

Jp

1



DNSSEC in .JP

October 28, 2009 Hiro Hotta JPRS (.jp)

Copyright © 2009 Japan Registry Services Co., Ltd.

2

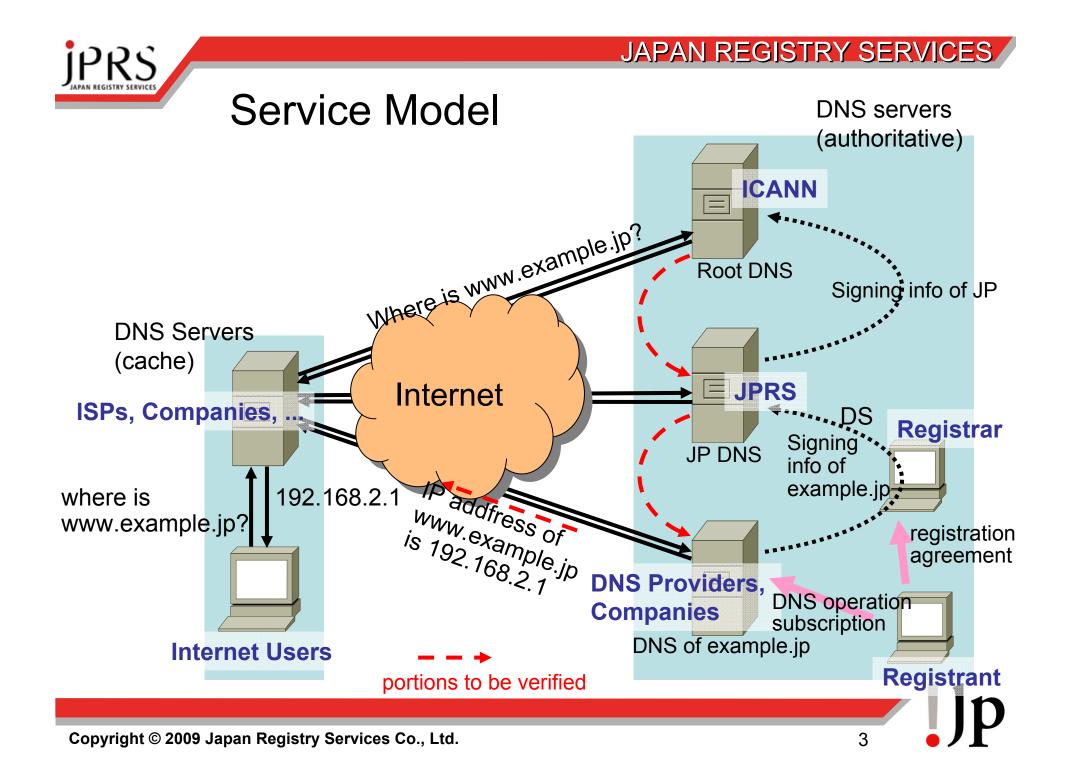


DNSSEC

Statement issued by JPRS

http://jprs.co.jp/en/topics/2009/090709.html

- is the most effective and feasible current solution against the security threats caused by frauds of DNS responses
- will be launched by the end of 2010
- Cooperative actions by related parties needed
 - Operators of authoritative DNS servers
 - DNSSEC be introduced into all the layers of DNS
 - Operators of cache DNS servers
 - Validation be done by cache DNS servers in ISPs, Companies, ...
 - Domain name Registrars
 - Relevant information of domain names be channeled from Registrants (or DNS provider on behalf of them) to Registry
 - Internet users
 - had better know what DNSSEC does for them





Three major aspects for DNSSEC introduction

- technical verification
 - 6 stepwise steps designed to involve following players
 - Registry
 - Secondary authoritative DNS operators
 - Registrars
 - DNS providers (ISPs, Companies, ...)
 - DNS cache operators (ISPs, Companies, ...)
 - System integrators
 - Hardware/Software (Routers, ...) vendors
- education + persuasion
 - various players above must be well educated and persuaded for them to be involved in DNSSEC
- system development
 - registry, registrar, DNS providers, ...



Cost consideration

- Cost for implementation and operation
 - charged service or charge-free service ?
 - by registry
 - by registrars
 - by DNS providers
 - by ISPs
 - aiming at "charge-free" for Registrants and Internet users
- More consideration/arrangements needed
 - for customers to be motivated
 - for operators to be motivated

5



Roles of the Registry (especially, 'cc')

- implement a DNSSEC-enabled registry system and operate authoritative DNS servers
- help registrars handle DNSSEC by giving information (in their language) and technical support (including software kit to handle DNSSEC)
- help DNS providers handle DNSSEC by giving information (in their language) and technical support (including software kit to handle DNSSEC)
- solicit influential users (e.g., banks) to stimulate the registrants/users

==> not just for the 'cc' but for all the domain names

Copyright © 2009 Japan Registry Services Co., Ltd.

D



What JPRS is doing now

- technical verification of DNS in cooperation with various players
 - one year project
- development of registry system
 - will conduct co-testing with various players
- education
 - Registrars, ISPs, users, ...
- creation of an organization for DNSSEC promotion
 - working mainly with DNS operators, at first

(from now on)

 information sharing with various registries, registrars, ...