

# 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?