

GlobalSign OAuth Authorization Server

Verify user identities with
over 20 authentication
mechanisms



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20+

Authentication methods
from social identities to
strong multi-factor
out-of-band methods



OAuth 2.0 protocol focuses on simplifying client development efforts, and enables various authorization work-flows for multiple use cases for verifying the user identity.

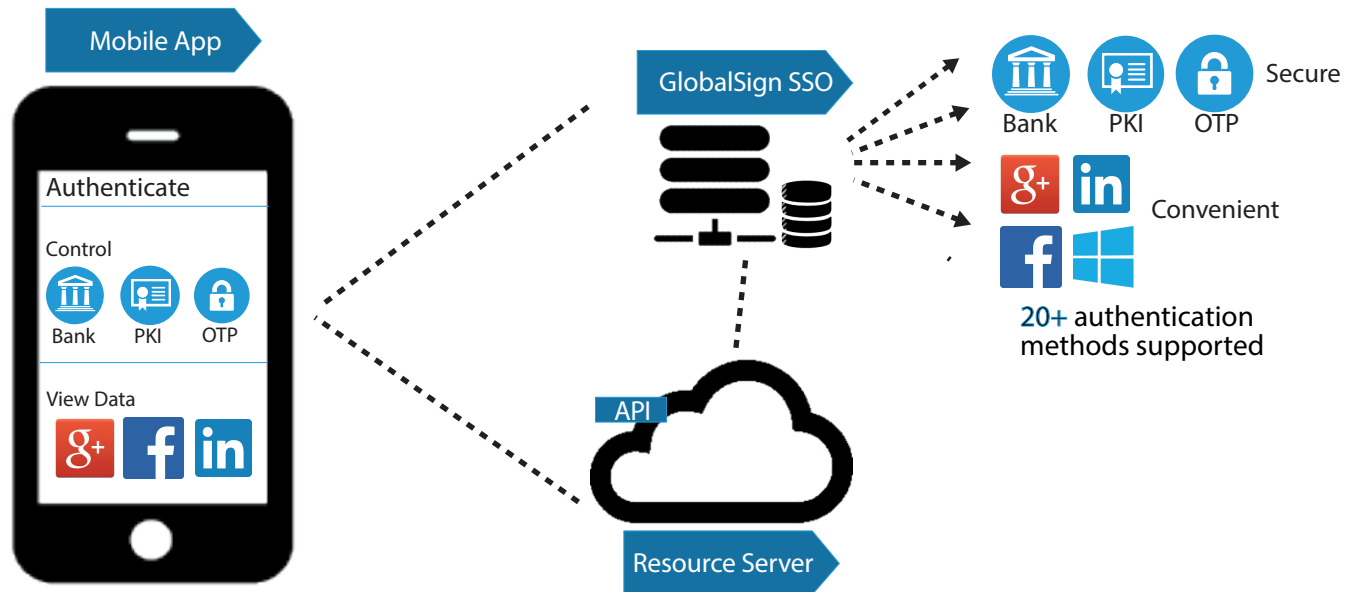
With the OAuth Authorization Server component of the GlobalSign IAM solution, you can use practically any of the 20+ authentication mechanism available with your GlobalSign SSO setup for user identity verification to web applications, desktop applications, mobile apps, car entertainment systems, home automation set-ups, APIs, or any OAuth 2.0 enabled device or application. OAuth 2.0 is one of the prevailing standards for securing the Internet of Everything (IoE). Depending on your use case, GlobalSign SSO delivers the correct way to implement the user or device authentication in the first step of the OAuth workflow.

GlobalSign OAuth Authorization Server available as a part of GlobalSign SSO is a complete OAuth package to help your organization implement or utilize proper user identity verification for OAuth clients and online services, APIs and back-end services.

