

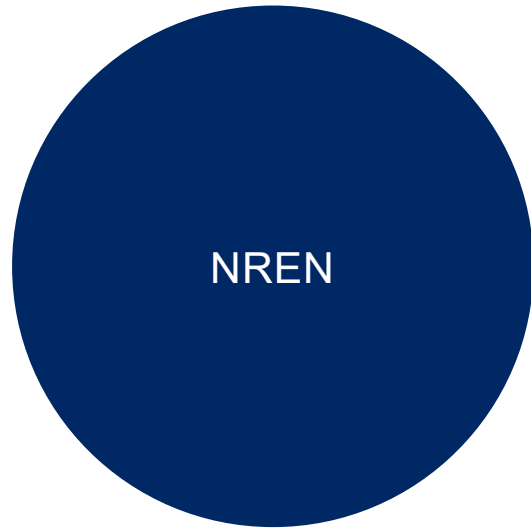


Deferred Delegation

ICANN81, Istanbul -- 11.11.2024

michael.hausding@switch.ch

What is Switch? – three critical infrastructures and more...



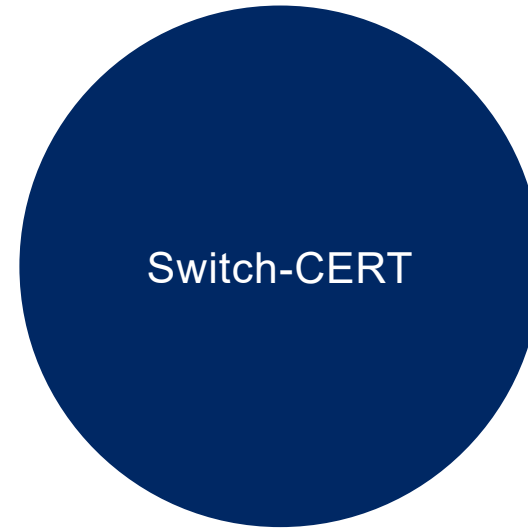
NREN

Connecting universities and research centres with each other and the internet, providing comprehensive network solutions



Registry

Manage the ccTLD for .ch and .li on behalf of the Swiss and Liechtenstein authorities



Switch-CERT

Multi sector CERT:

- Universities
- Registry
- Finance & Insurance
- Industry & Logistics
- Energy

+

Services for Universities

- Identity
- SOC
- Cloud
- ... and many more

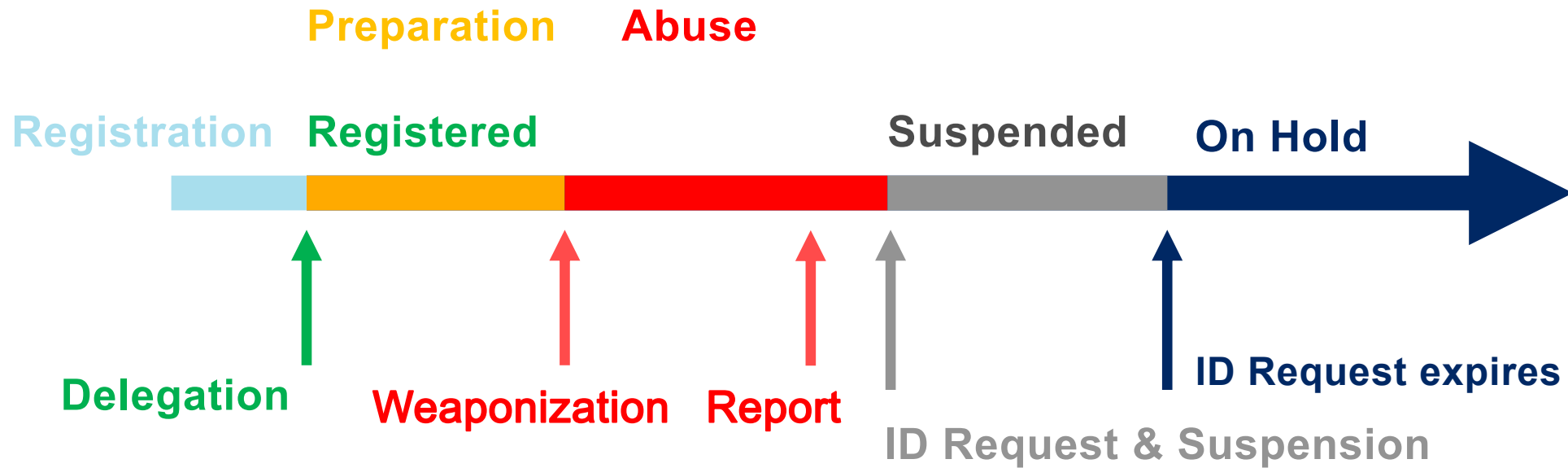
Deferred Delegation: Description and Purpose



