


# POS API

 This section describes the POS application programming interface (API), which can be used to integrate POS with other software systems.

## Introduction

POS provides a GraphQL API that enables clients to query and update POS data. A thorough understanding of GraphQL is necessary to understand how to use the API.

See <https://graphql.org/> for more information about GraphQL.

This link contains information about how to create GraphQL queries, and many links to development tools that can help you access the APIs programmatically.

## OpenID Connect

Programmatic API access is protected through Open ID Connect. To access the API, your development tools and libraries must support authentication through Open ID Connect and the related OAuth technologies.

OpenID Connect (OIDC) is a large and complex specification, which can be found at: <https://openid.net/developers/specs/>. Before wading into the details of understanding OIDC, we recommend that you choose a client library that corresponds to your programming environment first. Typically the client library documentation will provide better insight into how you can connect and authenticate via OIDC.

A list of certified client library implementations can be found at: <https://openid.net/developers/certified/#RPLibs>.

Communications from a trusted client - for example, a server computer that only you have access to - are usually best handled by the Client Credentials Flow. This type of authentication is described within our documentation.



Communications from non-trusted clients – for example, software deployed to a non-secure environment like a store – may require a different OIDC flow type. Ensure that you understand the implications of the available OIDC flow types and when they should be used. It is your responsibility to secure your software client and the OIDC flow type that is used.

## graphiql-client

The POS admin console provides a feature to let you test your GraphQL queries. You can access this tool via the [Configuration / GraphiQL](#) menu.

In addition to testing your queries while developing integration code, this tool can be helpful if you want to perform simple ad-hoc queries during daily operations.

You can also use the tool to view reference documentation for each endpoint – simply click entity or field names to access the documentation.

## Permissions

GraphQL queries are subject to the permissions of the account that is executing the query. For this reason, you may encounter security errors when attempting to execute certain queries.

If you run into these errors, a manager can adjust security permissions through [Users](#) and [Roles](#).

Documentation below describes the types of permissions that are required to access endpoints.

## API Overview

The POS API is a work-in-progress: API endpoints are being added and expanded with each new POS version.



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## Supported Endpoints

- ✖ • query
  - customer
  - environment
  - giftcard
  - item
  - itemSerialLot
  - itemWarehouse
  - location
  - product
  - productBanner
  - productGroup
  - productNotice
  - productSection
  - productSortOption
  - sale
- mutation
  - giftcardAdd
  - giftcardEdit
  - giftcardTransAdd
  - giftcardTransCapture
  - purchaseAdd

Your application should only use the supported endpoints listed above.

## Unsupported Endpoints

Any other endpoints are currently not supported. They are for internal use only, or are in a preview stage of development. These endpoints may change, be removed or renamed at any time.

Don't see an API that you need, or would you like to use one of the unsupported endpoints? Contact Kensium Support - your input is invaluable to creation and finalization of our APIs.



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## Common Tasks

- [Authenticating \(Client Credentials\)](#)
- [Handling Errors](#)
- [Since & Until Values](#)
- [Get Environment Info](#)
- [Get Customer](#)
- [Get Inventory](#)
- [Get Sale History](#)
- [Get Gift Card](#)
- [Create Gift Card](#)
- [Edit Gift Card](#)
- [Create Gift Card Transaction](#)
- [Record Purchase](#)
- [Make Terminal Payments](#)