## to TLD Registries in Japan Regulatory Demands

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## Background (1/2)

as of 2015 when regulation of DNS began to be discussed

- Growth of Internet and DNS usage
- Internet User penetration 70.8 -> 82.8% (2005 -> 2013)
- **DNS** queries 5 times more
- (2005 -> 2013)

- Number of TLDs
- ~300 -> ~900 (2013 -> 2015)
- TLD operators with less experience are emerging
- Complexity of DNS operation
- Bigger zone
- More frequent zone update
- More DNS server instances
- More cautions needed in operations (e.g., due to DNSSEC)

(reference: government's presentation in 2015)

## Background (2/2)

- Major demands regarding infrastructure
- (1) Service stability
- (2) Financial stability
- (3) Policy stability
- Regulation in Japan (Telecommunications Business Act) demands (1) and (2) to be secure
- infrastructure", DNS got caught up in this regulation Based on the idea that "DNS has become important as part of the
- All the discussion was done under government Telecommunications Council
- As a result, not only ccTLD registry but also geo TLD registries became the scope of the Act



# Operators subject to the regulation

- Operators who provides "specified domain name telecommunication services" were subject to the regulation
- Operators who provide resolution services for authoritative DNS services of ccTLD (.jp) and other geo TLD Registries
- Operators who provides resolution services for authoritative DNS services for more than 0.3 mil sub domain names

## Impact on TLD registries

- Who are named by the amended law
- JPRS (.jp)
- GMO Registry, Inc. (.nagoya, .tokyo, .yokohama)
- BRregistry, Inc. (.okinawa)
- Osaka Registry Co., Ltd. (.osaka)
- What obligations (below are principal ones)
- Reporting significant accidents to gov.
- Significant DNS failure (at the time of accident without delay)
- Less significant failure (quarterly)
- Publication of financial accounting statements (every year)

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### Impact to JPRS

### Small Impacts

- Publication of financial accounting statements
- Documentation of administrative rules ....
- ightarrow already documented before the new regulation

### Big Impact

- Reporting significant accidents to government
- → Define the workflow and the scope of information collection & reporting
- ightarrow Contracts with outsource DNS operators need to be amended for Registry to be able to impose SLAs and reporting responsibility on them

#### Overall

- acceptable to JPRS In a sense, this regulation currently put was somewhat
- What we had been doing was the demand given by the law
- What Registries must do was publicly defined for the first time
- What JPRS wants to publish about the incident can be reported to a formal channel
- We need to keep alert on this slippery slope