

Flightdocs API Agreement

Prior to using this API to integrate with Flightdocs all 3rd parties will need to review the agreement. Please contact our integration team at integrations@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 sandbox environment should be used in place of the production URL.

Sandbox: <https://api-sandbox.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 QWxhZGRpbjpvcmVudHluc2FtZQ==
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 if 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.

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 QWxhZGRpbjpvcmVudGVuIHhlc2FtZQ==
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 time zones. The use case is primarily for the due list. To get items that are due local to the user we allow the time zone to be set in the header according to the list of names from the Olson database.

A request that specifies a time zone 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	Integer	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/GetEquipment/{registrationNumber}

Get a list of equipment available to the requested tail number. This service is useful in cases where you need to present the user with a list of equipment on Flightdocs.

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
AircraftRegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
EquipmentId	Integer	Internal database identifier for this aircraft registration
EquipmentType	String(50)	Indicator of the type of equipment this is i.e. Airframe, Engine
AircraftPosition	Integer	Position of the equipment on the aircraft i.e. Engine 1 would be in position 1
DisplayName	String(Max)	Combined tail no, equipment type, position and serial number.
ManufacturerModel	String(100)	Manufacturers and model information available for the equipment.
SerialNumber	String(40)	The current serial number of the equipment 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
Date: Mon, 08 Apr 2019 17:29:59 GMT
Content-Length: 797

```
{
  "HttpStatusCode": 200,
  "Data": [
    {
      "AircraftRegistrationNumber": "NHOOL11",
      "EquipmentId": 266,
      "EquipmentType": "Airframe",
      "AircraftPosition": 0,
      "DisplayName": "NHOOL11 - Airframe SN: 50000000",
      "ManufacturerModel": "EMBRAER EMB 500",
      "SerialNumber": "50000000"
    },
    {
      "AircraftRegistrationNumber": "NHOOL11",
      "EquipmentId": 267,
      "EquipmentType": "Engine",
      "AircraftPosition": 1,
      "DisplayName": "NHOOL11 - Engine 1 SN: PCE-LC0222",
      "ManufacturerModel": "PW617F-E",
      "SerialNumber": "PCE-LC0222"
    },
    {
      "AircraftRegistrationNumber": "NHOOL11",
      "EquipmentId": 268,
      "EquipmentType": "Engine",
      "AircraftPosition": 2,
      "DisplayName": "NHOOL11 - Engine 2 SN: PCE-LC0111",
      "ManufacturerModel": "PW617F-E",
      "SerialNumber": "PCE-LC0111"
    }
  ],
  "Warnings": [],
  "Errors": [],
  "Messages": [],
  "IsSuccess": true,
  "AvailableRecordCount": 0,
  "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	Integer	Internal database identifier for this registration (integer)
RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
Landings	Integer	Current number of landings
LastUpdated	DateTime	Date/time in UTC of last update
LastUpdatedBy	Integer	Id of the last user to update the aircraft
RIN	Integer	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	Integer	Id of the type of equipment. Standard types are: 1 – Airframe; 2 – Engine; 3 – APU; 4 – Heater; 5 – Air Conditioner; 6 – Propeller. Please note that Flightdocs supports custom equipment so customer can create their own equipment types so expect other integers to be returned.
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	Boolean	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,  
"ErrorMessages":"No Errors Reported"  
}
```

POST /Aircraft/ReportNewTimes

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

Note: Flightdocs will automatically increment any equipment that “Is Tracked By Airframe” if it is not supplied with the request. If the reported times for the airframe adds 2 hours then any equipment that tracks with the airframe would add 2 hours as well. Any equipment that does NOT track with the airframe times will need to be pass in the request to report new times.

Parameters

Name	Data Type	Description
RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
Landings	Integer	Current number of landings
RIN	Integer	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	Integer	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,  
"ErrorMessages":"No Errors Reported"  
}
```

GET /Aircraft/GetAvailabilityStatus/{registrationNumber}

Get the availability status for a given aircraft by the registration number.

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
RegistrationNumber	String(12)	The current registration or tail number of the aircraft as registered with Flightdocs.
Status	String(30)	Internal database identifier for this aircraft registration <ul style="list-style-type: none">• Available• Unavailable• Out for service• Grounded

Example Request:

```
GET https://api.flightdocs.com/Aircraft/GetAvailabilityStatus/NH00LI1 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
Date: Wed, 10 Apr 2019 14:59:55 GMT
Content-Length: 204
```

```
{
```

```
"HttpStatusCode": 200,  
"Data": {  
  "RegistrationNumber": "NHOOL11",  
  "Status": "Unavailable"  
},  
"Warnings": [],  
"Errors": [],  
"Messages": [],  
"IsSuccess": true,  
"AvailableRecordCount": 0,  
"ErrorMessage": "No Errors Reported"  
}
```

PUT /Aircraft/UpdateAvailabilityStatus/

Set the availability status for a given aircraft by the registration number.

Parameters

Name	Data Type	Description
RegistrationNumber	String(12)	Required. This is the current registration or tail number of the aircraft as registered with Flightdocs.
AvailabilityStatusId	Integer	Required. The new availability status to set this aircraft to. Valid values are: <ul style="list-style-type: none">• 1 - Available• 2 - Unavailable• 3 - Out for service• 4 - Grounded

Return Values

200 HTTP Response with property "IsSuccess" true.

Example Request:

```
PUT https://api.flightdocs.com/Aircraft/UpdateAvailabilityStatus HTTP/1.1
Host: api.flightdocs.com
Accept: application/json, text/plain, */*
User-Agent: {user_agent}
Content-Type: application/json
Authorization: Bearer {bearer_token_here}
```

```
{
  "RegistrationNumber": "NHOOL11",
  "AvailabilityStatusId": 2
}
```

Example Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Date: Wed, 10 Apr 2019 17:21:41 GMT
Content-Length: 120
```

```
{  
  "Warnings": [],  
  "Errors": [],  
  "Messages": [],  
  "IsSuccess": true,  
  "AvailableRecordCount": 0,  
  "ErrorMessages": "No Errors Reported"  
}
```

GET /MaintenanceItem/GetDueList /{registrationNumber}

Version 1 – Get a minimal version of the current due list for an aircraft. This is appropriate for a listing of all items coming due.

Note - See version 2 for a more detailed response useful for display on a calendar or off-line calculations.

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 task cards.
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

Name	Data Type	Description
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 (API Version 1):

```
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 (API Version 1):

```
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"
}
```

GET /MaintenanceItem/GetDueList /{registrationNumber}

Version 2 – Get a complete version of the current due list for an aircraft. This is appropriate for a calendar view of the when items come due, off-line calculations of due date, or simply a more detailed listing of all items coming due.

To use this API add a header value of `api-version` and set this to a value of “2”. This is shown in an example request below.

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	Integer	Internal database identifier for this registration (integer)
ATACode	Integer	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	Integer	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	Boolean	Indicator if the maintenance item has any task cards.
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	Integer	The item number identifier
ItemType	Integer	The type of item this is, which could be part, inspection, AD, etc.
LandingsOnPart	Integer	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	Integer	The next due landings
NextDueCycles	Decimal	The next due cycles

Name	Data Type	Description
NextDueRIN	Integer	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 (Version 1 only)
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	Integer	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.
ToleranceFormatted	String(max)	Tolerance formatted for display
CalculatedDate	Date	Calculated due date accounting for anticipated utilization
CalculatedMaxDueDate	Date	Calculated due date accounting for anticipated utilization and tolerance
IntervalDays	Integer	Required maintenance interval in days
IntervalMonths	Integer	Required maintenance interval in months
IntervalHours	Decimal	Required maintenance interval in hours
IntervalLandings	Integer	Required maintenance interval in landings
IntervalCycles	Decimal	Required maintenance interval in cycles
IntervalRIN	Decimal	Required maintenance interval in RIN
IntervalAdjustmentHours	Decimal	Adjust the interval hours
IntervalAdjustmentDays	Integer	Adjust the interval days
IntervalAdjustmentMonths	Integer	Adjust the interval months
IntervalAdjustmentLandings	Integer	Adjust the interval landings
IntervalAdjustmentCycles	Decimal	Adjust the interval cycles
IntervalAdjustmentRIN	Decimal	Adjust the interval RIN
LogDate	Date	Current log date
LogHours	Decimal	Total logged hours
LogLandings	Integer	Total logged landings

Name	Data Type	Description
LogCycles	Decimal	Total logged cycles
LogRIN	Decimal	Total logged RIN
RemainingHours	Decimal	Aircraft hours remaining before due
RemainingLandings	Integer	Aircraft landings remaining before due
RemainingRIN	Decimal	Aircraft RIN remaining before due
RemainingCycles	Decimal	Aircraft cycles remaining before due
RemainingMonths	Integer	Months remaining before due
RemainingDays	Integer	Days remaining before due
ToleranceMonths	Integer	Acceptable variance in months from due date
ToleranceDays	Integer	Acceptable variance in days from due date
ToleranceHours	Decimal	Acceptable variance in hours
ToleranceLandings	Integer	Acceptable variance in landings
ToleranceCycles	Decimal	Acceptable variance in cycles
ToleranceRIN	Decimal	Acceptable variance in RIN
ToleranceRemainingMonths	Integer	Months remaining in tolerance
ToleranceRemainingDays	Integer	Days remaining in tolerance
ToleranceRemainingHours	Decimal	Hours remaining in tolerance
ToleranceRemainingLandings	Integer	Landings remaining in tolerance
ToleranceRemainingCycles	Decimal	Cycles remaining in tolerance
ToleranceRemainingRIN	Decimal	RIN remaining in tolerance
ToleranceNextDueDate	Date	Date due with tolerance included
ToleranceNextDueHours	Decimal	Hours remaining until due with tolerance included
ToleranceNextDueLandings	Integer	Landings remaining until due with tolerance included
ToleranceNextDueCycles	Decimal	Cycles remaining until due with tolerance included
ToleranceNextDueRIN	Decimal	RIN remaining until due with tolerance included
AircraftUtilizationHours	Decimal	Anticipated utilization of aircraft in hours
AircraftUtilizationCycles	Decimal	Anticipated utilization of aircraft in cycles
AircraftUtilizationRIN	Decimal	Anticipated utilization of aircraft in RIN

Example Request (API Version 2):

