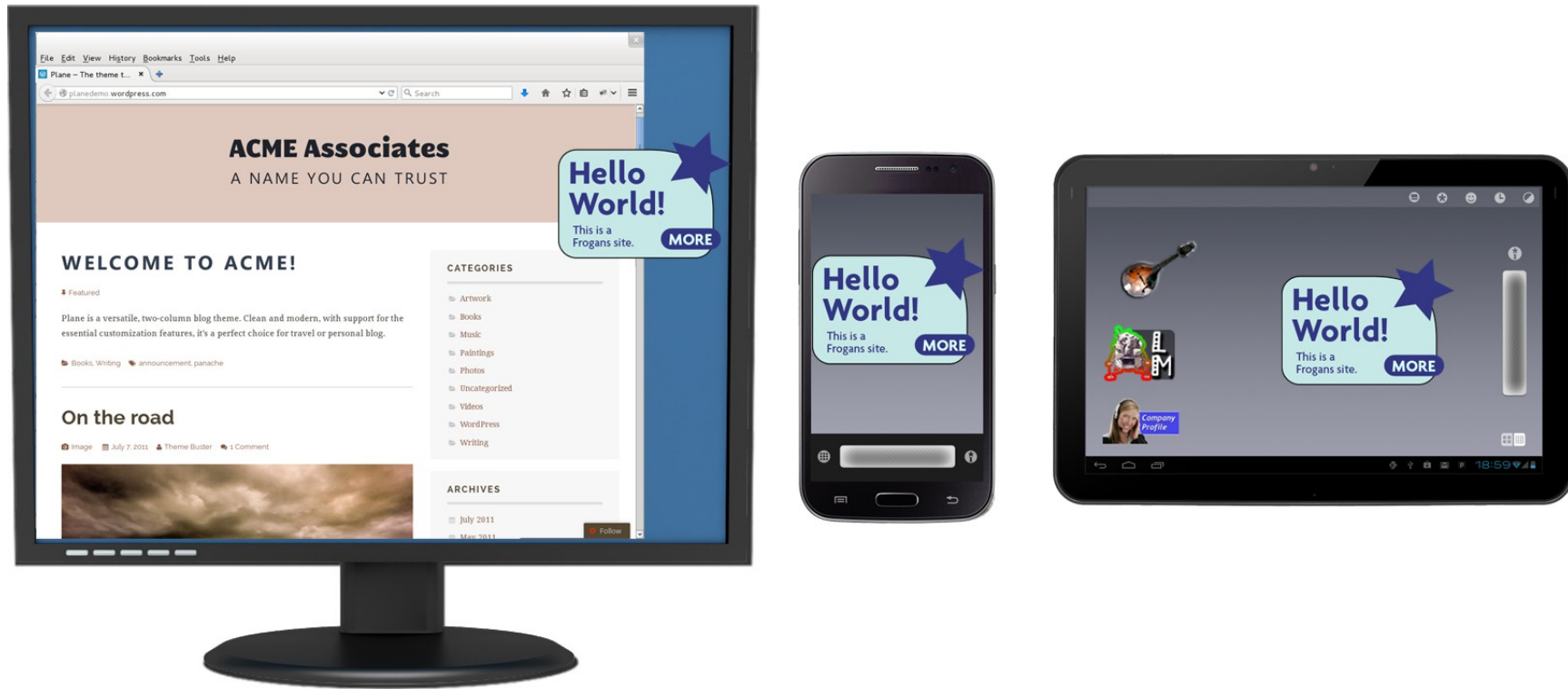


The Frogans Project

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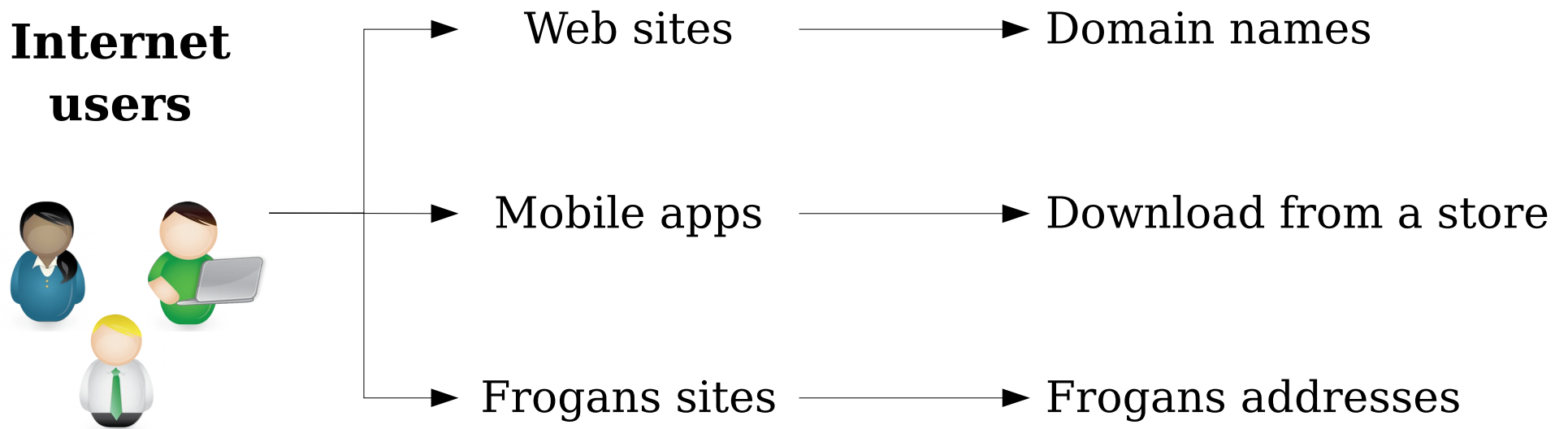
www.frogans.org

Frogans sites: small, secure, multi-platform, multi-device



