

# ABS Vessel Status API

## Table of Contents

Overview .....	2
Version information .....	2
URI scheme .....	2
Prerequisites .....	3
Authentication .....	3
Get Access Token .....	3
Sample Request .....	4
Paths .....	4
Get the list of Vessel .....	4
Get Vessel Status .....	5
Get Vessel Status Using Imonum .....	6
Get Certificates .....	6
Get the Findings .....	8
Get Survey and Audit .....	11
Get FreeBoard and Tonnage .....	12
Get Compartment Coating Condition .....	14
Get Parts status .....	15
Get All Certificates (zip version) .....	16
Get a single Certificate (zip version) .....	17
Definitions .....	18
Attachment .....	18
AttachmentRequest .....	18
BuilderDesignation .....	19
CancelRequest .....	19
Certificate .....	19
Certificates .....	21
Compartment .....	21
Compartments .....	22
Error .....	22
Finding .....	22
FindingRequest .....	24
Findings .....	24
Freeboard .....	24
FreeboardTonnage .....	25
Link .....	25
NumericMeasure .....	25

OccasionalSurvey.....	26
Order.....	26
OrderDetails.....	27
OrderNotification.....	28
OrderRequest.....	29
Owner.....	30
PartRequest.....	31
PartStatus.....	31
PartsStatus.....	32
Person.....	32
ServiceState.....	33
SurveyAudit.....	33
SurveyAudits.....	34
SurveyRequest.....	34
Tonnage.....	35
Vessel.....	35
VesselStateDesignation.....	37
Vessels.....	38
headers.....	38

## Overview

This is a comprehensive set of web services to find

- Vessel details
- Findings
- Certificates
- Survey and Audits
- Parts Stauts
- Freeboard and Tonnage information
- Compartment coating condition
- Download certificates

## Version information

*Version* : 3.0

## URI scheme

*Host* : api.eagle.org

*BasePath* : /customer/fleet-status/v3

*Schemes* : HTTPS

# Prerequisites

Customers should have userid and password provided by ABS to consume ABS Vessel API. Process to get userid and password is outside the scope of this document.

## Authentication

ABS Vessel API uses access token to authenticate client requests. Clients need to send the access token obtained from authentication end point in all API requests using Authorization header.

Client applications need following attributes to use API

- Ocp-Apim-Subscription-Key
- clientid
- username
- password

Details on using the attributes can be found in Authentication and Paths section.

## Get Access Token

```
POST
https://absauthprod.b2clogin.com/ABSAuthprod.onmicrosoft.com/B2C_1A_signup_signin_ROPC
/oauth2/v2.0/token
```

### Description

Use this end point to get the access token. Access token will be used as Authorization header in all ABS Vessel API calls.

### Parameters

Body parameters are sent as url encoded form parameters.

Type	Name	Description	Schema
Body	<b>username</b> <i>required</i>	user name	string
Body	<b>password</b> <i>required</i>	password	string
Body	<b>grant_type</b> <i>required</i>	password	string
Body	<b>clientid</b> <i>required</i>	client id obtained from ABS	string

Type	Name	Description	Schema
Body	<i>scope required</i>	openid <clientid>	string

## Responses

HTTP Code	Description	Output
200	Valid Access token	<pre>{   "access_token": "&lt;access_token&gt;",   "token_type": "Bearer",   "expires_in": "3600" }</pre>

## Sample Request

```
curl --location --request POST
'https://absauthprod.b2clogin.com/ABSAuthprod.onmicrosoft.com/B2C_1A_signup_signin_ROP
C/oauth2/v2.0/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'username=<userid>' \
--data-urlencode 'password=<password>' \
--data-urlencode 'grant_type=password' \
--data-urlencode 'client_id=<clientId>' \
--data-urlencode 'response_type=token' \
--data-urlencode 'scope=openid <clientId>'
```

## Paths

### Get the list of Vessel

```
GET /vessels
```

#### Description

The operation retrieves the list of the vessels authorized for the user

#### Responses

HTTP Code	Schema
200	<a href="#">Vessels</a>

## Produces

- `application/json`

## Example Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessels' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Get Vessel Status

```
GET /vessel/{classnum}
```

