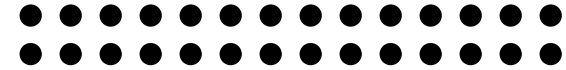


Non Technical Updates from TechOps

2026 CPS



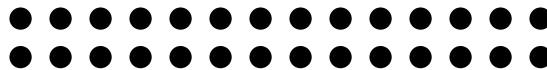
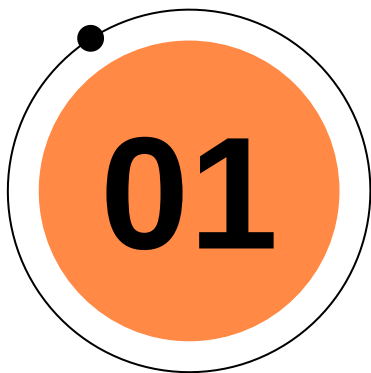
Session Agenda



13:45 - 14:30 (45 mins)

No.	Topic	Lead(s)
1	RDAP Profile (10 mins)	Rick Wilhelm
2	IETF (10 mins)	Jim Galvin & Rick Wilhelm
3	RSP Moves (10 mins)	Jody Kolker & Jothan Frakes
4	IDNs & Related Groups (10 mins)	Michael Bauland & Jim Galvin
5	Issues raised in Technical Update from ICANN Org session (5 mins)	Roger Carney & Marc Anderson





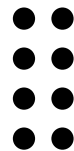
I C A N N | R r S G
Registrar Stakeholder Group



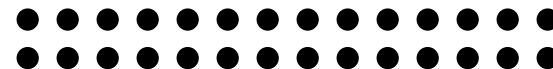
RySG
gTLD Registries
Stakeholder Group

RDAP Profile & WG

Rick Wilhelm (PIR)



RDAP in production



The **February-2024** version of the gTLD RDAP Profile consists of two documents:

1. [RDAP Technical Implementation Guide \(Redline\)](#) that aims to provide technical instructions to gTLD registries and registrars on how to implement the RDAP service; and
2. [RDAP Response Profile \(Redline\)](#) that intends to map current policy requirements to the RDAP implementation with flexibility to incorporate future policy changes with minimal reengineering.

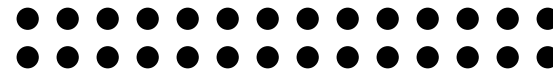
Before 21 August 2024, gTLD registries and registrars must continue to implement the **February-2019** version of the gTLD RDAP profile.


After 21 August 2024, and through 20 August 2025, ICANN org recommends gTLD registries and registrars implement the **February-2024** version of the gTLD RDAP profile in their RDAP service, but gTLD registries and registrars may continue to implement the **February-2019** version.

After 21 August 2025, gTLD registries and registrars, per the [Registration Data Policy](#) are required to implement the **February-2024** version of the gTLD RDAP profile, and the **February-2019** version is considered obsolete.

<https://www.icann.org/en/contracted-parties/registry-operators/registration-data-access-protocol/gtld-rdap-profile-01-01-2020-en>

ICANN RDAP Conformance Tool



 One World, One Internet **ICANN RDAP Conformance Tool**

This is an online version of the [ICANN RDAP Conformance Tool](#). More information about the ICANN RDAP Conformance Tool, including the meaning of common conformance issues, may be found in the [RDAP Conformance Tool Users Manual](#).

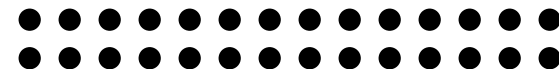
This tool is for diagnostic purposes to aid RDAP service operators, especially gTLD registries and registrars. The results provided by this tool may not reflect all conformance requirements of the RDAP RFCs or the ICANN gTLD RDAP Profile. For more information, please send email to globalsupport@icann.org.

