



# Application Programming Interface (API) Introduction

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# Table of contents

## [API Overview](#)

[Terms Used in this Document](#)

[URL Base](#)

[Swagger Documentation](#)

[Api Key](#)

## [Authentication](#)

[Authentication and Single Sign-On \(SSO\)](#)

[Getting an Auth Token for a Client User](#)

[Getting SSO Link status](#)

[Deleting SSO Link](#)

## [Media](#)

[Upload](#)

[List media by filter](#)

[Get media metadata](#)

[List medias per day count](#)

[List media in a time range](#)

[Delete](#)

## [Media API use scenarios](#)

[Download media generated during a Dock mission](#)

## [Webhook](#)

[Subscribe](#)

[List Subscriptions](#)

[Delete Subscription](#)

[List Webhook Events](#)

[Test Webhook Trigger](#)

## [Appendix](#)

[A1](#)

## API Overview

### Terms Used in this Document

- **DH API** - The RESTful API described in this document.
- **Client** - company or organization that integrates with the DH API.
- **DH Web** - the Drone Harmony web application.
- **DH Mobile** - the Drone Harmony mobile application (Android or iOS).
- **Client Backend** - the server side of the Client application that calls the DH API.
- **Client Web App** - the web front end of the Client application.
- **Client Mobile App** - mobile application of the Client (if present).
- **DH User** - a specific user account in DH (DH Web and DH Mobile use the same accounts).
- **Client User** - a specific user account inside the system of the Client. The term `client_user_id` is used in this document to denote the id of this user.

### URL Base

The base URL for all requests is (depending on the app flavour):

[https://{server\\_subdomain}.droneharmony.com/v1/](https://{server_subdomain}.droneharmony.com/v1/)

Where **{server\_subdomain}** is dock or app

### Swagger Documentation

[https://{server\\_subdomain}.droneharmony.com/v1/swagger-ui/index.html?urls.primaryName=dh\\_external\\_api#](https://{server_subdomain}.droneharmony.com/v1/swagger-ui/index.html?urls.primaryName=dh_external_api#)

## Api Key

All requests require an api key that must be passed on each HTTP request header, like this:

```
X-API-KEY: your_api_key_here
```

Requests that do not provide a valid api key will be rejected with HTTP code 403.

**Important security note: DH API is intended to be called from the Client Backend. The api key is unique to the Client that received it and should at no time be made public or shared with a Client Web App or the Client Mobile App. Client Web App can open DH Web App in separate browser tabs or iFrames according to this spec, but all REST calls are designed to be made from the Client Backend.**

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## Authentication

### Authentication and Single Sign-On (SSO)

Parts of the API require a user context under which the actions are performed. Example of this is when Client posts a scene inside the DH Web app. This requires establishing a link between a Client User account and a DH User account. We will call this link - the SSO-Link. SSO-Links are managed by the DH server, inside the DH database. The outline of the process of establishing the SSO-Link is:

#### Initiating Authentication:

- The Client Backend communicates with the DH API through the /auth endpoint, providing a unique id for the Client User (refer to the note below for id requisites).

- In response, the DH API furnishes an Auth Token, possessing a validity of one hour.

#### **Token Utilization:**

- With the acquired token, the Client Web App can now launch a browser tab (or an iFrame) encapsulating the DH Web App, appending the Auth Token to the URL parameters, possibly along with other parameters.

#### **SSO-Link Establishment:**

- New SSO-Link:
  - Should the SSO-Link not have been established previously, the DH Web App will present a standard DH login page to the user.
  - Upon successful login to the DH Web App, the SSO-Link gets recorded in the DH database, thereby establishing the link for subsequent requests. Consequently, the user gets logged into the DH Web App.
- Existing SSO-Link:
  - If the SSO-Link had been established in the past, the user gets logged into the DH Web App instantly.

#### **Requisites for Client User ID:**

- Uniqueness: The Client User ID must be unique to each Client User account. Given that these IDs are scoped per Client, there's no overlapping with other Client User IDs.
- Retrievability: The Client Backend should have the capability to retrieve the user with this ID. For instance, utilizing Hash(database\_id) won't suffice unless the hash result is retained in the database.

#### **Viable Examples of Client User IDs:**

- Actual account ID in the database.
- A GUID or a hash (that remains unchanged) stored alongside the account.

