

# API

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## Overview

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## Summary

### Application

This API is modularized by `Application`. An `Application` encapsulates a set of functionality, for example `Inventory Control` provides access to inventory management systems.

### Organization

`Organizations` are hosts that provide a data source that the APIs communicate with and persist information into.

### Requests

Most `Requests` require authentication prior to submission. Authentication requests provide a token that can be used to access the API. These tokens should be base64 encoded and sent through the `Authorization` header as follows.

```
Authorization: Token VmVuZG9yOkM1NjNEQ0JBLTI1NjktNDVCNC04QUZBLUU2RjVENkQzNjExNzpmYzVjMGUzMS0xMWVmLTRiNwYtYjNlZC02MTI5MDVjMmYzNGQ=
```

## Authentication

### Vendor Authentication

Authenticates all requests that require interaction with an organization's API. The return result is the token used for authenticating web requests.

```
PUT /api/{application}/vendor/{key}/authentication
```

### Input

Name	Type	Description

OrganizationCode	string	The unique code for the organization to connect to.
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```
{
  "OrganizationCode": "Code"
}
```

### Parameters

Name	Type	Description
application	string	The application to authentication with.
key	string	The unique vendor key to authenticate with.

### Response

```
Status: 200 OK
84130DFB-1FD9-4872-9E56-7FB5EFF8BD04
```

## User Authentication

Authenticates all requests that require interaction on behalf of a user. The return result is the token used for authenticating web requests.

```
PUT /api/{application}/user/{userName}/authentication
```

### Input

Name	Type	Description
OrganizationCode	string	The unique code for the organization to connect to.
Password	string	The user's password to authenticate with.

```
{
  "OrganizationCode": "Code",
  "Password": "abc123"
}
```

### Parameters

Name	Type	Description
application	string	The application to authentication with.

userName	string	The unique user name for the user.
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**Response**

```
Status: 200 OK
436CD8AD-8C86-434B-B8FF-52C92EF035E0
```

**Change User Password**

Changes an authenticated user's password.

```
PUT /api/{application}/{userName}/password
```

**Input**

Name	Type	Description
CurrentPassword	string	The current password for the user.
NewPassword	string	The new password for the user.
NewPasswordConfirmation	string	The confirmed new password for the user.

```
{
  "CurrentPassword": "abc123",
  "NewPassword": "def456",
  "NewPasswordConfirmed": "def456"
}
```

**Parameters**

Name	Type	Description
application	string	The application to authentication with.
userName	string	The unique user name for the user.

**Response**

```
Status: 200 OK
```

**Applications****Application Status**

Gets the status of for an Organization's Application.

```
GET /api/{application}/status
```

### Parameters

Name	Type	Description
application	string	The application to evaluate status for.

The output status is represented as one of three values:

- -1 Internal Error
- 0 Offline
- 1 Online

### Response

```
Status: 200 OK  
1
```

## Gets an Application's settings

Gets the settings for an Organization's Application.

```
GET /api/{application}/settings
```

### Parameters

Name	Type	Description
application	string	The application to get settings for.

### Response

```
Status: 200 OK  
{  
  "Setting1": "Setting1Value",  
  "Setting2": "Setting2Value"  
}
```

## Updates an Application's settings

Updates the settings for an Organization's Application.

```
PUT /api/{application}/settings
```

```
{  
  "Setting1": "Setting1Value",  
  "Setting2": "Setting2Value"  
}
```

### Parameters

Name	Type	Description
application	string	The application to update settings for.

### Response

Status: 200 OK

Overview

GIS

Inventory Control

Parking Ticket Synchronization

Utility Billing IVR

Utility Billing Service Requests