## Description

The operation list the current status of the vessel

## Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>		string

## Responses

HTTP Code	Schema
200	<a href="#">Vessel</a>
404	No Content

## Produces

- `application/json`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Get Vessel Status Using Imonum

```
GET /vessel/imonum/{imonum}
```

### Description

Get Vessel Status By Imonum

### Parameters

Type	Name	Description	Schema
Path	<b>imonum</b> <i>required</i>	imo number	string

### Responses

HTTP Code	Description	Schema
200	null	No Content

### Produces

- `application/json`

### Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{imonum}' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Get Certificates

```
GET /vessel/{classnum}/certificates
```

## Description

Get Certificates

## Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	Class Number	string
Query	<b>since</b> <i>optional</i>	Since the last date the data was fetched	string

## Responses

HTTP Code	Schema
200	<a href="#">Certificates</a>

## Produces

- `application/json`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/certificates' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Example HTTP response

### Response 200

```
{
  "certificates" : [ {
    "serviceType" : "MARPOL Annex I (Oil)",
    "id" : "00280245-3754691-005",
    "name" : "Statement of Voluntary Compliance for Oil Pollution Prevention - Supplement Form B",
    "abbr" : "SOVC-OIL-B-SUPP",
    "term" : "Full Term",
    "flagName" : "Republic of Panama",
    "deadweight" : 999,
    "issueDate" : "2019-11-04T06:00:00+00:00",
    "expiryDate" : "",
    "extensionDate" : "",
    "placeOfIssue" : "In the office, Houston, TX - HS",
    "issuedBy" : "ABS Surveyor",
    "personName" : "Person Name",
    "status" : "Issued",
    "statusDate" : "2020-08-24T00:00:00+00:00",
    "link" : {
      "rel" : "document",
      "href" : "/vessel/00280245/certificate/doc?certnum=00280245-3754691-005",
      "action" : "GET",
      "types" : [ "application/octet-stream" ]
    }
  }
]
}
```

## Get the Findings

```
GET /vessel/{classnum}/findings
```

### Description

Get the Findings

### Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	Class Number	string

### Responses



HTTP Code	Schema
200	<a href="#">Findings</a>

## Produces

- `application/json`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/findings' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Example HTTP response

### Response 200

```

{
  "findings" : [ {
    "uid" : "1247",
    "serviceType" : "class",
    "category" : "Conditon of Class",
    "status" : "Partial",
    "dueIndicator" : "Due in 90 days",
    "assetUid" : "7509726",
    "assetDescription" : "No. 2 Void (S)",
    "criticality" : "major",
    "reportNumber" : "request wonum",
    "associatedTask" : "Special Continuous Survey - Hull 10 W0# 4327233 attended at
Rio de Janeiro",
    "findingType" : "Recommendation",
    "dateCreated" : "2020-06-24T00:00:00+00:00",
    "dueDate" : "2020-11-27T00:00:00+00:00",
    "dueByTask" : "",
    "description" : "Description here",
    "history" : [ {
      "uid" : "1247",
      "dateCreated" : "2020-04-05T00:00:00+00:00",
      "reportNumber" : "12345",
      "reportLocation" : "",
      "criticality" : "major",
      "findingType" : "Partial Rectification",
      "description" : "This COC is being extended as authorized up to
27/November/2020."
    }, {
      "uid" : "1247",
      "dateCreated" : "2020-04-05T00:00:00+00:00",
      "reportNumber" : "12345",
      "reportLocation" : "",
      "criticality" : "major",
      "findingType" : "Partial Rectification",
      "description" : "This COC is being extended as authorized up to
27/November/2020."
    }, {
      "uid" : "1247",
      "dateCreated" : "2020-04-05T00:00:00+00:00",
      "reportNumber" : "12345",
      "reportLocation" : "",
      "criticality" : "major",
      "findingType" : "Partial Rectification",
      "description" : "This COC is being extended as authorized up to
27/November/2020."
    } ],
    "workType" : [ "Surveys After Construction", "ISM-HSQEEn SMC Audits", "ISM-HSQEEn
DOC Audits" ]
  } ]
}

```

# Get Survey and Audit

```
GET /vessel/{classnum}/survey-audit
```

## Description

List of survey and audit

## Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	class number	string

## Responses

HTTP Code	Schema
200	<a href="#">SurveyAudits</a>

## Produces

- `application/json`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/survey-audit' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Example HTTP response