Full URL (e.g. <https://rdap.example.com/domain/example.net>)

GTLD Registrar GTLD Registry Thin Registry 2019 GTLD Profile 2024 GTLD Profile

No Queries over IPv4 No Queries over IPv6 Additional Queries

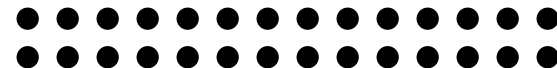
Creating the RDAP Conformance Tool



Unearthed the (possible) need for:

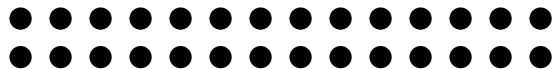
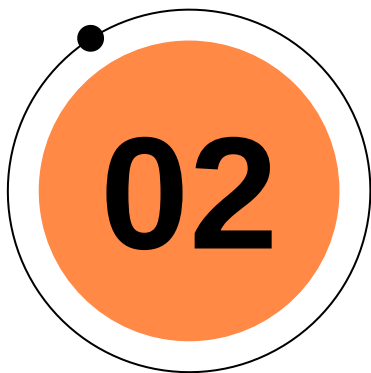
- Fixes according to policy.
- Upgrades to latest standards.
- Clarifications.

When revising RDAP Profile...



Possible macro items

- Consolidate to single document
- Restructure to centralize logic
- Create mechanism for “errata” or “patching”
- Add examples or informative text
- Reconsider source format as HTML (vs PDF)
- Create Public Issue Tracker



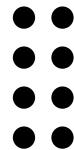
I C A N N | R r S G
Registrar Stakeholder Group



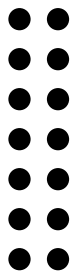
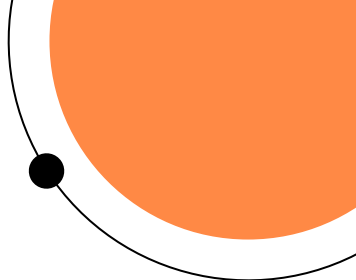
RySG
gTLD Registries
Stakeholder Group

IETF

James Galvin (Identity Digital) & Rick Wilhelm (PIR)



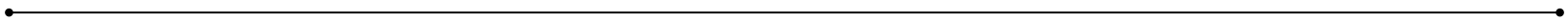
IETF



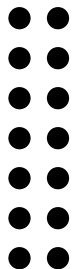
How it works: The Internet Engineering Task Force (IETF)

https://hosted-files.sched.co/icann85/20/IETF-ICANN85-How-it-works.pdf?_gl=1*_sru4ou*_gcl_au*MTA5MjExMjY1Mi4xNzY5NzgzMTk4*FPAU*MTA5MjExMjY1Mi4xNzY5NzgzMTk4

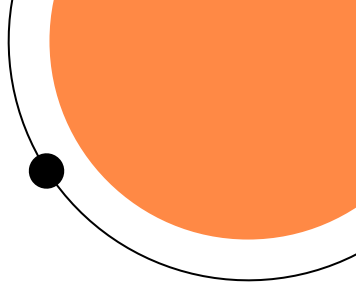
- Next meeting - IETF126 - Vienna, Austria
 - <https://registration.ietf.org/126/> - fee for both in-person and remote
- Free to participate/engage on the mailing list
 - <https://www.ietf.org/mailman/listinfo/regext>
 - <https://www.ietf.org/mailman/listinfo/rpp>
 - <https://www.ietf.org/mailman/listinfo/deleg>



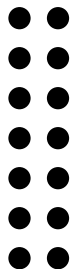
Work in Progress



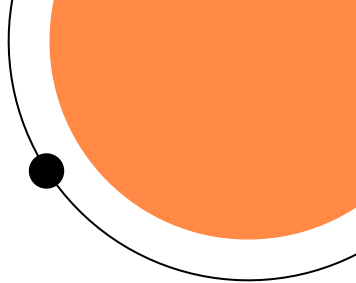
- Documents in REGEXT
 - <https://datatracker.ietf.org/doc/draft-galvin-regex-epp-variants/>
 - Same Entity Set Support for EPP
 - <https://datatracker.ietf.org/doc/draft-albanna-regex-eku-mtls-in-epp/>
 - Extended Key Usage and Mutual TLS in EPP
 - <https://datatracker.ietf.org/doc/draft-ietf-regex-rdap-referrals/>
 - Explicit RDAP Redirects
 - <https://datatracker.ietf.org/doc/draft-ietf-regex-ext-registry-epp/>
 - Extension Registry for the Extensible Provisioning Protocol
 - <https://datatracker.ietf.org/doc/draft-ietf-regex-rdap-extensions/>
 - RDAP Extensions

