

Optiflex

User Manual

Version 1.0 – 03-10-2022

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1 Introduction

The B2C Optiflex platform manages the submission, processing and validation of unavailability events and schedules.

Submitting information to Optiflex can be done via the External Communication Layer based structured asynchronous AMQP messaging or by using the web client application for which the functionalities are described in this document.

The B2C Optiflex web client provides:

- Functionality to submit unavailability events and schedules based on predefined .xlsx templates
- Screens to verify the results of the submitted information, status and reason of reply and to view the details of valid updated unavailability plan for each delivery point included in the Outage Planning Agent's contract
- Screens to verify the results of the submitted information, status and reason of reply and to view the details of valid schedules for each delivery point included in the Scheduling Agent's contract

This user manual will follow the incremental releases of the web client application and will be accessible via the web client itself. The information within the guide will always be in line with the features released to the demo and production environments and will evolve through time.

2 Submission of information

Interaction with Optiflex can be done in the following ways:

- via the External Communication Layer based structured asynchronous AMQP messaging
- via the web client application using .xlsx files.

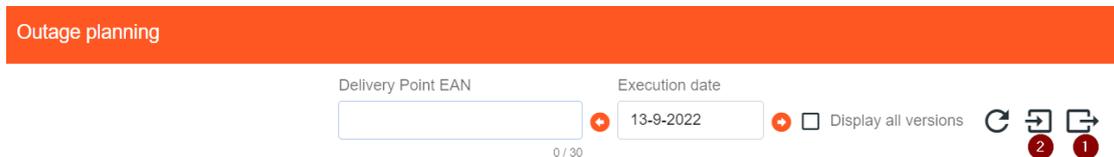
For all information related to the External Communication Layer, please refer to the Technical Guide.

The functionality provided to submit information via the web client is described below.

2.1 Upload zone

The upload process exists out of two basic steps. First, the files are uploaded, parsed and provided to Optiflex. In a second step, the content of the messages contained in each file is validated. The result of the validation per message is provided in the upload window. If the validation status is different from 'Accepted', the user should control the reason code to see the detailed reason.

The upload zone is accessible by clicking on the below button via the Scheduling or the Outage Planning sections:

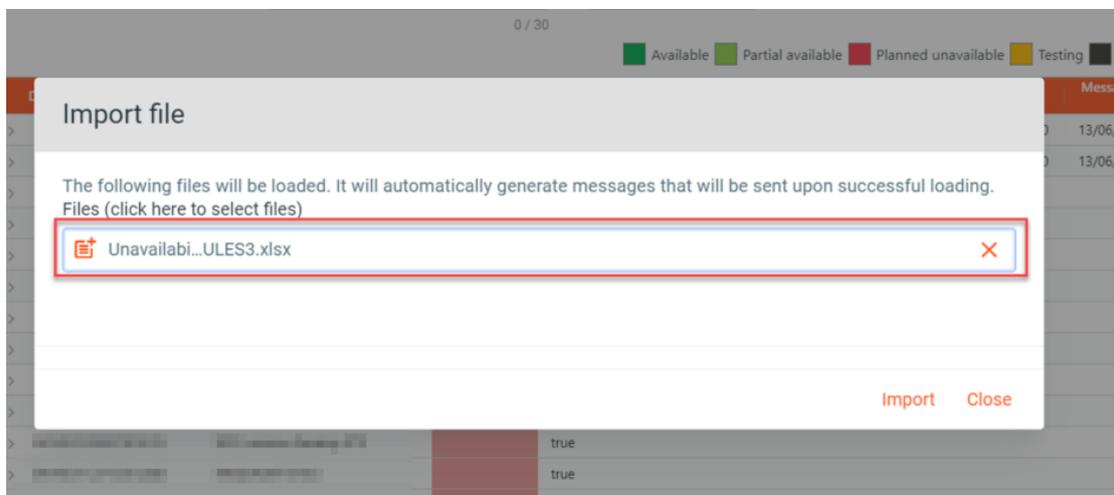


1. Download file

This action can be done to download the Template that can be used for the submission of information.

