

# Easy RFID Cloud Connect API

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## Overview

Following is a description of the EasyRFID Cloud Connect API. This API is intended for bi-directional interaction of data contained within your EasyRFID data store. Each available message is defined and described in the following sections. Examples are provided where appropriate.

## Authentication

Authentication is currently provided via authorized username and password. A request to the login endpoint must be made to receive a bearer token for any future requests. This token has a lifetime of 60 minutes. Once expired, a new token will be required for future requests. Later releases of this API are considering the use of alternative methods of authentication but are not available currently.

## Error Management and Reporting

Any requests generating an error are reflected appropriately via the HTTP status code and JSON response message.

## Messages

### Authentication

**Endpoint:** login.cloud.ptshome.com/api/v1/login

**Supports:** POST

**Request**

**Body (JSON) Parameters**

Param	Data Type	Required	Comment
username	String	Y	Portal username
password	String	Y	Portal password

**Response**

**Type:** JSON

Param	Data Type	Comment
result	Boolean	Indicates login success or failure
userid	String	Not used by API
username	String	Not used by API
token	String	Not used by API
reg	String	Not used by API
accounted	string	Not used by API
accountuid	String	Not used by API
access_token	String	Token for use in subsequent API calls

code	Integer	Status code for the previous request
uuid	String	Not used by API
key	String	Not used by API
phonehome.maxoffline_mins		Not used by API

## Seed Data

**Endpoint:** cs.iot.ptshome.com/api/v1/data/14223767938169215907

**Supports:** GET/POST/PUT/PATCH

### Header

Key	Value
Authorization	Bearer [*Your <access_token> from Login response*]

**GET:** Returns a requested number of **Seed Data** records.

### Request

Param	Data Type	Comment
filter[]	String	Optional Filter array for any available field, operator and value
offset	Integer	Optional data row offset value. Useful for batched fetching of data
limit	Integer	Optional limit for returned row count
sort[]	String	Optional array to define the sort fields
returncount	Boolean	Indicates if THIS request row count should be returned

### Response

**Type:** JSON

Param	Data Type	Comment
totalcount	String	Total rows matching the request filter
returncount	Integer	Total rows returned in THIS response
offset	Integer	Current row offset of THIS returned data
limit	Integer	Current limit of THIS returned data
data[]		Array of rows returned for this request
...uuid_seed_data	Integer	Unique ID for this data row
...rental_class_id	String	Rental class ID
...common_name	String	Common name
...bin_location	String	Bin Location for this item
result...		
...success	Boolean	Indicates success of the request
...code	Integer	Status code of the request
Version	String	String version of the JSON response version

**POST/PUT/PATCH:** Allow insert or update of an existing data row

### Request

**Body (JSON)**

Param	Data Type	Comment
[]	Array	Array of data rows containing items to update
...uuid_seed_data	Integer	Required reference for the update row. Ignored if inserting
...rental_class_id	String	Rental class id of the item to update or insert
...common_name	String	Common name of the item to update or insert
...bin_location	String	Bin location of the item to update or insert

### Response

**Type:** JSON

Param	Data Type	Comment
data[]		Array of rows and overall result
,,,rows[]		Array of data rows affected and status of each
.....result		
.....success	Boolean	True indicates success for THIS submitted request row
...result		
,,,,,success	Boolean	True indicates success for ALL submitted request rows
.....code	Integer	Error code. 0 on success
Version	String	JSON version of this message

## Item Master Data

**Endpoint:** cs.iot.ptshome.com/api/v1/data/14223767938169344381

**Supports:** GET/POST/PUT/PATCH

### Header

Key	Value
Authorization	Bearer [*Your <access_token> from Login response*]

**GET:** Returns a requested number of **Item Master** records.

### Request

Param	Data Type	Comment
filter[]	String	Optional Filter array for any available field, operator and value
offset	Integer	Optional data row offset value. Useful for batched fetching of data
limit	Integer	Optional limit for returned row count
sort[]	String	Optional array to define the sort fields
returncount	Boolean	Indicates if THIS request row count should be returned

