



Flightdocs API Agreement

Prior to using this API to integrate with Flightdocs all 3rd parties will need to review the agreement. Please contact Adam Broadbent at abroadbent@flightdocs.com for this agreement.

Flightdocs API Authentication

OAuth2 is a protocol that lets external apps request authorization to private customer or aircraft details in a user's Flightdocs account without getting the user's password.

Please coordinate with Flightdocs to setup your integration before getting started. A registered 3rd party will be assigned a unique Client ID and Client Secret. The Client Secret should not be shared. You will provide Flightdocs with a Redirect Uri where the user will be sent after authorization and your application will receive an authorization code.

URLs

During development the following URL for our staging environment should be used in place of the production URL.

Staging: <https://api-stg.flightdocs.com/>

Production: <https://api.flightdocs.com/>

Code Flow Authentication

Begin by directing your users to <https://api.flightdocs.com/oauth2/authorize> through a GET request with the following URL encoded parameters:

Name	Description
response_type	Required. A value of <code>code</code> should be used to request an authentication code used later.
client_id	Required. The client ID you received from Flightdocs when you initially setup.
redirect_uri	Required. The URL in your app where users will be sent after authorization.
state	Optional parameter that is round tripped from the server back to your application. This is could be used to redirect the user to the correct resource on your site or to prevent cross-site-request-forgery by validating the state received from Flightdocs.

An example request might look like this:



GET `https://api.flightdocs.com/oauth2/authorize?response_type=code&client_id=YOUR_CLIENT_ID&redirect_uri=REDIRECT_URI &state=YOUR_STATE_INFORMATION`

The user will be presented a login page to authenticate with Flightdocs.

Flightdocs will handle for validating the user's credentials and presenting relevant error messages.

On successful log in the user will be taken to a consent page to authorize your application to access their Flightdocs account.

Clicking "Grant access to Flightdocs" will redirect the user to the URI that you specified with a `code` parameter and a `state` parameter if you included one.

For example, Flightdocs might redirect to:

`https://www.acme.com/flightdocstoken?code=RETURNED_AUTH_CODE &state=YOUR_STATE_INFORMATION`

The `code` you receive as a query string parameter is used to get an access token. It is a single use code and is good for no more than 10 minutes.

To get an access token you'll need to make a `POST` request to `https://api.flightdocs.com/oauth2/token` with the following parameters:

Name	Description
<code>grant_type</code>	Required. A value of <code>authorization_code</code> must be used.
<code>code</code>	Required. The authorization code you receive previously.
<code>client_id</code>	Optional. The client ID you received from Flightdocs when you initially setup.
<code>client_secret</code>	Optional. The client secret you received from Flightdocs when you initially setup.
<code>redirect_uri</code>	Required. The redirect URI you initially setup with Flightdocs and the same value that was passed in the initial user redirect.

The `client_id` and `client_secret` can be supplied in the body of the request or in the authorization header. The preferred approach is in the authorization header and is done by combining the `client_id` and `client_secret` into a string like so "`client_id:client_secret`" and then base64 encoded.

A request for an access token using the authorization header may look like this:

```
POST /oauth2/token HTTP/1.1
Host: api.flightdocs.com
Content-Type: application/x-www-form-urlencoded
```



Authorization: Basic QWxhZGRpbjpvGvUHNlc2FtZQ==
 grant_type=authorization_code&code=RETURNED_AUTH_CODE &redirect_uri=REDIRECT_URI

Here is an example request with the `client_id` and `client_secret` in the body of the request:

```
POST /oauth2/token HTTP/1.1
Host: api.flightdocs.com
Content-Type: application/x-www-form-urlencoded
grant_type=authorization_code&client_id=YOUR_CLIENT_ID
&client_secret=YOUR_CLIENT_SECRET&code=RETURNED_AUTH_CODE &redirect_uri=REDIRECT_URI
```

An example of a successful response will be an HTTP response of 200 which will contain a JSON body like this:

```
{
  "access_token": "Hg3LELHaXu4E0B9R28wOdCqSjJQqqhTjK",
  "token_type": "bearer",
  "expires_in": 3599,
  "refresh_token": "adc96ab9f48740c8915b4ff2b55f18332fb852740d8a4e87ad46317a452e1d49"
}
```

The `access_token` is used to make an API request to Flightdocs. The `access_token` is valid for 1 hour. You can use a valid token for as many requests as needed but after an hour you will need to get a new valid token by using the provided `refresh_token`. A `refresh_token` is valid for only one use in 1 year. Every time you get a new `access_token` by using a `refresh_token` you receive a new `refresh_token` valid for another year. This means that as long as you get a new `refresh_token` at least once a year the user's login should be valid forever.

