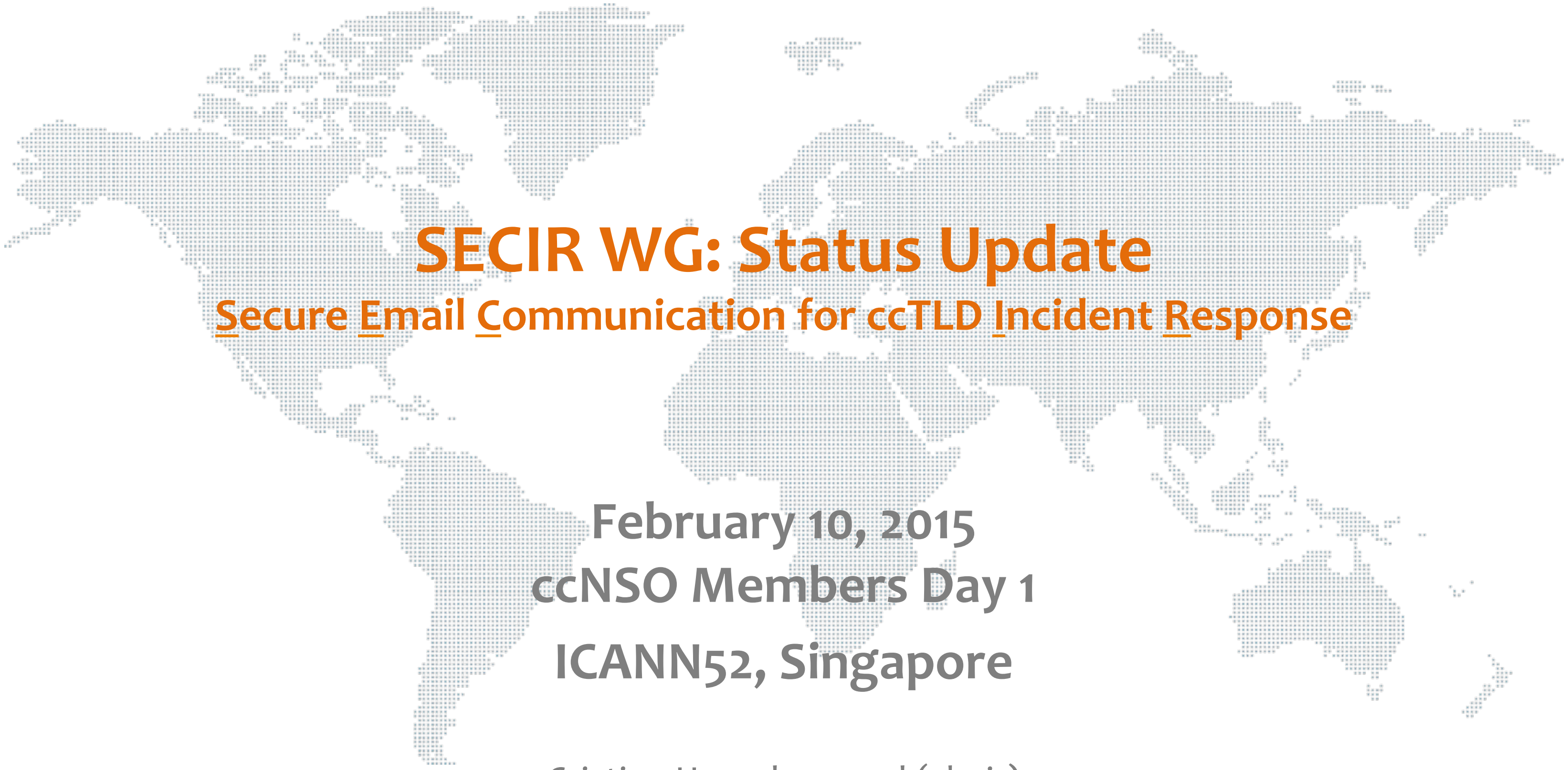


SECIR WG: Status Update

Secure Email Communication for ccTLD Incident Response

February 10, 2015

ccNSO Members Day 1

ICANN52, Singapore

Cristian Hesselman, .nl (chair)

WG Objectives

- Implement version 1.0 of a ccTLD Contact Repository
  - Enable ccTLDs to quickly and easily obtain each other's contact details
  - Exchange rudimentary incident messages

