

Authentication using companion devices

Background

Smartphones and smart watches are or are becoming commodity devices in the hands of hundreds of millions of users. Many of them include sophisticated security technology such as face recognition or fingerprint readers. At the same time users are signing up to more and more online services, and with that they need to authenticate themselves to a growing number of service providers on a regular basis.

There are already a number of generic authentication solutions available, such as BankID, “Log in with Facebook” or “Log in with Google”, but none of these use the latest development in personal authentication provided by modern devices. We would like an authentication solution to be very simple for users to use and very simple for service providers to integrate with, while at the same time harvesting the secure and easy to use features of modern day smartphones and smart watches.

Description

The master thesis work would focus on investigating the requirements for a cross-platform authentication solution that uses the power of smartphones/smart watches. The solution would need to be able to manage authentication across any number of services and platforms, and provide a simple cloud-based integration point for service providers.

The thesis should attempt to describe business requirements and technical requirements for such a solution, as well as provide a proof of concept implementation.

Qualifications

The thesis requires knowledge and interest of programming, as well as knowledge in online security. A personal interest and drive for the technical development of consumer electronics and new ways of using technology is greatly appreciated.

Please send your application, including a resume and cover letter, to thesis@accedo.tv before August 15, 2015.

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Thesis work will be carried out in Stockholm. 30hp.