Deferred Delegation in a Nutshell

«Holding back a domain at registration if there are reasonable grounds to believe the domain might be used for something «bad» after registration»

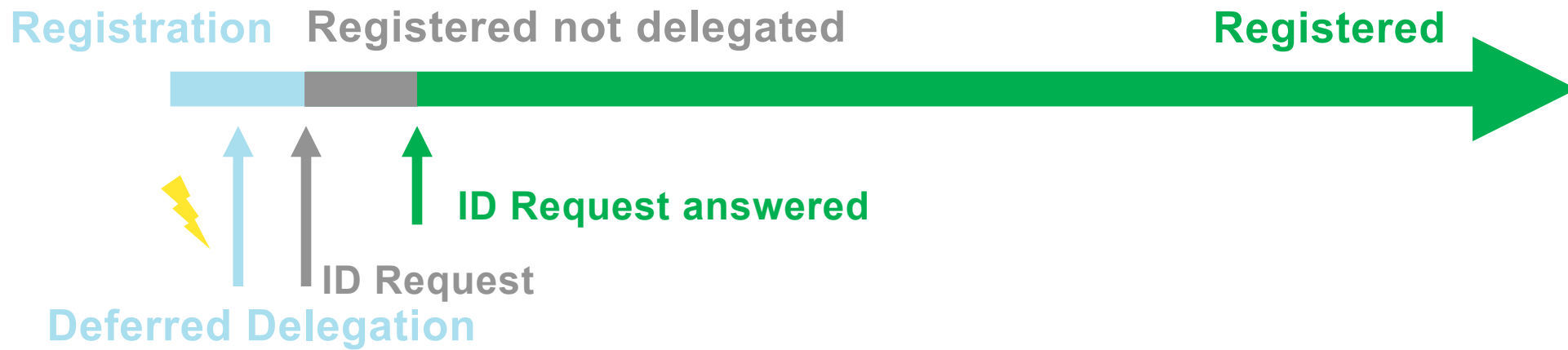
Timeline: Lifecycle of a Domain registered for Phishing



Timeline: Lifecycle of deferred Domain



Timeline: Lifecycle of deferred Domain



Deferred Delegation: Legal Basis



Ordinance on Internet Domain Names (OID)

Tasks of the registry (Art. 10 OID)

...

- i. combating cybercrime in accordance with the provisions of this Ordinance;

...

Legal Basis – Deferred Delegation

General conditions of allocation (Art. 25 OID)

...

^{1ter} The Registry may allocate a domain name and prevent any configuration of the name servers associated with it in the zone file that enables the domain name to be activated if there are reasonable grounds to believe that the applicant:

- a. is providing false identification information or unlawfully using the identity of a third party; and
- b. the requested domain name will be used for an unlawful purpose or in an unlawful manner.³⁵

^{1quater} If the holder in the cases in paragraphs ^{1bis} and ^{1ter} fails to disclose their correct identity within 30 days, the Registry shall revoke the allocation of the domain name.³⁶

