CTMESSAGES API

User Manual

Abstract

CTMESSAGES API MANUAL – ThPA S.A.
Date 14/11/2024

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Introduction

Please be aware that utilization of the CTMESSAGES APIs requires registration as a user on the THPA Webportal (*https://webportal.thpa.gr/login*) and active authorization for the CTOSXML application.

Detailed information regarding the registration process for the Webportal and CTOSXML can be located at the following url: https://www.thpa.gr/ctmis.

1. Login

In order to be able to use the CTMESSAGES APIs, it is essential to generate a Bearer token by utilizing the Login API.

- URL: https://api-sso.thpa.gr
- Endpoint: /login
- Method: POST

Login API				
URL	https://api-sso.thpa.gr/login			
Headers	Content-Type: application/json			
Parameters	Type	Format/Values	Required	Comment
email	text	email	Mandatory	
password	text		Mandatory	

1. Send your email and password (that you use to login to the Webportal) to the https://api-sso.thpa.gr/login.

Request example

```
curl -H "Content-Type: application/json"
-X POST https://api-sso.thpa.gr/login
-d '{"email":"ctosxml_email@yoyremail.com", "password":"yourpassword"}'
{
    "email":"ctosxml_email@ourmeail.com",
    "password":"yourpassword"
}
```

2. As a success response you will receive JSON web token (jwt).

```
http code 200
{
    "jwt":"json web token"
}
```

3. In the event of an error, you will receive an error output accompanied by an appropriate error message.

```
{
```

```
    "error": "Password that you have entered is not correct"
}
```

You must incorporate the aforementioned JWT token as an authorization header parameter in all subsequent requests to all the other APIs.

*Please ensure that the value of the authorization parameter adheres to the specified format, which consists of the word "Bearer" followed by a single space, and then the JWT token's value.

2. Upload XML

This API is intended for transmitting various XML message types to the CTOS system. The valid XML message types supported by this API include: COPRAR1, COPRAR2, RAILCOPRAR2, CALINF, COREOR, and COHAOR. Please ensure that the provided XML messages adhere to these accepted types when using the API.

The corresponding XSD files and the documentation associated with the XML message types are accessible at the following URL: https://www.thpa.gr/ctmis.

- URL: https://api-ctmessages.thpa.gr
- Endpoint: /xml/upload
- Method: POST

Upload XML API				
URL	https://api-ctmessages.thpa.gr/xml/upload			
Headers				
Authorization	Bearer: json web token			
Parameters	Type	Format/Values	Required	Comment
xmlText	text		Mandatory	

1. You may submit XML either as JSON or as XML in the body request. Please escape the special characters when submitting with JSON format.

Request example JSON

```
curl -H "Authorization: Bearer json.web.token.eg"
-H "Content-Type: application/json"
-X POST https://api-ctmessages.thpa.gr/xml/upload
-d '{"xmlText": "<?xml version=\"1.0\" encoding=\"ISO-8859-7\"
?><COPRAR1>...</COPRAR1>"}'
```

Request example XML Body

```
curl -H "Authorization: Bearer {json_web_token{}"
-H "Content-Type: application/xml"
-X POST https://api-ctmessages.thpa.gr/xml/upload
-d '<?xml version="1.0" encoding="ISO-8859-7" ?><COPRAR1>...</COPRAR1>'
```

2. As a response you will receive a message with the below text.

```
{
    "message":"The XML was received successfully"
}
```

3. In the event of an error, you will receive an error output accompanied by an appropriate error message.

```
{
    "error": "Element 'Container': The attribute 'Secondary_Agent' is required but
missing on line 6"
}
```

Upon successfully uploading the XML to this API, it is essential to observe a waiting period of 15 minutes before proceeding further. Subsequently, you should initiate a call to the XML response API or alternatively, monitor the XML response at the designated URL: https://ctosxml.thpa.gr. This step is crucial in order to ascertain whether the transmitted message has passed successful validation by the CTOS system.

3. XML Response

This API is intended for retrieving the result of the validation performed on the uploaded xml messages by CTOS.

- URL: https://api-ctmessages.thpa.gr
- Endpoint: /xml/response
- Method: POST

Upload XML API				
URL	https://api-ctmessages.thpa.gr/xml/response			
Headers				
Authorization	Bearer: json web token			
Parameters	Type	Format/Values	Required	Comment
xmlCode	text	text	Mandatory	

1. Request example

```
curl -H "Authorization: Bearer {json_web_token{}"
-H "Content-Type: application/xml"
-X POST https://api-ctmessages.thpa.gr/xml/response
-d '{"xmlCode":"theSubmittedXmlCode"}'
```

2. As a response you will receive the code and the message generated by CTOS after the validation of the xml message.

```
{
    "msg": "Success",
```

```
    "companyId": "50000A",
    "companyName": "example"
}
```

3. In the event of an error, you will receive an error output accompanied by an appropriate error message.

```
{
    "error": "The company with the given vat does not exist in the system"
}
```

4. Company info

This API is intended for obtaining the company ID and company name by providing a VAT number.

- URL: https://api-ctmessages.thpa.gr
- Endpoint: /company/info
- Method: POST

Company Info API				
URL	https://api-ctmessages.thpa.gr/company/info			
Headers	Content-Type: application/json			
Authorization	Bearer: json web token			
Parameters	Type	Format/Values	Required	Comment
vat	text	text	Mandatory	

1. To retrieve the company ID and company name, simply include the VAT (ΑΦΜ) as a parameter.

Request example

```
curl -H "Authorization: Bearer {json_web_token{}"
-H "Content-Type: application/xml"
-X POST https://api-ctmessages.thpa.gr/company/info
-d '{"vat":"987654123"}'
```

2. As a response, you will be provided with the following parameters: **msg** with the success message, **companyId** representing the company ID, and **companyName** signifying the name of the company.

```
{
    "msg": "Success",
    "companyId": "50000A",
    "companyName": "example"
}
```

3. In the event of an error, you will receive an error output accompanied by an appropriate error message.

```
{
    "error": "The company with the given vat does not exist in the system"
}
```

5. Pre advice information for export

The API shows the container's number and if have active preadvice for specific voyage.

