



# Kofax Equitrac API Reference Guide

Version: 6.4.0

Date: 2023-03-11

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# Equitrac API Overview

Equitrac API provides a REST API to perform operations in the Equitrac product. It is designed to use from various client applications that needs integration with Equitrac. Customers can use our web hosted API in an industry standard way, so the clients can use any technology and can run on any devices, and sending requests to our API does not need uncommon, custom implementation.

## Installation and configuration

The Equitrac API (EQAPI) is installed along with the Equitrac Core Accounting Server (CAS) in the ControlSuite Installer. There are no additional steps needed to install EQAPI.

If you have not already installed Equitrac 6.4, refer to the [ControlSuite Installation help](#).

EQAPI Prerequisites:

- .NET Framework v4.6 or higher
- .NET Core runtime v2.2 or higher

After Equitrac 6.4 is installed, run the Configuration Assistant and set the following:

1. On the **Certificate Management** page, Generate a self-signed certificate or Import a custom certificate. EQAPI can only be used through a HTTPS connection.
2. On the **CS Enrollment** page, enroll the following services into the Security Framework:
  - **Equitrac API**
  - **Web Client**
  - **Core Accounting Service**

Once the EQAPI is installed and setup, it can be accessed on the 'https://localhost:8282/equitracapi/' URL.

3. On the **Licensing** page, ensure that the **Public API functionality** license entitlement is assigned to your system.

## Licensing

**License Server**

**Server location** `https://am-2016:44370` 

**Server ID** `005056BDC520` 

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Feature	Available	Used	Expiration date
Print Submission	Yes	2	permanent
Process Designer	Yes	0	permanent
Public API functionality	Yes	0	permanent
Quota Manager	Yes	0	permanent
Quotas and Billing Acc	Yes	1	permanent
Reporting	Yes	0	permanent

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If EQAPI is not licensed, all API entry points (except the Status API) returns with an 402 response code. The license status of EQAPI can be acquired with the Status API. Refer to the [Kofax Knowledge Base](#) webpage for licensing support.

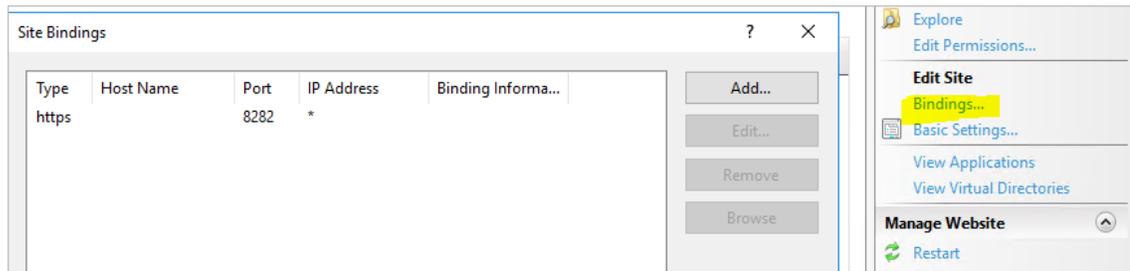
## IIS configuration

EQAPI is a public API, and can be used in different network environments.

 By default EQAPI is installed in IIS and listens on port 8282 with HTTPS protocol. The IIS configuration can be changed manually to suite your environment.

The following are EQAPI IIS settings:

- Application pool: EquitracAPI with the default IIS user.
- Default user: IIS built-in user.
- Web site: Equitrac API
- Default configuration: HTTPS binding with the certificate selected in Configuration Assistant, listening on port 8282.



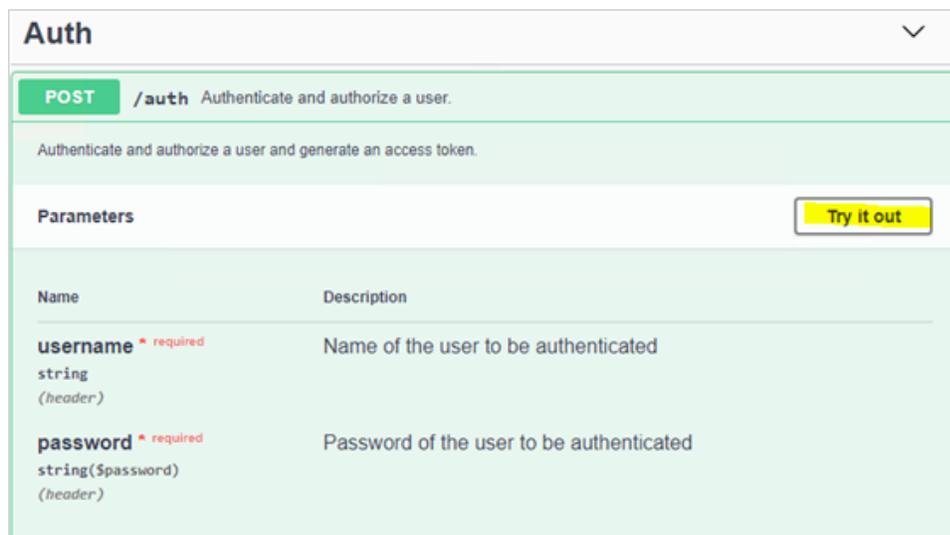
- Web application: EquitracAPI under the EquitracAPI web site.

