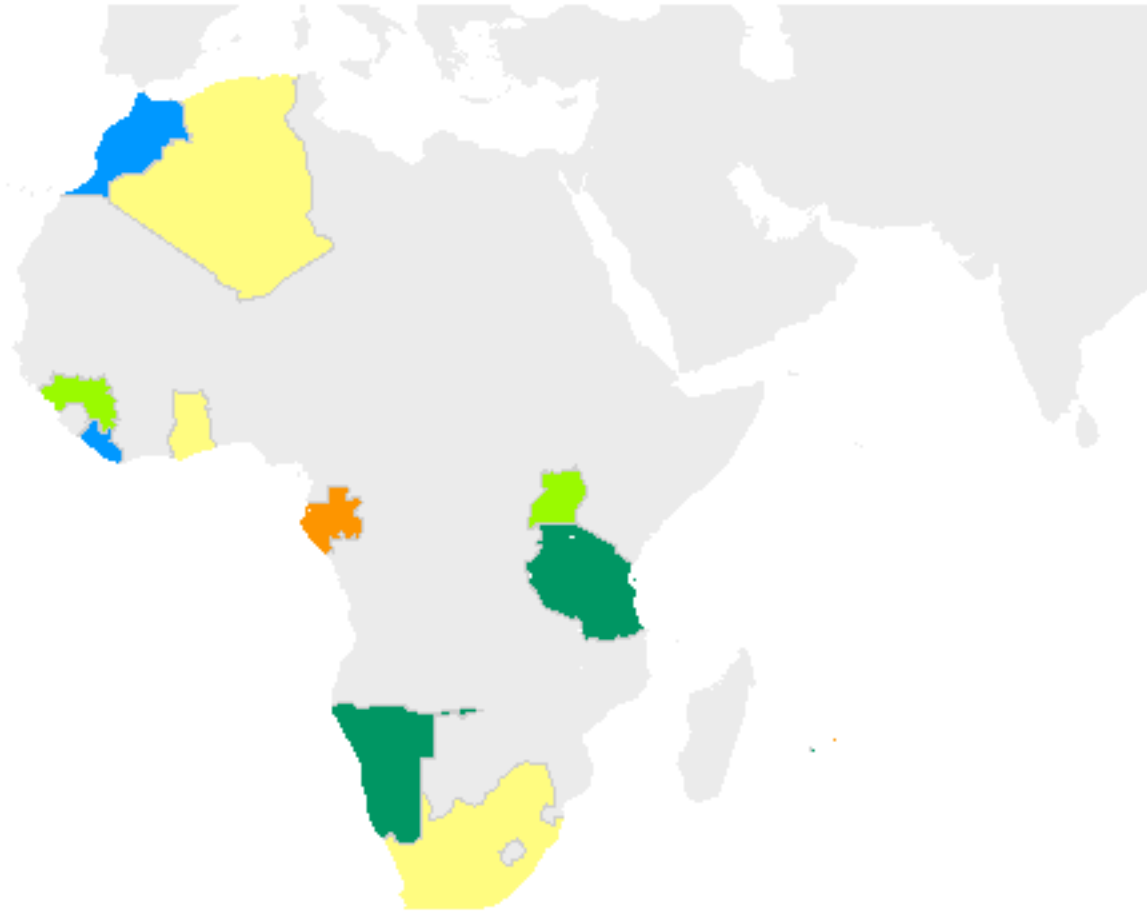
- Measured: July 1, 2013
- Status: DS in the Root or Operational
- “Regional” is SU and EU, i.e. not associated with a single country but operating under ccTLD rules.