### Response 200

```
{
  "surveyAudits" : [ {
    "uid" : "workorder id",
    "type" : "Retesting Survey - Cargo Gear",
    "description" : "Retesting Survey - Cargo Gear 2",
    "dueDate" : "2025-01-17T00:00:00+00:00",
    "rangeFromDate" : "2020-11-04T00:00:00+00:00",
    "rangeToDate" : "2020-11-04T00:00:00+00:00",
    "doneDate" : "2020-11-04T00:00:00+00:00",
    "placeHeld" : "Houston",
    "extenedDueDate" : "2020-11-04T00:00:00+00:00",
    "status" : "Not Due",
    "serviceType" : "Class Certification",
    "workType" : [ "Surveys After Construction", "ISM-HSQEEn SMC Audits", "ISM-HSQEEn
DOC Audits" ],
    "requirementsLink" : {
      "rel" : "document",
      "href" : "/vessel/06161489/certificates/06161489-4476915-255/document",
      "action" : "GET",
      "types" : [ "application/octet-stream", "application/zip" ]
    }
  } ]
}
```

## Get FreeBoard and Tonnage

GET /vessel/{classnum}/freeboard-tonnage

### Description

Freeboard and Tonnage

### Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	Class Number	string

### Responses

HTTP Code	Schema
200	<a href="#">FreeboardTonnage</a>

## Produces

- `application/json`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/freeboard-tonnage' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Example HTTP response

### Response 200

```
{
  "freeboardAssignment" : [ {
    "freeboard" : "string",
    "displacement" : {
      "value" : 0,
      "unit" : "string"
    },
    "deadWeight" : {
      "value" : 0,
      "unit" : "string"
    },
    "calculatedFreeboard" : {
      "value" : 0,
      "unit" : "string"
    },
    "state" : "string"
  } ],
  "tonage" : [ {
    "regulation" : "string",
    "grossTonnage" : {
      "value" : 0,
      "unit" : "string"
    },
    "netTonnage" : {
      "value" : 0,
      "unit" : "string"
    }
  } ]
}
```

# Get Compartment Coating Condition

```
GET /vessel/{classnum}/compartments
```

## Description

Get Compartment Coating Condition

## Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	Class Number	string

## Responses

HTTP Code	Schema
200	<a href="#">Compartments</a>

## Produces

- `application/json`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/compartments' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Example HTTP response

### Response 200

```
{
  "compartments" : [ {
    "uid" : "16327201",
    "category" : "Void",
    "assetName" : "Void Tank 9S",
    "function" : "Void",
    "overallCoatingCondition" : "",
    "coatingType" : "No Coating",
    "lastCoatingExam" : "2020-11-04T00:00:00+00:00",
    "meansOfHeating" : ""
  } ]
}
```

## Get Parts status

GET /vessel/{classnum}/parts/status

### Description

Get Parts status

### Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	Class Number	string

### Responses

HTTP Code	Schema
200	<a href="#">PartsStatus</a>

### Produces

- [application/json](#)

### Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/parts/status' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Example HTTP response

### Response 200

```
{
  "partsStatus" : [ {
    "uid" : "16093891",
    "parentUid": "",
    "surveyName" : "Special Continuous Survey - Production Facility 10",
    "surveyDueDate" : "2020-11-27T00:00:00+00:00",
    "type" : "Outfitting",
    "name" : "Insulation Resistance Reading of Circuit",
    "inspectionType" : "Examination",
    "absProgram" : "",
    "status" : "CREDITED",
    "dueDate" : "2020-11-04T00:00:00+00:00",
    "doneDate" : "2019-10-12T00:00:00+00:00",
    "extenedDueDate" : "2020-11-04T00:00:00+00:00",
    "itemType" : "Bottom plating",
    "absGroup" : "",
    "absSubGroup" : "",
    "assetNumber" : "",
    "itemTypeHierarchy" : "",
    "hierarchy" : ""
  } ]
}
```

## Get All Certificates (zip version)

```
GET /vessel/{classnum}/certificates/document
```

### Description

Get a Zip file containing all certificates (current)

### Parameters

Type	Name	Description	Schema
Path	<b>classnum</b> <i>required</i>	Class Number	string

### Responses



HTTP Code	Schema
200	No Content

## Produces

- `application/octet-stream`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/certificates' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

