A new authentication method easy to migrate from traditional authentication system

That’s a must-see. No password management is needed on web server

Comparing Password-Based Authentication which has about ten characters, the two-factor authentication protocol (M-Pin authentication protocol) has high security. However, most service providers need modification of an existing system to migrate to M-Pin authentication. Then, we have developed the non-interactive and password-less authentication system*1 which is capable of the migration from Password-Based Authentication to M-Pin authentication with a small change. Using this system, a service provider can migrate to high safe the two-factor authentication system easily.

Features

- [Facility to migrate an authentication protocol]
  This system enables to migrate to the two-factor authentication protocol by changing the configuration of an existing system only.

- [Flexibility of the component of the system]
  This system is capable to authenticate a user, using user’s data such as user-name or address stored in LDAP server.

- [High security]
  In this system, the data of Non-interactive authentication is secure form eavesdropping and forgery, because a user sends the data which is converted to authentication data by advanced cryptographic technology.

- [Avoidance of a risk for the leakage of the password]
  The service provider only has to keep one secret data in non-interactive and password-less authentication server. Therefore, M-Pin protocol prevents from leaking of password stored in LDAP server.

Application Scenarios

- Migrating to the two-factor authentication system, the service provider can reinforce the security of web service which uses the Password-Based authentication.

- The users can choose the two-factor authentication protocol or an existing Password-Based protocol.

Note:
*1 Non-interactive and password-less authentication system is developed in collaboration with NTT Innovation Institute, Inc. and with MIRACL Inc. *2 We have modified M-Pin authentication protocol in order to use Password-Based Authentication protocol together. *3 The integration technology which switch to two-factor authentication protocol or Password-Based Authentication by authentication data