

Domain Suggestion API Side Meeting

IETF 106, Singapore, IETF 106

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Report from the Side Meeting

- Tuesday morning
- ~15 people in the room
- Mostly registry side people

- What's Domain Suggestion
- Why standardize an API
- Existing work
- Discussion

What's „Domain Suggestion“?

- User / Customer wishes to register a domain name
- Desired domain name is unavailable for registration, eg. because:
 - Already registered (most common case)
 - Syntactically incorrect (underscores, dots within labels, emojis, too short ...)
 - Reserved
- Instead of turning away customer, propose available alternatives
 - Related / Similar (...) to desired name

Example: nic.at work

- wunder-bar.at
- barwunder.at
- bewunderbar.at
- wunderbarshop.at
- wunderbaronline.at
- diewunderbar.at
- bar-wunder.at
- wien-wunderbar.at
- linz-wunderbar.at
- graz-wunderbar.at
- wunderbarcooler.at
- wunderbare-haut.at
- wunderbar-tulln.at
- wunderbar-leben.at
- wunderbarfrisch.at
- wunderbarebahnen.at
- bregenz-wunderbar.at
- wunderbarwertvoll.at
- wunderbargelassen.at

- Registry side of things
- Internal „typeahead“ prototype
- Website

Ergebnis der Domain-Suche

wunderbar.at	Bereits delegiert
wunderbar.co.at	Bereits delegiert
wunderbar.or.at	Bereits delegiert

Weitere Vorschläge für Sie: [i](#)

Wunschdomain finden leicht gemacht! Der nic.at Domainfinder möglichen Domainnamen inspirieren. So finden Sie bestimmte

wunder-bar.at	Noch frei	36 € Jährlich
barwunder.at	Noch frei	36 € Jährlich
bewunderbar.at	Noch frei	36 € Jährlich
wunderbarshop.at	Noch frei	36 € Jährlich
wunderbaronline.at	Noch frei	36 € Jährlich

Registrars?

- They also face losing a customer when a domain is unavailable
- Integrate suggestions into their business processes
 - Some level of „suggestions“ already available
 - External (eg. Registry)? API!
- Registrars deal with many registries
 - Each might offer an API
 - Undesireable to have one API per registry
 - Standardization?

Potential protocol arena

- Which „channel“?
 - EPP
 - RDAP
 - (other) REST
 - .. ?
- Which input data?
 - Desired Name
 - Keywords?
 - User location?
 - Meta-info (desired min./max. length, IDN yes/no, ...?)
 - ..?

Existing work

- EPP (Verisign)
 - <https://www.verisign.com/assets/epp-sdk/EPP-Suggestion-Mapping.pdf?inc=www.verisigninc.com> (2008 – 2013)
 - Deprecated, moved to REST-based interface instead
- RDAP (Mario Loffredo, it)
 - „link“ in standard RDAP domain response points to „suggestion“ RDAP server
 - That „suggestion“ RDAP returns lightweight „domainSearchResults“ array
 - `objectClassName, ldhName, (unicodeName)`
- EPP (A. Mayrhofer, .at)
 - Extends „<domain:check>“ response
 - draft-mayrhofer-epp-domain-suggest

Side Meeting Discussion, major points

- Registrar is better positioned for that
 - Has more data about the customer
 - „Suggestion“ belongs to the free market „free market“
 - Registry has only slightly better vantage point
- EPP is not a good protocol choice
 - Is a static interface, provisioning rather than querying, quota
 - Suggestions will introduce additional delay / dependencies
 - Addresses a different client set
- Relation to „availability“ information
 - And for that, RDAP seems the prime choice
- Room was full of Registries – few Registrars

Discussion

- View from registrars? Is this a real world problem?
- Preferred protocol?

- Is this interesting?
- If yes, is regext the right venue?