## Get a single Certificate (zip version)

```
GET /vessel/{classnum}/certificates/{certnum}/document
```

## Description

Get a single Certificate (zip version)

## Parameters

Type	Name	Description	Schema
Path	<b>certnum</b> <i>required</i>	Certificate Number	string
Path	<b>classnum</b> <i>required</i>	Class Number	string

## Responses

HTTP Code	Schema
200	No Content

## Produces

- `application/octet-stream`

## Example cURL Request

```
curl --location --request GET 'https://api.eagle.org/customer/fleet-status/v3/vessel/{classnum}/certificates/{certnum}/document' \
--header 'Ocp-Apim-Subscription-Key: <Subscription key>' \
--header 'Authorization: Bearer <AccessToken>'
```

# Definitions

## Attachment

Name	Description	Schema
<b>description</b> <i>optional</i>	Describes the attachement. <b>Maximal length</b> : 200	string
<b>name</b> <i>optional</i>	File name <b>Maximal length</b> : 300	string
<b>uploadedOn</b> <i>optional</i>	Uploaded date in UTC format. <b>Example</b> : "2021-05-18T09:32:28+00:00"	string (date-time)

## AttachmentRequest

Name	Description	Schema
<b>attachmentOwner</b> <i>required</i>	Attachments added against. <b>Maximal length</b> : 200 <b>Example</b> : "Survey, Finding, Part"	string
<b>attachmentOwnerId</b> <i>required</i>	UID of attachmentOwner - surveyUID, findingUID, partUID. <b>Maximal length</b> : 100	string
<b>attachmentOwnerParent</b> <i>optional</i>	Parent of attachmentOwner. Like, when attachment is added for a survey, attachment owner is Survey and parent owner is order <b>Maximal length</b> : 200 <b>Example</b> : "Order, Workorder"	string
<b>attachmentOwnerParentId</b> <i>optional</i>	UID of attachmentOwnerParent. <b>Maximal length</b> : 100 <b>Example</b> : "OrderId"	string

Name	Description	Schema
<b>attachmentType</b> <i>required</i>	Attachment Type. For order, it's either Pictures or Others <b>Maximal length : 300</b> <b>Example :</b> "Pictures, Others, Survey Status Report, Deliverable Report etc"	string
<b>data</b> <i>required</i>	Base64 encoded bytes.	string (base64)
<b>description</b> <i>required</i>	Describes the attachment. <b>Maximal length : 200</b>	string
<b>name</b> <i>required</i>	File name with extension <b>Maximal length : 300</b>	string

## BuilderDesignation

Name	Description	Schema
<b>contractDate</b> <i>optional</i>	The date a contract is signed between the primary builder and the owner for the construction of a vessel or offshore facility.	string
<b>hullNumber</b> <i>optional</i>		string
<b>shipyard</b> <i>optional</i>		string

## CancelRequest

Name	Description	Schema
<b>cancelReason</b> <i>required</i>	Reason for cancellation <b>Maximal length : 4000</b>	string

## Certificate

Name	Schema
<b>abbr</b> <i>optional</i>	string

Name	Schema
<b>deadweight</b> <i>optional</i>	number
<b>expiryDate</b> <i>optional</i>	string
<b>extensionDate</b> <i>optional</i>	string
<b>flagName</b> <i>optional</i>	string
<b>id</b> <i>optional</i>	string
<b>issueDate</b> <i>optional</i>	string
<b>issuedBy</b> <i>optional</i>	string
<b>link</b> <i>optional</i>	<a href="#">Link</a>
<b>name</b> <i>optional</i>	string
<b>personName</b> <i>optional</i>	string
<b>placeOfIssue</b> <i>optional</i>	string
<b>serviceType</b> <i>optional</i>	string
<b>status</b> <i>optional</i>	string
<b>statusDate</b> <i>optional</i>	string

Name	Schema
<b>term</b> <i>optional</i>	string
<b>uid</b> <i>optional</i>	string

## Certificates

Name	Schema
<b>certificates</b> <i>optional</i>	< <a href="#">Certificate</a> > array

## Compartment

Name	Schema
<b>category</b> <i>optional</i>	string
<b>coatingType</b> <i>optional</i>	string
<b>function</b> <i>optional</i>	string
<b>lastCoatingExam</b> <i>optional</i>	string
<b>meansOfHeating</b> <i>optional</i>	string
<b>name</b> <i>optional</i>	string
<b>overallCoatingCondition</b> <i>optional</i>	string
<b>uid</b> <i>optional</i>	string