To use a `refresh_token` to get a new `access_token` you should make a POST request to `https://api.flightdocs.com/oauth2/token` with the following URL encoded parameters:

Name	Description
<code>grant_type</code>	Required. A value of <code>refresh_token</code> must be used.
<code>client_id</code>	Optional. The client ID you received from Flightdocs when you initially setup.
<code>client_secret</code>	Optional. The client secret you received from Flightdocs when you initially setup.
<code>refresh_token</code>	Required. The redirect URI you initially setup with Flightdocs and the same value that was passed in the initial user redirect.



Same as before. The `client_id` and `client_secret` can be passed in the body but the preferred way to send these values is in the authorization header.

Here is a sample request that uses the authorization header to get an access token using a refresh token:

```
POST /oauth2/token HTTP/1.1
Host: api.flightdocs.com
Content-Type: application/x-www-form-urlencoded
Authorization: Basic QWxhZGRpbjpvYVUHNlc2FtZQ==
grant_type=refresh_token&refresh_token=REFRESH_TOKEN
```

Here is a sample of a request that put the `client_id` and `client_secret` in the request body to get an access token using a refresh token:

```
POST /oauth2/token HTTP/1.1
Host: api.flightdocs.com
Content-Type: application/x-www-form-urlencoded
grant_type=refresh_token&client_id=YOUR_CLIENT_ID
&client_secret=YOUR_CLIENT_SECRET&refresh_token=REFRESH_TOKEN
```



Flightdocs API Services

Versioning

The Flightdocs API supports versioning of the API to prevent 3rd parties from needing to rewrite their application when the structure or functionality of a request needs to change. By default the Flightdocs API will always conform to v1 of the API. It is recommended that your requests always explicitly include the version of the current API with the request. This is done by including an additional header to each of the requests made to the Flightdocs API.

A request for a versioned API method may look like this:

```
GET https://api.flightdocs.com/path/method HTTP/1.1
Host: api.flightdocs.com
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer <bearer_token_here>
api-version: 1
```

Timezone

The Flightdocs API supports handling for timezones. The use case is primarily for the due list. To get items that are due local to the user we allow the timezone to be set in the header according to the [list of names from the Olson database](#).

A request that specifies a timezone may look like this:

```
GET https://api.flightdocs.com/path/method HTTP/1.1
Host: api.flightdocs.com
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer <bearer_token_here>
Time-Zone: America/New_York
```

Response Structure

200 Success Response

The Flightdocs API has a standard output that is followed for all requests (a few minor exceptions may occur like in the case of authentication or authorization errors outlined in the next section).



A typical response structure will look like this:

Example Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Date: Wed, 05 Nov 2014 19:54:59 GMT
Content-Length: 1437
{
  "HttpStatusCode":200,
  "Data":[{"AircraftId":1808,"RegistrationNumber":"N12345"}],
  "Errors":[],
  "Messages":[],
  "IsSuccess":true,
  "AvailableRecordCount":0,
  "ErrorMessages":"No Errors Reported"
}
```

Return Values

Name	Description
HttpStatusCode	Application status code
Data	An array or single instance primitive or object data being returned to the client
Errors	List array of errors
Messages	List array of information messages
IsSuccess	Is the call successful and passes all authentication, and business validation
AvailableRecordCount	Available number of records in the current list, or total records if paged
ErrorMessages	Concatenated list of error messages joined by a semi colon or "No Errors Reported"

Note: Validation messages from the API are returned with 200 responses. Please check the IsSuccess flag and display the error messages to the user. An example of this is when the times being reported are not greater or equal to what is currently logged in Flightdocs.



401 Unauthorized Response

If the oauth bearer token being used expires or is in some other way malformed a 401 HTTP response will be returned with a message in the body saying “Authorization has been denied for this request.”

Example Response:

```
HTTP/1.1 401 Unauthorized
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
WWW-Authenticate: Bearer
Date: Fri, 07 Nov 2014 20:13:36 GMT
Content-Length: 61
{"Message": "Authorization has been denied for this request."}
```

Action on your part: Request a new oauth token by using the saved refresh token or ask the user to authenticate with Flightdocs again.

403 Forbidden Response

If making a request to the API and a 403 forbidden result is returned there are two different reasons for this response.

1. The user does not have permission to call this method on the API. This return a header of “WWW-Authenticate: Bearer error=“insufficient_rights” and a message body of “insufficient_rights”.

Example Response

```
HTTP/1.1 403 Forbidden
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
WWW-Authenticate: Bearer error="insufficient_rights"
Date: Fri, 07 Nov 2014 20:19:20 GMT
Content-Length: 33
{"Message": "insufficient_rights"}
```



Action on your part: If you believe that this user should have access to call this method on the API contact Flightdocs to have the permission added to the user.

2. The client application does not have permission to call this method on the API. This return a header of “WWW-Authenticate: Bearer error=“insufficient_scope” and a message body of “insufficient_scope”.

HTTP/1.1 403 Forbidden

Cache-Control: no-cache

Pragma: no-cache

Content-Type: application/json; charset=utf-8

Expires: -1

Strict-Transport-Security: max-age=2592000

X-Content-Type-Options: nosniff

X-XSS-Protection: 1; mode=block

WWW-Authenticate: Bearer error="insufficient_scope"

Date: Fri, 07 Nov 2014 20:19:20 GMT

Content-Length: 33

{"Message":"insufficient_scope"}

Action on your part: If you believe that your application should have access to call this method on the API contact Flightdocs to have the proper scope added to your client application.

GET /Aircraft/GetMyAircraft

Get a list of aircraft available to the current user.

Parameters

Note. The current user is pulled from the auth token passed with the request.

Return Values

Name	Data Type	Description
Id	Int	Internal database identifier for this aircraft registration
RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
SerialNumber	String(40)	The current serial number of the aircraft as registered with Flightdocs.



Example Request:

```
GET https://api.flightdocs.com/Aircraft/GetMyAircraft HTTP/1.1
Host: api.flightdocs.com
User-Agent: {user_agent}
Authorization: Bearer {bearer_token_here}
```

Example Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Date: Wed, 05 Nov 2014 19:54:59 GMT
Content-Length: 333
{
  "HttpStatusCode":200,
  "Data":[
    {
      "Id":1808,
      "RegistrationNumber":"N12345",
      "SerialNumber":DEMO
    },
    {
      "Id":3471,
      "RegistrationNumber":"N12346",
      "SerialNumber":DEMO2
    }
  ],
  "Errors":[
  ],
  "Messages":[
  ],
  "IsSuccess":true,
  "AvailableRecordCount":2,
  "ErrorMessages":"No Errors Reported"
}
```



GET /Aircraft/GetCurrentTimes/{registrationNumber}

Get the current aircraft times for an aircraft.

Parameters

Name	Data Type	Description
registrationNumber	String(12)	Required. This is the current registration or tail number of the aircraft as registered with Flightdocs.

Return Values

Name	Data Type	Description
AircraftId	Int	Internal database identifier for this registration (integer)
RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
Landings	Int	Current number of landings
LastUpdated	DateTime	Date/time in UTC of last update
LastUpdatedBy	Int	Id of the last user to update the aircraft
RIN	Int	If model has been enabled for RIN tracking, current RIN
ReportedDate	Date	Date of last reported times (Format YYYY-MM-DD)
TotalTime	Decimal(2)	Total time on airframe (2 significant digits)
AircraftEquipmentTimes Object		Array of installed equipment on the airframe APU, Engines, Props (see AircraftEquipmentTimes object structure below)



AircraftEquipmentTimes Object Structure:

Name	Data Type	Description
LookupId	Guid	Unique identifier for the equipment installed on the airframe
AircraftEquipmentTypeId	Int	Id of the type of equipment
Type	String(8)	Text description of the type of equipment
Make	String(40)	Make of equipment
ModelNumber	String(40)	Model number of equipment
SerialNumber	String(40)	Serial number of equipment
InstallDate	Date	Install date of equipment (Format YYYY-MM-DD)
Hours	Decimal	Number of hours on the equipment (2 significant digits)
Cycles	Decimal	Number of cycles on the equipment (2 significant digits)
C1C	Decimal	If enabled for C1C/C2C, number of C1 cycles on the equipment (2 significant digits)
C2C	Decimal	if enabled for C1C/C2C, number of C2 cycles on the equipment (2 significant digits)
IsTrackedByAirframe	Bool	Specifies if these times generally track with the airframe. If true validation will require that hours go up if airframe total time goes up and vice versa. If false hours can be updated separately.

