DigitalPersona Access Management API

Version 3.1.1

Overview

The DigitalPersona Access Management API provides a comprehensive set of components and libraries exposing various functions and methods for using the power of the DigitalPersona platform in your own custom-built web-based and native Windows applications.

Sample programs are also provided, which illustrate the features available through the included APIs.

This documentation is divided into several sections that align with the specific uses of the various components, APIs and wrappers available.

To read an overview of each section, on desktop browsers, use the links on the left. For mobile browsers, use the Menu button at the top of the screen.

To go directly to detailed documentation on an item, use the links below to view the GitHub Pages documentation provided with the item's repository.

Section	GitHub Pages documentation	Purpose
Components	digitalpersona-core	Contains the core classes and functions shared by the Access Management APIs.
	digitalpersona-services	JS wrappers for the Web Access Services shared by the authentication and enrollment APIs
	digitalpersona-authentication	API enabling credential authentication
	digitalpersona-enrollment	API enabling credential enrollment
	digitalpersona-devices	API providing access to devices supported by the DigitalPersona Access Mangement API.
	digitalpersona-native-api	API providing native Windows implementation of enrollment, authentication and device access.
Sample Applications	digitalpersona-web-sample	Sample web application illustrating web authentication, enrollmenbt and device access.
	digitalpersona-native-api	Sample native Windows applications in C++ and .NET, illustrating Windows enrollment, authentication and device access.

For web-based applications, you can use the Authentication or Enrollment APIs directly, or through the relevant JavaScript wrappers to enroll and authenticate DigitalPersona users quickly and easily against authentication policies as defined by the DigitalPersona administrator or through custom policies defined by your application, and subsequently release their users' protected data (secrets).

For Windows native applications, the Native API provides an API which can accessed through either C++ or .NET applications.

All of the authentication credentials provided in the DigitalPersona solution are supported through the corresponding APIs except for the Face credential (for web APIs) and the Bluetooth credential (web and Windows APIs).

Working environment

Use of the included APIs assumes that an appropriate DigitalPersona solution has been installed, configured and verified. Features exposed through the Native APIs can be used in a minimal DigitalPersona environment consisting of the DigitalPersona Workstation or DigitalPersona Kiosk and a single DigitalPersona AD or LDS Server. Use of the REST APIs requires the additional installation of the DigitalPersona Web Components package.

Target Audience

Developers should have an understanding of the core components of the DigitalPersona solution and its terminology and concepts. They should also be knowledgeable in the specific target platform and the relevant development language.

Additional Resources

You can refer to the additional resources described in this section to assist you in using the API.

Subject	Resource
Concepts, features, processes and terminology used in DigitalPersona solutions	DigitalPersona AD and LDS Administrator Guides, Client Guide and supporting documentation is available at: https://www.crossmatch.com/company/support/documentation

System Requirements

Development system

REST APIS

In addition to the requirements listed above, the following are required for use of the Web AUTH and Web Enrollment APIs.

- Windows Web Server (IIS)
- DigitalPersona Web Management Components
- An SSL certificate

See the DigitalPersona Administrator and Client Guides for instructions on installing and configuring the above components.

NATIVE API

The recommended minimum software requirements needed to develop applications with the DigitalPersona Native API are:

- Development workstation running Windows 7 or later and DigitalPersona Workstation or Kiosk.
- To compile the sample code: Visual Studio 2008 or later. DigitalPersona Server running Windows Server 2012 and DigitalPersona AD or LDS Server.

Core Components

The DigitalPersona Core Components contains the core classes and functions shared by the DigitalPersona Access Management APIs.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-core GitHub Pages *documentation*, click the following link.

Digitalpersona Core Components Documentation

To view the digitalpersona-core *repository*, click this link.

Digitalpersona Core Components Repo

Web Access Services

The DigitalPersona Web Access Services provide JavaScript wrappers for Web Access services shared by the authentication and enrollment APIs.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-services GitHub Pages documentation, click the following link.

Digitalpersona Web Access Services Repo

To view the digitalpersona-services Repo, click this link.

Digitalpersona Web Access Services Repo

Authentication API

The DigitalPersona Authentication API is used to implement authentication of supported credentials in your web-based application.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-authentication GitHub Pages documentation, click the following link.

Digitalpersona Authentication API Repo

To view the digitalpersona-authentication Repo, click this link.

Digitalpersona Core Components Repo

Enrollment API

The DigitalPersona Enrollment API enables enrollment of supported credentials within your web application.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-enrollment GitHub Pages documentation, click the following link.

Digitalpersona Enrollment API Documentation

To view the digitalpersona-enrollment Repo, click this link.

Digitalpersona Enrollment API Repo

Devices API

The DigitalPersona Devices API provides access to devices supported by the DigitalPersona Access Management API.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-devices GitHub Pages documentation, click the following link.

Digitalpersona Devices API Documentatin

To view the digitalpersona-devices Repo, click this link.

Digitalpersona Devices API Repo

Native API

The DigitalPersona Native API allows the developer to add DigitalPersona authentication, enrollment and device access to their Windows applications.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-services GitHub Pages *documentation*, click the following link.

Digitalpersona Native API documentation

To view the digitalpersona-services *Repo*, click this link.

Digitalpersona Native API Repo

Sample Applications

The DigitalPersona Sample Applications illustrate use of the web and native Windows APIs for enrollment, authentication and device access.

[Could use additional high-level content, but not duplicating or overlapping the main content on the authentication repo.]

To view the digitalpersona-samples GitHub Pages *documentation*, click one of the following links.

Digitalpersona Samples Overview

Digitalpersona C++ Sample Appiication Documentation

Digitalpersona .NET Sample Application Documentation

Links to the relevant repositories are provided in the documentation.