```
GET https://api.flightdocs.com/MaintenanceItem/GetDueList/N900EX HTTP/1.1
Host:"api.flightdocs.com"
Accept:"*/*"
User-Agent:{User Agent}
Authorization: {bearer_token_here}
api-version:"2"
Time-Zone: America/New_York
```

Example Response (API Version 2):

```
"HttpStatusCode": 200,
  "Data": [
    {
      "AircraftId": 4603,
      "Aircraft_RegistrationNumber": "N900EX",
      "ATACode": 54,
      "ATADisplay": "54 00-00-220-802",
      "TrackedBy": "Airframe ",
      "DueStatus": 5,
      "Disposition": "",
      "Id": "53deaf80-ae74-4d00-99f8-53d97b478cca",
      "GroupName": "",
      "IsParentItem": false,
      "IsChildItem": false,
      "ItemDescription": "DETL INSP/CHK #2 ENG NAC&PYL",
      "ItemNumber": 7811,
      "ItemType": "PART",
      "ManufacturingMaintenanceCode": "00-00-220-802",
      "PartNumberOn": "6969",
      "Position": "",
      "Reference": "",
      "RegularNotes": "",
      "SerialNumberOn": "553",
      "IntervalFormatted": "L: 3750\r\n",
      "IntervalAdjustmentFormatted": "",
      "LastCWFormatted": "20-NOV-2012\r\n\nH: 8112.26 \r\n\nL: 7117 \r\n",
      "NextDueFormatted": "L: 10867\r\n",
      "RemainingFormatted": "L: -5692\r\n",
      "ToleranceFormatted": "",
      "CalculatedDueDate": "2011-05-12",
      "CalculatedMaxDueDate": "2011-05-12",
      "CyclesOnPart": null,
      "LandingsOnPart": null,
      "HoursOnPart": null,
```

```
"RINOnPart": null,  
"IntervalDays": 0,  
"IntervalMonths": 0,  
"IntervalHours": null,  
"IntervalLandings": 3750,  
"IntervalCycles": 0,  
"IntervalRIN": 0,  
"IntervalAdjustmentHours": 0,  
"IntervalAdjustmentDays": 0,  
"IntervalAdjustmentMonths": 0,  
"IntervalAdjustmentLandings": 0,  
"IntervalAdjustmentCycles": 0,  
"IntervalAdjustmentRIN": 0,  
"LogDate": "2012-11-20",  
"LogHours": 8112.26,  
"LogLandings": 7117,  
"LogCycles": 0,  
"LogRIN": null,  
"NextDueDate": null,  
"NextDueHours": null,  
"NextDueLandings": 10867,  
"NextDueCycles": null,  
"NextDueRIN": null,  
"RemainingHours": null,  
"RemainingLandings": -5692,  
"RemainingRIN": null,  
"RemainingCycles": null,  
"RemainingMonths": null,  
"RemainingDays": null,  
"ToleranceMonths": null,  
"ToleranceDays": null,  
"ToleranceHours": null,  
"ToleranceLandings": null,  
"ToleranceCycles": null,  
"ToleranceRIN": null,  
"ToleranceRemainingMonths": null,  
"ToleranceRemainingDays": null,  
"ToleranceRemainingHours": null,  
"ToleranceRemainingLandings": null,  
"ToleranceRemainingCycles": null,  
"ToleranceRemainingRIN": null,  
"ToleranceNextDueDate": null,  
"ToleranceNextDueHours": null,  
"ToleranceNextDueLandings": null,  
"ToleranceNextDueCycles": null,
```

```
        "ToleranceNextDueRIN": null,  
        "AircraftUtilizationHours": 1,  
        "AircraftUtilizationLandings": 2,  
        "AircraftUtilizationCycles": -1,  
        "AircraftUtilizationRIN": -1  
    }},  
    "Warnings": [],  
    "Errors": [],  
    "Messages": [],  
    "IsSuccess": true,  
    "AvailableRecordCount": 0,  
    "ErrorMessages": "No Errors Reported"  
}
```

GET /MaintenanceItem/GetDueList

Version 1 – Get a minimal version of the current due list for an aircraft. This is appropriate for a listing of all items coming due. The criteria are used for projecting how far out items are retrieved based on daily aircraft utilization preferences.

Note - See version 2 for a more detailed response useful for display on a calendar or off-line calculations.

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	Integer	Required/Optional. This is the Flightdocs Id used to identify a customer's aircraft. This or the RegistrationNumber is required on each request.
ProjectedDays	Integer	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	Boolean	Optional. Indicator if the results should be paged.
PageSize	Integer	Optional. Number for records to return in each page of the results.
PageIndex	Integer	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 task cards.
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
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.

Name	Data Type	Description
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 (API Version 1):

```
GET
https://api.flightdocs.com/MaintenanceItem/GetDueList?RegistrationNumber=N12345&P
rojectedDays=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 (API Version 1):

```
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,
"ErrorMessage":"No Errors Reported"
}
```

GET /MaintenanceItem/GetDueList

Version 2 – Get a complete version of the current due list for an aircraft. This is appropriate for a calendar view of the when items come due, off-line calculations of due date, or simply a more detailed listing of all items coming due. The criteria are used for projecting how far out items are retrieved based on daily aircraft utilization preferences.

