



# 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. Links to each repository are provided on the first page of its documentation.

Section	Repository & documentation	Purpose
Components	<a href="#">digitalpersona-core</a>	Contains the core classes and functions shared by the Access Management APIs.
	<a href="#">digitalpersona-services</a>	JS wrappers for the Web Access Services shared by the authentication and enrollment APIs
	<a href="#">digitalpersona-authentication</a>	API enabling credential authentication
	<a href="#">digitalpersona-enrollment</a>	API enabling credential enrollment
	<a href="#">digitalpersona-devices</a>	API providing access to devices supported by the DigitalPersona Access Management API.
	<a href="#">digitalpersona-native-api</a>	API providing native Windows implementation of enrollment, authentication and device access.
Sample Applications	<a href="#">digitalpersona-javascript-sample-application</a>	Sample web application illustrating web authentication, enrollment and device access.
	<a href="#">digitalpersona-web-sample</a>	Sample application illustrating web authentication, enrollment and device access.

	<a href="#">digitalpersona-oidc-sample</a>	Sample application using OpenID Connect that illustrates web authentication, enrollment and device access.
	<a href="#">digitalpersona-native-samples</a>	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 be 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: <a href="https://www.crossmatch.com/company/support/documentation">https://www.crossmatch.com/company/support/documentation</a>

## 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.

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 repository](#)

## Web Access Services

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

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

[Digitalpersona Web Access Services documentation](#)

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

[Digitalpersona Web Access Services repository](#)

## Authentication API

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

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

[Digitalpersona Authentication API documentation](#)

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

[Digitalpersona Authentication API repository](#)

## Enrollment API

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

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

[Digitalpersona Enrollment API documentation](#)

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

[Digitalpersona Enrollment API repository](#)

## Devices API

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

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

[Digitalpersona Devices API documentation](#)

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

[Digitalpersona Devices API repository](#)

## Native API

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

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

[Digitalpersona Native API documentation](#)

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

[Digitalpersona Native API repository](#)

## Sample Applications

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

Use the following links to view documentation for each sample application. Links to the associated repositories are provided in the documentation.

[Digitalpersona JavaScript sample application](#)

[OpenID Connect \(OIDC\) sample application](#)

[Digitalpersona web sample application](#)

[Digitalpersona C++ sample application](#)

[Digitalpersona .NET sample application](#)