## Authenticate and authorize a user

Authentication and authorization in EQAPI works according to the [OAuth 2 standard](#). OAuth 2.0 is the industry-standard protocol for authorization by providing specific authorization flows for web applications, desktop applications and mobile devices.

To authenticate and authorize a user with Auth API, and generate an access token, do the following:

1. Send a **POST request** to the Auth API (/auth). Enter the **username** and **password** for the Windows user to be authenticated.



2. The API sends a response code a (HTTP 200), and delivers an access token with an expiration time (in seconds) in the response body. This access token contains the available roles of the user.



## API reference

EQAPI has a web page where all API entry points are documented and can be played with them. It is called the Swagger page, see in the next section. Every operations are well documented and self-explanatory there, including the possible parameters and the possible results."

### ApiError

All non-success responses contain ApiError object(s). This object provides a unique business error code for possible error cases and a textual message.

```
ApiError {
  description:
    code
    Represents an error from all possible error cases
    integer($int32)
    Available values :
    NoError = 0,
    UserInvalidCredential = 1001,
    Unauthorized = 1002,
    Forbidden = 1003,
    NameAlreadyExists = 2001,
    NameNotFound = 2002,
    AccountInvalidCredential = 2003,
    InsufficientFunds = 3001,
    InsufficientColorQuota = 3002,
    ChargeAccountIsLocked = 3003,
    AccountIsLocked = 3004,
    ParameterIsInvalid = 4001,
    ServiceCommunicationError = 5001,
    ServiceConnectionError = 5002,
    Unlicensed = 6001,
    UrlMismatch = 7001,
    ParameterTypeMismatch = 7002,
    HttpsOnly = 7003,
    UnsupportedApiVersion = 8001,
    UnspecifiedError = 8002

    Enum:
      > Array [ 20 ]
  message
    string
    Textual message to increase understanding the error situation
}
```

The business error code can be used to automate the processing of the responses. The textual message is a human readable description of the error code.

All business like errors are delivered under the response code 400 (Bad Request). Business like error means that the EQAPI infrastructure is healthy, but some regular business process generates an error. For example, if the user wants to add an account which already exists, the service will return a "The given name already exists!" error.

Example for possible business error codes (with human readable texts):

```
[
  {
    "code": 2001,
    "message": "The given name already exists!"
  },
  {
    "code": 4001,
    "message": "The amount should be a number!"
  },
  {
    "code": 4001,
    "message": "A parameter was missing or has invalid format or value!"
  }
]
```

There are other errors which are not strictly related to the business operation, but they are also contain an ApiError object in the response.

Example for “non business” errors (in this case for HTTP 403):

403	<i>Insufficient role</i>
	Example Value   Model
	application/json
	<pre>{   "code": 1003,   "message": "This user does not have role to perform this operation!" }</pre>

## Swagger page

EQAPI has a Swagger web page with a collection of all API entry points, where you can see the input and response parameters, and send requests to them.

The Swagger page is accessed at the EQAPI root URL. (Default is 'https://localhost:8282/equitracapi').

The screenshot displays the Swagger UI for the EquitracAPI. At the top, there is a green header with the Swagger logo and a dropdown menu for selecting an API specification, currently set to 'EquitracAPI'. Below the header, the API title 'EquitracAPI' is shown with a version indicator '1.0.0'. The base URL is provided as '/EquitracAPI/swagger/v1/swagger.json'. The API version and other metadata are listed as 'EquitracAPI, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null'.

The main content area is organized into sections, each with a dropdown arrow on the right. The sections and their endpoints are:

- Auth**:
  - POST /auth: Authenticate and authorize a user.
- Balance**:
  - POST /deposit/{type}: Adjust the balance of an account (user or department or billing code)
  - GET /validateAccount: Validate account
- BillingCode**:
  - GET /billingcode: Retrieve an existing billing code
  - PUT /billingcode: Update an existing billing code
  - POST /billingcode: Add a new billing code
  - DELETE /billingcode: Delete an existing billing code
  - GET /billingcodes: Retrieve a set of billing codes available for a user or department
- Department**:
  - GET /department: Retrieve an existing department
  - PUT /department: Update an existing department
  - POST /department: Add a new department
  - DELETE /department: Delete an existing department
- ManageUser**:
  - GET /user: Retrieve an existing user
  - PUT /user: Update an existing user
  - POST /user: Add a new user
  - DELETE /user: Delete an existing user
- Status**:
  - GET /status: Retrieving Status information like version, license, health check
- Transaction**:
  - POST /transaction/print: Record a print transaction
  - POST /transaction/scan: Record a scan transaction