To use this API add a header value of `api-version` and set this to a value of “2”. This is shown in an example request below.

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	Integer	Required/Optional. This is the Flightdocs Id used to identify a customer’s aircraft. This or the RegistrationNumber is required on each request.
ProjectedDays	Integer	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	Boolean	Optional. Indicator if the results should be paged.
PageSize	Integer	Optional. Number for records to return in each page of the results.
PageIndex	Integer	Optional. Indicator of which page of the results to return.

Return Values (Array)

Name	Data Type	Description
AircraftId	Integer	Internal database identifier for this registration (integer)
ATACode	Integer	The ATA code for the 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	Integer	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	Boolean	Indicator if the maintenance item has any task cards.
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	Integer	The item number identifier
ItemType	Integer	The type of item this is, which could be part, inspection, AD, etc.
LandingsOnPart	Integer	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	Integer	The next due landings
NextDueCycles	Decimal	The next due cycles
NextDueRIN	Integer	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
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	Integer	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

Name	Data Type	Description
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.
ToleranceFormatted	String(max)	Tolerance formatted for display
CalculatedDate	Date	Calculated due date accounting for anticipated utilization
CalculatedMaxDueDate	Date	Calculated due date accounting for anticipated utilization and tolerance
IntervalDays	Integer	Required maintenance interval in days
IntervalMonths	Integer	Required maintenance interval in months
IntervalHours	Decimal	Required maintenance interval in hours
IntervalLandings	Integer	Required maintenance interval in landings
IntervalCycles	Decimal	Required maintenance interval in cycles
IntervalRIN	Decimal	Required maintenance interval in RIN
IntervalAdjustmentHours	Decimal	Adjust the interval hours
IntervalAdjustmentDays	Integer	Adjust the interval days
IntervalAdjustmentMonths	Integer	Adjust the interval months
IntervalAdjustmentLandings	Integer	Adjust the interval landings
IntervalAdjustmentCycles	Decimal	Adjust the interval cycles
IntervalAdjustmentRIN	Decimal	Adjust the interval RIN
LogDate	Date	Current log date
LogHours	Decimal	Total logged hours
LogLandings	Integer	Total logged landings
LogCycles	Decimal	Total logged cycles
LogRIN	Decimal	Total logged RIN
RemainingHours	Decimal	Aircraft hours remaining before due
RemainingLandings	Integer	Aircraft landings remaining before due
RemainingRIN	Decimal	Aircraft RIN remaining before due
RemainingCycles	Decimal	Aircraft cycles remaining before due
RemainingMonths	Integer	Months remaining before due
RemainingDays	Integer	Days remaining before due
ToleranceMonths	Integer	Acceptable variance in months from due date
ToleranceDays	Integer	Acceptable variance in days from due date
ToleranceHours	Decimal	Acceptable variance in hours
ToleranceLandings	Integer	Acceptable variance in landings
ToleranceCycles	Decimal	Acceptable variance in cycles
ToleranceRIN	Decimal	Acceptable variance in RIN
ToleranceRemainingMonths	Integer	Months remaining in tolerance
ToleranceRemainingDays	Integer	Days remaining in tolerance
ToleranceRemainingHours	Decimal	Hours remaining in tolerance

Name	Data Type	Description
ToleranceRemainingLandings	Integer	Landings remaining in tolerance
ToleranceRemainingCycles	Decimal	Cycles remaining in tolerance
ToleranceRemainingRIN	Decimal	RIN remaining in tolerance
ToleranceNextDueDate	Date	Date due with tolerance included
ToleranceNextDueHours	Decimal	Hours remaining until due with tolerance included
ToleranceNextDueLandings	Integer	Landings remaining until due with tolerance included
ToleranceNextDueCycles	Decimal	Cycles remaining until due with tolerance included
ToleranceNextDueRIN	Decimal	RIN remaining until due with tolerance included
AircraftUtilizationHours	Decimal	Anticipated utilization of aircraft in hours
AircraftUtilizationCycles	Decimal	Anticipated utilization of aircraft in cycles
AircraftUtilizationRIN	Decimal	Anticipated utilization of aircraft in RIN

Example Request (API Version 2):

```
https://api.flightdocs.com/MaintenanceItem/GetDueList?RegistrationNumber=N900EX&I
ncludePaging=true&PageSize=1&PageIndex=0 HTTP/1.1
Host:"api.flightdocs.com"
Accept:"*/*"
User-Agent:{User Agent}
Authorization: {bearer_token_here}
api-version:"2"
Time-Zone: America/New_York
```

