PIPA API Developer Documentation

Version

Revision	Date	Comments
1	21/8/23	Initial version
2	18/9/23	Updated device and report summary models
3	4/12/23	Updated device and report summary models

Contents

1 Authentication

All calls will require an API key to be included to authenticate the request.

Each body will be provided a unique API key by the system which can be viewed within their account details area and will allow access to their data.

The API key is to be included in the request header by including a key of 'X-API-Key' and the API key as its value.

```
C# - HttpClient
var client = new HttpClient();
var request = new HttpRequestMessage(HttpMethod.Get, "https://{PlatformURL}/api/{Endpoint}");
request.Headers.Add("X-API-Key", "{APIKey}");
var response = await client.SendAsync(request);
response.EnsureSuccessStatusCode();
Console.WriteLine(await response.Content.ReadAsStringAsync());
```

Obtaining API Key for your inspection body, manufacturer, or controller

1) Sign Up to the PIPA inspection portal
2) Request API key and agree to the terms of use by using the following form: https://wkf.ms/3TsWKz1
3) Log into the PIPA inspection portal as a manager for your relevant company, and visit the "My Account" section. Click on "Details" under the Company name. The API key can be found at the bottom of the page.

Note: it is important that you do not share this key with other people who you do not trust.

The key enables you to access only the information within your company account via the API.

2 Endpoints

2.1 Devices

2.1.1 GetByTag

Looks up a single device based on its tag and returns information about the device and a summary of any reports against it.

Request type: GET

URL: /api/v1/devices/getbytag

Parameters: query parameter added to the URL of ‘tag’ which is to be the tag no to search for.

Returns: JSON Device object

```
C# - HttpClient
var client = new HttpClient();
var request = new HttpRequestMessage(HttpMethod.Get, "{PlatformURL}/api/v1/devices/
getbytag?tag={tagNo}");
request.Headers.Add("X-API-Key", "{APIKey}");
var response = await client.SendAsync(request);
response.EnsureSuccessStatusCode();
Console.WriteLine(await response.Content.ReadAsStringAsync());
```

2.1.2 GetByTags

Looks up multiple devices at once based on their tags and returns information about each device.

Request type: POST

URL: /api/v1/devices/getbytags

Parameters: int[] of tag numbers to be included in the body of the request encoded as application/json data.

Returns: JSON array of Device objects (Device[])

```
C# - HttpClient
var client = new HttpClient();
var request = new HttpRequestMessage(HttpMethod.Post, "{PlatformURL}/api/v1/devices
/getbytags");
request.Headers.Add("X-API-Key", "{APIKey}");
var content = new StringContent("[1,2,3]", null, "application/json");
request.Content = content;
var response = await client.SendAsync(request);
response.EnsureSuccessStatusCode();
Console.WriteLine(await response.Content.ReadAsStringAsync());
```

3 Models

3.1 Device

Field	Type	Nullable	Description
Result_Value	Int	No	Result of the lookup: • 0 = Invalid (not found) • 10 = Valid (device match found) • 20 = Inactive (match but method use is not current/active, e.g old tag) • 30 = Lost/stolen (device has been marked as lost and/or stolen)
Result_Label	String	No	Text label for the result (see above)
Type_Value	Int	No	The type of device • 0 = Unknown • 10 = Flatbed • 20 = Castle • 30 = A Frame • 40 = Bounce Slide Combo • 50 = Toddler play zone • 60 = Obstacle Course • 70 = Slide • 80 = Enclosed • 90 = Soft Mountain • 100 = Bouncing Pillows • 110 = Snappies • 120 = Non ride on game
Type_Label	string	No	The name of the device type
Tag_Initial	Int	No	Id of the first tag assigned to the device
Tag_Current	Int	No	Id of the current tag assigned to the device
Tag_Previous	Int[]	Yes	List of previous tags assigned to the device
Manufacturer	String	Yes	Name of the manufacturer
SerialNo	string	Yes	Serial number of the device
DateManufactured	DateTime	Yes	Date the device was manufactured
Owner_Id	Int	No	Id of the current owner on the system
Owner_Name	String	No	Name of the current owner
Name	String	Yes	Name of the device
Description	String	Yes	Description of the device
URL_Image_Front	String	Yes	URL to the publicly accessible latest image of the front of the device.
Size_Length	Decimal	Yes	Length of the device from latest/last report
Size_Width	Decimal	Yes	Width of the device from the latest/last report
Size_Height	Decimal	Yes	Height of the device from the latest/last report
User_MaxHeight	Decimal	Yes	The Maximum Height of the User as specified by manufacturer.
User_MaxHeightCustom	Decimal	Yes	A custom maximum user height calculation to cover non-standard wall heights and/or areas that contain obstacles.
MaxUsers_HeightTo10m	Int	Yes	The max number of Users of Height up to 1.0m.

MaxUsers_HeightTo12m	Int	Yes	The max number of Users of Height up to 1.2m.
MaxUsers_HeightTo15m	Int	Yes	The max number of Users of Height up to 1.5m.
MaxUsers_HeightTo18m	Int	Yes	The max number of Users of Height up to 1.8m.
MaxUsers_HeightOver18m	Int	Yes	Max Number of Users of Height above 1.8m.
MaxUsers_HeightCustom	Int	Yes	The calculation for the number of Users of Custom Maximum User Height.
Status_Value	Int	No	The id of the current report status of the device. • 0 = Not Complete • 10 = Pass • 20 = Pass Advisory • 30 = Fail
Status_Label	String	No	The label of the current report status
CertificateExpiry	DateTime	Yes	Expiry date of the current/latest report
URL_PDF_Certificate	String	Yes	URL to the publicly accessible pdf certificate for the latest report if it is a pass or advisor.
URL_PDF_Report	String	Yes	URL to the publicly accessible pdf version of the latest report.
URL_Report	String	Yes	URL to the publicly accessible online version of the latest report.
Reports	ReportSummary[]	Yes	List of reports on the device.

3.2 ReportSummary

Field	Type	Nullable	Description
Report_Id	Int	No	Id/Number of the report
Type_Value	Int	No	Returns the type of report • 0 = Unknown • 10 = Initial • 20 = Annual
Type_Label	String	No	The name of the report type
Status_Value	Int	No	The status of the report • 0 = Draft • 100 = Awaiting Issue • 110 = Awaiting Issue Delay Manufacturer • 120 = Awaiting Issue Delay Stored Inspector • 130 = Awaiting Issue Delay No Payment • 200 = Issued • 400 = Expired • 500 = Void • 600 = Archived
Status_Label	String	No	Label for the status of the report
InspectionResult_Value	Int	No	This is the enum value for the current result of the inspection, e.g pass, fail etc • 0 = Not complete • 10 = Pass • 20 = Pass with advisories • 30 = Fail

InspectionResult_Label	String	No	Label for the inspection result (see above)
Valid_From	DateTime	Yes	Date the report is valid from once issued
Valid_To	DateTime	Yes	Date the report is valid to (inclusive) once issued
InspectionBody_Id	Int	No	The id of the inspection body responsible for the report
InspectionBody_Name	String	No	The name of the inspection body
Inspector_Id	Int	No	The id of the inspector responsible for the report
Inspector_Name	string	No	The name of the inspector
URL_PDF_Certificate	String	Yes	URL to the publicly accessible pdf certificate for the report if it is a pass or advisor.
URL_PDF_Report	String	No	URL to the publicly accessible pdf version of the report.
URL_Report	String	No	URL to the publicly accessible online version of the report.