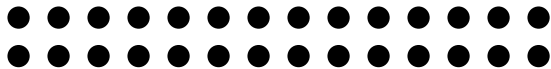


Work in Progress



- Working Groups
 - Registration Protocols Extensions
 - <https://datatracker.ietf.org/group/regext/about/>
 - RESTful Provisioning Protocol
 - <https://datatracker.ietf.org/group/rpp/about/>
 - DNS Delegation
 - <https://datatracker.ietf.org/group/deleg/about/>





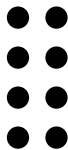
I C A N N | R r S G
Registrar Stakeholder Group



RySG
gTLD Registries
Stakeholder Group

RSP Moves

Jody Kolker (GoDaddy) & Jothan Frakes (PLISK)



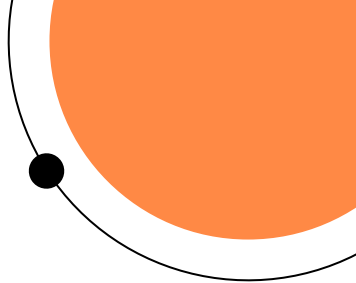
Registrar Perspective On RSP Moves:

100%

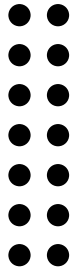
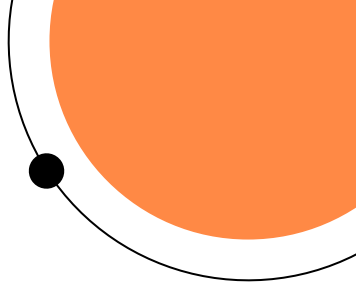
Pain / Cost

0%

Benefit



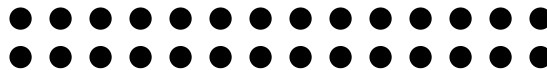
For PM: It's not just Tech stuff



Multiple changes to consider/plan for in RO/RSP change for Registrars

- **Legal / Policy** : Agreements, Policy differences, Jurisdiction, Privacy, DP/DC etc
- **Financial** : Prepaid balance move, LoC, Terms, Methods, GP-in-motion, etc
- **Marketing / Sales** : Logos, collateral, rebate/promo changes
- **Ops / Abuse** : Conduits with Ry contacts, escalation flow and new tools to learn
- **Support / Care** : Messaging customers, revising CS / Ticketing
- **Interaction / Web-panel** : Dashboard changes, process changes, roles, messaging
- **SFTP / Resource processing** : Adaptation to new methods, what is/isn't available
- Registrar Website, intranet tool, batch process changes to align with all above



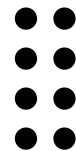


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Registrar Stakeholder Group



IDNs & Related Groups (Variants)

Michael Bauland (Knipp), Latin Diacritic PDP WG Chair
James Galvin (Identity Digital)



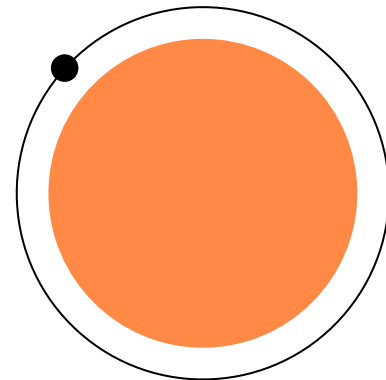
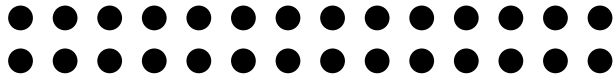


New RrSG Explainer!