### Response

**Type:** JSON

Param	Data Type	Comment
totalcount	Integer	Total rows matching the request filter
returncount	Integer	Total rows returned in THIS response
offset	Integer	Current row offset of THIS returned data
limit	Integer	Current limit of THIS returned data
data[]	Array	Array of rows returned for this request
tag_id	String	RFID Tag ID for this item
serial_number	String	Serial number
rental_class_num	String	Rental Class Number
common_name	String	Common name
quality	String	Quality
bin_location	String	Bin Location
status	String	Status string
last_contract_num	String	Last assigned contract number
last_scanned_by	String	Last scanned by username
notes	String	Notes
status_notes	String	Status Notes

long	String	Last seen Longitudinal location
lat	String	Last seen Latitude location
date_last_scanned	String	String value of last scanned date (yyy-mm-dd hh:mm:ss)
result...		
...success	Boolean	Indicates success of the request
...code	Integer	Status code of the request
version	String	String version of the JSON response version

**POST/PUT/PATCH:** Allow insert or update of an existing data row

#### Request

##### Body (JSON)

Param	Data Type	Comment
[]	Array	Array of data rows containing items to update
...tag_id	String	RFID Tag ID for this item
...serial_number	String	Serial number
...rental_class_num	String	Rental Class Number
...common_name	String	Common name
...quality	String	Quality
...bin_location	String	Bin Location
...status	String	Status string
...last_contract_num	String	Last assigned contract number
...last_scanned_by	String	Last scanned by username
...notes	String	Notes
...status_notes	String	Status Notes
...long	String	Last seen Longitudinal location
...lat	String	Last seen Latitude location
...date_last_scanned	String	String value of last scanned date (yyy-mm-dd hh:mm:ss)
result...		
...success	Boolean	Indicates success of the request
...code	Integer	Status code of the request
version	String	String version of the JSON response version

#### Response

Type: JSON

Param	Data Type	Comment
data[]		Array of rows and overall result
,,,rows[]		Array of data rows affected and status of each
.....result		
.....return_fields[]		Array of selectable return field values based on request
.....success	Boolean	True indicates success for THIS submitted request row
...result		Overall results.
,,,,,success	Boolean	True indicates success for ALL submitted request rows
.....code	Integer	Error code. 0 on success
version	String	JSON version of this message

#### Transactions

**Endpoint:** cs.iot.ptshome.com/api/v1/data/14223767938169346196

**Supports:** GET

#### Header

Key	Value
Authorization	Bearer [*Your <access_token> from Login response*]

**GET:** Returns a requested number of **Transaction** records.

**Request**

Param	Data Type	Comment
filter[]	String	Optional Filter array for any available field, operator and value
offset	Integer	Optional data row offset value. Useful for batched fetching of data
limit	Integer	Optional limit for returned row count
sort[]	String	Optional array to define the sort fields
returncount	Boolean	Indicates if THIS request row count should be returned

**Response****Type: JSON**

Param	Data Type	Comment
totalcount	Integer	Total rows matching the request filter
returncount	Integer	Total rows returned in THIS response
offset	Integer	Current row offset of THIS returned data
limit	Integer	Current limit of THIS returned data
data[]	Array	Array of rows returned for this request
...scan_type	String	RFID Tag ID for this item
...contract_number	String	Serial number
...notes	String	Rental Class Number
...tag_id	String	Common name
...rental_class_id	String	Quality
...common_name	String	Bin Location
...serial_number	String	Status string
...location_of_repair	String	Last assigned contract number
...quality	String	Last scanned by username
...bin_location	String	Notes
...status	String	Status Notes
...scan_date	String	Last seen Longitudinal location
...scan_by	String	Last seen Latitude location
...dirty_or_mud	String	String value of last scanned date (yyy-mm-dd hh:mm:ss)
...leaves		
...oil		
...mud		
...stain		
...oxidation		
...other		
...rip_or_tear		
...sewing_repair_needed		
...grommet		
...rope		
...buckle		
...long		
...lat		
...wet		
...service_required		
...date_created		
...date_updated		
result		
...success	Boolean	Indicates success of the request
...code	Integer	Status code of the request
version	String	String version of the JSON response version