ccTLD DNSSEC Status on 2013-07-01



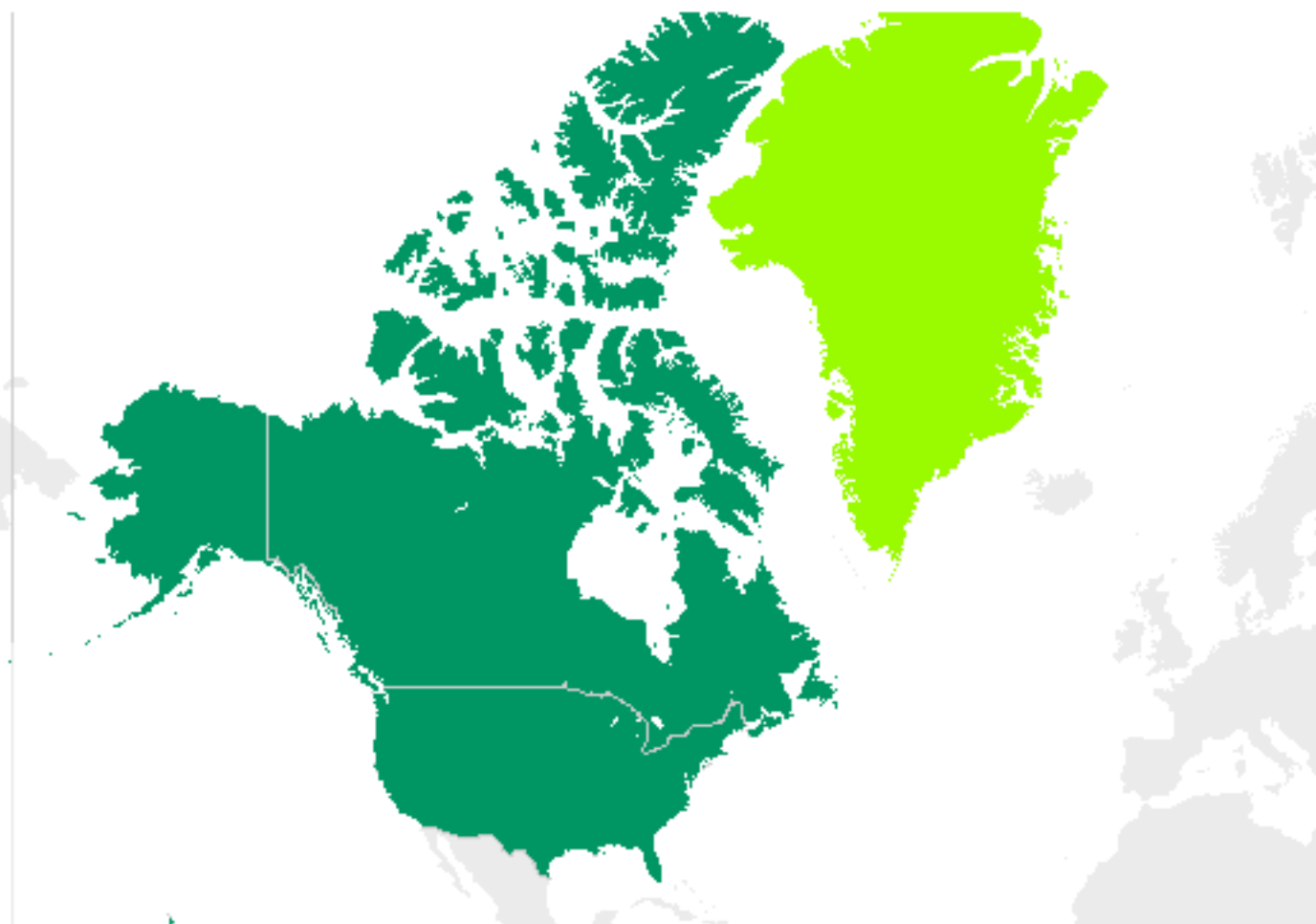
- Experimental (7)
- Announced (13)
- Partial (3)
- DS in Root (20)
- Operational (54)

AF ccTLD DNSSEC Status on 2013-07-01



- Experimental (2)
- Announced (3)
- Partial (2)
- DS in Root (2)
- Operational (7)