Available at www.rrsg.org under 'Guidance and Information'

Variant Top-Level Domains (Variant TLDs)

https://rrsg.org/wp-content/uploads/2026/04/RrSG-Explainer_-_TLD-Variants.pdf



Background: Variants

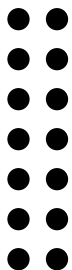
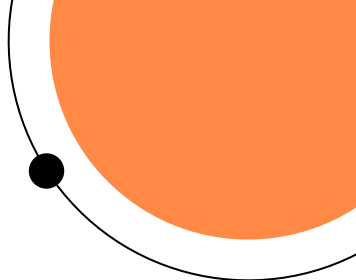
Defined via LGRs (RFC7940)

```
<char cp="012F" tag="sc:Latn" ref="0 154" comment="Lithuanian (1)" />
<char cp="0131" tag="sc:Latn" ref="0 157 159 201 203" comment="Turk
<var cp="0069" type="dotted" comment="IDNA2003 Compatibility" />
<var cp="00ED" type="blocked" comment="Required for integration" />
<var cp="00EF" type="blocked" comment="Required for integration" />
<var cp="0131" type="r-dotless" comment="Dotless form" />
<var cp="0269" type="blocked" comment="Glyphs either homoglyph or
<var cp="0390" type="blocked" />
<var cp="03AF" type="blocked" />
<var cp="03B9" type="blocked" comment="Cross-script homoglyph" />
```

Examples

- aydın → aydin
- straÙe → strasse

Variant Set – ICANN LGR Tool



straße-in-aydın

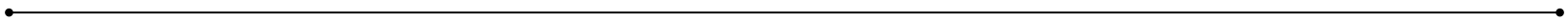
Validate

straße-in-aydın

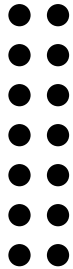
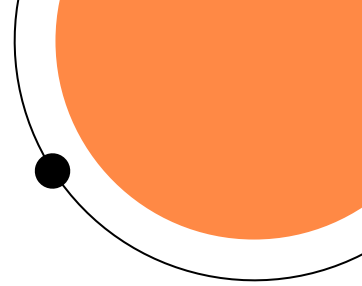
Too many variants

Number of variants in the variant set (including the original label): 9216

The computing will be performed in background and may be very long, you can follow your task progression on the [task status page](#).



Variant Set (2nd Level)



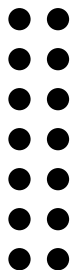
Allocatable Variants

- Starting with straÙe-in-aydin.tld
 - strasse-in-aydin.tld
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld
- Starting with straÙe-in-aydin.tld
 - strasse-in-aydin.tld

Primary Domain matters!

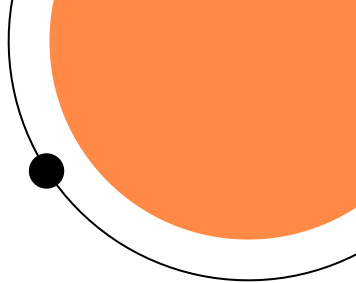


Same Entity Set

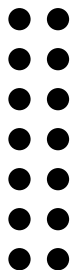
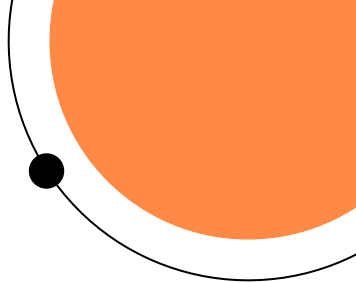


All (allocatable) variants need to

- be registered via the **same Registrar** (checked by Registry)
- belong to the **same Registrant** (checked by Registrar)



What about Latin Diacritics?



Deals with the issue like

cafe

and

café

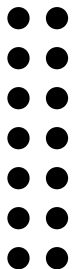
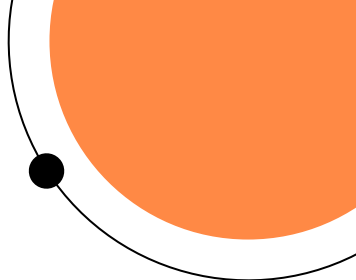
which are not variants of each other, but likely confusingly similar.

According to LD PDP, .cafe and .café can co-exist as TLDs under variant-like conditions.

For all technical purposes (e.g., EPP), once the TLDs are “created”, it makes no difference, whether they are variants or part of an LD Set.