- Based on a mailing list
  - Globally accessible and easy to use
  - Development and operational costs near zero (CRI survey, Dec 2013)
  - Possibility to interface with similar systems at Regional Organizations

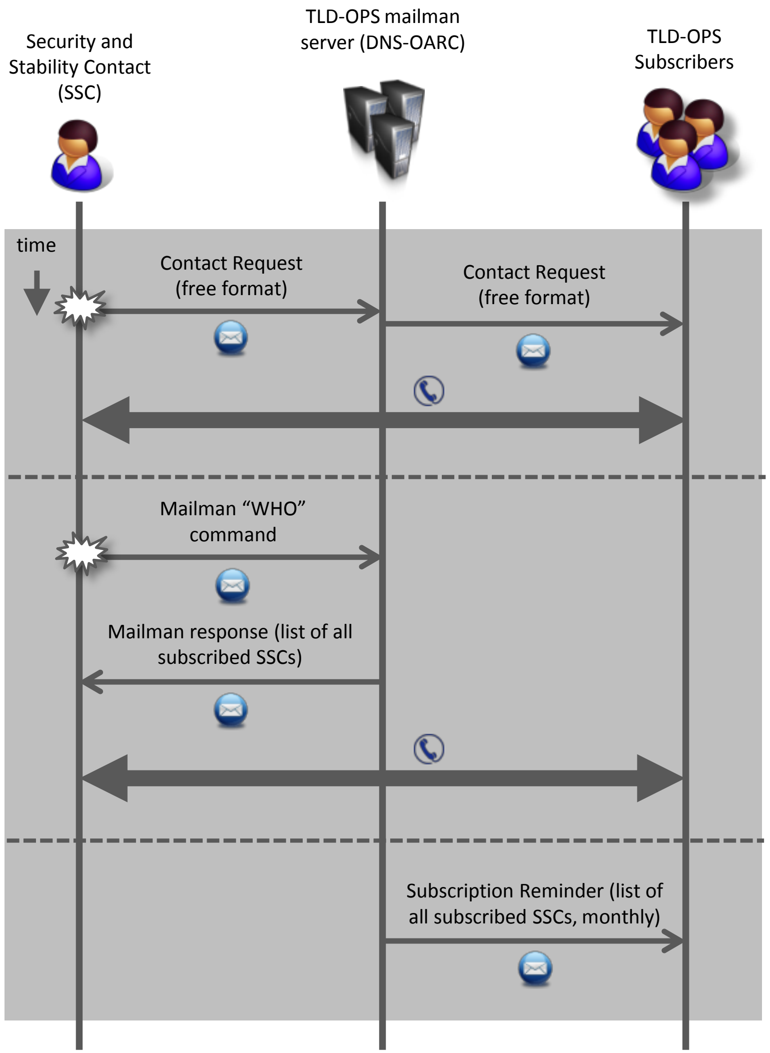
- Expected impact
  - Improved handling of incidents that require a coordinated response of ccTLDs at the global level
  - Such as targeted attacks on or malfunctions of registration systems, the DNS, or the Internet at large