Example Request:

```
GET https://api.flightdocs.com/Aircraft/GetCurrentTimes/{RegistrationNumber} HTTP/1.1
Host: api.flightdocs.com
User-Agent: {user_agent}
Authorization: Bearer {bearer_token_here}
```



Example Response:

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Date: Wed, 05 Nov 2014 19:54:59 GMT
Content-Length: 1437
{
  "HttpStatusCode":200,
  "Data":{
    "AircraftId":1808,
    "RegistrationNumber":"N12345",
    "Landings":2502,
    "LastUpdated":"2014-09-03T16:00:48.54Z",
    "LastUpdatedBy":0,
    "RIN":0,
    "ReportedDate":"2014-07-28",
    "TotalTime":6004.57,
    "AircraftEquipmentTimes":[
      {
        "LookupId":"14d4b3c8-1f6d-428f-ac57-975ea4236d71",
        "AircraftEquipmentTypeId":2,
        "Type":"APU",
        "Make":null,
        "ModelNumber":"131-9B",
        "SerialNumber":"no_update",
        "InstallDate":null,
        "Hours":81198.00,
        "Cycles":71124.00,
        "C1C":0.00,
        "C2C":0.00,
        "IsTrackedByAirframe":false
      },
      {
        "LookupId":"280b0366-7df4-4d93-baed-2d9494e57eda",
        "AircraftEquipmentTypeId":3,
        "Type":"Engine 1",
        "Make":null,
        "ModelNumber":"CFM56-7B26/B1",
        "SerialNumber":"875922",
        "InstallDate":"1999-10-04",
        "Hours":6004.57,

```



```

    "Cycles":2502.00,
    "C1C":0.00,
    "C2C":0.00,
    "IsTrackedByAirframe":true
  }
]
},
"Errors":[
],
"Messages":[
],
"IsSuccess":true,
"AvailableRecordCount":0,
"ErrorMessage":"No Errors Reported"
}

```

POST /Aircraft/ReportNewTimes

Updates the current times with a new set of times for an aircraft.

Parameters

Name	Data Type	Description
RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
Landings	Int	Current number of landings
RIN	Int	If model has been enabled for RIN tracking, current RIN
ReportedDate	Date	Date of last reported times (Format as YYYY-MM-DD)
TotalTime	Decimal	Total time on airframe (2 significant digits)
AircraftEquipmentTimes	Object	Array of installed equipment on the airframe APU, Engines, Props (see AircraftEquipmentTimes object structure below)



AircraftEquipmentTimes Object Structure:

Name	Data Type	Description
LookupId	Guid	Unique identifier for the equipment installed on the airframe
AircraftEquipmentTypeId	Int	Id of the type of equipment
Type	String(8)	Text description of the type of equipment
Make	String(40)	Make of equipment
ModelNumber	String(40)	Model number of equipment
SerialNumber	String(40)	Serial number of equipment
InstallDate	Date	Install date of equipment (Format as YYYY-MM-DD)
Hours	Decimal	Number of hours on the equipment (2 significant digits)
Cycles	Decimal	Number of cycles on the equipment (2 significant digits)
C1C	Decimal	If enabled for C1C/C2C, number of C1 cycles on the equipment (2 significant digits)
C2C	Decimal	if enabled for C1C/C2C, number of C2 cycles on the equipment (2 significant digits)



Example Request:

POST https://api.flightdocs.com/Aircraft/ReportNewTimes HTTP/1.1

Host: api.flightdocs.com

Accept: application/json, text/plain, */*

Content-Type: application/json

User-Agent:

Authorization: Bearer <bearer_token_here>

api-version: 1