IDN Level 1

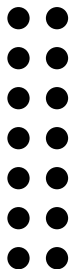
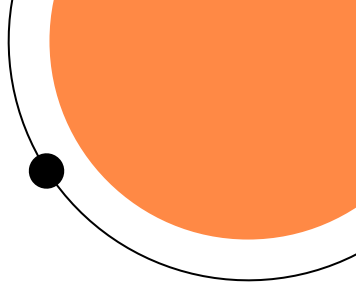


No support for variants

- Most simple case, Registries offering IDN need to do this
- No special EPP extension necessary
- Registries only need to block variants
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld



IDN Level 1

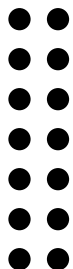
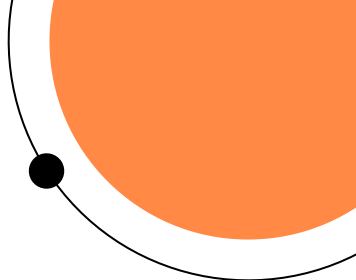


No support for variants

- Most simple case, Registries offering IDN need to do this
- No special EPP extension necessary
- Registries only need to block variants
 - **straße-in-aydin.tld** (registered)
 - strasse-in-aydin.tld
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld



IDN Level 1

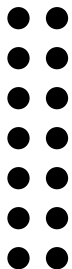
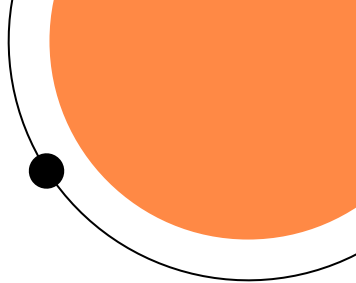


No support for variants

- Most simple case, Registries offering IDN need to do this
- No special EPP extension necessary
- Registries only need to block variants
 - **straße-in-aydin.tld** (registered)
 - **strasse-in-aydin.tld** (blocked)
 - **straße-in-aydin.tld** (blocked)
 - **strasse-in-aydin.tld** (blocked)



IDN Level 2

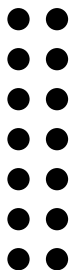
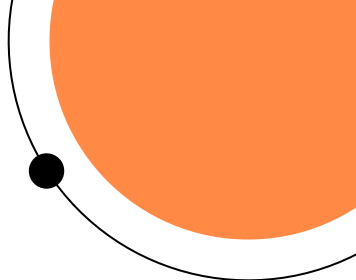


Support for variants at the second level

- Registries offering variants need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld



IDN Level 2



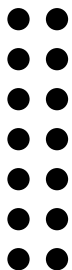
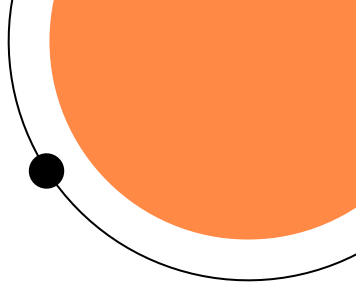
Support for variants at the second level

- Registries offering variants need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - **straße-in-aydin.tld** (registered)
 - strasse-in-aydin.tld
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld

Primary: straÙe-in-aydin.tld



IDN Level 2



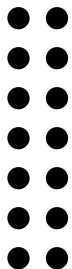
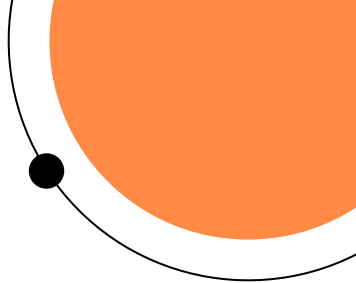
Support for variants at the second level

- Registries offering variants need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - **straße-in-aydin.tld** (registered)
 - strasse-in-aydin.tld (allocatable - same entity)
 - straÙe-in-aydin.tld (allocatable - same entity)
 - strasse-in-aydin.tld (allocatable - same entity)

Primary: straÙe-in-aydin.tld



IDN Level 2



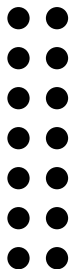
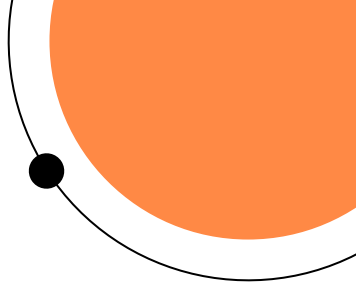
Support for variants at the second level

