

DS Updates and Multi-Signer Coordination

ICANN “KL” Virtual DNSSEC Workshop, 22 June 2020

Shumon Huque & Steve Crocker

Today's Panel: Registries, Registrars and DNS Providers

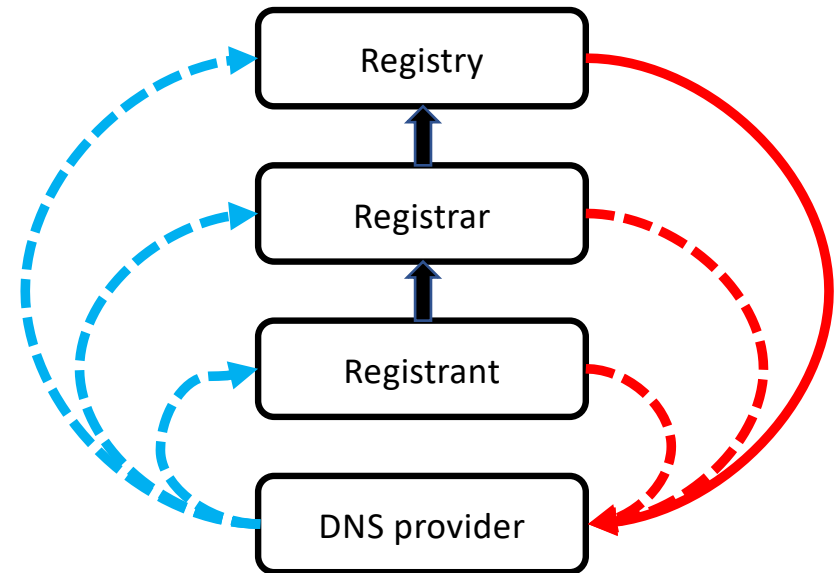
- Automated Cross-Signing
 - Huque, Aras, Dickinson, Vcelak, Blacka: **Multi Signer DNSSEC models**
 - Our focus today: Model 2, i.e. each provider signs with its own keys
- Automated DS updates from 3rd party providers
 - CDS and CDNSKEY publication (“pull”) seem to be most common
 - This approach appears to bypass the registrar. Is this ok?
- What are the next steps for complete automation?
- What are the impediments?

Panelists

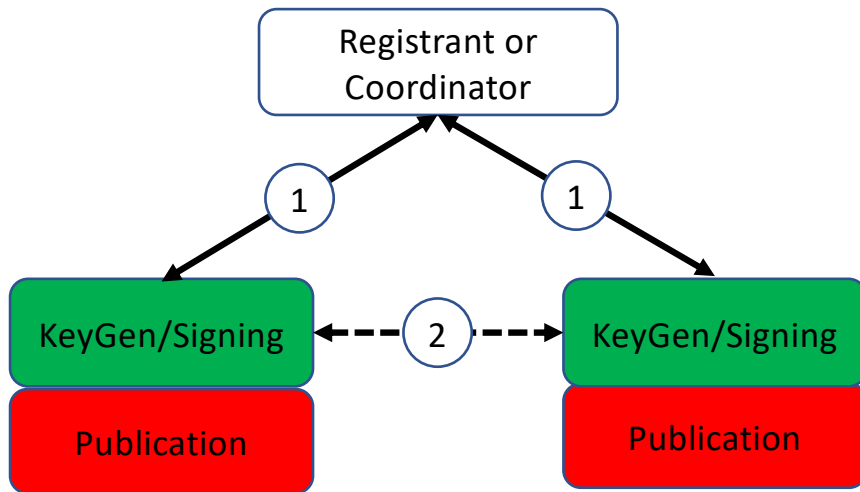
Panelists	Registrant	Registrar	DNS Provider	Registry
Steve Crocker	Shinkuro, Inc.			
Shumon Huque	SalesForce			
Paul Ebersman			Neustar	
Brian Dickson		GoDaddy		
Jothan Frakes		PLISK		
Jaromír Talíř				CZNIC
Oli Schacher				SWITCH