```
{
  "RegistrationNumber": "N12345",
  "Landings": 2502,
  "RIN": 0,
  "ReportedDate": "2014-07-28T00:00:00Z",
  "TotalTime": 6004.57,
  "AircraftEquipmentTimes": [
    {
      "LookupId": "14d4b3c8-1f6d-428f-ac57-975ea4236d71",
      "AircraftEquipmentTypeId": 2,
      "Type": "APU",
      "Make": null,
      "ModelNumber": "131-9B",
      "SerialNumber": "no_update",
      "InstallDate": null,
      "Hours": 81198.00,
      "Cycles": 71124.00,
      "C1C": 0.00,
      "C2C": 0.00
    },
    {
      "LookupId": "280b0366-7df4-4d93-baed-2d9494e57eda",
      "AircraftEquipmentTypeId": 3,
      "Type": "Engine 1",
      "Make": null,
      "ModelNumber": "CFM56-7B26/B1",
      "SerialNumber": "875922",
      "InstallDate": "1999-10-04",
      "Hours": 6004.57,
      "Cycles": 2502.00,
      "C1C": 0.00,
      "C2C": 0.00
    }
  ]
}
```



Example Response:

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Date: Wed, 05 Nov 2014 19:54:59 GMT
Content-Length: 1437
{
  "HttpStatusCode":200,
  "Data":{
    "AircraftId":1808,
    "RegistrationNumber":"N12345",
    "Flightdocs, Inc. 10 July 2014",
    "Landings":2502,
    "LastUpdated":"2014-09-03T16:00:48.54Z",
    "LastUpdatedBy":0,
    "RIN":0,
    "ReportedDate":"2014-07-28",
    "TotalTime":6004.57,
    "AircraftEquipmentTimes":[
      {
        "LookupId":"14d4b3c8-1f6d-428f-ac57-975ea4236d71",
        "AircraftEquipmentTypeId":2,
        "Type":"APU",
        "Make":null,
        "ModelNumber":"131-9B",
        "SerialNumber":"no_update",
        "InstallDate":null,
        "Hours":81198.00,
        "Cycles":71124.00,
        "C1C":0.00,
        "C2C":0.00,
        "IsTrackedByAirframe":false
      },
      {
        "LookupId":"280b0366-7df4-4d93-baed-2d9494e57eda",
        "AircraftEquipmentTypeId":3,
        "Type":"Engine 1",
        "Make":null,
        "ModelNumber":"CFM56-7B26/B1",
        "SerialNumber":"875922",
        "InstallDate":"1999-10-04",

```



```

    "Hours":6004.57,
    "Cycles":2502.00,
    "C1C":0.00,
    "C2C":0.00,
    "IsTrackedByAirframe":true
  }
],
"Errors":[
],
"Messages":[
],
"IsSuccess":true,
"AvailableRecordCount":0,
"ErrorMessage":"No Errors Reported"
}

```

GET /MaintenanceItem/GetDueList /{registrationNumber}

Get the current due list for an aircraft.

Parameters

Name	Data Type	Description
RegistrationNumber	String(12)	Required. This is the current registration or tail number of the aircraft as registered with Flightdocs.

Return Values (Array)

Name	Data Type	Description
AircraftId	Int	Internal database identifier for this registration (integer)
ATACode	Int	The ATA code for the item. 101 indicates a MEL item.
ATADisplay	String(100)	Formatted field combining ATACode, Mfg Maint Code, Amendment, and Version for display on reports.
CyclesOnPart	Decimal	Number of cycles the part has at installation
DueStatus	Int	Status Code to categorize items. (1 - No Categorization, 2 - Greater than 10 days till due, 3 - Within 10 days but not overdue, 4 - Past due but within tolerance, 5 - Past due)
Disposition	String(50)	Disposition of the maintenance task.
HasTaskcard	Bool	Indicator if the maintenance item has any taskcards.
Id	Guid	Unique identifier for a maintenance item.
GroupName	String(200)	Item Grouping Name