NA ccTLD DNSSEC Status on 2013-07-01

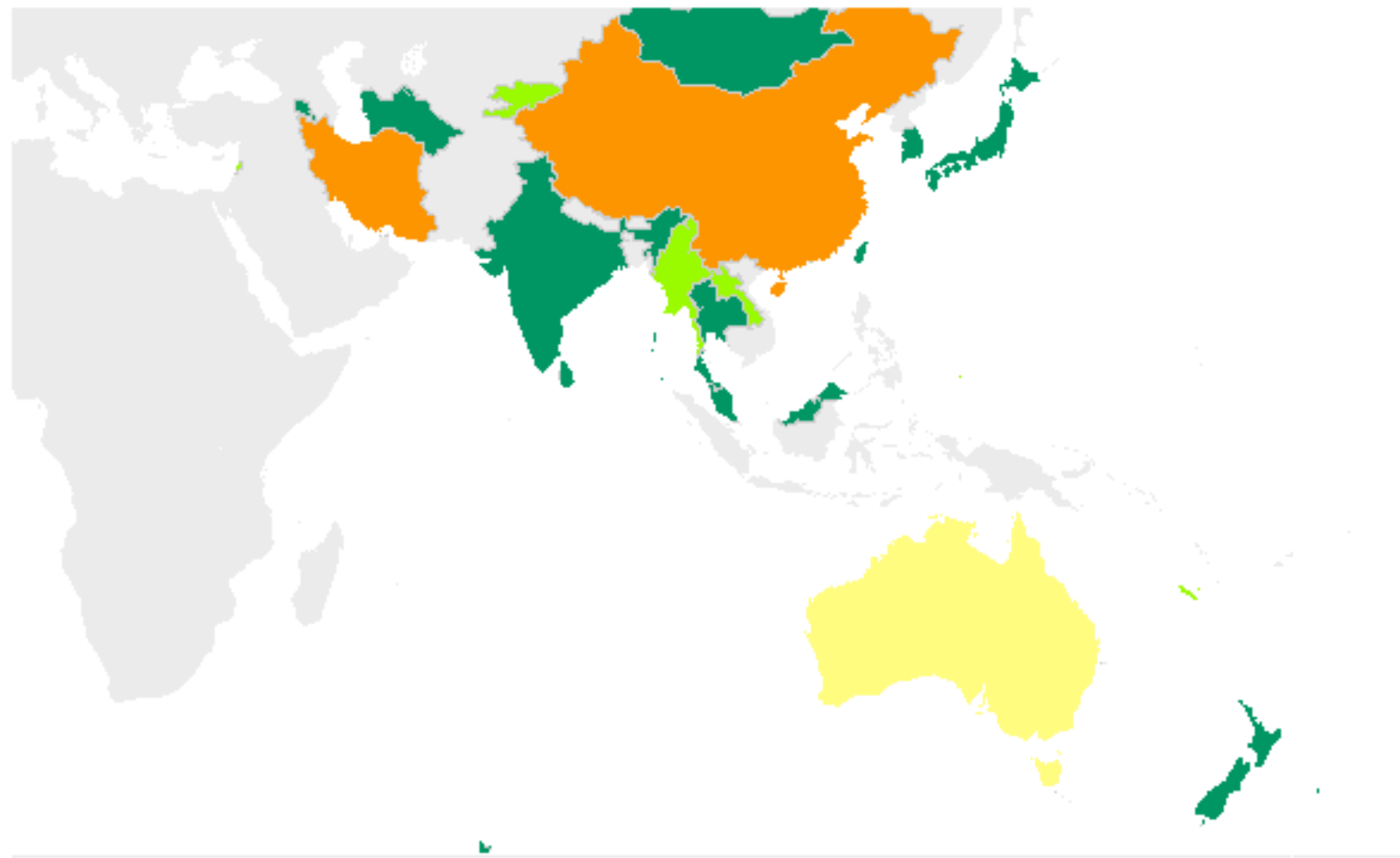


- Experimental (0)
- Announced (0)
- Partial (0)
- DS in Root (1)
- Operational (3)

