About “JPRS” and “.jp”

12 March 2019
ccNSO Members Meeting @ Kobe
Hiro Hotta
JPRS
About JPRS

**Company Information**
- Private Company (for profit)
- Established on 26 December 2000
- Based in Tokyo (Head Office), Osaka
- 91 employees (as of 1 March 2019)

**Services**
- .JP Registry
- ICANN Accredited gTLD Registrar
- Server Certification Authority
- Registry Service Provider to gTLDs
About .JP

- Domain Names: 1,552,763 (as of 1 February 2019)
- Registrars: 600+
- Local presence required for registration
- Types of JP Domain Name
  - General-use
    - jprs.jp
    - 日本レジストリサービス.jp
  - Prefecture type
    - example.tokyo.jp
    - ドメイン名例.tokyo.jp
  - Organizational type
    - jprs.co.jp
  - Geographic type
    - exmple.chiyoda.tokyo.jp
# Number of JP Domain Names

As of 1 Feb. 2019

<table>
<thead>
<tr>
<th>Type of JP Domain Name</th>
<th>(Total: 1,552,763)</th>
</tr>
</thead>
<tbody>
<tr>
<td>General-Use JP Domain Name</td>
<td>(Total: 1,053,119)</td>
</tr>
<tr>
<td>Prefecture Type JP Domain Name</td>
<td>(Total: 11,636)</td>
</tr>
<tr>
<td>Organizational /Geographic Type JP Domain Name</td>
<td>(Total: 488,008)</td>
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</tbody>
</table>

**General-Use JP Domain Name**

- ad.jp: Members of JPNIC
- ac.jp: Universities, Technical schools, Incorporated schools
- co.jp: Incorporated companies, Limited companies
- go.jp: Government organizations, Government-affiliated organizations
- or.jp: Foundation, Aggregate corporation
- ne.jp: Network services
- gr.jp: Arbitrary organization
- ed.jp: Schools including primary, junior and senior high schools
- lg.jp: Local Government
- geo.jp: Geographic Type

(Inclusive total: 1,552,763)
History of “JPRS” and “.jp”

- **1993**: JNIC was reformed to JPNIC, a non-profit, membership-based organization.
- **2000**: JPRS was established.
- **2002**: The management and administration of the .jp top level domain was transferred from JPNIC to JPRS.
- **2008**: JP domain names surpassed 1 million.
- **2018**: JP domain names surpassed 1.5 million.

The chart illustrates the growth of JP domain names from 1993 to 2019, with separate bars for Organizational/Geographic Type, General-use, and Prefecture Type.
Status of Domain Names in Japan

• Recognition of Domain Names
  51% understand the words and meanings of “Domain Names”

• Registration experience of Domain Names
  13% have Domain Names registration experience

• Registered TLDs
  60% for 「.jp」, 50% for 「.com」,
  10% for 「.net」, less than 10% for 「.info」, 「.biz」, 「.org」, …

*According to Internet-based research.
Activities for the Growth of Understanding

Distribution of free cartoon booklet to educational institution across Japan

Cooperation to producing comic-style book “Secret of the Internet (New Edition)” as a learning material for elementary school students

Cooperation to publishing introductory book of DNS written by engineers of JPRS
Contractual framework of .JP management
- effective on 21 May 2016 -

They together have a power to replace JPRS to another depending on the assessment result.

Consultation (re. .jp oversight)

Report & Assess

contract (re. .jp oversight)

newly amended telecommunications business law

Report & Assess (about DNS operation and organization - not about registry system or Whois)

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Obligations of TLD Registries
- under amended telecommunications business law -

• TLD Registries that have to observe amended telecommunications business law
  – JPRS (.jp)
  – GMO Domain Registry (.nagoya, .tokyo, .yokohama)
  – Business Ralliart (.okinawa)
  – Interlink (.osaka)

• What obligations
  1. Making documents of internal rules for administration of their telecommunications facilities and submitting them to gov.
  2. Providing fair services without refusal
  3. Reporting significant accidents to gov.
     • Significant DNS failure (at the time of accident without delay)
     • Less significant DNS failure (quarterly)
  4. Publication of financial accounting statements (every year)
  5. ….
“.jprs” R&D Platform

.jprs is;

• gTLD operated by JPRS
• experimental environments, where we can learn lessons from realistic full-scale simulation of usage, incidents, errors, failures, …

▷ what we learn from .jprs will lead us to new designs of .jp system and operation, and further convey hints to the local and global community

• Your suggestion and cooperation to try various scenarios using .jprs is most welcome
Joint Research with Local ISPs
- example of an experiment on .jprs -

• Goal: to keep continuous access to the Internet resources
  – Provide continuous DNS resolutions, by local nodes of anycast TLD DNS of .jprs

• 8 domestic ISPs participated in the experiment
  – Each of their service area covers designated geographical areas without overlapping, and they collectively cover the whole Japan
  – The ISPs are subsidiary of regional electricity companies, thus have robust infrastructures