# Compartments

Name	Schema
<b>compartments</b> <i>optional</i>	< <a href="#">Compartment</a> > array

## Error

Name	Schema
<b>code</b> <i>required</i>	integer (int32)
<b>message</b> <i>required</i>	string

## Finding

Name	Description	Schema
<b>associatedTask</b> <i>optional</i>		string
<b>category</b> <i>optional</i>		string
<b>criticality</b> <i>optional</i>		string
<b>dateCreated</b> <i>optional</i>		string
<b>description</b> <i>optional</i>		string
<b>dueByTask</b> <i>optional</i>		string
<b>dueDate</b> <i>optional</i>		string

Name	Description	Schema
<b>dueIndicator</b> <i>optional</i>		string
<b>findingType</b> <i>optional</i>		string
<b>history</b> <i>optional</i>		< <a href="#">history</a> > array
<b>partName</b> <i>optional</i>		string
<b>partUid</b> <i>optional</i>		string
<b>reportNumber</b> <i>optional</i>		string
<b>serviceType</b> <i>optional</i>		string
<b>status</b> <i>optional</i>		string
<b>uid</b> <i>optional</i>		string
<b>workTypes</b> <i>optional</i>	Applicable Work Types.	< string > array

## history

Name	Schema
<b>criticality</b> <i>required</i>	string
<b>dateCreated</b> <i>required</i>	string
<b>description</b> <i>required</i>	string

Name	Schema
<b>findingType</b> <i>required</i>	string
<b>reportLocation</b> <i>required</i>	string
<b>reportNumber</b> <i>required</i>	string
<b>uid</b> <i>required</i>	string

## FindingRequest

Name	Description	Schema
<b>declineReason</b> <i>optional</i>	Required if the survey is due/overdue and excluded from the order. <b>Maximal length : 200</b>	string
<b>uid</b> <i>required</i>	Unique identifier for finding.	string

## Findings

Name	Schema
<b>findings</b> <i>optional</i>	< <a href="#">Finding</a> > array

## Freeboard

Name	Schema
<b>calculatedFreeboard</b> <i>optional</i>	<a href="#">NumericMeasure</a>
<b>deadWeight</b> <i>optional</i>	<a href="#">NumericMeasure</a>
<b>displacement</b> <i>optional</i>	<a href="#">NumericMeasure</a>



Name	Schema
<b>freeboard</b> <i>optional</i>	string
<b>state</b> <i>optional</i>	string

## FreeboardTonnage

Name	Schema
<b>freeboardAssignment</b> <i>optional</i>	< <a href="#">Freeboard</a> > array
<b>tonage</b> <i>optional</i>	< <a href="#">Tonnage</a> > array

## Link

Name	Schema
<b>action</b> <i>optional</i>	string
<b>href</b> <i>optional</i>	string
<b>rel</b> <i>optional</i>	string
<b>types</b> <i>optional</i>	< string > array

## NumericMeasure

Name	Schema
<b>unit</b> <i>optional</i>	string
<b>value</b> <i>optional</i>	number

## OccasionalSurvey

Name	Description	Schema
<b>id</b> <i>required</i>	Id to uniquely identify occasional survey (TBD, abbreviation/jpnum) <b>Example</b> : "TRANS-DAM"	string
<b>orderType</b> <i>required</i>	Order Type, more to be added later <b>Default</b> : "Survey After Construction" <b>Maximal length</b> : 300 <b>Example</b> : "Survey After Construction"	enum (Survey After Construction, ISM-HSQEEn SMC Audits, ISPS Verification Audits, MLC Inspections/Audits, SUBM Vessel Audits, ISM-HSQEEn DOC Audits, SUBM Office Audits)
<b>remoteAllowed</b> <i>required</i>	<b>Example</b> : true	boolean
<b>surveyType</b> <i>required</i>	Occasional survey type. <b>Maximal length</b> : 30 <b>Example</b> : "Transit Damage Survey"	string