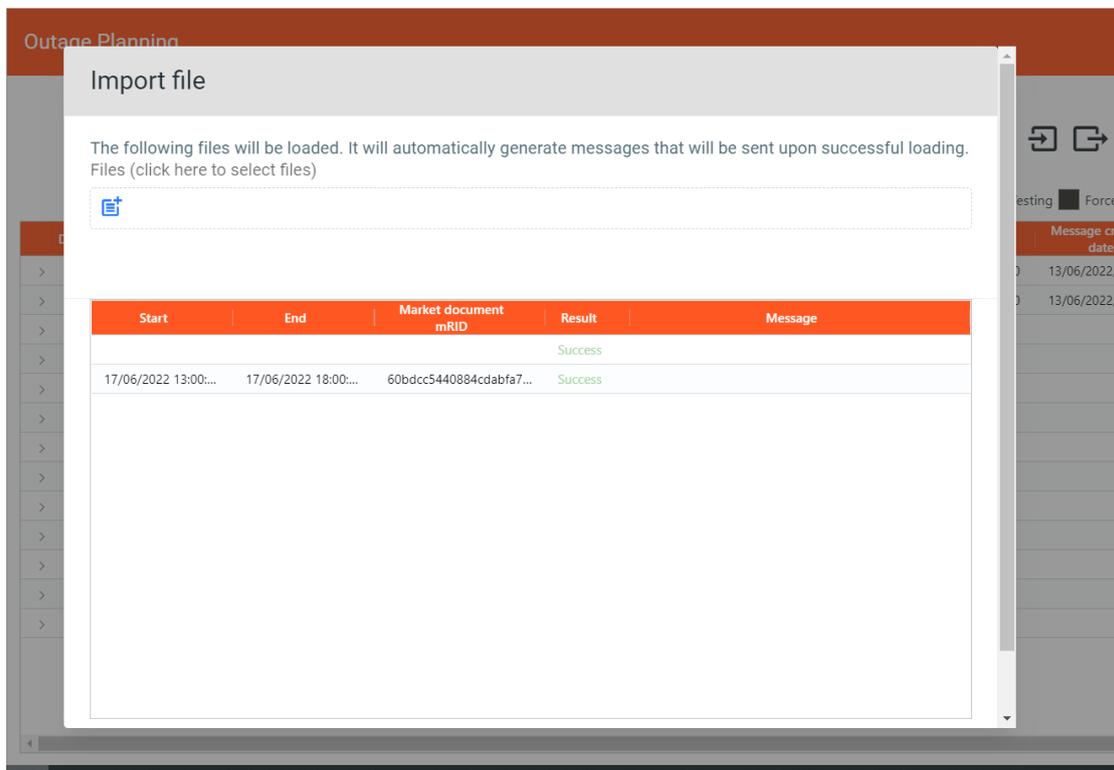
2. Upload zone

By this action, the upload zone popup allows the user to drop / select files for submission.



After selecting a file to upload via the file explorer, the end-user is able to trigger the upload process by clicking the 'Import' button.

A message will indicate whether the file was correctly uploaded or not as pictured below:



2.2 Templates

As indicated above, there are a number of things that must be respected when uploading files to Optiflex:

- First of all, the file extension must be .xlsx. Optiflex does not accept files with another extension.
- Secondly, the worksheet(s) in the workbook must respect a predefined structure. This structure is explained in the paragraphs below and is provided in the templates which can be downloaded in the Outage Planning and Scheduling sections.

Remark: The templates also contain a number conditional formatting and data validations (using available MS Excel functionality). These conditional formatting and validations aim to enhance the usability and to reduce probability of errors when filling in the templates. However, it is not the goal to impose any hard restrictions on the end user when using the templates. This means that the end user is allowed to change elements in the provided templates.

