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
DNSSEC Implementer’s Gathering Sponsors

The Program Committee held a gathering for DNSSEC Implementers on 23 June, sponsored by NominetUK.
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830-0900</td>
<td>Presentation: Dan York, Internet Society: <em>DNSSEC Workshop Introduction, Deployment Around the World, 2014 View of Challenges to DNSSEC Deployment and Usage</em></td>
</tr>
<tr>
<td>0900-1000</td>
<td>Panel Discussion: DNSSEC Activities in the European Region</td>
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<tr>
<td>1000-1030</td>
<td>Presentation: Jim Galvin, Afilias -- <em>DNSSEC Key Rollovers and Transfers</em></td>
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<tr>
<td>1030-1045</td>
<td>Break</td>
</tr>
<tr>
<td>1045-1115</td>
<td>Presentation: Nick Sullivan, Cloudflare -- <em>DNSSEC and DNS Proxying</em></td>
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<tr>
<td>1115-1200</td>
<td>Panel Discussion: Hardware Security Modules (HSMs) Benefits and Challenges</td>
</tr>
<tr>
<td>1200-1230</td>
<td>Presentation: Haya Shulman, Technische Universität Darmstadt -- <em>Operational Realities of Running DNSSEC/Cipher-Suite Negotiation Mechanism</em></td>
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<tr>
<td>1230-1330</td>
<td>Lunch Break: Roy Arends, NominetUK – Great DNS Quiz</td>
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<tr>
<td>1330-1445</td>
<td>Panel Discussion/Demonstrations: DANE and DNSSEC Applications</td>
</tr>
</tbody>
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DNSSEC Deployment Around the World

Counts, Counts, Counts

June 2014

Dan York, Internet Society
Sat Jun 21 23:17:57 UTC 2014
Total TLDs: 628 / Signed TLDs in root: 433 / Recently added: bmw.
(06/21/2014)

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

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experimental</td>
<td>Internal experiments</td>
</tr>
<tr>
<td>Announced</td>
<td>Public commitment to deploy</td>
</tr>
<tr>
<td>Partial</td>
<td>Zone is signed but not in operation</td>
</tr>
<tr>
<td>DS in Root</td>
<td></td>
</tr>
<tr>
<td>Operational</td>
<td>Accepting signed delegations</td>
</tr>
</tbody>
</table>
The TLDs – DS or Operational

Current

<table>
<thead>
<tr>
<th>Classic</th>
<th>gTLD</th>
<th>ccTLD</th>
<th>Regional</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>304(315)</td>
<td>94(247)</td>
<td>2(2)</td>
<td>400(564)</td>
<td></td>
</tr>
<tr>
<td>IDN</td>
<td>27(29)</td>
<td>10(39)</td>
<td></td>
<td>37(68)</td>
</tr>
<tr>
<td>Total</td>
<td>331(334)</td>
<td>104(286)</td>
<td>2(2)</td>
<td>437(632)</td>
</tr>
</tbody>
</table>

• Measured: June 23, 2014
• Status: DS in the Root or Operational
• “Regional” is SU and EU
• IDN count is currently incorrect. 94 IDNs are in database. Working to fix before ICANN 51.
AF ccTLD DNSSEC Status on 2014-06-23

- **Experimental (3)**
- **Announced (3)**
- **Partial (2)**
- **DS in Root (3)**
- **Operational (8)**
NA ccTLD DNSSEC Status on 2014-06-23

- Experimental (0)
- Announced (0)
- Partial (0)
- DS in Root (1)
- Operational (3)
LAC ccTLD DNSSEC Status on 2014-06-23
AP ccTLD DNSSEC Status on 2014-06-23
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/
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