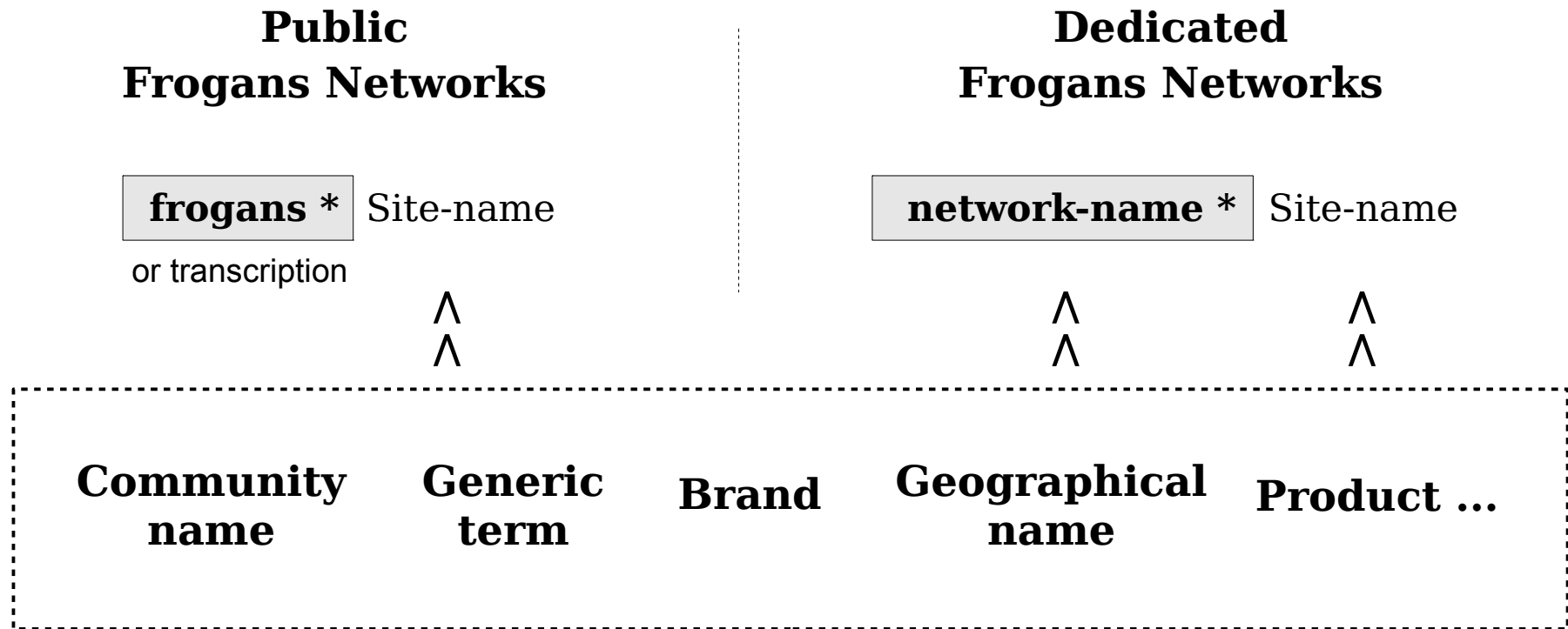
- Publication of a new type of site with a new international addressing system
- Same browsing experience and display across all devices
- Sites viewable via Frogans Player downloadable free of charge from the OP3FT