Name	Data Type	Description
IntervalFormatted	String(max)	A textual formatted version of all intervals
IntervalAdjustmentFormatted	String	A textual formatted version of all interval adjustments
ItemDescription	String(255)	The textual description of the item (name).
ItemNumber	Int	The item number identifier
ItemType	Int	The type of item this is, which could be part, inspection, AD, etc.
LandingsOnPart	Int	Number of landings the part has at installation
LastCWFormatted	String(max)	The last complied with formatted
HoursOnPart	Decimal	The number of hours the part has at installation
ManufacturingMaintenanceCode	String(40)	The manufacturer maintenance code
NextDueDate	Date	The next due date (format YYYY-MM-DD)
NextDueHours	Decimal	The next due hours
NextDueLandings	Int	The next due landings
NextDueCycles	Decimal	The next due cycles
NextDueRIN	Int	The next due RIN
NextDueFormatted	String(max)	A formatted text-version of the next due date
PartNumberOn	String(40)	The part number currently on the aircraft, if applicable for the item
PartNumberOff	String(40)	The part number that came off the aircraft on last maintenance, if applicable for the item
Position	String(30)	Information about the position for the item. Open text field for customers to defined, not currently used in reporting.
Reference	String(50)	Reference field typically used for storing the AMM reference number.
RegularNotes	String(max)	Text notes
RemainingFormatted	String(max)	The formatted collection of metrics remaining before the next maintenance is due. For date based items it is a hard date. For all others it is based on the usage preferences for the airframe which can be set in the application.
RINOnPart	Int	The number of RIN the part has at installation
SerialNumberOn	String(40)	The serial number of the part currently on the aircraft, if applicable for the item
SerialNumberOff	String(40)	The serial number of the part that came off the aircraft on last maintenance, if applicable for the item
Tolerance	String(50)	The tolerance or grace period of a maintenance item
TrackedBy	String(8)	The major component this item is tracked by
TrackedByFormatted	String(max)	The tracked by formatted for display.
Aircraft_RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.



Example Request:

```
GET https://api.flightdocs.com/MaintenanceItem/GetDueList/N12345 HTTP/1.1
Host: api.flightdocs.com
Accept: application/json, text/plain, */*
User-Agent: {user_agent}
Authorization: Bearer {bearer_token_here}
api-version: 1
Time-Zone: America/New_York
```

Example Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Date: Wed, 05 Nov 2014 19:54:59 GMT
Content-Length: 1437
{
  "HttpStatusCode":200,
  "Data":[
    {
      "AircraftId":1808,
      "ATACode":5,
      "ATADisplay":"5 0110",
      "CyclesOnPart":0.00,
      "Disposition":"","",
      "DueStatus":1,
      "HasTaskcard":false,
      "GroupName":"1 MO",
      "HoursOnPart":0.00,
      "Id":"11842571-8ce3-40b6-9967-a3c8abc569a3",
      "IntervalFormatted":"M: 1\r\n",
      "IntervalAdjustmentFormatted":"","",
      "ItemDescription":"1 MONTH CHECK",
      "ItemNumber":2534,
      "ItemType":1,
      "LandingsOnPart":0,
      "LastCWFormatted":"23/07/2014\r\nnH: 81198\r\nnL: 71141\r\n",
      "ManufacturingMaintenanceCode":"0110",
      "NextDueDate":"2014-08-31",
      "NextDueHours":null,
      "NextDueLandings":null,
```



```

"NextDueCycles":null,
"NextDueRIN":null,
"NextDueFormatted":"31/08/2014\r\n",
"PartNumberOn":null,
"PartNumberOff":null,
"Position":"One",
"Reference":"",
"RegularNotes":null,
"RemainingFormatted":"M: -2\r\n",
"RINOnPart":0,
"SerialNumberOn":null,
"SerialNumberOff":null,
"Tolerance":"",
"TrackedBy":"Airframe",
"TrackedByFormatted":"Airframe",
"Aircraft_RegistrationNumber":"N12345"
},
{
"AircraftId":1808,
"ATACode":5,
"ATADisplay":"5 0135",
"CyclesOnPart":0.00,
"Disposition":"",
"HasTaskcard":false,
"HoursOnPart":0.00,
"GroupName":"1m",
"Id":"a683962b-fb74-4f4e-8edd-839d94d3d327",
"IntervalFormatted":"D: 30\r\n",
"IntervalAdjustmentFormatted":"",
"ItemDescription":"FAR 135 AIRWORTHINESS RELEASE",
"ItemNumber":5439,
"ItemType":1,
"LandingsOnPart":0,
>LastCWFormatted":"23/07/2014\r\nH: 82000\r\nL: 71141\r\n",
"ManufacturingMaintenanceCode":"0135",
"NextDueDate":"2014-08-22",
"NextDueHours":null,
"NextDueLandings":null,
"NextDueCycles":null,
"NextDueRIN":null,
"NextDueFormatted":"22/08/2014\r\n",
"PartNumberOn":null,
"PartNumberOff":null,
"Position":"Two",
"Reference":"",
"RegularNotes":null,
"RemainingFormatted":"D: -15\r\n",

```



