

## Usability, Authentication and Privacy for Web browsers.

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### Perspective on the topic of the Workshop

Due to proliferation of web services and web based systems need for reliable authentication mechanism on web browsers is increasing. While necessity of strong authentication with browsers has been increasing, identification of the browser as partial function of advertising network or Client-side Data Management Platform (DMP) is also becoming hot topic. With these new features of web-browsers preservation of privacy of users is also significant issue.

### Viewpoint

Followings are viewpoints and current related research activity in the scope of workshop.

#### 1. Vendor neutral online authentication platform

Cloud-base password management infrastructure.

An open platform password management function with high usability. (a service like "lastpass" but easily deployable and vendor neutral). Currently working to develop casual authentication method simply sends out link to a URL with session ID so that users can simply receive e-mail then just click to login

#### 2. User Tracking and Privacy

By applying data fusion techniques against web browser we have confirmed that a server is able to track unique web browser. These techniques can be applied to manage user information for advertisement on the web browser, however, certain level of privacy issue exist. Discussion

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on privacy preservation coping with user tracking is current hot topic in related area.

### 3. Cryptographic Module Validation

Web Cryptography API may be required to examine with Cryptographic Module Validation Program. I have been involved in The JCMVP (Japan Cryptographic Module Validation Program ) as one of technical committee members I personally interested in how to validate cryptographic module implemented on web browser and other platform.

### Suggestions

Any topics mentioned above can be presented at the workshop.