- AES encrypted account ID of the user.
- User email, provided it's assured to remain unchanged.

The Client User IDs are confined to the DH Backend and will not be disseminated to the DH web and mobile clients, nor will they be visible to DH users. The DH Web App provides an option for the user to obliterate the SSO-Link.

## Getting an Auth Token for a Client User

**Request:** GET /auth/{client\_user\_id}

**Description:** Get auth token for a Client User. Auth token is valid for 1 hour. For requirements from the Client User ids - read the section above. Id should not be longer than 256 characters. Note that If the ids can contain symbols that are not valid in a URL- the string must be URL-encoded.

**Response:**

```
{
  authToken: auth_token, // string, will not require URL-encoding
  ssoLinkPresent: boolean, // true when SSO-Link is present
}
```

**Response status codes:**

HTTP Code	Meaning	Returned when
200	Successful	
403	Forbidden	Bad or missing API Key

**Example request:** GET https://{server\_subdomain}.droneharmony.com/v1/auth/100

To open DH Web, the Client Web App will need to open the following URL in a new browser tab:

[https://{server\\_subdomain}.droneharmony.com?at=auth\\_token](https://{server_subdomain}.droneharmony.com?at=auth_token)

DH Web will:

- In case the SSO-Link was not yet established - redirect to DH login page. After the user signs in, SSO-Link will be established inside the DH database between the client\_user\_id provided in the URL and the DH User that has signed in. After this the DH Web App will open as usual after login (unless other parameters were specified, see below).
- If the SSO-Link is already present the user will not be required to provide additional credentials to sign in.

## Getting SSO Link status

**Request:** GET /auth/sso/{client\_user\_id}

```
{  
  email: String, // if SSO link is present, the email of DH user  
}
```

## Deleting SSO Link

**Request:** DELETE /auth/sso/{client\_user\_id}

---

## Media

### Upload

**Request:** POST /v1/media/{client\_user\_id}/upload

Headers: 'X-API-KEY: {X-API-KEY}'

'Content-Type: multipart/form-data'

Body: file - string(\$binary)

**Description:** Uploads single or several media files. Returns general media features.

### Example response

Response schema corresponds to <https://geojson.org/> data structure with DH (custom) properties:

```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "properties": {
        "createTime": 1698157172000,
        "panoramaId": null,
        "name": "7ac14fe4b646fc03e75b04fa8b922e2394f9a5ea.jpeg",
        "missionName": null,
        "missionGuid": null,
        "logId": null,
        "id": 202,
        "timestampStartMission": null
      },
      "geometry": {
        "type": "Point",
        "coordinates": [
          9.28006491666667,
          47.3923667777778,
          827.82
        ]
      }
    }
  ]
}
```

### List media by filter



**Request:** POST `/v1/media/{client_user_id}/filtered-medias`

Headers: 'X-API-KEY: {X-API-KEY}'

**Description:** Contains all available metadata supplemented by links, mission guid, image source.

### Example request

```
{
  "taskId": "43a8dcb6-8fec-4fd3-8e1b-2fa6ca1183c7",
  "startTime": 1694091556000,
  "endTime": 1694091556000,
  "imageSources": [
    "WideCamera",
    "ZoomCamera",
    "InfraredCamera"
  ],
  "fromIndex": 0,
  "pageSize": 25
}
```

### Example response

Response schema corresponds to <https://geojson.org/> data structure with metadata as well as the point where the media has been produced

```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "properties": {
        "createTime": 1699634984000,
        "panoramaId": null,
        "downloadMediaThumbnailLink":
"https://{server_subdomain}.droneharmony.com/v1/download?key=5c0ddeef21d98e...", //with
original content type
        "name": "DJI_20231110164944_0001_W.jpeg",
        "missionName": "Manual",
        "missionGuid": "cb09a6e1-606e-4c91-ba18-0606aa91e35b",
        "logId": null,
        "viewMediaLink":
"https://{server_subdomain}.droneharmony.com/v1/download?key=5c0ddeef21d98e4ec5f2ab7b8da89b
34a6552d9dae888930dc75b...", //with original content type
      }
    }
  ]
}
```

```

    "id": 6041,
    "downloadMediaLink":
"https://{server_subdomain}.droneharmony.com/v1/download?key=5c0ddeef21d98e4ec5f2ab7b8da89b
34a6552d9dae888930dc7...", //always OCTET_STREAM
    "timestampStartMission": 1699606146282,
    "taskId": "cb09a6e1-606e-4c91-ba18-0606aa91e35b"
  },
  "geometry": {
    "type": "Point",
    "coordinates": [
      0.000030555555555556,
      -0.000017527777777778
    ]
  }
}
]
}