Example Response (API Version 2):

```
{
  "HttpStatusCode": 200,
  "Data": [
    {
      "AircraftId": 4603,
      "Aircraft_RegistrationNumber": "N900EX",
      "ATACode": 54,
      "ATADisplay": "54 00-00-220-802",
      "TrackedBy": "Airframe ",
      "DueStatus": 5,
      "Disposition": "",
      "Id": "53deaf80-ae74-4d00-99f8-53d97b478cca",
      "GroupName": "",
      "IsParentItem": false,
      "IsChildItem": false,
      "ItemDescription": "DETL INSP/CHK #2 ENG NAC&PYL",
      "ItemNumber": 7811,
      "ItemType": "PART",
      "ManufacturingMaintenanceCode": "00-00-220-802",
      "PartNumberOn": "6969",
      "Position": "",
      "Reference": "",
      "RegularNotes": "",
      "SerialNumberOn": "553",
      "IntervalFormatted": "L: 3750\r\n",
      "IntervalAdjustmentFormatted": "",
      "LastCWFormatted": "20-NOV-2012\r\nH: 8112.26 \r\nL: 7117 \r\n",
      "NextDueFormatted": "L: 10867\r\n",
      "RemainingFormatted": "L: -5692\r\n",
      "ToleranceFormatted": "",
      "CalculatedDueDate": "2011-05-13",
      "CalculatedMaxDueDate": "2011-05-13",
      "CyclesOnPart": null,
      "LandingsOnPart": null,
      "HoursOnPart": null,
      "RINOnPart": null,
    }
  ]
}
```

```
"IntervalDays": 0,  
"IntervalMonths": 0,  
"IntervalHours": null,  
"IntervalLandings": 3750,  
"IntervalCycles": 0,  
"IntervalRIN": 0,  
"IntervalAdjustmentHours": 0,  
"IntervalAdjustmentDays": 0,  
"IntervalAdjustmentMonths": 0,  
"IntervalAdjustmentLandings": 0,  
"IntervalAdjustmentCycles": 0,  
"IntervalAdjustmentRIN": 0,  
"LogDate": "2012-11-20",  
"LogHours": 8112.26,  
"LogLandings": 7117,  
"LogCycles": 0,  
"LogRIN": null,  
"NextDueDate": null,  
"NextDueHours": null,  
"NextDueLandings": 10867,  
"NextDueCycles": null,  
"NextDueRIN": null,  
"RemainingHours": null,  
"RemainingLandings": -5692,  
"RemainingRIN": null,  
"RemainingCycles": null,  
"RemainingMonths": null,  
"RemainingDays": null,  
"ToleranceMonths": null,  
"ToleranceDays": null,  
"ToleranceHours": null,  
"ToleranceLandings": null,  
"ToleranceCycles": null,  
"ToleranceRIN": null,  
"ToleranceRemainingMonths": null,  
"ToleranceRemainingDays": null,  
"ToleranceRemainingHours": null,  
"ToleranceRemainingLandings": null,  
"ToleranceRemainingCycles": null,  
"ToleranceRemainingRIN": null,  
"ToleranceNextDueDate": null,  
"ToleranceNextDueHours": null,  
"ToleranceNextDueLandings": null,  
"ToleranceNextDueCycles": null,  
"ToleranceNextDueRIN": null,  
"AircraftUtilizationHours": 1,  
"AircraftUtilizationLandings": 2,  
"AircraftUtilizationCycles": -1,  
"AircraftUtilizationRIN": -1
```

```
    }  
  ],  
  "Warnings": [],  
  "Errors": [],  
  "Messages": [],  
  "IsSuccess": true,  
  "AvailableRecordCount": 0,  
  "ErrorMessages": "No Errors Reported"  
}
```

GET /NonRoutineMaintenanceItem/Search/

Allow the searching of non-routine maintenance items (like discrepancies) for a particular aircraft.

Parameters

Name	Data Type	Required	Description
RegistrationNumber	String(12)	X	This is the current registration or tail number of the aircraft as registered with Flightdocs.
StatusId	Integer		Status of the non-routine item. Valid values are: <ul style="list-style-type: none"> • 1 - Open • 2 - In-Progress • 3 - Deferred • 4 - Closed
ItemTypeId	Integer		The type of non-routine item this is. Valid values are: <ul style="list-style-type: none"> • 5 - Discrepancy • 6 - MEL • 7 - NEF • 8 - CDL • 9 - Watch List
ATACode	Integer		The ATA code for the item.
DateReported	Date		Filters the non-routine items by the reported date. Usage is based on the DateReportedConstraint filter. (Formatted as YYYY-MM-DD)
DateReportedSecondary	Date		Secondary date field used when the DateReportedConstraint is set to "2" which looks for values between the DateReported field and this field. (Formatted as YYYY-MM-DD)
DateReportedConstraint	Integer		Determines how the DateReported and DateReportedSecondary are used. Valid values are 1 - Equals (only DateReported is used and an exact date match); 2 - Between (both DateReported and DateReportedSecondary are used to find items between the dates); 3 - Before (only DateReported is used which find items reported before the provided date); 4 - After (only DateReported is used which finds items reported after the provided date)
LogDate	Date		Filters the non-routine items by the log date. Usage is based on the LogDateConstraint filter. (Formatted as YYYY-MM-DD)
LogDateSecondary	Date		Secondary date field used when the LogDateConstraint is set to "2" which looks for values between the LogDate field and this field. (Formatted as YYYY-MM-DD)
LogDateConstraint	Integer		Determines how the LogDate and LogDateSecondary are used. Valid values are 1 - Equals (only LogDate is used and an exact date match); 2 - Between (both LogDate and LogDateSecondary are used to find items between the dates); 3 - Before (only LogDate is used which find items reported