LAC ccTLD DNSSEC Status on 2013-07-01

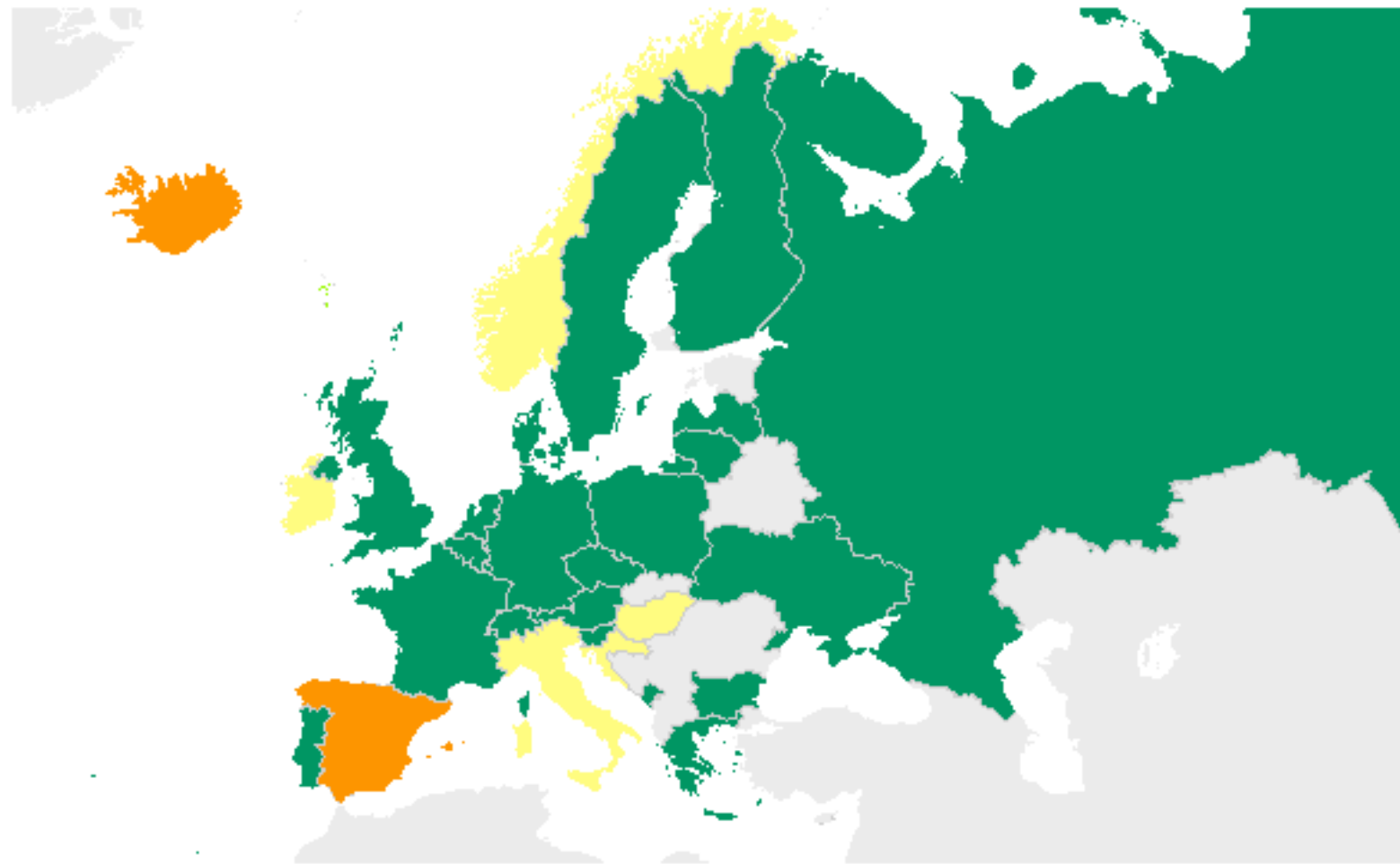


AP ccTLD DNSSEC Status on 2013-07-01



- Experimental (3)
- Announced (3)
- Partial (0)
- DS in Root (11)
- Operational (14)

EUR ccTLD DNSSEC Status on 2013-07-01



- Experimental (2)
- Announced (5)
- Partial (0)
- DS in Root (2)
- Operational (23)

Thank You and Questions

Algorithm Signaling - a new feature in DNSSEC

July 2013

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Transition to a new algorithm

- To transition from one algorithm to another, the zone must be signed with both algorithms.
- After a while, it will be ok to stop signing with the old algorithm.
- How long is “a while”?
- Need to know when most resolvers understand the new algorithm.

RFC 6975

- RFC 6975 just published
- Adds information in the query about what algorithms the validator understands
- Will make it easier to tell when enough resolvers understand a new algorithm
- Next steps: implement in resolvers and then
- Measure readiness for new algorithms

We will discuss more fully
in Buenos Aires