```

## Get media metadata

**Request:** GET /v1/media/{client\_user\_id}/{media\_id}/info

Headers: 'X-API-KEY: {X-API-KEY}'

**Description:** Gets all extracted metadata map for selected mediaId. SSO-Link must be present.

### Example request

```

{
  "fileName": "DJI_0608_W.JPG",
  "iso": 200,
  "whiteBalance": "0",
  "gPSAltitude": 109.326,
  "absoluteAltitude": 109.33,
  "saturation": 0,
  "hyperfocalDistance": 1.28373473983553,
  "model": "MAVIC2-ENTERPRISE-ADVANCED",
  "gPSLatitude": 47.14352633333333,
  "sharpness": 0,
  "imageWidth": 8000,
  "meteringMode": "1",
  "megapixels": 48,
  "relativeAltitude": 10.01,
  "shutterSpeed": "0.066666666667",
  "fileSize": 8291434,
  "fNumber": 2.8,

```

```
"flightPitchDegree": -7.3,
"contrast": 0,
"gimbalYawDegree": -73.9,
"exposureTime": "0.066666666667",
"gpsLongitude": 8.50589677777778,
"focalLengthIn35mmFormat": "24",
"fOV": "73.7398575770812",
"focalLength35efl": 24,
"scaleFactor35efl": 5.33333333333333,
"createDate": 1664471582000,
"exposureCompensation": "1",
"imageHeight": 6000,
"lightValue": 5.87774424987687,
"aperture": 2.8,
"gimbalPitchDegree": 0,
"fileType": "JPEG",
"flightRollDegree": -4.5,
"focalLength": "4.5"
}
```

## List medias per day count

**Request:** GET `/v1/media/{client_user_id}/grouped-medias`

Headers: 'X-API-KEY: {X-API-KEY}'

**Description:** Gets medias count per day. Received start/end date can be used as a time range for other API. SSO-Link must be present.

## Example response

```
[
  {
    "endDate": 1664496000000,
    "startDate": 1664409600000,
    "count": 27
  },
  {
    "endDate": 1666224000000,
    "startDate": 1666137600000,
    "count": 41
  },
  {
    "endDate": 1668816000000,
    "startDate": 1668729600000,
    "count": 501
  },
]
```

```
{
  "endDate": 1664323200000,
  "startDate": 1664236800000,
  "count": 7
}
]
```

## List media in a time range

**Request:** GET /v1/media/{client\_user\_id}/medias

Headers: 'X-API-KEY: {X-API-KEY}'

Query params:

start\_time - Long

end\_time - Long

**Description:** Gets all the media in time range. Timestamps must be provided as UTC timestamps in milliseconds. Maximum 100 medias will be returned. Medias will be ordered by time when flight was executed (latest first). Flight data will include the metadata as well as the point where the media has been produced. SSO-Link must be present.

## Example response

```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "properties": {
        "fileName": "d2786a9c3eb7f5e93ba0645f946ba0bdd2b33cf6.JPG",
        "createTime": 1668783582000,
        "panoramaId": null,
        "name": "DJI_0147.JPG",
        "missionName": null,
        "pathBlob": "media/2022-11-18/",
        "missionGuid": null,
        "containerBlobName": "user01234",
        "logId": "Nov_18_2022_14_54",
        "id": 395,
        "timestampStartMission": null,
        "downloadMediaLink":
          "https://{server_subdomain}.droneharmony.com/v1/download/?key=5c0dde..", //always
      }
    }
  ]
}
```

```
OCTET_STREAM
  "downloadMediaThumbnailLink":
    "https://{server_subdomain}.droneharmony.com/v1/download/?key=5c0dde..", //with original
    content type
  "viewMediaLink":
    "https://{server_subdomain}.droneharmony.com/v1/download/?key=5c0ddeea.." //with original
    content type
  },
  "geometry": {
    "type": "Point",
    "coordinates": [
      8.133535111111111,
      47.245297
    ]
  }
},
..
}
```