Reference	String(50)	before the provided date); 4 – After (only LogDate is used which finds items reported after the provided date) Reference field typically used for storing the AMM reference number.
DiscoveryPoint	String(250)	Discovery Point of the non-routine item.
IsOptional	Boolean	If supplied would return non-routine item that are flagged as optional or not optional.
DiscrepancyTypeId	Integer	Valid values: <ul style="list-style-type: none"> • 1 – Pirep • 2 - Non-Routine
PageSize	Integer	Number for records to return in each page of the results.
PageIndex	Integer	Indicator of which page of the results to return.
IncludePaging	Boolean	Indicator if the results should be paged.

Return Values (Array)

Name	Data Type	Nullable	Description
Id	Guid		Internal database identifier each non-routine item
EquipmentId	Integer		Id of the equipment that this item is found on. Id backing the TrackedBy column
ItemNumber	Integer		Unique number for the maintenance item within the equipment.
RegistrationNumber	String(12)		Tail number of the aircraft
TrackedBy	String(50)		Description of the equipment and the position of the equipment on the aircraft. i.e. Engine 1
Number	String(50)		Unique system generated number for the non-routine item.
StatusId	Integer		Id indicating the Status: <ul style="list-style-type: none"> • 1 – Open • 2 – In-Progress • 3 – Deferred • 4 – Closed
StatusName	String(20)		Text name of the status of the non-routine item.
IsOptional	Boolean		Indicator if the non-routine is an optional item
ControlNumber	String(20)		Control Number of the non-routine item.
Type	String(50)		Text name of the non-routine item type: Discrepancy, MEL, NEF, CDL, Watch List.
ATACode	Integer	X	ATA Chapter of the non-routine item
ManufacturingMaintenanceCode	String(40)		Manufacture code for the non-routine item.
Description	String(700)		Text to describe the non-routine maintenance item.
LastUpdated	DateTime	X	Date and Time of when the non-routine item was last updated.

Name	Data Type	Nullable	Description
DateReported	Date	X	Date of when the non-routine item was reported. (format YYYY-MM-DD)
ReportedHours	Decimal	X	The number of hours on the equipment when the item was reported
ReportedLandings	Integer	X	The number of landings on the equipment when the item was reported.
ReportedCycles	Decimal	X	The number of cycles on the equipment when the item was reported.
ReportedRIN	Decimal	X	The number of RIN on the equipment when the item was reported.
Category	String(10)		Category of the non-routine item: <ul style="list-style-type: none"> • A – Multiple Metrics • B – Date (In 3 Days) • C – Date (In 10 Days) • D – Date (In 120 Days)
HardNextDueDate	Date	X	The date of when the non-routine item is due. (format YYYY-MM-DD)
HardNextDueHours	Decimal	X	The hours on the equipment when the item is due.
HardNextDueLandings	Integer	X	The landings on the equipment when the item is due.
HardNextDueCycles	Decimal	X	The cycles on the equipment when the item is due.
HardNextDueRIN	Decimal	X	The RIN on the equipment when the item is due.
DiscrepancyTypeId	Integer	X	The id of the discrepancy type: <ul style="list-style-type: none"> • 1 – Pirep • 2 - Non-Routine
DiscrepancyTypeName	String(20)		Text display of the discrepancy type.
DelayStatus	String(20)		Delay status of the non-routine item: <ul style="list-style-type: none"> • Delay • No Delay • Deviation • Cancellation
ActionCode	String(20)		Non-routines item's action code: <ul style="list-style-type: none"> • Unspecified • MISR • SDR • ETOPS
PreliminaryInspectionRequired	Boolean	X	Indicator if a preliminary inspection is required.
IsAircraftGrounded	Boolean	X	Indicator if the aircraft was grounded because of the non-routine item.
Reference	String(50)		Reference field of the non-routine item.
HiddenDamageInspectionRequired	Boolean	X	Indicator if a hidden damage inspection is required.
DiscoveryPoint	String(250)		Description of the discovery point.
DiscoveredBy	String(65)		Indicator of who discovered the non-routine item.