- Contact Repository explicitly open to non-ccNSO members

TLD-OPS Mailing List

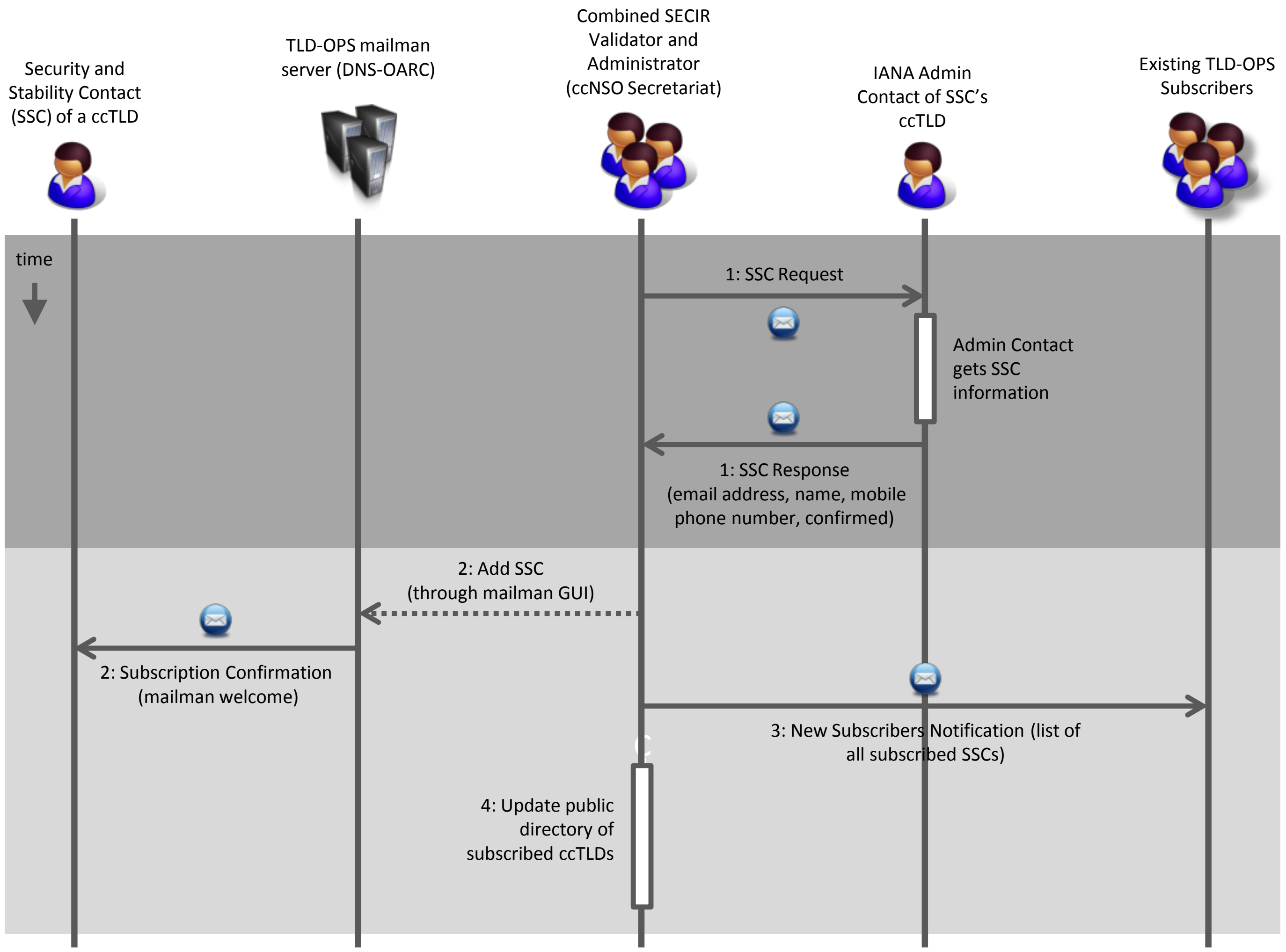
- Address: tld-ops@lists.dns-oarc.net
- Set up back in 2004 for similar purposes, but mostly dormant
- Members: “Security and Stability Contacts” (SSCs) of ccTLDs
- IANA Admin Contact appoints/authenticates SSCs
- May be used to exchange incident info, but not recommended
- ccNSO Secretariat is the Administrator
- DNS-OARC hosts the server (“neutral ground”)

TLD-OPS Usage



Security and Stability Contact (SSC)
TLD-OPS mailman server (DNS-OARC)
TLD-OPS Subscribers
time
Contact Request (free format)
Contact Request (free format)
Mailman “WHO” command
Mailman response (list of all subscribed SSCs)
Subscription Reminder (list of all subscribed SSCs, monthly)