Frogans addresses within the Internet addressing environment



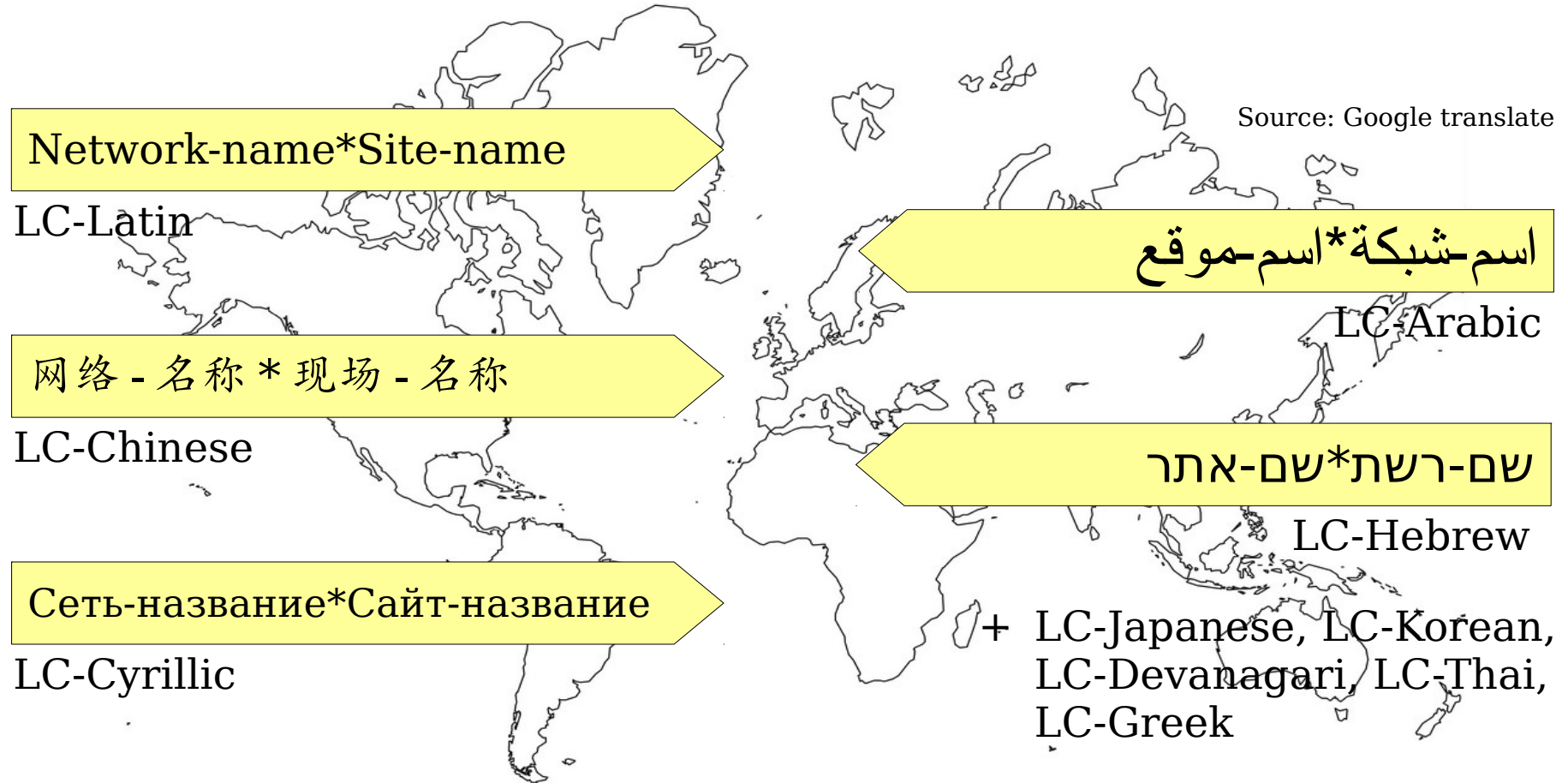
- Frogans addresses represent a new market
- Frogans addresses are used to identify Frogans sites
- Frogans addresses do not replace domain names