Name	Data Type	Nullable	Description
ReportedInformationNotes	String(max)		Notes that went along with the reported information.
InterruptionHours	Decimal	X	Interruption Hours
WorkHours	Decimal	X	Hours spent addressing the non-routine item.
ResolvedAt	String(150)		Description of when/where the item was resolved.
CorrectiveActionNotes	String(max)		Notes to go along with the corrective action information.
ResolvedBy	String(150)		Who resolved the non-routine item.
LogDate	Date		Date of when the item as completed.
LogCycles	Decimal	X	Cycles on the equipment when the item was completed.
LogHours	Decimal	X	Hours on the equipment when the item was completed.
LogLandings	Integer	X	Landings on the equipment when the item was completed.
LogRIN	Decimal	X	RIN on the equipment when the item was completed.
Created	DateTime		Date and time of when the non-routine item was created.

Example Request:

```
GET
https://api.flightdocs.com/NonRoutineMaintenanceItem/Search?RegistrationNumber=NH
OOL11 HTTP/1.1
Host: api.flightdocs.com
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
Date: Tue, 09 Apr 2019 22:33:03 GMT
Content-Length: 93479
```

```
{
  "HttpStatusCode": 200,
  "Data": [
    {
      "Id": "a7a5c08e-623d-4380-b3fa-31c62c7f3b3e",
      "EquipmentId": 266,
      "ItemNumber": 5180,
      "RegistrationNumber": "NH0OL11",
      "TrackedBy": "Airframe ",
      "Number": "201609101442",
      "StatusId": 2,
      "StatusName": "In-Progress",
      "IsOptional": false,
      "ControlNumber": "",
      "Type": "MEL",
      "ATACode": 22,
      "ManufacturingMaintenanceCode": "",
      "Description": "Yaw damp fail cass message",
      "LastUpdated": "2017-02-10T21:44:27.1841209Z",
      "DateReported": "2017-02-03",
      "ReportedHours": null,
      "ReportedLandings": null,
      "ReportedCycles": null,
      "ReportedRIN": null,
      "Category": "C",
      "HardNextDueDate": "2017-02-13",
      "HardNextDueHours": 0,
      "HardNextDueLandings": 0,
      "HardNextDueCycles": 0,
      "HardNextDueRIN": null,
    }
  ]
}
```

```

"DiscrepancyTypeId": 1,
"DiscrepancyTypeName": "Pirep",
"DelayStatus": "No Delay",
"ActionCode": "Unspecified",
"PreliminaryInspectionRequired": false,
"IsAircraftGrounded": false,
"Reference": "",
"HiddenDamageInspectionRequired": false,
"DiscoveryPoint": "",
"DiscoveredBy": "",
"ReportedInformationNotes": "",
"InterruptionHours": null,
"WorkHours": 0,
"ResolvedAt": "",
"CorrectiveActionNotes": "Removed GSA 81 Servo P/N 011-00878-10 S/N 123XXX1
and installed serviceable P/N 011-00878-20 S/N 123XXX2 IAW EMB Phenom 100 AMM 22-
11-08-400-801-A. Ops Check good\r\n",
"ResolvedBy": "",
"LogDate": "2016-09-13",
"LogCycles": null,
"LogHours": 6194.8,
"LogLandings": 5402,
"LogRIN": null,
"Created": "0001-01-01T00:00:00Z"
},
{
  "Id": "c1c6e6da-db4e-4447-8112-f9e32861ffb4",
  "EquipmentId": 266,
  "ItemNumber": 5186,
  "RegistrationNumber": "NH00LI1",
  "TrackedBy": "Airframe ",
  "Number": "201609161914",
  "StatusId": 1,
  "StatusName": "Open",
  "IsOptional": false,
  "ControlNumber": null,
  "Type": "WATCH LIST",
  "ATACode": 25,
  "ManufacturingMaintenanceCode": "",
  "Description": "#1 tray table will not open",
  "LastUpdated": "2017-02-10T21:45:13.3599808Z",
  "DateReported": "2016-09-16",
  "ReportedHours": null,
  "ReportedLandings": null,
  "ReportedCycles": null,
  "ReportedRIN": null,
  "Category": "A",
  "HardNextDueDate": null,
  "HardNextDueHours": 0,

```

```

    "HardNextDueLandings": 0,
    "HardNextDueCycles": 0,
    "HardNextDueRIN": null,
    "DiscrepancyTypeId": 1,
    "DiscrepancyTypeName": "Pirep",
    "DelayStatus": "No Delay",
    "ActionCode": "Unspecified",
    "PreliminaryInspectionRequired": false,
    "IsAircraftGrounded": false,
    "Reference": "",
    "HiddenDamageInspectionRequired": false,
    "DiscoveryPoint": "",
    "DiscoveredBy": "",
    "ReportedInformationNotes": "",
    "InterruptionHours": null,
    "WorkHours": 0,
    "ResolvedAt": "",
    "CorrectiveActionNotes": "Cleaned debris from table tray as required ops
check good.\r\n",
    "ResolvedBy": "",
    "LogDate": "2016-09-16",
    "LogCycles": null,
    "LogHours": 6209.5,
    "LogLandings": 5413,
    "LogRIN": null,
    "Created": "0001-01-01T00:00:00Z"
  }
],
"Warnings": [],
"Errors": [],
"Messages": [],
"IsSuccess": true,
"AvailableRecordCount": 0,
"ErrorMessage": "No Errors Reported"
}

```

POST /NonRoutineMaintenanceItem/Create/

Allow the creation of non-routine maintenance items (like discrepancies) for a particular aircraft.