2.2.1 Unavailability Template

2.2.1.1 DP List worksheet

The 'DP List' worksheet can be used to hold a list of Delivery Point EANs and the 'friendly' name of the Delivery Point. The data from this list is used by the formulas in the template to populate the Delivery Points in the "Unavailabilities" worksheet.

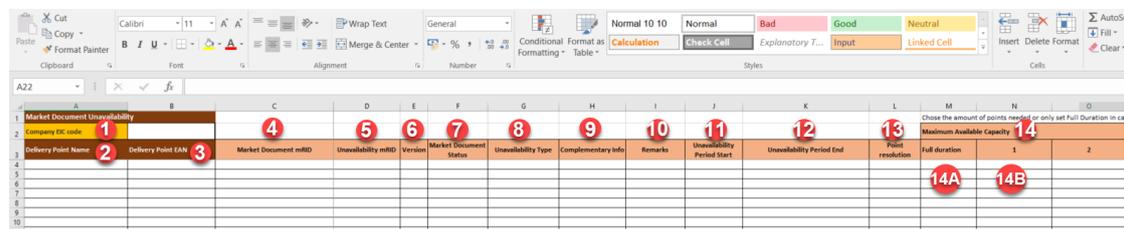
	A	B
1	Name of Delivery Point	EAN
2		
3		
4		
5		

When adding extra lines make sure that the lines are added to the table (see blue corner in the bottom right. Extra lines can be added by right clicking on a line (e.g. line 3, 4 or 5) and choosing 'Insert'. The formulas will only use data, which is entered in the table. Data, which is added just below the table, will not be visible for the formulas in the 'Unavailabilities' worksheet.

2.2.1.2 Unavailabilities worksheet

The 'Unavailabilities' worksheet is the main worksheet of this template. This worksheet is used to provide all information related to unavailability events.

The end user is expected to fill in the cells with a white background.



#	Field	Mandatory	Description
1	Company EIC code	Y	Identification number of the sender
2	Delivery Point Name	Y	Friendly delivery point name
3	Delivery Point EAN	Y	The delivery point EAN representing the point for which the unavailability is sent
4	Market Document mRID	Y	Unique identifier for the MarketDocument
5	Unavailability mRID	Y	Unique identified for the unavailability event
6	Version	Y	Version number for the MarketDocument
7	Market Document Status	Y	Using the dropdown list in the status field the end user can indicate if the Group is 'Active' or 'Withdrawn.
8	Unavailability Type	Y	Using the dropdown list to indicate the nature of the unavailability event. <ul style="list-style-type: none"> Planned Unavailability Forced Outage Testing
9	Complementary Info	Y	Complementary information (additional information on the unavailability) Allows free text
10	Remarks	N	Remarks (more detailed information on the event that allows a full understanding of its potential impact) Allows free text
11	Unavailability Period Start	Y	The start date and time of the period to which the unavailability refers to, expressed in datetime format
12	Unavailability Period End	Y	The end date and time of the period to which the unavailability refers to, expressed in datetime format
13	Point Resolution	Y	Using the dropdown list to indicate the amount of time for each interval in which a data value is defined. For example: PT1M = per minute

			PT15M = 15 minutes PT1D = 1 day When intervals are used, meaning the unavailability does not have the same available capacity for its entire duration, different resolution can be used to easily construct a timeseries of varying available capacity. Note that multiple lines can be used when constructing a timeseries of different resolutions.
14	Maximum Available Capacity	Y	Expressed available capacity is in Megawatt. Chose the amount of points needed (14B) or only set Full Duration (14A) in case the Maximum Available Capacity is the same for the entire unavailability period
14A	Full duration	Y	Field to express the maximum available capacity when it is the same for the entire unavailability period. Resolution will not be looked at.
14B	Points	Y	List of points associated to the period. The amount of points needed, given the resolution and the (part of the) unavailability period.