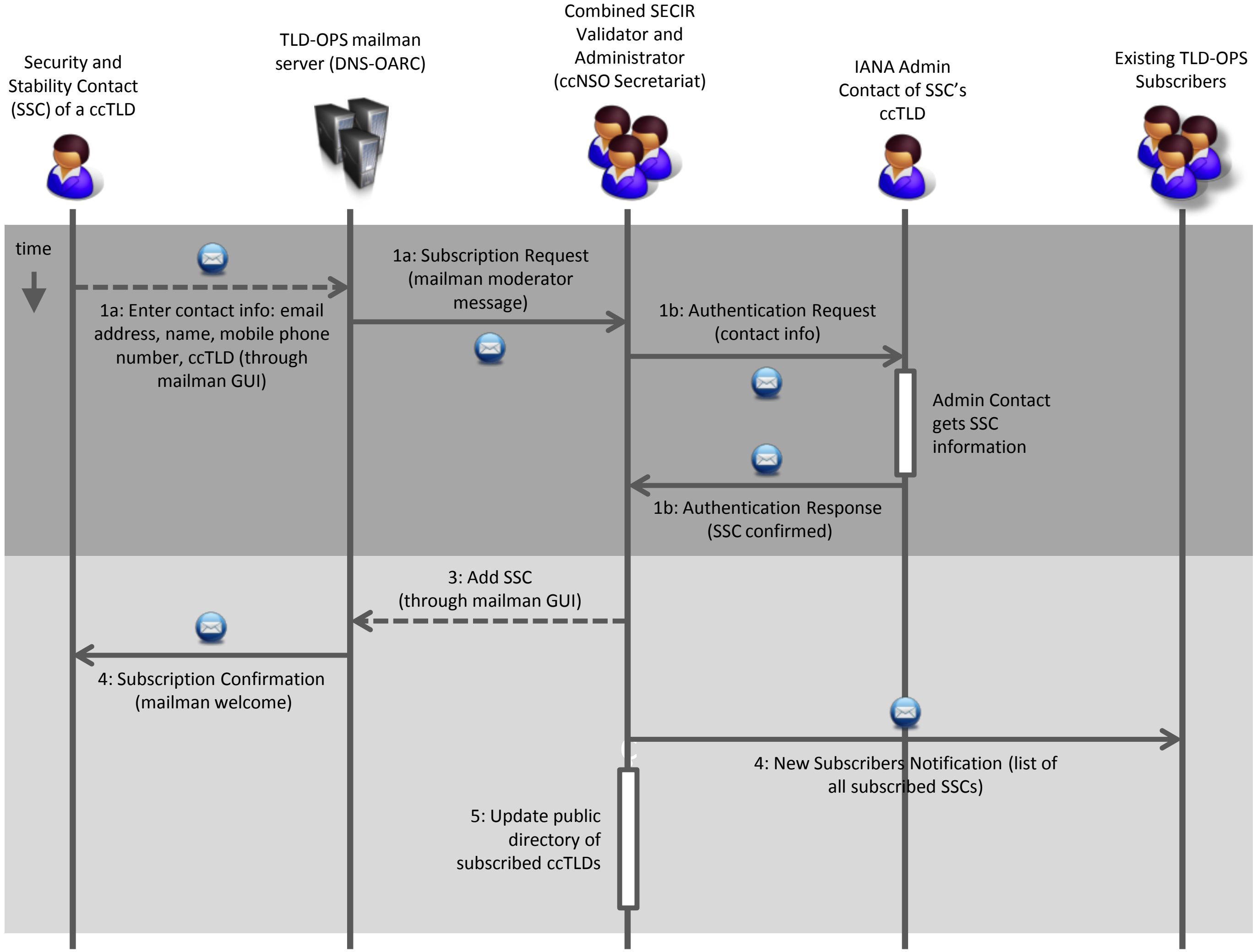
TLD-OPS Subscription Procedure



Security and Stability Contact (SSC) of a ccTLD
TLD-OPS mailman server (DNS-OARC)
Combined SECIR Validator and Administrator (ccNSO Secretariat)
IANA Admin Contact of SSC's ccTLD
Existing TLD-OPS Subscribers
time
1: SSC Request
Admin Contact gets SSC information
1: SSC Response (email address, name, mobile phone number, confirmed)
2: Add SSC (through mailman GUI)
2: Subscription Confirmation (mailman welcome)
3: New Subscribers Notification (list of all subscribed SSCs)
4: Update public directory of subscribed ccTLDs

ccNSO SECIR WG

TLD-OPS Subscription Procedure (SSC-initiated)



Security and Stability Contact (SSC) of a ccTLD

TLD-OPS mailman server (DNS-OARC)

Combined SECIR Validator and Administrator (ccNSO Secretariat)

IANA Admin Contact of SSC's ccTLD

Existing TLD-OPS Subscribers

time

1a: Enter contact info: email address, name, mobile phone number, ccTLD (through mailman GUI)

1a: Subscription Request (mailman moderator message)

1b: Authentication Request (contact info)

Admin Contact gets SSC information

1b: Authentication Response (SSC confirmed)

3: Add SSC (through mailman GUI)

4: Subscription Confirmation (mailman welcome)

