OpenSC in 2015

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Looking back

2005 - 2010

- Boom of card drivers (card-*.c): from 17 to 30

- Standardization: ISO-7816-15, IAS/ECC, PIV

- eID card programs in several European countries

- Stabilization of system API-s: PC/SC, CCID, pinpads

- New relevant client platform: OS X (luckily Unix)

- Platform plugins (Tokend, BaseCSP)

- "Devaluation" of certificates: EV and "green bars"

- JavaCard as the common platform

Looking forward

2010 - 2015

The inevitable

- New algorithms
  - EC, SHA2 (&3), RSA2048+, GOST
- Even more eID cards with PKI capabilities
- Prevalence of native platform API-s for end user apps
- Commodity vs expensive custom solution debate
- Mobile devices: Android, WPKI etc
- Cloud buzz - OAuth vs SSL

The milk rivers

- Less but very well maintained standard card drivers

- Usability (to be able to become a commodity)

    - Enrollment/CMS/personalization

- Diversity but interoperability

    - Accessing objects

    - Enforcing policy ("trust")

Tough tasks

- Integrating with proprietary platforms

    - Mac OS X: Tokend

    - Windows: BaseCSP / MiniDriver

- Moving open source to the card: solid JavaCard applet

- Linux: Consolidation (easy) vs Interoperability (hard)

    - p11-kit vs Fedora consolidation?