2.2.2 Scheduling template

2.2.2.1 DP List worksheet

The 'DP List' worksheet can be used to hold a list of Delivery Point EANs and the 'friendly' name of the Delivery Point. The data from this list is used by the formulas in the template to populate the Delivery Points in the Providing Group on the 'Schedule' worksheet.

	A	B
1	Name of Delivery Point	EAN
2		
3		
4		
5		

When adding extra lines make sure that the lines are added to the table (see blue corner in the bottom right). Extra lines can be added by right clicking on a line (e.g. line 3, 4 or 5) and choosing 'Insert'. The formulas will only use data, which is entered in the table. Data, which is added just below the table, will not be visible for the formulas in the 'Schedule' worksheet.

2.2.2.2 Schedule worksheet

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Market Document Schedule		To add a reason = Forced Outage, place 1 behind quantity (ex: 0!)														
2	Company EIC code	1															
3	Execution date	2															
4	Delivery Point Name	Delivery Point EAN	Market Document mRID	Version	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45	03:00
5	3	4	5	6	7												
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

#	Field	Mandatory	Description
1	Company EIC code	Y	Identification number of the sender
2	Execution date	Y	The execution date determines the date to which the schedule relates to
3	Delivery Point Name	Y	Friendly delivery point name
4	Delivery Point EAN	Y	The delivery point EAN representing the point for which the unavailability is sent
5	Market Document mRID	Y	Unique identifier for the MarketDocument
6	Version	Y	Version number for the MarketDocument
7	Scheduled Power	Y	The value (MW) of the scheduled per quarterly hour

3 User Interface

3.1 Generic Components

3.1.1 Description

The Optiflex web client consists of a **menu bar** on the left used to navigate between the different sections, a **section content** showing information and available actions.



3.1.2 Elements

1. Sections

The sections will structure the application according to specific contents and functionalities:

- **Home:** redirects the end user to the “neutral” interface pictured above.
- **Scheduling:** the section where the end user can consult, submit, update the schedules.
- **Outage Planning:** the section where the end user can consult the existing availability plans (imported from the Ready-to-Run procedure) and consult, submit, update or withdraw unavailability events.

2. Section Content

The main content of each section will be described in the subsequent chapters of this manual.

3. Logout

Button for the user to logout of Optiflex webclient.

3.1.3 Filters

The screenshot shows the 'Outage Planning' interface. At the top, there is a header with the 'elia' logo. Below the header, there are two input fields: 'Delivery point EAN' (labeled 1) and 'Execution date' (labeled 2) with the value '17/06/2022'. To the right of these fields is a checkbox labeled 'Display all versions' (labeled 3) which is checked. Below the input fields are three buttons: a refresh button, an upload button, and a template button. Below the buttons is a legend with colored squares corresponding to status categories: Available (green), Partial available (light green), Planned unavailable (red), Testing (yellow), Forced outage (black), and Partial forced outage (grey). Below the legend is a table with the following columns: Delivery Point EAN, Delivery Point Name, Status, Last reference version, Reason code, Start date, End date, Message creation date, and Version. The table contains two rows of data.

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Start date	End date	Message creation date	Version
>		Accepted	false		17/06/2022, 13:00	17/06/2022, 18:00	13/06/2022, 18:09	1
>		Accepted	true		17/06/2022, 13:00	17/06/2022, 18:00	13/06/2022, 18:09	2

1. Delivery Point EAN

This specific filter will allow the user to filter on specific Delivery Points.

2. Execution date

The execution date determines the date to which the availability plan relates to. Any unavailability crossing into this timeframe will be shown. For scheduling it determines to which the schedule relates to.

3. Display all versions

Checking the "Display all versions" box allows a user to see all the versions of a same message that were submitted.

By default, only the latest reference version will be shown: this is either the latest accepted version or the latest version in case it is in waiting for confirmation status. To look at previous valid version or rejected version, this checkbox has to be enabled.