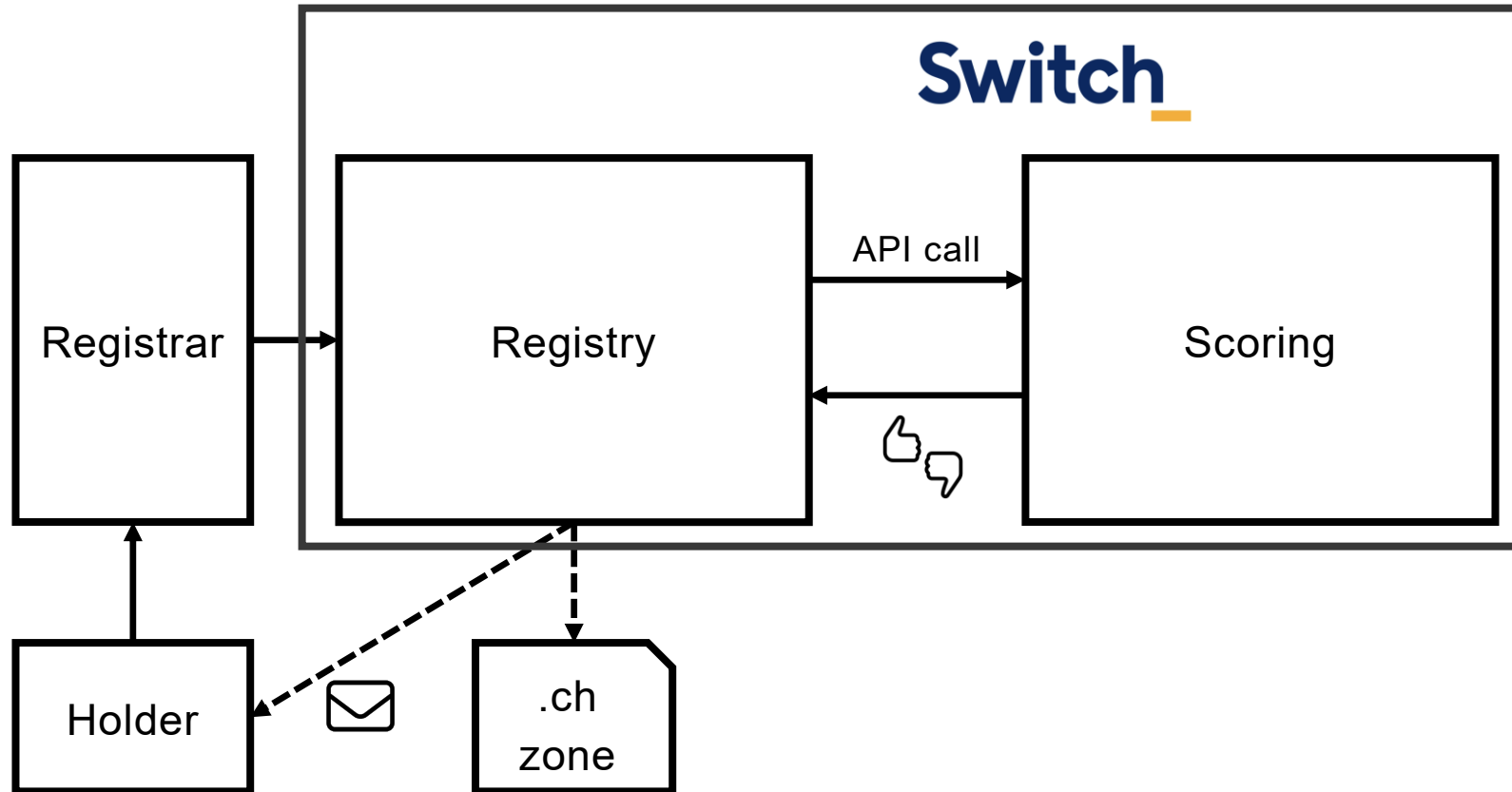
Deferred Delegation: Process and Technical Description



Some Basic Facts

- **Automated system**
- **Rule based scoring**
- **Domain will be deferred above a certain threshold**

