



## WP42 - Universal Authentication Service

### D42.6 - Specification of Execution Environment

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## Abstract

The FutureID project builds a comprehensive, flexible, privacy-aware and ubiquitously usable identity management infrastructure for Europe. It integrates existing eID technologies, trust infrastructures, emerging federated identity management services, and modern credential technologies. It creates a user-centric system for the trustworthy and accountable management of identity claims.

The Identity Broker provides an interface for service providers to connect to the FutureID infrastructure. Therefore, service providers are able to easily integrate arbitrary eID services using various user credentials. In the Claims Transformer Mode the Identity Broker includes the Universal Authentication Services (UAS) which in turn performs the authentication of the users. The UAS will support a wide range of authentication protocols implemented by the various authentication tokens deployed across Europe.

Authentication protocols are described in the Authentication Protocol Specification (APS) language, which makes it possible to support arbitrary protocols in a very efficient manner. The APS descriptions of the authentication protocols in turn refer to appropriate Basic Services. Basic Services provide a set of common functionality like cryptographic and smart card services, which are needed by the majority of the authentication protocols.

The UAS acts as an Authentication Service and is capable of authenticating users. The UAS encompass two interfaces, the Authentication-Interface for the communication with the users (i.e., FutureID clients) and the Universal Service Interface to communicate with the Identity Broker. The core component of the UAS is the Job Execution Environment, which runs arbitrary authentication protocols specified in the APS language.

This document provides a short overview of the UAS and specifies the Job Execution Environment in detail.

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