## Delete

**Request:** DELETE /v1/media/{client\_user\_id}/{media\_id}/delete

Headers: 'X-API-KEY: {X-API-KEY}'

**Description:** Delete single media file. SSO-Link must be present.

### Example response

```
File deleted
```

## Media API use scenarios

### Download media generated during a Dock mission

**Long polling:** Initiate a [List media by filter](#) call with the known mission time range or `taskId` to filter the relevant media and use `downloadMediaLink` to get octet-stream.

For aggregating all generated media once per day: use [List medias per day count](#) to obtain the last day's time range and then use it in [List media by filter](#).

**Webhook:** [Subscribe](#) for DOCK\_TASK\_COMPLETED\_COPY\_TO\_S3 trigger providing your S3 bucket configs. After the task completion, Dock uploads the media to the DH server.

Subsequently, the media is copied to the specified S3 bucket, automating the retrieval process.

---

## Webhook

### Subscribe

**Request:** POST `v1/webhook`

Headers: X-API-KEY

**NOTE: currently webhooks are only relevant if you are using the DH Dock solution.**

**Description:** Webhooks are a mechanism by which the DH server calls the client's server when some action completes. Note that at the moment, webhooks are only triggered if the Team Owner on which the dock is connected has an SSO link created (contact us if you need help with this).

Webhooks are unique per `clientDestinationUrl` and X-API-KEY. So basically the trigger URL is also the unique identifier by which the webhook is managed in context of a single api user. If you have 2 environments (dev, prod for example) with 2 separate api keys from us - then you can have 2 equal destination urls under each api key.

For simplifying the development there is a manual way to call a webhook. The webhook in this case will contain some "dummy" data, but in correct json format. See section "Test Webhook Trigger" for more information.

Available triggers:

- FLY\_TO\_COMPLETED - on dock's fly-to-point flight completed (`/v1/dock/flight/fly-to-point`);
- TAKEOFF\_COMPLETED - on dock's takeoff flight completed (`/v1/dock/flight/takeoff`);
- DOCK\_TASK\_COMPLETED - on dock mission is completed and all images uploaded by dock to DH server;

- DOCK\_TASK\_COMPLETED\_COPY\_TO\_S3 - on dock mission is completed, all images uploaded by dock to DH server and copied to the client's S3 bucket. Requires S3 trigger configs to be provided upon subscription (see Appendix [A1](#)).

Images will appear in the provided bucket at {path}/taskId/ folder.

Straightforward way to generate S3 configs:

- 1. Create dedicated bucket (recommended)**
- 2. Navigate to IAM Dashboard**
- 3. Policy creation:**  
Policies -> Create policy -> Service S3 -> Action allowed: PutObject ->  
-> Resources: Specific, Add ARNs to restrict access, type dedicated bucket (recommended) and path (optional) ->  
-> give some meaningful policy name (e.g. dh\_s3\_put) and create
- 4. IAM user creation:**  
Users -> Create user -> give some meaningful username (e.g. dh\_uploader) ->  
-> attach policies directly, find created policy and attach
- 5. Access key generation:**  
Users -> select created user -> Create access key -> Third-party service -> copy generated keys

### Example request

```
{
  "clientDestinationUrl": "https://example.com/hook",
  "triggers": [
    {
      "triggerType": "DOCK_TASK_COMPLETED_COPY_TO_S3",
      "triggerConfigs": {
        "bucket": "example-bucket",
        "region": "us-west-2",
        "IAMUserAccessKey": "AKIAIOSFODNN7EXAMPLE",
        "IAMUserSecretAccessKey": "wJalrXUtnFEMI/K7MDENG/bPxrFiCYEXAMPLEKEY",
        "path": "root/path",
        "uploadMediaTypes": ["image", "other", "video"]
      }
    },
    {
      "triggerType": "FLY_TO_COMPLETED"
    },
    {
      "triggerType": "TAKEOFF_COMPLETED"
    }
  ]
}
```

```
}
]
}
```

*uploadMediaTypes* - filters copied to S3 media files by type:

- image: formats like .JPEG etc.
- other: .OBS, .RTK, .MRK, .NAV etc.
- video: .MP4

### Example webhook body

See webhook BODY examples at Appendix [A1](#).