Conveying the DS key from 3rd party DNS Provider

	Direction	
Upper Side	Push (Calling)	Pull (Polling) DNS Provider publishes CDS and/or CDNSKEY
Registry		RFC 8078
Registrar	(Need API)	
Registrant		Manual



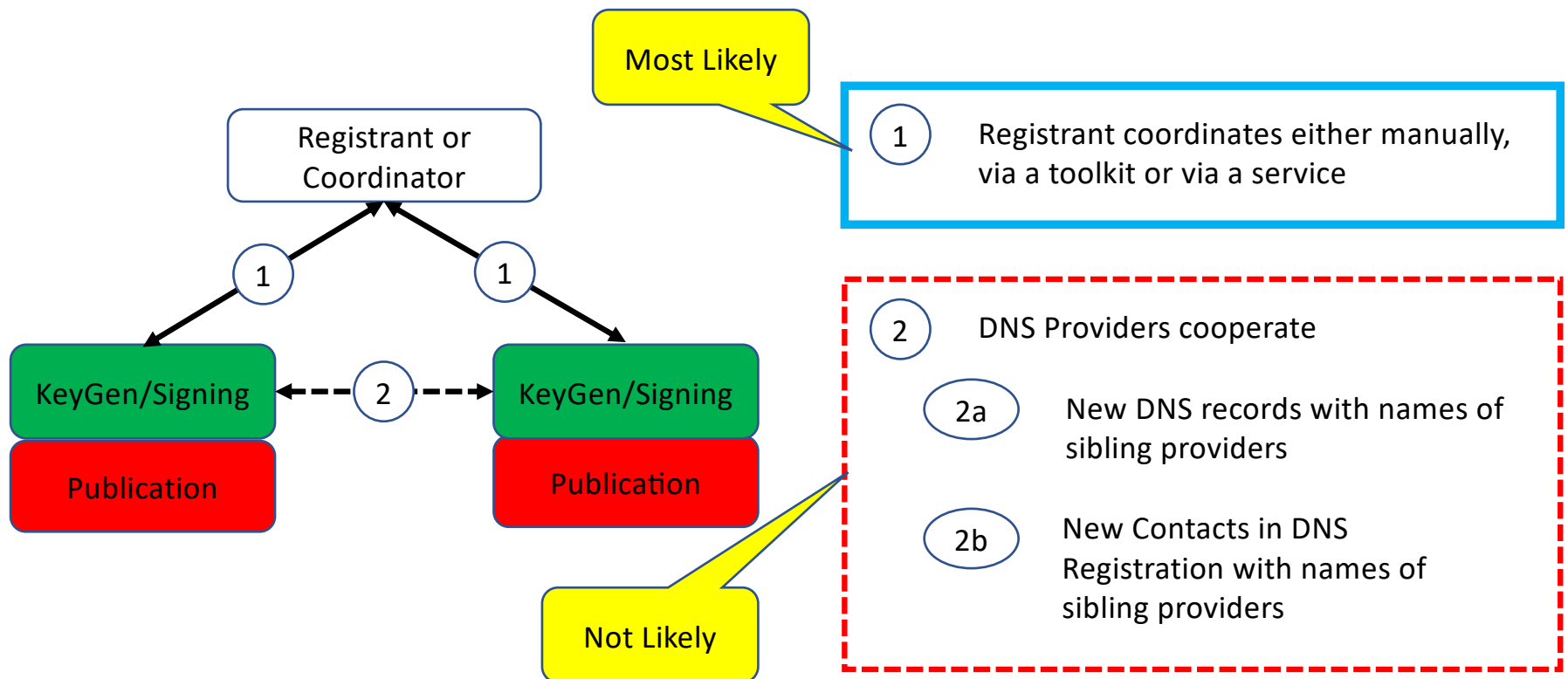
Cross-Signing: Communicating ZSKs



1 Registrant coordinates either manually, via a toolkit or via a service

- 2 DNS Providers cooperate
- 2a New DNS records with names of sibling providers
 - 2b New Contacts in DNS Registration with names of sibling providers

Cross-Signing: Communicating ZSKs



How to Get Involved

- Dnssec-provisioning@shinkuro.com is a design team mailing list
(Send mail to steve@shinkuro.com)