- Registries offering variants need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - straÙe-in-aydin.tld
 - strasse-in-aydin.tld
 - **straÙe-in-aydin.tld** (registered)
 - strasse-in-aydin.tld

Primary: straÙe-in-aydin.tld



IDN Level 2

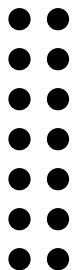
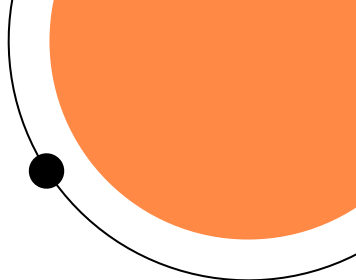


Support for variants at the second level

- Registries offering variants need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - straÙe-in-aydin.tld (blocked)
 - strasse-in-aydin.tld (blocked)
 - straÙe-in-aydin.tld (registered)
 - strasse-in-aydin.tld (allocatable - same entity)

Primary: straÙe-in-aydin.tld

IDN Level 3

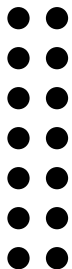
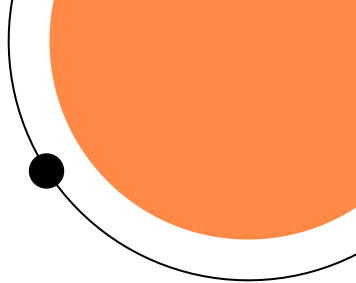


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - straÙe-in-aydin.cafe
 - strasse-in-aydin.cafe
 - straÙe-in-aydin.café
 - strasse-in-aydin.café
 - straÙe-in-aydin.café
 - strasse-in-aydin.café



IDN Level 3

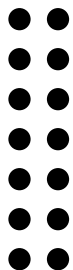
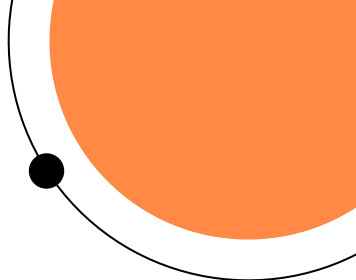


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - **straße-in-aydin.cafe** (registered)
 - strasse-in-aydin.cafe
 - straÙe-in-aydin.cafe
 - strasse-in-aydin.cafe
 - straÙe-in-aydin.café
 - strasse-in-aydin.café
 - straÙe-in-aydin.café
 - strasse-in-aydin.café

Primary: straÙe-in-aydin.cafe

IDN Level 3

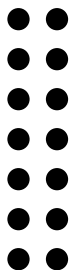
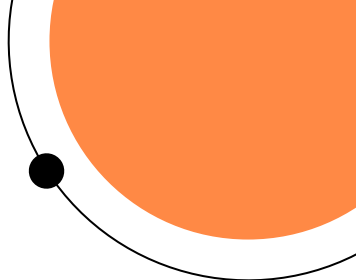


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - **straße-in-aydin.cafe** (registered)
 - strasse-in-aydin.cafe (allocatable)
 - straÙe-in-aydin.cafe (allocatable)
 - strasse-in-aydin.cafe (allocatable)
 - straÙe-in-aydin.café (allocatable)
 - strasse-in-aydin.café (allocatable)
 - straÙe-in-aydin.café (allocatable)
 - strasse-in-aydin.café (allocatable)

Primary: straÙe-in-aydin.cafe

IDN Level 3

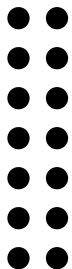
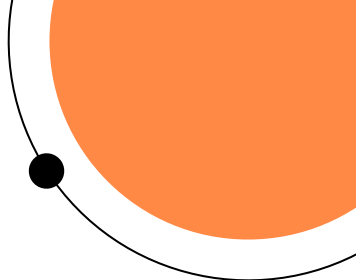


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - straÙe-in-aydin.cafe
 - strasse-in-aydin.cafe
 - **straÙe-in-aydin.cafe** (registered)
 - strasse-in-aydin.cafe
 - straÙe-in-aydin.café
 - strasse-in-aydin.café
 - straÙe-in-aydin.café
 - strasse-in-aydin.café

