



CGI SecureAccess

Identity and Access Management

Administrator User Guide



1 Introduction

This is the user guide for Administrators, providing information how to configure and manage your Identity and Access Management Service (**CGI SecureAccess**).

Within CGI IPS Business Unit, a CGI SecureAccess Solution is developed. Dedicated Administrators use the CGI SecureAccess Solution. With the Service, the Administrator can configure users to groups and roles to guarantee that the right persons have access to agreed functionality. Managing access control ensures that all persons are authenticated to perform activities they are allowed to do. Access logging history is available to Administrators. CGI SecureAccess Solution is available for all solutions to authenticate, manage and track user access. The simplicity to link the centrally managed SecureAccess solution to an UI makes it very easy to configure and use. The solution complies with GDPR regulations and Security guidelines.

The implementation of the centralized CGI SecureAccess solution enables:

- Optimization of costs
- Clear, centralized control
- Secure, controlled access to IPs and applications
- Compliance with GDPR and security guidelines
- One central configuration, build on KeyCloak open source software
- SCIM compatibility to allow for example Active Directory synchronization
- Simple to setup and use
- User logging data available
- 2 Factor Authentication

The documentation is accessible via <https://access.ips.cgi.fi>. Access to the administration console is available on demand.

For more information, please send an email to: servicedesk.sdscommon.fi@cgi.com

The CGI support team will contact you with the required details regarding the onboarding process and pricing model.

2 Administration

This is the administration user guide for the CGI SecureAccess Solution.

You will find information here on how to request realm* access and the base guidelines on how to get use this solution.

* A **realm** is a space where you manage objects, including users, applications, roles, and groups.

2.1 How to apply to the CGI SecureAccess Solution

The CGI SecureAccess Solution is an enterprise level Identity and Access Management Service based on KeyCloak open source software (<https://www.keycloak.org>) provided by CGI.

For more information and to request realm access to the Solution please send an email to: servicedesk.sdscommon.fi@cgi.com

The CGI support team will contact you with the required details regarding the onboarding process and pricing model.

2.2 CGI SecureAccess Solution Features

The key objective for the CGI SecureAccess Solution is to provide a stable and secure enterprise level, high available Identity and Access Management service. The Solution is based on KeyCloak open source software which will be updated periodically to guarantee that the CGI SecureAccess Solution remains up to date.

Key benefits in using the CGI SecureAccess Solution in comparison with the standard KeyCloak open source installation are:

- Fully managed, high available, fail-over stable environment.
- Secure, controlled access to applications and services
- Optimization of costs
 - o No need to maintain your own instance of KeyCloak
 - o Clear, centralized control
- Available as SaaS and on request on-premise
- Multi language support: Currently English, German, Finnish and Swedish are supported (more can be added)
- Single Sign On (SSO) support
- SCIM compliant, which enables for example Active Directory synchronization.
- Compliance with GDPR and security guidelines
- Multiple authorization services (OpenID Connect, OAuth 2.0, SAML 2.0 etc.)
- 2 Factor Authentication
- Service desk support

- Simple to setup and use.
- User logging data and metrics available

CGI SecureAccess takes away the need to maintain and upkeep your own identity and access management solution. With the assurance of always having a stable and up-to-date version that is highly available, CGI SecureAccess takes out the need to install, configure and maintain various KeyCloak instances by your own team. As such it frees up your resources to focus on other important areas within your project.

2.3 How to connect CGI SecureAccess to your Users Interface or API

The CGI SecureAccess Solution can act as an identity broker and/or identity provider to allow your users to use your own login pages while having SecureAccess take care of the authentication. This means you can use your own application to log on, while the CGI SecureAccess Solution handles the identification and authorization of your users. The CGI SecureAccess Solution will work in the background without your users even noticing it.

As a KeyCloak based solution, CGI SecureAccess Solution is an offering that supports modern authentication backends and allows the usage of multiple high functioning client connectivity interfaces like for example Spring Boot and Java. In practice this means that with minimal effort you will be able to integrate the CGI SecureAccess Solution with your applications and achieve high availability and maximum productivity.

Documentation on how to use KeyCloak's API's can be found here:

- How to secure apps: <https://www.keycloak.org/guides#securing-apps>
- Javadoc documentation: <https://www.keycloak.org/docs-api/latest/javadocs/index.html>
- Administration REST API's: <https://www.keycloak.org/docs-api/latest/rest-api/index.html>

2.4 KeyCloak Documentation

The CGI SecureAccess Solution is based on an up-to-date stable version of KeyCloak (<https://www.keycloak.org>). Typically, this will be the latest stable version as we see reliability and stability as key requirements for our Solution. The current version in use is version 26.1.4. All actions required for setting up your realms can be found through the KeyCloak documentation.

- KeyCloak documentation: <https://www.keycloak.org/documentation>
- Server Administration: https://www.keycloak.org/docs/latest/server_admin/index.html
- Realm Configuration: https://www.keycloak.org/docs/latest/server_admin/index.html#_configuring-realms

- User management:

https://www.keycloak.org/docs/latest/server_admin/index.html#assembly-managing-users_server_administration_guide

- Assigning permissions using roles and groups:

https://www.keycloak.org/docs/latest/server_admin/index.html#assigning-permissions-using-roles-and-groups

- Server Development Guide:

https://www.keycloak.org/docs/latest/server_development/index.html

- Themes:

https://www.keycloak.org/docs/latest/server_development/index.html#_themes

- Authorization Services Guide:

https://www.keycloak.org/docs/latest/authorization_services/index.html

Certain settings and configurations are already pre-set through the master configurations to increase the usability of the service out-of-the-box. Each of these settings can of course be changed by your own realm configuration.