Opera Root Program Update

CA/Browser Forum
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- Desktop Security leader, a member of Opera Security Team
- Recently working on GDPR compliance, Software Assurance process, Bug Bounty program
About Opera

“Enable global Internet users to discover and access digital content in a fast, easy and personalized manner”

322m MAU for mobile and PC

- PC browser
- Mobile browsers
- AI-powered personalized news
Corporate update

- ASA -> AS
- Demerge
- Current owners
- Nasdaq: OPRA (listed in July 2018)
Our current Root CA Program
(certificates.opera.com)
Overview

- Opera Desktop:
  - from OS + CRLSets from Chrome
- Opera for Android:
  - from OS + CRLSets from Chrome
- Opera Mini:
  - AndroidCAStore
  - our own (in Turbo mode)
- We also support VEWD (former Opera TV) - 200 mln of devices (TV boxes)
Quick Facts

● Certificate root store management for Presto-based products (Mini, TV, etc.)
● Basic mechanism:
  ○ Fetch Mozilla's store
  ○ Apply our own modifications
  ○ Sign
  ○ Serve on certs.opera.com
● No strict update schedule. Update requests usually come from the Mini team.
Additional blacklist for Desktop
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- Opera's private certificate revocation list
- Based on CRLSets
- Last updated in 2015-11
- Removed from codebase this month (not to rewrite it to Network Service)
- We believe that lists composed by Operating System Vendors and Google’s CRLSets will be updated quick enough