## List Subscriptions

**Request:** GET `v1/webhook`

Headers: X-API-KEY

**Description:** Returns list of company subscriptions info.

### Example response

```
[
  {
    "id": 1,
    "webhookSubscriptionId": 1,
    "destination": "http://localhost:8081/wh",
    "triggerType": "DOCK_TASK_COMPLETED_COPY_TO_S3",
    "payload":
    "{\n\"trigger\":\n\"DOCK_TASK_COMPLETED_COPY_TO_S3\",
    \"triggerTimestamp\":1708419244911,\n\"client
    UserId\":\n\"41\",
    \"status\":\n\"SUCCESS\",
    \"payload\":\n{}}",
    "notificationTitle": "DOCK_TASK_COMPLETED_COPY_TO_S3 - 2024-02-20T08:54:05.244994",
    "createdOn": "2024-02-20 08:54:05",
    "lastAttemptOn": "2024-02-20 08:54:24",
    "finalResult": "SUCCESS"
  },
  {
    "id": 2,
    "webhookSubscriptionId": 1,
    "destination": "http://localhost:8081/wh",
    "triggerType": "DOCK_TASK_COMPLETED_COPY_TO_S3",
```



```
"payload":
"{\"trigger\": \"DOCK_TASK_COMPLETED_COPY_TO_S3\", \"triggerTimestamp\": 1708419880159, \"client
UserId\": \"41\", \"status\": \"SUCCESS\", \"payload\": {}}",
  "notificationTitle": "DOCK_TASK_COMPLETED_COPY_TO_S3 - 2024-02-20T09:04:40.474637",
  "createdOn": "2024-02-20 09:04:40",
  "lastAttemptOn": "2024-02-20 09:04:59",
  "finalResult": "SUCCESS"
}
]
```

## Delete Subscription

**Request:** DELETE /v1/webhook/{subscription\_id}

Headers: X-API-KEY - String

Path parameters: subscription\_id - integer

**Description:** Deletes subscription by ID

## List Webhook Events

**Request:** POST /v1/webhook/events

Headers: X-API-KEY - String

**Description:** Returns list of filtered webhook events. Filter provided in body.

### Example request

```
{
  "webhookSubscriptionIds": [
    2,
    7
  ],
  "from": 1694091556000,
  "to": 1694091556000,
  "result": [
    "SUCCESS",
    "FAILURE"
  ],
  "pageNumber": 0,
  "pageSize": 25
}
```

## Example response

```
[
  {
    "id": 1,
    "webhookSubscriptionId": 1,
    "destination": "http://localhost:8081/wh",
    "triggerType": "DOCK_TASK_COMPLETED_COPY_TO_S3",
    "payload":
    "{\"trigger\":\"DOCK_TASK_COMPLETED_COPY_TO_S3\",\"triggerTimestamp\":1708419244911,\"client
    UserId\":\"41\",\"status\":\"SUCCESS\",\"payload\":{}}",
    "notificationTitle": "DOCK_TASK_COMPLETED_COPY_TO_S3 - 2024-02-20T08:54:05.244994",
    "createdOn": "2024-02-20 08:54:05",
    "lastAttemptOn": "2024-02-20 08:54:24",
    "finalResult": "SUCCESS"
  },
  {
    "id": 2,
    "webhookSubscriptionId": 1,
    "destination": "http://localhost:8081/wh",
    "triggerType": "DOCK_TASK_COMPLETED_COPY_TO_S3",
    "payload":
    "{\"trigger\":\"DOCK_TASK_COMPLETED_COPY_TO_S3\",\"triggerTimestamp\":1708419880159,\"client
    UserId\":\"41\",\"status\":\"SUCCESS\",\"payload\":{}}",
    "notificationTitle": "DOCK_TASK_COMPLETED_COPY_TO_S3 - 2024-02-20T09:04:40.474637",
    "createdOn": "2024-02-20 09:04:40",
    "lastAttemptOn": "2024-02-20 09:04:59",
    "finalResult": "SUCCESS"
  }
]
```