```

    "RINOnPart":0,
    "SerialNumberOn":null,
    "SerialNumberOff":null,
    "Tolerance":"D: 20",
    "TrackedBy":"Airframe",
    "TrackedByFormatted":"Airframe",
    "Aircraft_RegistrationNumber":null
  }
],
"Errors":[
],
"Messages":[
],
"IsSuccess":true,
"AvailableRecordCount":2,
"ErrorMessages":"No Errors Reported"
}

```

GET /MaintenanceItem/GetDueList

Get the current due list for an aircraft based on passed in criteria. The criteria is used for projecting how far out items are retrieved based on daily aircraft utilization preferences.

Parameters

Name	Data Type	Description
RegistrationNumber	String(12)	Required/Optional. This is the current registration or tail number of the aircraft as registered with Flightdocs. This or the AircraftId is required on each request.
AircraftId	Int	Required/Optional. This is the Flightdocs Id used to identify a customer's aircraft. This or the RegistrationNumber is required on each request.
ProjectedDays	Int	Optional. Sets the number of days out to get a due list for based on utilization for non-date based intervals (cycles, landings, hours). The default is 90 days.
ProjectedDueDate	Date	Optional. Overrides the due date that would be projected above. (Formatted as YYYY-MM-DD)
ProjectedHours	Decimal	Optional. Overrides calculated hours projection based on daily utilization preferences for hours based intervals.
ProjectedLandings	Decimal	Optional. Overrides calculated landings projection based on daily utilization preferences for landings based intervals.
ProjectedCycles	Decimal	Optional. Overrides calculated cycles projection based on daily utilization preferences for cycles based intervals.



ProjectedRIN	Decimal	Optional. Overrides calculated RIN projection based on daily utilization preferences for RIN based intervals.
ProjectedApuHours	Decimal	Optional. Overrides calculated APU hours projection based on daily utilization preferences for APU hours based intervals.
ProjectedApuCycles	Decimal	Optional. Overrides calculated APU cycles projection based on daily utilization preferences for APU cycles based intervals.
IncludePaging	Bool	Optional. Indicator if the results should be paged.
PageSize	Int	Optional. Number for records to return in each page of the results.
PageIndex	Int	Optional. Indicator of which page of the results to return.

Return Values (Array)

Name	Data Type	Description
AircraftId	Int	Internal database identifier for this registration (integer)
ATACode	Int	The ATA code for the item. 101 indicates a MEL item.
ATADisplay	String(100)	Formatted field combining ATACode, Mfg Maint Code, Amendment, and Version for display on reports.
CyclesOnPart	Decimal	Number of cycles the part has at installation
DueStatus	Int	Status Code to categorize items. (1 - No Categorization, 2 - Greater than 10 days till due, 3 - Within 10 days but not overdue, 4 - Past due but within tolerance, 5 - Past due)
Disposition	String(50)	Disposition of the maintenance task.
HasTaskcard	Bool	Indicator if the maintenance item has any taskcards.
Id	Guid	Unique identifier for a maintenance item.
GroupName	String(200)	Item Grouping Name
IntervalFormatted	String(max)	A textual formatted version of all intervals
IntervalAdjustmentFormatted	String	A textual formatted version of all interval adjustments
ItemDescription	String(255)	The textual description of the item (name).
ItemNumber	Int	The item number identifier
ItemType	Int	The type of item this is, which could be part, inspection, AD, etc.
LandingsOnPart	Int	Number of landings the part has at installation
LastCWFormatted	String(max)	The last complied with formatted
HoursOnPart	Decimal	The number of hours the part has at installation
ManufacturingMaintenanceCode	String(40)	The manufacturer maintenance code
NextDueDate	Date	The next due date (Format YYYY-MM-DD)
NextDueHours	Decimal	The next due hours
NextDueLandings	Int	The next due landings
NextDueCycles	Decimal	The next due cycles
NextDueRIN	Int	The next due RIN
NextDueFormatted	String(max)	A formatted text-version of the next due date
PartNumberOn	String(40)	The part number currently on the aircraft, if applicable for the item



Name	Data Type	Description
PartNumberOff	String(40)	The part number that came off the aircraft on last maintenance, if applicable for the item
Position	String(30)	Information about the position for the item. Open text field for customers to defined, not currently used in reporting.
Reference	String(50)	Reference field typically used for storing the AMM reference number.
RegularNotes	String(max)	Text notes
RemainingFormatted	String(max)	The formatted collection of metrics remaining before the next maintenance is due. For date based items it is a hard date. For all others it is based on the usage preferences for the airframe which can be set in the application.
RINOnPart	Int	The number of RIN the part has at installation
SerialNumberOn	String(40)	The serial number of the part currently on the aircraft, if applicable for the item
SerialNumberOff	String(40)	The serial number of the part that came off the aircraft on last maintenance, if applicable for the item
Tolerance	String(50)	The tolerance or grace period of a maintenance item
TrackedBy	String(8)	The major component this item is tracked by
TrackedByFormatted	String(max)	The tracked by formatted for display.
Aircraft_RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.

Example Request:

