

Automated DNSSEC in CZ

ICANN 68

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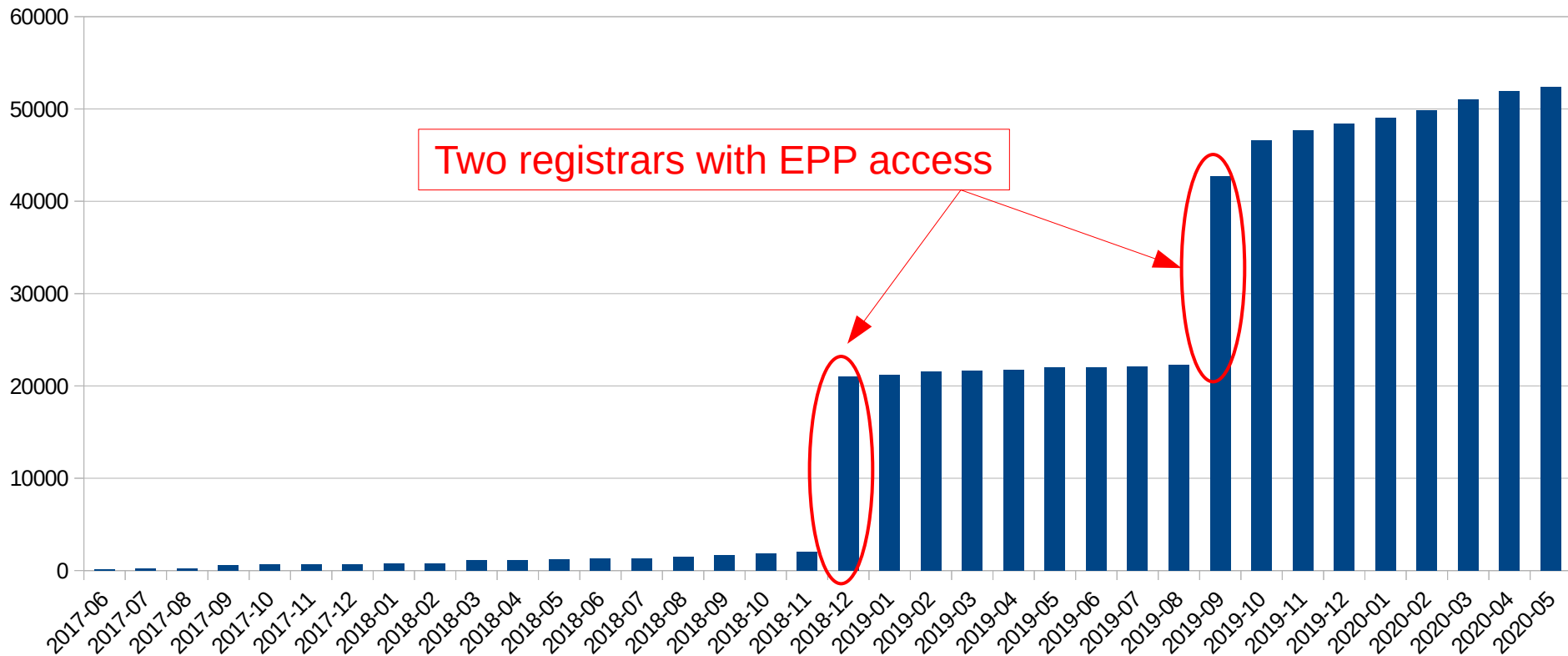


Description

- Started in June 2017 (3 years anniversary)
 - Daily scanning of whole zone (1 362 254 domains / 811 412 signed) for CDNSKEY from single location
 - 7 days without change for accepting
 - Mail notification to contacts / Poll message (non-standard) to registrars about change in domain
- Included in open source registry <https://fred.nic.cz>
 - 9 countries – 1 already using (CR) others are testing



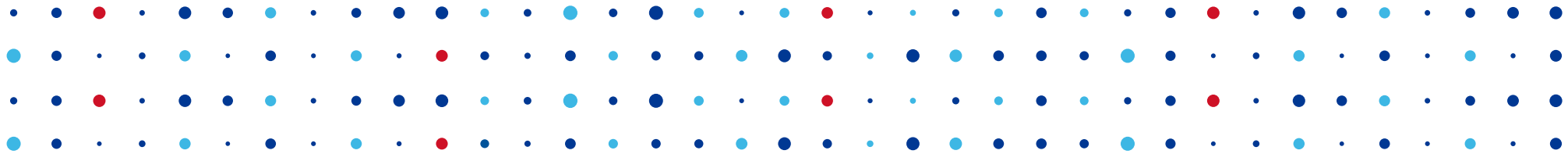
Number of domains with automation enabled



Future

- New scanning software is being build as part of master thesis of colleague Marina Shchavleva - „*Architecture for monitoring CDNSKEY records from multiple sites for automated DNSSEC management in FRED system*“
 - Addition of multiple vantage points for more secure enrollment process
 - Decoupling from registry administration system FRED
 - Decluttering from unrelated tasks such as contact notification in a spirit of UNIX philosophy
 - Shift from “run and get result” to continuous daemon/server
 - Migrate from SQLite to a PostgreSQL
- Master thesis is available online - <https://dspace.cvut.cz/handle/10467/87860>





Thank You

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