## Test Webhook Trigger

**Request:** POST `/v1/webhook/test`

Headers: X-API-KEY - String

Query params:

subId - Integer - company subscription id

triggerType - String - enum representing possible triggers. Available values :  
DOCK\_TASK\_COMPLETED\_COPY\_TO\_S3, DOCK\_TASK\_COMPLETED,  
FLY\_TO\_COMPLETED, TAKEOFF\_COMPLETED

**Description:** Calls client server with some test request aimed to ensure communication. For DOCK\_TASK\_COMPLETED\_COPY\_TO\_S3 trigger uploads test\_file.txt to the provided S3 path root. If POST is successful then returns 200, otherwise request error message and code. For failed upload to S3 webhook request's payload will contain S3UploadErrorMessage explaining why upload has failed.

### Example of webhook request client's server will receive:

#### 1) Success

```
{
  "trigger": "FLY_TO_COMPLETED",
  "triggerTimestamp": 1710167653077,
  "clientId": "clientId",
  "dockSn": "dockSn",
  "status": "SUCCESS",
  "payload": {}
}
```

#### 2) S3 upload fail

```
{
  "trigger": "DOCK_TASK_COMPLETED_COPY_TO_S3",
  "triggerTimestamp": 1710167653077,
  "clientId": "clientId",
  "dockSn": "dockSn",
  "status": "FAIL",
  "payload": {
    "S3UploadErrorMessage": "S3 Error details. E.g. 403..."
  }
}
```

## Appendix

### A1

Examples of webhooks client will receive per trigger:

#### 1. DOCK\_TASK\_COMPLETED\_COPY\_TO\_S3

**Note:** siteld will only be present in the webhook body if the site with the mission is saved (at the moment of task creation) (Save *site* from the main menu).

```

//SUCCESS
{
  "trigger": "DOCK_TASK_COMPLETED_COPY_TO_S3",
  "triggerTimestamp": 1640995200000,
  "clientUserId": "dh_test",
  "dockSn": "HFBCJ837",
  "status": "SUCCESS",
  "payload": {
    "taskId": "783874KJBFBB",
    "siteId": "guid",
    "missionId": "guid"
  }
}

//FAIL
{
  "trigger": "DOCK_TASK_COMPLETED_COPY_TO_S3",
  "triggerTimestamp": 1640995200000,
  "clientUserId": "dh_test",
  "status": "FAIL",
  "payload": {
    "taskId": "783874KJBFBB",
    "S3UploadErrorMessage":
"software.amazon.awssdk.services.s3.model.S3Exception: The request
signature we calculated does not match the signature you provided. Check
your key and signing method. (Service: S3, Status Code: 403, Request ID:
F08FQWE44YGNC, Extended Request ID:
biwLhR+SPcdIALBjW1wChuJr2lS8bbSFTNBnwfzwS87PeXCP0Kr6Yb0GIvIj9CCshzvK9k0yIQt
a035WAVYz1KZoOPMik3T0uCpxa0b4\u003d)", //check provided S3 credentials
    "siteId": "guid",
    "missionId": "guid"
  }
}

```

## 2. FLY\_TO\_COMPLETED

```

{
  "trigger": "FLY_TO_COMPLETED",
  "triggerTimestamp": 1640995200000,
  "clientUserId": "dh_test",
  "dockSn": "JE56ND78",
  "status": "SUCCESS", //FAIL

```

```
"payload": {
  "flightId": "4f67d7a3-a7bf-4fec-92c3-367dd5b8d6a3"
}
```

### 3. TAKEOFF\_COMPLETED

```
{
  "trigger": "TAKEOFF_COMPLETED",
  "triggerTimestamp": 1640995200000,
  "clientId": "dh_test",
  "dockSn": "JE56ND78",
  "status": "SUCCESS", //FAIL
  "payload": {
    "flightId": "4f67d7a3-a7bf-4fec-92c3-367dd5b8d6a3"
  }
}
```

### 4. DOCK\_TASK\_COMPLETED

```
{
  "trigger": "DOCK_TASK_COMPLETED",
  "triggerTimestamp": 1640995200000,
  "clientId": "dh_test",
  "dockSn": "HFBCJ837",
  "status": "SUCCESS", //FAIL
  "payload": {
    "taskId": "783874KJBFBB",
    "siteId": "guid"
  }
}
```