3.1.4 Actions

The screenshot shows the 'Outage Planning' interface. At the top, there is a header with the 'elia' logo. Below the header, there are two input fields: 'Delivery point EAN' and 'Execution date' with the value '17/06/2022'. To the right of these fields is a checkbox labeled 'Display all versions' which is checked. Below the input fields are three buttons: a refresh button (labeled 1), an upload button (labeled 2), and a template button (labeled 3). Below the buttons is a legend with colored squares corresponding to status categories: Available (green), Partial available (light green), Planned unavailable (red), Testing (yellow), Forced outage (black), and Partial forced outage (grey). Below the legend is a table with the following columns: Delivery Point EAN, Delivery Point Name, Status, Last reference version, Reason code, Start date, End date, Message creation date, and Version. The table contains two rows of data.

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Start date	End date	Message creation date	Version
>		Accepted	false		17/06/2022, 13:00	17/06/2022, 18:00	13/06/2022, 18:09	1
>		Accepted	true		17/06/2022, 13:00	17/06/2022, 18:00	13/06/2022, 18:09	2

1. Refresh button

The refresh button should be used to load the latest data which is needed after the submission of information.

2. Upload data

As described in section 2.

3. Template

As described in section 2.

3.2 Outage Planning

3.2.1 Description

The Outage Planning screen of the Optiflex web client allows the user to consult the existing availability plans (imported from the Ready-to-Run procedure) and consult, submit, update or withdraw unavailability events for each of the delivery point included in the OPA contract.

This section provides an overview of all Delivery Points that are active in the OPA contract. Each DP will show a line with either no unavailability event, in which case the underlying availability plan comes from the RTR procedure, or an unavailability event crossing at least for one interval into the execution date with all the Market Document characteristics shown in the grid.

3.2.2 Elements

When no unavailability crosses into the selected Execution Date, only column 1 & 2 are relevant as well as the option to view the underlying availability plan (= RTR plan) using the dropdown arrow. When unavailability events do cross into the execution date, all relevant info of that unavailability event will be shown.

The screenshot shows the 'Outage planning' interface with the following elements:

- Delivery Point EAN:
- Execution date:
- Display all versions
- Legend: Available (green), Partial available (light green), Planned unavailable (red), Testing (yellow), Forced outage (black), Partial forced outage (grey)

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Start date	End date	Message creation date	Version
>			true					
>			true					
>			true					
>		Waiting for co...	true	Y37	12-9-2022 16:30	12-9-2022 23:00	12-9-2022 15:27	1
>			true					
>			true					
>			true					
>			true					
>			true					
>			true					
>			true					
>			true					
>		Waiting for co...	true	Y37	12-9-2022 16:05	13-9-2022 00:00	12-9-2022 16:43	6
>		Accepted	true		12-9-2022 16:05	13-9-2022 00:00	12-9-2022 16:44	7
>		Accepted	true		12-9-2022 15:00	12-9-2022 15:55	12-9-2022 16:46	1

1. Delivery Point EAN

'Friendly' name of the Delivery Point.

2. Delivery Point Name:

The Delivery Point EAN code.

3. Status:

Validation status of the market document that was submitted based on technical and functional validation rules.

Status is either: "Accepted", "Rejected" or "Waiting for confirmation":

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Start date	End date	Message creation date	Version
>		Accepted	true		16/06/2022, 13:00	16/06/2022, 18:00	13/06/2022, 17:27	2
>		Rejected	false	Y94	16/06/2022, 13:00	16/06/2022, 18:00	13/06/2022, 17:26	1
>		Waiting for confir...	true	Y37	16/06/2022, 13:00	16/06/2022, 18:00	13/06/2022, 17:24	1

4. Last reference version

By default, only the latest reference version will be shown: this is either the latest accepted version or if the latest version is in waiting for confirmation status. To look at previous valid version or rejected version, this checkbox has to be enabled.

