Frogans addresses: new identifiers for Frogans sites

- Short and simple pattern
- Supports writing systems from all around the world
- Easily distinguishable thanks to the Asterisk character

Source: Google translate
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
  - a Cyrillic

- between characters in a language with two writing systems
  - 宁 calm, peaceful
  - 寧 repose, serenity
  - In simplified and traditional Chinese

- Freedom in choosing network names and site names
- Raises potential security issues for end users
- The most important issue relates to spoofing
Multiple organizations and standards

- ICANN
- IANA
- Unicode Consortium
- ccTLDs
- W3C
- IETF
- ISO

- Extensive work has already been carried out
- Worldwide source of linguistic expertise
- Standards evolve frequently
A two-part model for specifying Frogans addresses

**IFAP**
- International
- Frogans
- Address
- Pattern

**FACR**
- Frogans
- Address
- Composition
- Rules

**Technical pattern**
- Language-independent
- Long-term
- Implemented globally

**Security rules**
- Language-related
- Updated as needed
- Implemented by the FCR Operator

- Called for by the OP3FT Bylaws
- Provides stability for a widely distributed and installed technology
- Provides flexibility and reactiveness demanded to solve security issues
Overview of the FACR specification

1. Introduction
2. Terminology
3. The need for new concepts
4. Rules for each linguistic category
5. Valid network names and site names
6. Generating convergence forms
7. Overlapping linguistic categories
8. Checking whether two network names are convergent
9. Checking whether two site names are convergent
10. Available linguistic categories
11. Future enhancements
12. References
Appendix A. FACR lookup tables
Appendix B. Pseudocode syntax
Appendix C. Assistance in implementing the specification

- Sets forth the composition rules applicable to Frogans addresses
- Rules apply to Frogans addresses that IFAP compliant
- Designed to meet the clarity and precision of Internet Standards (IETF)
Applying FACR to register Frogans addresses in the FCR

- Ten linguistic categories available in FACR 1.0
- Three linguistic categories are overlapping: Chinese, Japanese, Korean
- Two kinds of convergence forms: Intra-LC and Inter-LC

Sample network names:
nn1 = Bonjour
nn2 = Привет