Primary: straÙe-in-aydin.cafe

IDN Level 3

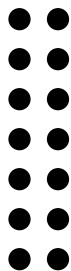
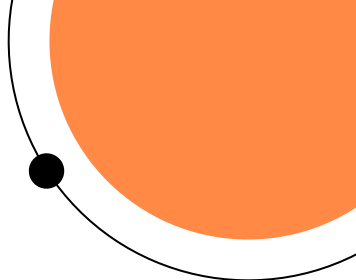


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - `straße-in-aydin.cafe` (blocked)
 - `strasse-in-aydin.cafe` (blocked)
 - `straße-in-aydin.cafe` (registered)
 - `strasse-in-aydin.cafe` (allocatable)
 - `straße-in-aydin.café` (allocatable)
 - `strasse-in-aydin.café` (allocatable)
 - `straße-in-aydin.café` (allocatable)
 - `strasse-in-aydin.café` (allocatable)

Primary: `straße-in-aydin.cafe`

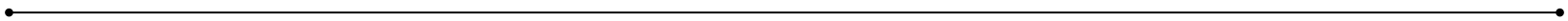
IDN Level 3



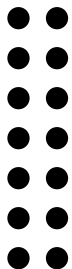
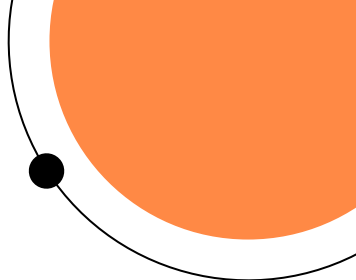
Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - `straße-in-aydin.cafe` (blocked)
 - `strasse-in-aydin.cafe` (blocked)
 - `straße-in-aydin.cafe` (registered)
 - `strasse-in-aydin.cafe` (allocatable)
 - `straße-in-aydin.café` (allocated)
 - `strasse-in-aydin.café` (allocatable)
 - `straße-in-aydin.café` (allocatable)
 - `strasse-in-aydin.café` (allocatable)

Primary: `straße-in-aydin.cafe`, `straße-in-aydin.café`



IDN Level 3

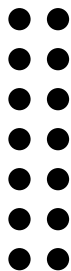
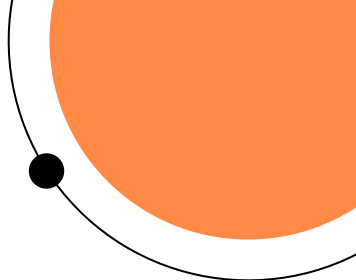


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - straÙe-in-aydin.cafe (blocked)
 - strasse-in-aydin.cafe (blocked)
 - straÙe-in-aydin.cafe (registered)
 - strasse-in-aydin.cafe (allocatable)
 - straÙe-in-aydin.café (allocatable)
 - strasse-in-aydin.café (allocatable)
 - straÙe-in-aydin.café (allocatable)
 - strasse-in-aydin.café (allocatable)

Primary: straÙe-in-aydin.cafe

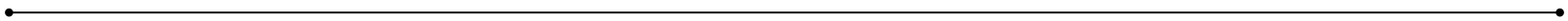
IDN Level 3

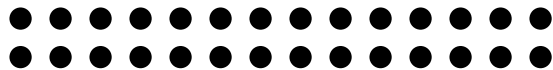


Support for variants at the top and second level

- Registries offering variant (or LD Set) TLDs need to implement this
- Special EPP extension necessary
- Registries may allocate or block variants
 - `straße-in-aydin.cafe` (blocked)
 - `strasse-in-aydin.cafe` (blocked)
 - `straße-in-aydin.cafe` (registered)
 - `strasse-in-aydin.cafe` (allocatable)
 - `straße-in-aydin.café` (blocked)
 - `strasse-in-aydin.café` (blocked)
 - `straße-in-aydin.café` (blocked)
 - `strasse-in-aydin.café` (allocated)

Primary: `straße-in-aydin.cafe`, `strasse-in-aydin.café`





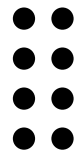
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Registrar Stakeholder Group



RySG
gTLD Registries
Stakeholder Group

Issues Raised in Technical Update from ICANN Org

Roger Carney & Marc Anderson (Verisign)





Thanks!

Do you have any questions?