- URL: https://api-ctmessages.thpa.gr
- Endpoint: /preadvice/export
- Method: POST
- Rate Limit: 10 request per hour

Company Info API				
URL	https://api-ctmessages.thpa.gr/preadvice/export			
Headers	Content-Type: application/json			
Authorization	Bearer: json web token			
Parameters	Type	Format/Values	Required	Comment
vessel	text	text	Mandatory	As declared on COPRAR1 (ship_name)
voyage	text	text	Mandatory	As declared on COPRAR1 (vo_code)

1. Add the **vessel** and **voyage** parameter to the request with the values that declared on COPRAR1 message **ship_name** and **vo_code**.

Request example

```
curl -H "Authorization: Bearer {json_web_token{}"
-H "Content-Type: application/xml"
-X POST https://api-ctmessages.thpa.gr/preadvice/export
-d '{"vessel":"HAPPY DUCKLING", "voyage":"MYVOYAGECODE"}'
```

2. Success Response

```
{
    "msg": "Success",
    "data": {
        "contaienrs": [
            {
                "containerno": "ABCU1234567",
                "containerstatus": "Active preadvice"
            },
            {
                "containerno": "ABCU1234568",
                "containerstatus": "Active preadvice"
            },
            {
                "containerno": "ABCU1234569",
                "containerstatus": "In yard"
            }
        ]
    }
}
```

3. Error Response

```
{
    "error": "Preadvice info not found"
}
```

6. Customs MRN for export Containers

Get Customs MRN for export containers by voyage.

- URL: https://api-ctmessages.thpa.gr
- Endpoint: /export/customs/document
- Method: POST

Customs MRN API				
URL	https://api-ctmessages.thpa.gr/export/customs/document			
Headers	Content-Type: application/json			
Authorization	Bearer: json web token			
Parameters	Type	Format/Values	Required	Comment
vessel	text	text	Mandatory	As declared on COPRAR1 (ship_name)
voyage	text	text	Conditional	As declared on COPRAR1 (vo_code)
outvoy	text	text	Conditional	As declared on COARRI (out_voyage)

1. Request example with voyage and vessel

```
curl -H "Authorization: Bearer {json web token}" -H "Content-Type: application/json"
-X POST https://api-ctmessages.thpa.gr/export/customs/document
-d '{"vessel": "Happy duckling", "voyage": "20VOCODEB"}'
```

Request example with outvoy and vessel

```
curl -H "Authorization: Bearer {json web token}" -H "Content-Type: application/json"
-X POST https://api-ctmessages.thpa.gr/export/customs/document
-d '{"vessel": "Happy duckling", "outvoy": "20VOUTVOY"}'
```

2. As a response you will receive a message with the below text.

```
{
    "msg": "Success",
    "data": [
        {
            "contaienrno":"ABCU1234567",
            "mrn": "24GREX1234567890"
        },
        {
            "contaienrno":"ABCU1234568",
```

```
            "mrn": "24GREX1234567895"
        }
    ]
}
```

3. In the event of an error, you will receive an error output accompanied by an appropriate error message.

```
{
    "error": "No records found"
}
```

7. Schedule information

Get vessel schedule information by ETA

-   URL: https://api-ctmessages.thpa.gr
-   Endpoint: /vessel/schedule
-   Method: POST

Vessel Schedule API				
URL	https://api-ctmessages.thpa.gr/vessel/schedule			
Headers	Content-Type: application/json			
Authorization	Bearer: json web token			
Parameters	Type	Format/Values	Required	Comment
eta	text	Date eg "2024-01-31"	Mandatory	Y-m-d
outvoy	text	text	Conditional	As declared on COARRI (out_voyage)

1. Request example

```
curl -H "Authorization: Bearer {json web token}" -H "Content-Type: application/json"
-X POST https://api-ctmessages.thpa.gr/export/vessel/schedule
-d '{"eta": "2024-01-01"}'
```

2. As a response you will receive a message with the below text.

```
"msg": "Success",
    "data": [
        {
            "vessel": "HAPPY DUCKLININGN",
            "voyage": "AVOYAGE",
            "invoy": "AINVOY",
            "outvoy": "AOUTVOY",
            "eta": "2024-10-26 15:00:00",
            "etb": "2024-10-27 09:00:00",
            "etd": "2024-10-27 21:30:00",
            "ata": "2024-10-26 16:31:00",
            "atb": "2024-10-27 08:00:00",
```

```
        "atd": "2024-10-27 21:30:00"
      }
    ]
}
```

3. In the event of an error, you will receive an error output accompanied by an appropriate error message.

```
{
    "error": "No records found"
}
```

8. Testing environment

Most of the CTMESSAGES APIs are also accessible in a test mode. While operating in this test mode, the APIs will execute identical validation checks as in the production environment, but they will not engage with the live CTOS system.

The test mode endpoints are the following:

1) Test Upload XML API: https://api-ctmessages-test.thpa.gr/xml/upload

2) Test XML Response API: https://api-ctmessages-test.thpa.gr/xml/response

3) Test Company Info API: https://api-ctmessages-test.thpa.gr/company/info