

# **eeTLD WHOIS accuracy conception**

## **New methods in domain registrant's personal identification**

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# Abstract: eeTLD and Estonian Internet Foundation

Estonian Internet Foundation: private organization with multi-stakeholder PDP body-s

- No “domain law”
- Registrations are **open to everyone**, incl private persons and foreign residents
- Total number of domains **66 500**, incl IDN **1300**

Registry-registrar model, **41** registrars, incl **9** ICANN accredited registrars

- EPP
- Registry-registrar contract
- Guarantee deposit, contractual penalties for incidents

Domain registry software **F.R.E.D.**

Staff **14** people

# Problems regarding WHOIS accuracy

1. Unidentified registrants
2. Irredeemability of the application
3. No audit trail

**Lack of consumer trust and confidence:** Consumers use WHOIS data to establish the legitimacy of those engaged in e-commerce. Inaccuracy WHOIS database decreases their trust to e-commerce.

**Cyber security and cybercrime** experts make extensive use of WHOIS to thwart and respond to a varied set of threats. Information contained within inaccurate WHOIS is invaluable or misleading in these efforts.

**Anonymous registrations increase number of malicious domains:** *“All things being equal, scammers prefer registrars with “no questions asked” registration. The less information a scammer needs to provide, the better.”*  
Mapping the Mal Web. McAfee 2010

# eeTLD WHOIS accuracy conception

1. All the **registrants are identified**
2. Applications are collected to the registry
3. **Audit trail** to the application and registrant

Methods of registrant identification:

1. **International registrant's personal identification: Domain registrant's personal identification via bank transfer.**
2. Domestic registrant's personal identification: Estonian smart-card ID

# Domain registrant's personal identification via bank transfer

Primarily used for **identifying foreign registrants** who have no Estonian IDcard/Mobile-ID

Based on international anti-money laundering conventions and protocols:

- **FATF Forty Recommendations and Special Recommendations on Terrorist Financing**
- Egmont Group of Financial Intelligence Units
- IBAN / SWIFT standards

**FRED and EPP protocol modified** by Estonian Internet Foundation

Personal identification via bank transfer **doesn't have significant effect on ease of use and usability** of the registry services

# The “chain of trust” between the registrant and the registry I

The DRBT establishes a chain of trust, which is linked on the basis of the following **legislation, documents and requirements.**

## I Registrant – Registrant’s bank

FATF 40+9 recommendations and other measures within the anti-money laundering framework contained in laws that regulate activities of banks and credit institutions on the national level.

## II Registrant’s bank – Registrar’s bank

SWIFT or IBAN standards applicable to international bank transfers and requiring provision of personal identification data to the receiving bank.

The particular FATF 40+9 recommendation that the receiving bank must make sure that the paying bank complies with the personal identification requirements.

# The “chain of trust” between the registrant and the registry II

## III Registrar's bank – Registrar

Contract concluded between the registrar's bank and the registrar.

Contract concluded between the registrar and the registry (Estonian Internet Foundation), including guarantee deposits and contractual penalties.

## IV Registrar – Estonian Internet Foundation

Contract concluded between the registrar and the registry (Estonian Internet Foundation), including guarantee deposits and contractual penalties.

Modified EPP protocol enabling addition to the query of a copy of the bank's account statement / payment order and its communication to the registry simultaneously with domain registration.

# DNSSec and identified registrants

1. DNSSec creates a chain of trust between the Internet-user and registry.
2. Accurate WHOIS data with registrants identified enables to create a chain of trust between the registry and registrant – private person or legal entity
3. Connecting these two chains of trust creates a chain of trust between the Internet user and domain registrant, private person or legal entity. WHOIS with identified registrants lengthens the DNSSec chain of trust to private person or legal entity responsible for use of the specific domain name.

**Thank You!**

**Questions ...**

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