## Order

Name	Description	Schema
<b>attendanceType</b> <i>optional</i>	<b>Maximal length</b> : 100 <b>Example</b> : "Regular Attendance"	string
<b>firstVisitDate</b> <i>optional</i>	Date the order is placed, required	string (date)
<b>portOffice</b> <i>optional</i>	<b>Maximal length</b> : 240 <b>Example</b> : "Houston Port"	string
<b>reportNumber</b> <i>optional</i>	Work order number. <b>Maximal length</b> : 50	string

Name	Description	Schema
<b>requestDate</b> <i>optional</i>	Date the order is placed, required	string (date)
<b>requestId</b> <i>optional</i>	Request Id. <b>Maximal length : 50</b>	string
<b>requestType</b> <i>optional</i>	<b>Maximal length : 50</b> <b>Example : "Surveys After Construction"</b>	string
<b>status</b> <i>optional</i>	<b>Maximal length : 50</b> <b>Example : "Order Placed"</b>	string

## OrderDetails

Name	Description	Schema
<b>additionalNot ifications</b> <i>optional</i>		< <a href="#">OrderNotification</a> > array
<b>comments</b> <i>optional</i>	comments <b>Maximal length : 4000</b>	string
<b>findings</b> <i>optional</i>		< <a href="#">findings</a> > array
<b>localContact</b> <i>optional</i>		<a href="#">Person</a>
<b>orderSummar y</b> <i>optional</i>		<a href="#">Order</a>
<b>surveys</b> <i>optional</i>		< <a href="#">surveys</a> > array

### findings

Name	Schema
<b>attachment</b> <i>optional</i>	< <a href="#">Attachment</a> > array

Name	Schema
<b>description</b> <i>optional</i>	string
<b>uid</b> <i>optional</i>	string

## surveys

Name	Schema
<b>attachment</b> <i>optional</i>	< <a href="#">Attachment</a> > array
<b>description</b> <i>optional</i>	string
<b>parts</b> <i>optional</i>	< <a href="#">parts</a> > array
<b>uid</b> <i>optional</i>	string

## parts

Name	Schema
<b>attachment</b> <i>optional</i>	< <a href="#">Attachment</a> > array
<b>uid</b> <i>optional</i>	string

# OrderNotification

Name	Description	Schema
<b>emailIds</b> <i>optional</i>	one or more email addresses to receive notifications <b>Maximal length : 1000</b> <b>Example :</b> " <a href="#">abc@example.com</a> , <a href="#">def@example.com</a> "	string

Name	Description	Schema
<b>notificationType</b> <i>optional</i>	events for which the customer wants to receive notifications <b>Maximal length</b> : 254 <b>Example</b> : "Surveyor Assignment"	enum (Surveyor Assignment, Preliminary report signed off, Final Reports, Certificates, and Invoice(s) are available online)

## OrderRequest

Name	Description	Schema
<b>additionalNotifications</b> <i>optional</i>		< <a href="#">OrderNotification</a> > array
<b>attendanceType</b> <i>optional</i>	Attendance Type <b>Default</b> : "Regular Attendance" <b>Maximal length</b> : 100 <b>Example</b> : "Regular Attendance"	enum (Regular Attendance, Remote Attendance)
<b>classNumber</b> <i>optional</i>	<b>Maximal length</b> : 30 <b>Example</b> : "09182047"	string
<b>comments</b> <i>optional</i>	comments <b>Maximal length</b> : 4000	string
<b>customerNumber</b> <i>required</i>	Customer Number (WCN) <b>Maximal length</b> : 30 <b>Example</b> : "151609"	string
<b>finding</b> <i>optional</i>	Findings selected for the order.	< <a href="#">FindingRequest</a> > array
<b>imoNumber</b> <i>optional</i>	<b>Maximal length</b> : 50 <b>Example</b> : "952798"	string
<b>localContact</b> <i>optional</i>		<a href="#">Person</a>