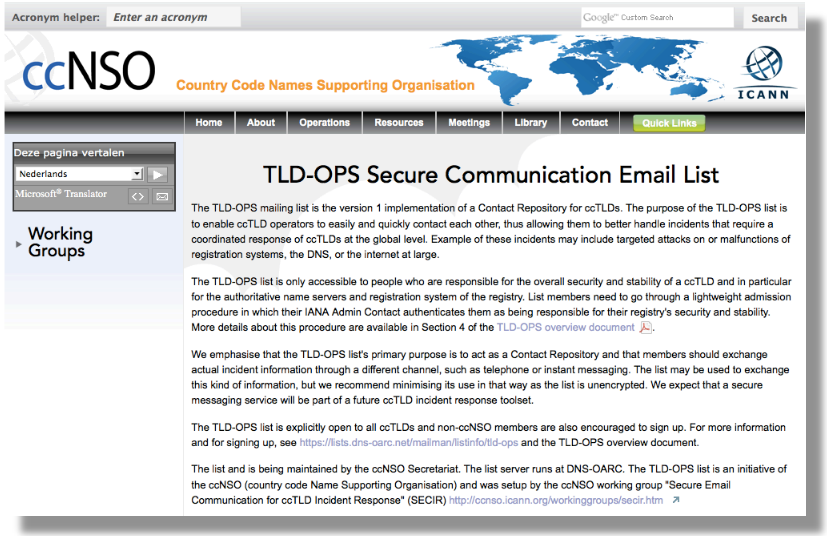
4: New Subscribers Notification (list of all subscribed SSCs)

5: Update public directory of subscribed ccTLDs

Status

- Invited first batch of ccTLDs to evaluate subscription procedure
  - WG members: **.br**, **.ca**, **.dk**, **.nl**, .tw, and **.tz**
  - And five more, with one ccTLD per region: **.co**, .jp, .uk, .us, and .za

- TLD-OPS page on ccNSO site available
  - http://ccnso.icann.org/resources/tld-ops-secure-communication.htm
  - Links to TLD-OPS overview document with more info



TLD-OPS Secure Communication Email List

The TLD-OPS mailing list is the version 1 implementation of a Contact Repository for ccTLDs. The purpose of the TLD-OPS list is to enable ccTLD operators to easily and quickly contact each other, thus allowing them to better handle incidents that require a coordinated response of ccTLDs at the global level. Example of these incidents may include targeted attacks on or malfunctions of registration systems, the DNS, or the internet at large.

The TLD-OPS list is only accessible to people who are responsible for the overall security and stability of a ccTLD and in particular for the authoritative name servers and registration system of the registry. List members need to go through a lightweight admission procedure in which their IANA Admin Contact authenticates them as being responsible for their registry's security and stability. More details about this procedure are available in Section 4 of the TLD-OPS overview document.

We emphasise that the TLD-OPS list's primary purpose is to act as a Contact Repository and that members should exchange actual incident information through a different channel, such as telephone or instant messaging. The list may be used to exchange this kind of information, but we recommend minimising its use in that way as the list is unencrypted. We expect that a secure messaging service will be part of a future ccTLD incident response toolset.

The TLD-OPS list is explicitly open to all ccTLDs and non-ccNSO members are also encouraged to sign up. For more information and for signing up, see https://lists.dns-oarc.net/mailman/listinfo/tld-ops and the TLD-OPS overview document.

The list and is being maintained by the ccNSO Secretariat. The list server runs at DNS-OARC. The TLD-OPS list is an initiative of the ccNSO (country code Name Supporting Organisation) and was setup by the ccNSO working group "Secure Email Communication for ccTLD Incident Response" (SECIR) http://ccnso.icann.org/workinggroups/secir.htm ↗

Next Steps

- Invite the rest of the community
- Detail interaction with similar lists at Regional Organizations
- Schedule outreach activities
- SECIR roadmap: our recommendation on how to move forward
- Evaluation (around May)
  - Number of TLD-OPS subscribers
  - Perceived added value of TLD-OPS list
- Write-up of Final Report and closing of the WG (around ICANN53)

Q&A

SECIR WG Members
Frederico Neves, .br
Jacques Latour, .ca
Erwin Lansing, .dk
Cristian Hesselman, .nl (chair)
Geng-Da Tsai, .tw
Abibu Ntahigiye, .tz

ICANN Staff
Gabriella Schittek

SECIR Home
http://ccnso.icann.org/workinggroups/secir.htm

TLD-OPS Home
http://ccnso.icann.org/resources/tld-ops-secure-communication.htm

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