Frogans networks on the Internet: sets of Frogans addresses



- Two types of Frogans networks on the Internet
- Customizable network names for Dedicated Frogans Networks
- Supports writing systems from all around the world

Frogans addresses: 10 linguistic categories



- Covers at least 179 languages
- Each linguistic category has its own set of rules
- The linguistic category doesn't concern the content of the Frogans site

Frogans addresses: managing confusion

End-user confusion

between characters in a given writing system



I uppercase i
1 digit one
l lowercase L

between characters in different writing systems



a Latin
а Cyrillic

between characters in a language with two writing systems



宁 calm, peaceful
寧 repose, serenity
In simplified and traditional Chinese

- Raises potential security issues for end users
- The most important issue relates to spoofing
- Currently focused on visual and semantic confusion

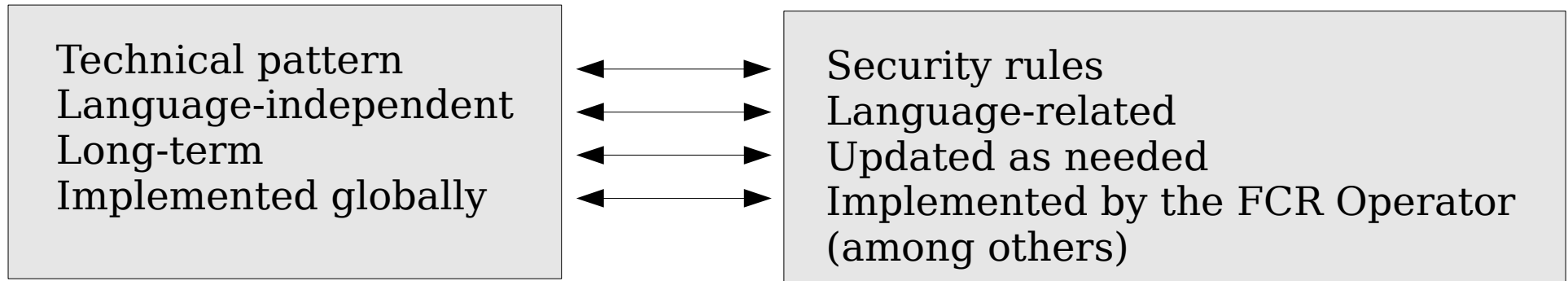
A two-part model for specifying Frogans addresses