Architecture



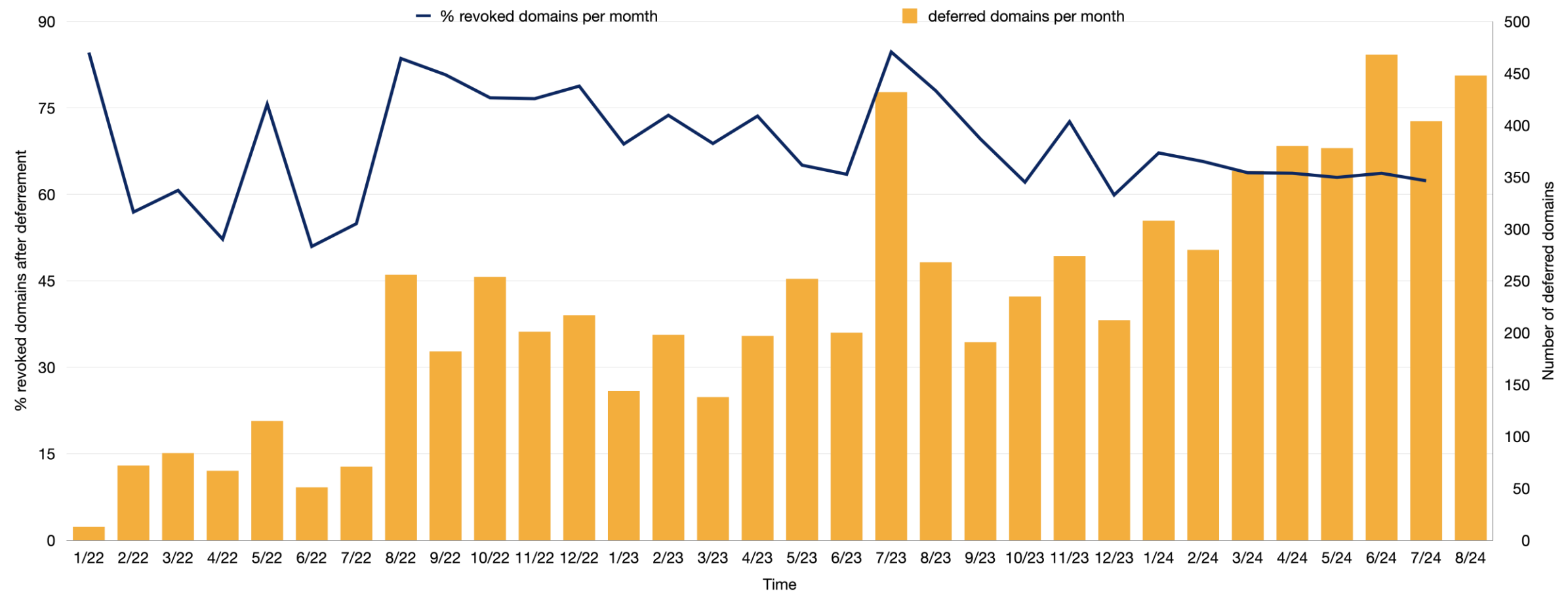
Deferred Delegation: Results and Statistics



Statistics – General

- **We currently defer around 1-2% of the domains**
- **About 65% of the holders do not answer**
- **Legitimate holders usually answer in a few hours/days after notification**

Statistics – Time Series



Source: Switch internal data, revoked vs. deferred domains, January 2022 to August 2024.

Examples

paketboten.ch

rezeptfrei.ch

festgeld24.ch

53646.ch

schweiz-finanz.ch

mailtool.ch

Examples

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Outlook – Deferred Delegation

- **Adding new criteria**
- **Exchange with other registries, authorities**
- **Evaluation of Machine Learning based model currently under development**

NIS2 Art.28 vs. deferred delegation for .ch domain names

- Switzerland is not directly affected by NIS2
- Deferred Delegation only applies to new registrations
- Deferred Delegation is a risk based approach
- Art. 28 Identifications by Registrars in EU are supplementary to deferred delegation
- Less than 0.5% of legitimate new registrations
- 0.02% of all holders need to prove their identity

**Risk based deferred delegation
of domain names registration is
an effective tool to prevent
abuse online**

Switch

A solid orange horizontal bar positioned directly beneath the end of the word "Switch".