- GlobalSign SSO is an OAuth 2.0 compliant authorization server supporting over 20 authentication mechanisms out-of-the-box
- Client code examples for most popular platforms for desktop and mobile use cases for communicating with the GlobalSign SSO OAuth Authorization server and requesting the OAuth Token
- Resource server code examples for communicating with the GlobalSign SSO to validate the presented OAuth token

With GlobalSign SSO, you don't have to worry about implementing the authentication mechanisms yourself, or developing support for various authentication protocols. The integration is straightforward and easy, and it shortens the time-to-market of your solution, decreases maintenance costs, and improves security and convenience. When GlobalSign SSO takes care of the authentication, you can add, modify, and remove different mechanisms to your solution with simple configuration changes in GlobalSign SSO. For user convenience or security, you can select any of the supported 20+ authentication methods from social identities to strong multi-factor out-of-band methods.

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Main Use Cases for OAuth

[Implement a flexible and future proof user authentication functionality for your application](#)

OAuth is a perfect way to implement user identity verification for your desktop or mobile applications. The best and future proof way to achieve a flexible and easy to change authentication scheme is to integrate your application to the GlobalSign SSO OAuth Authorization Server.

The extension of the authentication use case allows an online service to request information or access on behalf of the user, making it easy to collect additional information from other resources.

[API protection](#)

Online services with commercial APIs offer aggregated data for their customers. OAuth is one of the easiest ways to manage the access to these APIs. With OAuth and the GlobalSign IAM solutions, you can easily create and manage accounts accessing the APIs, and offer an easy-to-integrate authentication for your commercial API.

[Identity for connected devices \(IoE\)](#)

Much like the application use case, implementing support for device or user authentication with OAuth is straightforward and simple. OAuth is one of the primary protocols in implementing authentication in the IoE.

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20+ Authentication methods available for your mobile and, desktop applications, or IoT devices

Social	Facebook, Google, Yahoo!, Microsoft Live, LinkedIn, Mixi, VKontakte, any OpenID, OAuth
Username and Password	ID+pwd, Window SSO, AD password, SQL password, LDAP
One-time passwords	OTP TAN list self-service print-out & SMS OPT, 3rd party tokens RSA, VIP
Mobile	ETSI MSS Wireless PKI standard (native client), SMS OTP
Business	Microsoft Office 365, Google Apps for Business, Active Directory
Bank IDs	Mobile PKI, soft certificate, smart cards, eID

Supported Authorization Grant Types

OAuth 2.0 Authorization Code Grant:

The authorization code grant starts with the client, such as a web-based service, redirecting the resource owner's user-agent to the GlobalSign SSO authorization service. After authenticating the resource owner and obtaining the resource owner's authorization, GlobalSign SSO redirects the resource owner's user-agent back to the client with an authorization code that the client uses to request the access token.

OAuth 2.0 Password Grant:

The resource owner, such as the end user or service account in a server-to server scenario, password credentials grant lets the client use the resource owner's user name and password to get an access token directly.

This grant type should be used in a secure context where other authorization grant types are not available, such as a client that is part of a device operating system using the resource owner's credentials once and thereafter using refresh tokens to continue accessing resources

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Technical Details

GlobalSign SSO implements the OAuth 2.0 authorization server role. The main use cases are:

- Authorization code grant and web single sign-on
- Authorization code grant and native applications
- Password grant and native applications
- Password grant and server-to-server integrations

Standards and recommendations reference

The OAuth 2.0 Authorization Framework

- <https://tools.ietf.org/html/rfc6749>
- <https://tools.ietf.org/html/rfc6750>

OpenID Connect Core

- http://openid.net/specs/openid-connect-core-1_0.html

OAuth 2.0 Token Introspection

- <https://tools.ietf.org/html/draft-ietf-oauth-introspection-08>

About GlobalSign

GlobalSign, founded in 1996, is a provider of identity services for the Internet of Everything (IoE), mediating trust to enable safe commerce, communications, content delivery and community interactions for billions of online transactions occurring around the world at every moment. Its identity and access management portfolio includes access control, single sign-on (SSO), federation and delegation services to help organizations and service providers create new business models for customer and partner interactions. GlobalSign's core digital certificate solutions allow its thousands of authenticated customers to conduct SSL secured transactions, data transfer, distribution of tamper-proof code, and protection of online identities for secure email and access control.

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For additional information about our products, case studies and white papers, please visit:

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