For every API entry points there are description about the operation, the input parameters and all possible responses. There are example values for the parameters for reference. Use the **Model** view

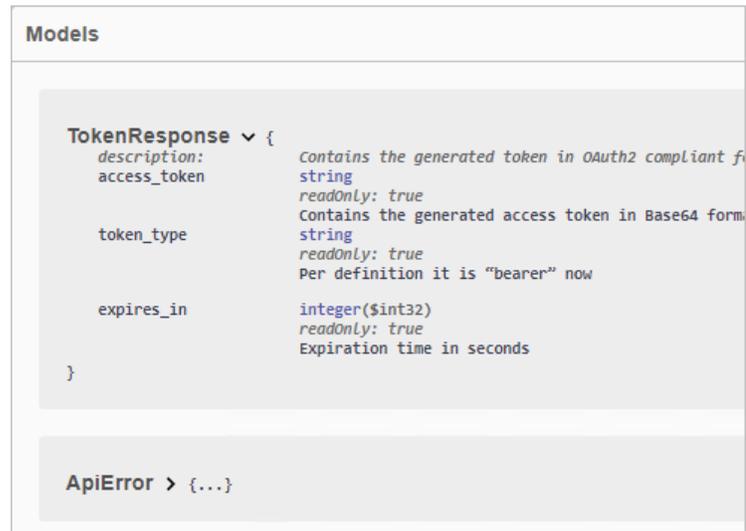
to see the detailed description about the parameter fields. The mandatory fields are marked with a red asterisk.

Parameters

Example Value | **Model**

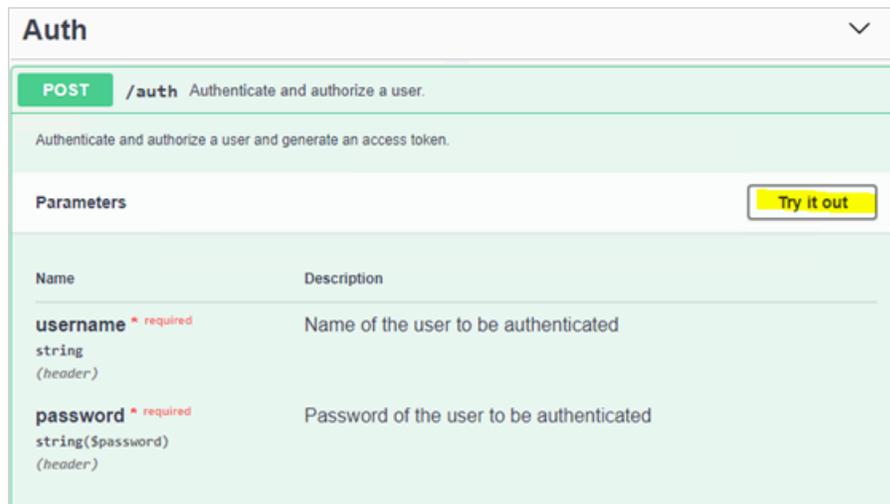
```
ManageUserDto {
  description: Properties for a manage user operation
  accountName* string
    maxLength: 255
    Account name
  fullName string
    maxLength: 100
    Full name
  emailAddress string
    maxLength: 100
    Email address
  balance number($double)
    Balance
  hardLimit number($double)
    Hard limit (the lowest balance allowed)
  primaryPin string
    maxLength: 255
    Primary PIN
  secondaryPin string
    maxLength: 255
    Secondary Pin
  alternatePrimaryPin string
    maxLength: 255
    Alternate primary Pin
  homeDre string
    maxLength: 255
    Home DRE
  colorQuota integer($int32)
    Set this to -1 for unlimited.
  colorPageCount integer($int32)
    Color page count
  locked boolean
    Is the account locked?
  department string
    maxLength: 100
    Department
  scanHomeFolder string
    Scan home folder
}
```

All API models are described at the bottom of the page in the **Models** section.



As was previously mentioned, every operation needs an access token with proper roles. Handling of the access token is automated on the Swagger page, and there is no need for any manual copy operation:

1. First authenticate the user with the Auth API.



2. Click the Try it out button to initiate the authentication. If the given credentials are valid, after the Execute button clicked, the API sends a response code (HTTP response code is 200), and delivers an access token with an expiration time (in seconds) in the response body.





 Comments (0) |  Examples (7) ▼

- Unlicensed - Payment required
- Unexpected error - Internal server error
- Insufficient role
- Unauthorized access
- The given account has been created
- Service unavailable
- Invalid parameters

Add Example