

Subscription-Less Web Push Framework

draft-chiussi-webpush-subscription-less-framework-01

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Webpush WG Meeting, IETF 94

November 3, 2015, Yokohama

Subscription Management – Open Issue 1

- Relevant use cases that can benefit from Web Push if “implicit-subscription” model available
 - Valuable, real-time information to be pushed or user to be solicited
 - User willing or expecting to compromise some privacy
 - Need to reach all UAs, but unknown or impractical to require explicit subscription
 - Examples:
 - Local Emergency, Alert, Urgent Notification Services
 - Dormant Mobile Device Presence Determination
 - Venues with Relaxed User Privacy Expectations
 - Broadcast Local Services

Subscription Management – Open Issue 2

- Coordinate/control Web Push traffic to each UA globally across applications
 - Dominant aspect in determining User Experience
 - Combined behavior of all relevant applications in a certain location
 - Metric is not simply volume of traffic, but also relative and absolute timing (aggregate and individual traffic profile)

Web Push Subscription Authority (WPSA)

- Solution to both problem
- Trusted authority in charge of managing Web Push traffic across application and provide subscription-less Web Push
 - Subscription-less does not mean uncontrolled
- Controls combined volume and profile of Web Push traffic to each UA
- Applies policies, can be globally defined
 - Throttle
 - Prioritize application traffic

WPSA: Challenges

- Definition of Trust
 - UAs must trust
 - Applications must trust
- Architecture for scalability and local applicability
- WPSA discovery

Next Steps

- Solicit discussion on Subscription Management
 - Subscription Management is a very relevant, urgent, practical issue for adoption of Web Push
 - Needed to define Web Push Quality of Experience
- Should be a topic addressed by WG
 - Continue discussion and reach agreement on the mailing list
- Evolve this draft into Subscription Management Framework draft
 - Solicit co-authors on the mailing list
 - Work towards making Subscription Management Framework a WG document