```
GET https://api.flightdocs.com/MaintenanceItem/GetDueList?RegistrationNumber=N12345&ProjectedDays=180
HTTP/1.1
Host: api.flightdocs.com
Accept: application/json, text/plain, */*
User-Agent: {user_agent}
Authorization: Bearer {bearer_token_here}
api-version: 1
Time-Zone: America/New_York
```

Example Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Strict-Transport-Security: max-age=2592000
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Date: Wed, 05 Nov 2014 19:54:59 GMT
```



Content-Length: 1437

```
{
"HttpStatusCode":200,
"Data":[
{
"AircraftId":1808,
"ATACode":5,
"ATADisplay":"5 0110",
"CyclesOnPart":0.00,
"Disposition":"",
"DueStatus":1,
"HasTaskcard":false,
"GroupName":"1 MO",
"HoursOnPart":0.00,
"Id":"11842571-8ce3-40b6-9967-a3c8abc569a3",
"IntervalFormatted":"M: 1\r\n",
"IntervalAdjustmentFormatted":"",
"ItemDescription":"1 MONTH CHECK",
"ItemNumber":2534,
"ItemType":1,
"LandingsOnPart":0,
"LastCWFormatted":"23/07/2014\r\nH: 81198\r\nL: 71141\r\n",
"ManufacturingMaintenanceCode":"0110",
"NextDueDate":"2014-08-31",
"NextDueHours":null,
"NextDueLandings":null,
"NextDueCycles":null,
"NextDueRIN":null,
"NextDueFormatted":"31/08/2014\r\n",
"PartNumberOn":null,
"PartNumberOff":null,
"Position":"One",
"Reference":"",
"RegularNotes":null,
"RemainingFormatted":"M: -2\r\n",
"RINOnPart":0,
"SerialNumberOn":null,
"SerialNumberOff":null,
"Tolerance":"",
"TrackedBy":"Airframe",
"TrackedByFormatted":"Airframe",
"Aircraft_RegistrationNumber":"N12345"
},
{
"AircraftId":1808,
"ATACode":5,
"ATADisplay":"5 0135",
```



```

"CyclesOnPart":0.00,
"Disposition":"","
"HasTaskcard":false,
"HoursOnPart":0.00,
"GroupName":"1m",
"Id":"a683962b-fb74-4f4e-8edd-839d94d3d327",
"IntervalFormatted":"D: 30\r\n",
"IntervalAdjustmentFormatted":"","
"ItemDescription":"FAR 135 AIRWORTHINESS RELEASE",
"ItemNumber":5439,
"ItemType":1,
"LandingsOnPart":0,
"LastCWFormatted":"23/07/2014\r\nH: 82000\r\nL: 71141\r\n",
"ManufacturingMaintenanceCode":"0135",
"NextDueDate":"2014-08-22",
"NextDueHours":null,
"NextDueLandings":null,
"NextDueCycles":null,
"NextDueRIN":null,
"NextDueFormatted":"22/08/2014\r\n",
"PartNumberOn":null,
"PartNumberOff":null,
"Position":"Two",
"Reference":"","
"RegularNotes":null,
"RemainingFormatted":"D: -15\r\n",
"RINOnPart":0,
"SerialNumberOn":null,
"SerialNumberOff":null,
"Tolerance":"D: 20",
"TrackedBy":"Airframe",
"TrackedByFormatted":"Airframe",
"Aircraft_RegistrationNumber":null
}
],
"Errors":[
],
"Messages":[
],
"IsSuccess":true,
"AvailableRecordCount":2,
"ErrorMessages":"No Errors Reported"
}

```

ast Updated 11 15 2018