

## Testing a UFTP implementation using the UFTP Testing functionality

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### Introduction

In order to send and receive Flex messages, you can create your own UFTP implementation. This manual describes how you can test the reception and sending of messages via your own UFTP implementation. Testing takes place on the GOPACS acceptance environment <https://app.acc.gopacs.eu>.

For more information on how to create your own UFTP implementation, please read the '*Flexibility trade (day-ahead) using own UFTP implementation*' in the [documents and manuals section](#).

### Glossary

If there is a term that is unclear, the explanation is probably in our Glossary.

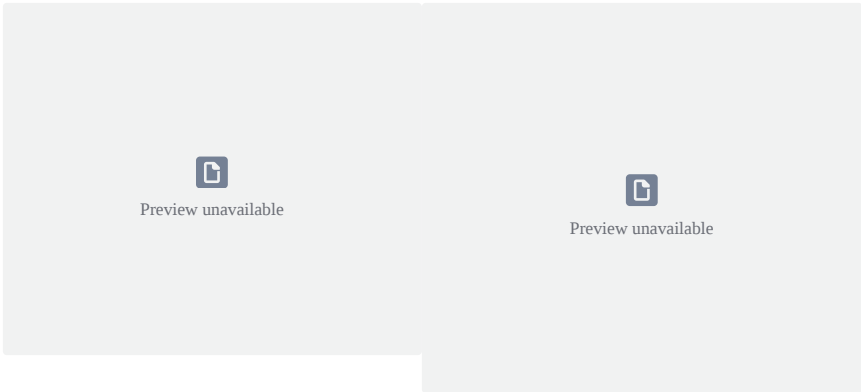
For Dutch the glossary is located here: [Begrippenlijst - GOPACS](#)

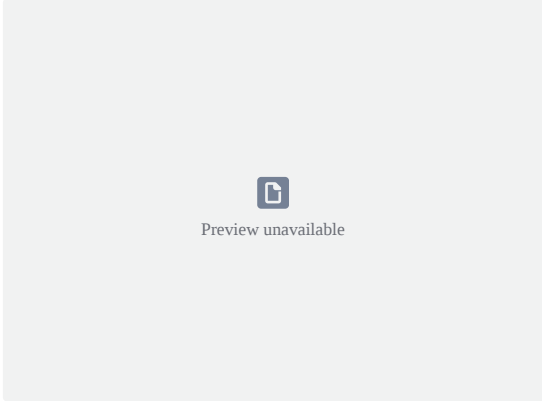
For English the glossary is located here: [Glossary - GOPACS](#)

## Preparation

Step	Description
1	<p>Preparation: To be able to test the reception and sending of UFTP messages, either via GUI or API, you will need this setup <u>on the acceptance environment</u>:</p> <ol style="list-style-type: none"> <li><b>A registered trading company with an activated user account</b> <ol style="list-style-type: none"> <li>Start at <a href="https://app.acc.gopacs.eu/signup">https://app.acc.gopacs.eu/signup</a> and follow instructions on the page and the emails that you will receive. A signup needs to be approved (by GOPACS or a grid operator). You can ask for an signup approval in an email to the GOPACS service desk as mentioned on <a href="#">Contact - GOPACS</a></li> </ol> </li> <li><b>The right UFTP settings on your <a href="#">trading company details page</a></b> <ol style="list-style-type: none"> <li>Instructions: Please refer to the manual 'Setting UFTP Participant details' in <a href="#">Documents and manuals</a>.</li> </ol> </li> <li><b>An API client.</b> Please read the manual 'OAuth2 Client credentials for API clients' in <a href="#">Documents and manuals</a>.</li> <li><b>Registered a grid connection and capacity steering contract(s)</b> <ol style="list-style-type: none"> <li>Send an email to <a href="mailto:servicedesk@edsn.nl">servicedesk@edsn.nl</a> and ask to create test data for you on the acceptance environment for GOPACS CLC: a grid connection and Capacity Limiting Contract(s).</li> </ol> </li> </ol> <p>When the above setup is completed, you can proceed.</p>

## Instructions for using the GOPACS UI (only capacity limitation possible)

Step	Description
1	<p>Ensure that you have completed the preparation als shown above</p> <p>⚠ Note that when using the GOPACS UI for testing UFTP, only capacity limitation is supported</p>
2	<p>Log in with the trading company user account and navigate to the Capacity Limiting Contract section via the menu. Search for the contract, then click on the contract to open its detail page. The bottom of the page has a button "Test UFTP message". This button is only available on the acceptance environment, not on the production environment.</p> <div>  </div>

3	<p>Click the button to open a small form which will trigger sending a flex request to your UFTP endpoint.</p> <p>You can adjust the values in this form to set a specific date and start- and end time for the flex request and you can set specific limitations per time block (ISPs). You can also choose to use the default data already filled in on the form. Then click confirm. This will trigger sending a flex request for this contract to your UFTP endpoint</p> 
4	<p>If the flex request can't be sent, you will directly see an error at the top of the page. Possibly your companies UFTP details are not yet correctly filled in, see step 1.2</p> <p>If the flex request is sent, you should have received it on your UFTP endpoint.</p>
5	<p>Your API can now respond to this received flexRequest message with a flexMessageResponse message and, subsequently, a flexOffer message. This will, in turn, trigger a flexOfferResponse and a flexOrder message. Both of them should be checked on your side.</p>
6	<p>If you run into an issue which you can't solve with the provided documentation, you can send an email to the GOPACS service desk as mentioned on <a href="https://www.gopacs.eu/contact/">https://www.gopacs.eu/contact/</a>.</p>

## Instructions for using the API (for both capacity limitation and deployment)

Step	Description
1	Ensure that you have completed the preparation als shown above
2	<p>You can use an API client of your choice. Make sure to get a Bearer token before sending your requests. You can send a message containing the desired test data directly to <a href="https://api.acc.gopacs-services.eu/uftp-testing/v1/flex/conversations">https://api.acc.gopacs-services.eu/uftp-testing/v1/flex/conversations</a>. For more information on this API, please read the OpenAPI documentation on <a href="https://api.acc.gopacs-services.eu/docs/uftp-message-portal/swagger-ui">https://api.acc.gopacs-services.eu/docs/uftp-message-portal/swagger-ui</a></p>
3	The next steps are the same as when using the GOPACS UI, with the difference that on sending an invalid flex request, you will receive an error response.

**GOPACS**