IFAP

International
Frogans
Address
Pattern

FACR

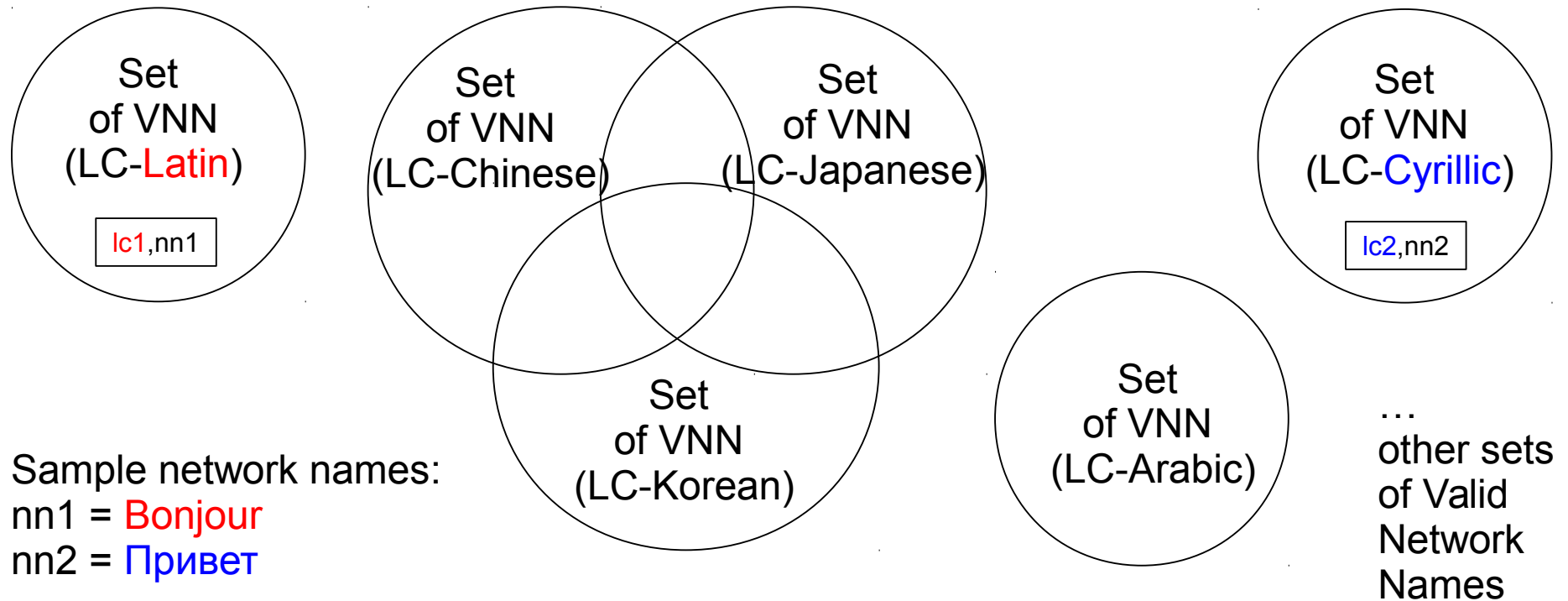
Frogans
Address
Composition
Rules



★ Purely technical approach insufficient →
FACR/IFAP are supported by **FTUP**, **UDRP-F**, and **end-user awareness**

- Called for by the OP3FT Bylaws
- Provide stability for a widely distributed and installed technology
- Provide flexibility and reactivity demanded to solve security issues

FACR: Overlapping linguistic categories



- Ten linguistic categories available in FACR 1.0
- Specific rules are defined for each Linguistic Category
- Convergence forms are defined both within each LC and between LCs

A few examples

| | Valid network name | | Invalid Network name | |
|---------------------|--|---------------------|--|---|
| Latin | vidéo 0076 0069 0064 00E9 006F | Latin | vidéo 0076 0069 0064 0065 0301 006F | Network name is not IFAP compliant (not in NFKC form) |
| Latin | hello | Latin | hello 0068 0065 0196 0196 006F 0196 LATIN CAPITAL LETTER IOTA | Network name 2 is not FACR valid (U+ 0196 is not employable) |
| Latin | paypal | Latin | paypal 0070 0430 0079 0070 0061 006C 0430 CYRILLIC SMALL LETTER A | Network name 2 is not FACR valid (U+ 0430 is not employable) |
| Latin | HELLO | Chinese | HELLO | Network name 2 is not FACR valid (missing a character of native scripts) |
| Latin | hello | Latin | Hello | The 2 network names are identical (IFAP) |
| Latin | straße 0073 0074 0072 0061 00DF 0065 | Latin | strasse 0073 0074 0072 0061 0073 0073 0065 | The 2 network names are identical (IFAP) |
| Latin | HELLO | Latin | HELL0 | The 2 network names have the same Intra-LC convergence form |
| Latin | amis | Latin | arnis | The 2 network names have the same Intra-LC convergence form (Latin-Confusable) |
| Japanese | へ 3078 (Hiragana) | Japanese | ヘ 30D8 (Katakana) | The 2 network names have the same Intra-LC convergence form (Japanese Confusable) |
| Chinese or Japanese | 醜 919C | Chinese or Japanese | 丑 4E11 (Simplified Chinese variant of 919C) | The 2 network names have the same Intra-LC convergence form (Chinese Variant) |
| Latin | scope | Cyrillic | scope 0455 0441 043E 0440 0435 | The 2 network names have the same Inter-LC convergence form |
| Latin | BEAT | Greek | BEAT 0392 0395 0391 03A4 βεατ 03B2 03B5 03B1 03C4 | The 2 network names have the same Inter-LC convergence form |

Thank you for your attention!

- Welcome to the Frogans project
<https://project.frogans.org/>
- The official Web site of the Frogans technology:
<https://www.frogans.org/>
- International Frogans Address Pattern (IFAP) technical specification:
<https://www.frogans.org/en/resources/ifap/access.html>
- Frogans Address Composition Rules (FACR) technical specification:
<https://www.frogans.org/en/resources/facr/access.html>
- The UDRP-F and its Rules of procedure:
<https://www.frogans.org/en/resources/udrpf/access.html>
- The Frogans Technology Conference:
<https://conference.frogans.org/>
- The Frogans technology mailing lists:
<https://lists.frogans.org/>