Name	Description	Schema
<b>locationCode</b> <i>required</i>	UN/LOCODE for the selected Port Location leading with country code. Like, for Houston,TX port in USA, the locationCode should be USHOU In case of remote request, send the next expected port of call <b>Maximal length : 10</b> <b>Example : "USHOU"</b>	string
<b>orderType</b> <i>optional</i>	Work Type. <b>Maximal length : 300</b> <b>Example : "Survey After Construction"</b>	enum (Surveys After Construction, ISM-HSQEEn SMC Audits, ISPS Verification Audits, MLC Inspections/Audits, SUBM Vessel Audits, ISM-HSQEEn DOC Audits, SUBM Office Audits)
<b>poNumber</b> <i>optional</i>	Purchase Order number. <b>Maximal length : 70</b> <b>Example : "870ATP/MG01/A3237"</b>	string
<b>requestDate</b> <i>required</i>	System will default the Request date to the date the Order was originally created as a Draft. When the customer submits an order, the Request date will be updated to reflect the date of submission. <b>Example : "2021-05-18T09:32:28+00:00"</b>	string (date-time)
<b>scheduledFinish</b> <i>optional</i>	Estimate Last Visit Date in UTC format. It will default to current date, if not provided <b>Example : "2021-05-18T09:32:28+00:00"</b>	string (date-time)
<b>scheduledStart</b> <i>optional</i>	Estimate First Visit Date in UTC format. It will default to current date, if not provided <b>Example : "2021-05-18T09:32:28+00:00"</b>	string (date-time)
<b>survey</b> <i>optional</i>	Surveys selected in the workorder	< <a href="#">SurveyRequest</a> > array

## Owner

Name	Schema
<b>address</b> <i>optional</i>	string
<b>name</b> <i>optional</i>	string
<b>type</b> <i>optional</i>	string
<b>wcn</b> <i>optional</i>	string

## PartRequest

Name	Description	Schema
<b>uid</b> <i>required</i>	Unique identifier for part.	string

## PartStatus

Name	Schema
<b>absProgram</b> <i>optional</i>	string
<b>assetType</b> <i>optional</i>	string
<b>doneDate</b> <i>optional</i>	string
<b>dueDate</b> <i>optional</i>	string
<b>extenedDueDate</b> <i>optional</i>	string
<b>inspectionType</b> <i>optional</i>	string

Name	Schema
<b>name</b> <i>optional</i>	string
<b>parentUid</b> <i>optional</i>	string
<b>status</b> <i>optional</i>	string
<b>surveyDueDate</b> <i>optional</i>	string
<b>surveyName</b> <i>optional</i>	string
<b>type</b> <i>optional</i>	string
<b>uid</b> <i>optional</i>	string

## PartsStatus

Name	Schema
<b>partsStatus</b> <i>optional</i>	< <a href="#">PartStatus</a> > array

## Person

Name	Description	Schema
<b>company</b> <i>optional</i>	<b>Maximal length : 250</b> <b>Example :</b> "Some Company"	string
<b>email</b> <i>optional</i>	<b>Maximal length : 250</b> <b>Example :</b> "janeD@company.com"	string (email)
<b>name</b> <i>required</i>	<b>Maximal length : 50</b> <b>Example :</b> "Jane Doe"	string



Name	Description	Schema
<b>phone</b> <i>optional</i>	<b>Maximal length : 30</b> <b>Example : "1234456712"</b>	string

## ServiceState

Name	Schema
<b>serviceState</b> <i>optional</i>	string
<b>serviceType</b> <i>optional</i>	string
<b>stateDate</b> <i>optional</i>	string

## SurveyAudit

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>doneDate</b> <i>optional</i>		string
<b>dueDate</b> <i>optional</i>		string
<b>extenedDueDate</b> <i>optional</i>		string
<b>placeHeld</b> <i>optional</i>		string
<b>rangeFromDate</b> <i>optional</i>		string
<b>rangeToDate</b> <i>optional</i>		string

Name	Description	Schema
<b>requirementsLink</b> <i>optional</i>		<a href="#">Link</a>
<b>serviceType</b> <i>optional</i>	<b>Maximal length : 200</b>	string
<b>status</b> <i>optional</i>		string
<b>type</b> <i>optional</i>		string
<b>uid</b> <i>optional</i>		string
<b>workTypes</b> <i>optional</i>	Applicable Work Types.	< string > array

## SurveyAudits

Name	Schema
<b>surveyAudits</b> <i>optional</i>	< <a href="#">SurveyAudit</a> > array

## SurveyRequest

Name	Description	Schema
<b>declineReason</b> <i>optional</i>	Required if the survey is due/overdue and excluded from the order. <b>Maximal length : 200</b>	string
<b>extensionRequested</b> <i>optional</i>	The survey has to be overdue or coming in due in 30 days. <b>Example : true</b>	boolean
<b>occasional</b> <i>optional</i>	True or false.	boolean