Notes: While the EquipmentId is not required, if it is not supplied then the non-routine item will be created on the airframe of the aircraft. If the discrepancy or other type of non-routine is found on an engine for instance the /Aircraft/GetEquipment/ method should be called so that a list of the equipment on the aircraft can be presented to the user and the appropriate EquipmentId can be sent in with the create.

Parameters

Name	Data Type	Required	Description
RegistrationNumber	String(12)	X	This is the current registration or tail number of the aircraft as registered with Flightdocs.
EquipmentId	Integer		Id of the equipment that this item is to be created on.
IsOptional	Boolean		Indicator if the non-routine is an optional item
ControlNumber	String(20)		Control Number of the non-routine item.
ItemTypeId	Integer	X	The type of non-routine item: <ul style="list-style-type: none"> • 5 – Discrepancy • 6 – MEL • 7 – NEF • 8 – CDL • 9 – Watch List
ATACode	Integer		ATA Chapter of the non-routine item
ManufacturingMaintenanceCode	String(40)		Manufacture code for the non-routine item.
Description	String(700)	X	Text to describe the non-routine maintenance item.
LastUpdated	DateTime		Date and Time of when the non-routine item was last updated.
DateReported	Date		Date of when the non-routine item was reported. (format YYYY-MM-DD)
ReportedHours	Decimal		The number of hours on the equipment when the item was reported
ReportedLandings	Integer		The number of landings on the equipment when the item was reported.
ReportedCycles	Decimal		The number of cycles on the equipment when the item was reported.
ReportedRIN	Decimal		The number of RIN on the equipment when the item was reported.
Category	String(1)		Category of the non-routine item. <ul style="list-style-type: none"> • A – Multiple Metrics • B – Date (In 3 Days) • C – Date (In 10 Days) • D – Date (In 120 Days)

Name	Data Type	Required	Description
HardNextDueDate	Date		The date of when the non-routine item is due. (format YYYY-MM-DD)
HardNextDueHours	Decimal		The hours on the equipment when the item is due.
HardNextDueLandings	Integer		The landings on the equipment when the item is due.
HardNextDueCycles	Decimal		The cycles on the equipment when the item is due.
HardNextDueRIN	Decimal		The RIN on the equipment when the item is due.
DiscrepancyTypeId	Integer		The id of the discrepancy type: <ul style="list-style-type: none"> • 1 - Pirep • 2 - Non-Routine
DelayStatus	String(20)		Delay status of the non-routine item: <ul style="list-style-type: none"> • Delay • No Delay • Deviation • Cancellation
ActionCode	String(20)		Non-routines item's action code: <ul style="list-style-type: none"> • Unspecified • MISR • SDR • ETOPS
PreliminaryInspectionRequired	Boolean		Indicator if a preliminary inspection is required.
IsAircraftGrounded	Boolean		Indicator if the aircraft was grounded because of the non-routine item.
Reference	String(50)		Reference field of the non-routine item.
HiddenDamageInspectionRequired	Boolean		Indicator if a hidden damage inspection is required.
DiscoveryPoint	String(50)		Description of the discovery point.
DiscoveredBy	String(50)		Indicator of who discovered the non-routine item.
ReportedInformationNotes	String(max)		Notes to be included with the reported information.

Return Values

Name	Data Type	Description
Id	Guid	Internal database identifier of the newly created non-routine item
EquipmentId	Integer	Id of the equipment that this item is found on. Id backing the TrackedBy column
ItemNumber	Integer	Unique number for the maintenance item within the equipment.
Number	String(50)	Unique system generated number for the non-routine item.

Example Request:

```
POST https://api.flightdocs.com/NonRoutineMaintenanceItem/Create HTTP/1.1
Host: api.flightdocs.com
Accept: application/json, text/plain, */*
Content-Type: application/json
Authorization: Bearer {bearer_token_here}
```

```
{
  "RegistrationNumber": "NHOOL11",
  "EquipmentId": 267,
  "ItemTypeId": 5,
  "Description": "At FL 390 Rad Alt alerted to 800 ft momentarily"
}
```

Example Response:

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Date: Wed, 10 Apr 2019 01:25:26 GMT
Content-Length: 256
```

```
{
  "HttpStatusCode": 200,
  "Data": {
    "Id": "9be6df3a-e3a7-427c-87c3-cd686a498502",
    "EquipmentId": 267,
    "ItemNumber": 5209,
    "Number": "20190410012522"
  },
  "Warnings": [],
  "Errors": [],
  "Messages": [],
  "IsSuccess": true,
  "AvailableRecordCount": 0,
  "ErrorMessage": "No Errors Reported"
}
```

Last Updated: 7/3/2019