

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>.

How to read the instructions

The steps in the instruction manual are described in table form to clearly define the steps. The following columns are defined.

Column	Definition
Step	Order in which the steps are needed to be executed.
Description	Describes in detail what happens in the step.

Glossary

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

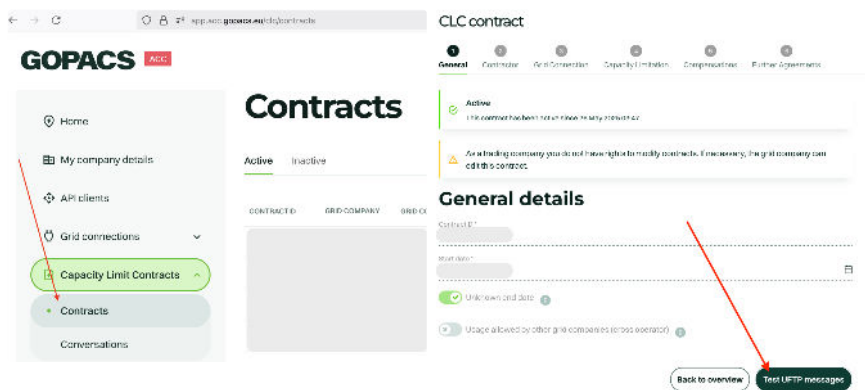
For Dutch the glossary is located here: [Begrippenlijst - GOPACS](#)

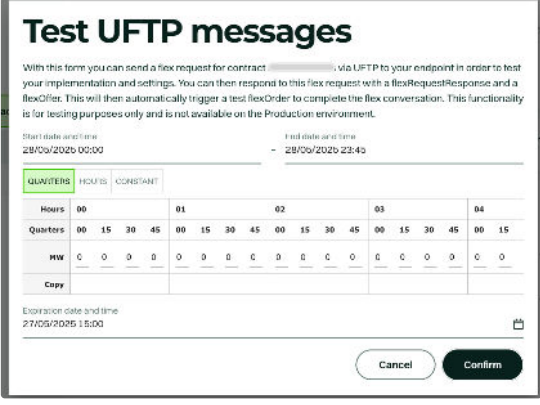
For English the glossary is located here: [Glossary - GOPACS](#)

Preparation

Step	Description
1	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>: A registered trading company with an activated user account - Start at https://app.acc.gopacs.eu/signup 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 Contact - GOPACS The right UFTP settings on your trading company details page - Instructions: Please refer to the manual Company settings for participating in CLC (Capacity Limiting Contracts) on Documents and manuals. An API client - Log in to the GOPACS UI as a Trading Company admin and navigate to API Client - Press the '+ Add' button to create a new API client - Specify a unique name - Once created, you will see a client key. <i>This key is only shown once for security reasons!</i> Registered a grid connection and capacity steering contract(s) - Send an email to servicedesk@edsn.nl and ask to create test data for you on the acceptance environment for GOPACS CLC: a grid connection and Capacity Limiting Contract(s). When the above setup is completed, you can proceed.

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

Step	Description
1	Ensure that you have completed the preparation als shown above ⚠ Note that when using the GOPACS UI for testing UFTP, only capacity limitation is supported
2	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. 

3	Click the button to open a small form which will trigger sending a flex request to your UFTP endpoint. 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 
4	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 If the flex request is sent, you should have received it on your UFTP endpoint.
5	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.
6	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 https://www.gopacs.eu/contact/.

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	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 https://api.acc.gopacs-services.eu/uftp-testing/v1/flex/conversations . For more information on this API, please read the OpenAPI documentation on https://api.acc.gopacs-services.eu/docs/uftp-message-portal/swagger-ui
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