Name	Description	Schema
<b>parts</b> <i>optional</i>		< <a href="#">PartRequest</a> > array
<b>surveyType</b> <i>optional</i>	Survey Type. <b>Maximal length</b> : 30 <b>Example</b> : "Retesting Survey - Cargo Gear"	string
<b>uid</b> <i>required</i>	Unique identifier for survey/audit.	string

## Tonnage

Name	Schema
<b>grossTonnage</b> <i>optional</i>	<a href="#">NumericMeasure</a>
<b>netTonnage</b> <i>optional</i>	<a href="#">NumericMeasure</a>
<b>regulation</b> <i>optional</i>	string

## Vessel

Name	Description	Schema
<b>breadthMolded</b> <i>optional</i>		<a href="#">NumericMeasure</a>
<b>businessStatus</b> <i>optional</i>	The business state of the vessel.	string
<b>callSign</b> <i>optional</i>	The unique lifecycle identifier assigned to the ship by the flag state for radio communication.	string

Name	Description	Schema
<b>classNotation</b> <i>optional</i>	A combination of words, acronyms, letters or abbreviations that describe a vessel's design parameters and restrictions, cargo type, service or applicable survey characteristics, for example, Oil Carrier, ACCU, Gulf of Mexico, SH HM2, CPP, etc.	string
<b>classNumber</b> <i>optional</i>	The classification society's specific identification number assigned to a vessel.	string
<b>deliveryDate</b> <i>optional</i>	The Delivery Date means the date upon which a vessel is delivered by the Builder.	string
<b>depthMolded</b> <i>optional</i>		NumericMeasure
<b>description</b> <i>optional</i>	A description on the Classification Certificate that provides a more definitive identification of the industrial function of a vessel that supplements the Class Notation or provides a further clarification in the case where the Class Notation is nondescript.	string
<b>designDeadWeight</b> <i>optional</i>		NumericMeasure
<b>flagName</b> <i>optional</i>	The national authority with whom the vessel is registered.	string
<b>grossTonnage</b> <i>optional</i>		NumericMeasure
<b>imoNumber</b> <i>optional</i>	The International Maritime Organization number is a unique identifier for ships, registered ship owners and management companies.	string
<b>keelLayingDate</b> <i>optional</i>	The date upon which progressive construction identifiable with a specific vessel begins, including construction of the first module or prefabricated section of the hull that is identifiable with that vessel.	string
<b>lengthOverall</b> <i>optional</i>		NumericMeasure

Name	Description	Schema
<b>lifeCycleStatus</b> <i>optional</i>	The LifeCycle state of the vessel.	string
<b>links</b> <i>optional</i>		< <a href="#">Link</a> > array
<b>netTonnage</b> <i>optional</i>		<a href="#">NumericMeasure</a>
<b>officialNumber</b> <i>optional</i>	The Official Number is a ship identifier number assigned to merchant ship by her country of registration.	string
<b>otherClassSociety</b> <i>optional</i>	TheOther Class Society name for dual class vessel.	string
<b>portRegistry</b> <i>optional</i>	The place where the details of a ship or boat are officially recorded.	string
<b>primaryBuilder</b> <i>optional</i>		<a href="#">BuilderDesignation</a>
<b>registeredOwner</b> <i>optional</i>		<a href="#">Owner</a>
<b>serviceStates</b> <i>optional</i>	Vessel's classification and statutory service state.	< <a href="#">ServiceState</a> > array
<b>vesselName</b> <i>optional</i>	The name of the vessel.	string
<b>vesselType</b> <i>optional</i>	The principal categorization of a vessel/unit by its structural arrangement.	string

## VesselStateDesignation

Name	Schema
<b>ISMState</b> <i>optional</i>	string
<b>ISMStateDate</b> <i>optional</i>	string
<b>ISPSState</b> <i>optional</i>	string
<b>ISPSStateDate</b> <i>optional</i>	string
<b>classState</b> <i>optional</i>	string
<b>classStateDate</b> <i>optional</i>	string
<b>lifeCycleState</b> <i>optional</i>	string
<b>lifeCycleStateDate</b> <i>optional</i>	string

## Vessels

Name	Schema
<b>vessels</b> <i>optional</i>	< <a href="#">Vessel</a> > array

## headers