Technical Enablers within the Privacy Flag Framework

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Privacy Flag Project Enabling Crowd-sourcing based privacy protection for smartphone applications, websites and Internet of Things deployments



About CTI

- One of the major R&D institutes in Greece
- Has undertaken more than 85 R&D projects
- The team involved in Privacy Flag works within CTI's Research Unit 1 (RU1) which consists of 7 Faculty Members, 9 PhD Researchers and 20 Engineers-PhD Students
- The CTI team is involved in relevant FP7 and national projects in the privacy/security, crowdsensing/crowdsourcing and IoT (PROTOS, ABC4Trust, IoT Lab)









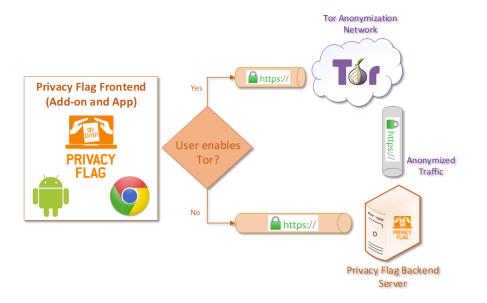
SECURITY AND PRIVACY ENABLERS (UL)

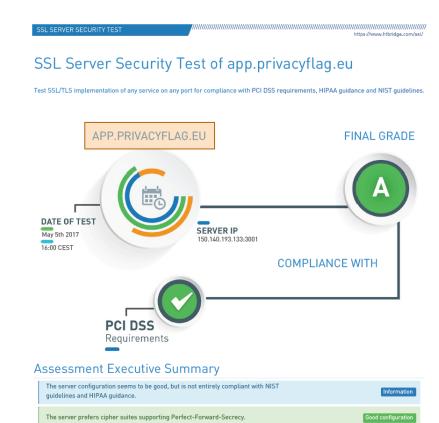






Security Architecture && Security Provision











CROWD SOURCING MONITORING OF PRIVACY RISKS WITH DISTRIBUTED AGESNTS (CTI)







PF Threat Observatory









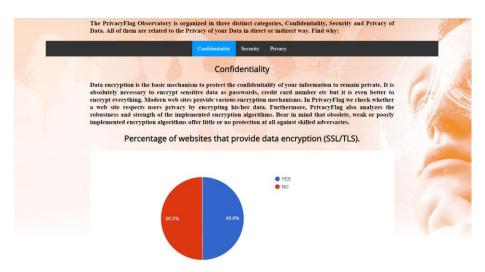


PF Observatory

Final Version:

PF Observatory version 3

(current version): http://app.privacyflag.eu:2080/privacy/addon/observatory.php









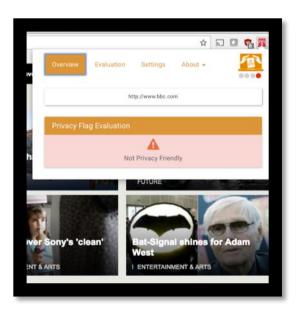
BROWSER ADD-ONS & SMART PHONE APP (Velti)



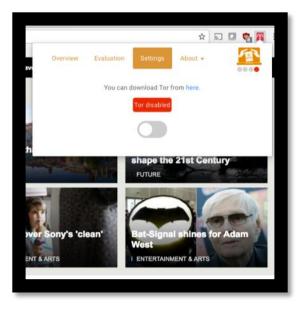




PF flag quickly shows the evaluation of the site



Users can through the settings Enable or Disable ToR communication



Early Warning
System
implementation







About

- A tool to inform users on the privacy risks from the applications installed in his mobile (Android)
- Characterize a site as "privacy friendly" or "not privacy friendly" based on
 - User evaluation (URPAAM)
 - Automated threat recognition (Distributed agents)
 - based on Android permissions)







DATABASE AND SERVER IMPLEMENTATION (CTI)



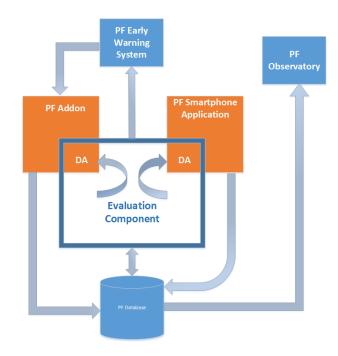




T4.5 Database and server implementation

A holistic fully integrated approach combining:

- PF Distributed Agents
- PF Evaluation Component
- PF DataBase
- PF Observatory







WEBSITE AND BACKEND MANAGEMENT PLATFORM







Main achievements/ outcomes

The website is redeveloped in php technology based on Wordpress CMS (due to some legacy issues with .NetNuke CMS) and frontend is redesigned to support more up to date look & feel

- User engagement: is enhanced, tools presented with how-to install manual and in more user friendly manner.
- Tools available from the website
- 3. News, Dissemination, etc updated







Thank You! Q&A