5. Reason code

In case the uploaded Market Document gets "Rejected" or "Waiting for confirmation" the reason code described in the validation rules in the Technical Guide will be mentioned to provide further information.

When hovering over the reason code with the mouse cursor, the explanation of the reason code is displayed:

Rejected	false	Y38	12-9-2022 15:00	12-9-2022 16:04	12-9-2022 16:04
Rejected	false	Y38	12-9-2022 15:00	12-9-2022 16:00	12-9-2022 16:00
Accepted	true				Unavailability event periods cannot overlap across Market Documents

6. Start date

Start date and time of the unavailability event.

7. End date

End date and time of the unavailability event.

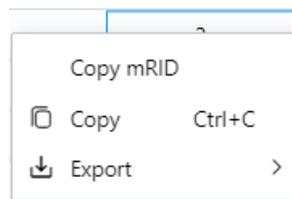
8. Message creation date

The timestamp on which the document was sent

9. Version

Version number for the MarketDocument.

By hovering over the version number, the mRID becomes visible. By right clicking, the user can copy the mRID:



A. Detailed availability plan

0 / 30

■ Available
 ■ Partial available
 ■ Planned unavailable
 ■ Testing
 ■ Forced outage
 ■ Partial forced out

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Start date	End date	Message creation date	Version
>		Waiting for co...	true	Y37	12-9-2022 16:30	12-9-2022 23:00	12-9-2022 15:27	1
>		Waiting for co...	true	Y37	12-9-2022 16:05	13-9-2022 00:00	12-9-2022 16:43	6
>		Accepted	true		12-9-2022 16:05	13-9-2022 00:00	12-9-2022 16:44	7

00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	2	2	2	2	2	2	2	2
160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	2	2	2	2	2	2	2	2
160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	2	2	2	2	2	2	2	2
160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	2	2	2	2	2	2	2	2

When using the dropdown arrow, a view on the latest valid version of the detailed availability plan is shown.

B. Legend

Color-coded legend of the detailed availability statuses.

3.3 Scheduling

3.3.1 Description

The Scheduling screen of the Optiflex web client allows the user to consult, submit or update schedules for each of the delivery point included in the SA contract.

3.3.2 Elements

This section provides an overview of the Delivery Points with an active SA contract right. When no valid schedule is sent in, the Status field turns red enabling the SA to monitor schedule submissions.

The following fields are used:

1. **Delivery Point EAN**

'Friendly' name of the Delivery Point.

2. **Delivery Point Name:**

The Delivery Point EAN code.

3. **Status:**

Validation status of the market document that was submitted based on technical and functional validation rules.

Status is either: **"Accepted"**, **"Rejected"** or **"Waiting for confirmation"**:

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Message creation date	Version
>		Accepted	true	806	14/06/2022, 15:39	1
>		Rejected	false	Y94	14/06/2022, 15:39	
>		Waiting for confirmation	true	Y87	14/06/2022, 15:57	2

4. **Last reference version**

By default, only the latest reference version will be shown: this is either the latest accepted version or if the latest version is in waiting for confirmation status. To look at previous valid version or rejected version, this checkbox has to be enabled.

5. **Reason code**

In case the uploaded document gets "Rejected" or "Waiting for confirmation" the reason code described in the validation rules will be mentioned to provide further information.

When hovering over the reason code with the mouse cursor, the explanation of the reason code is displayed:

Delivery Point EAN	Delivery Point Name	Status	Last reference version	Reason code	Message creation date	Version
>		Accepted	true	806	14/06/2022, 15:39	1
>		Rejected	false	Y94	14/06/2022, 15:39	
>		Accepted	true	MakeDocument mRID must be unique		1

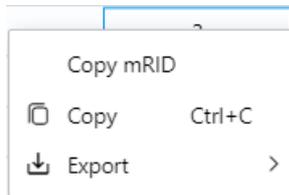
6. **Message creation date**

The timestamp on which the document was sent

7. **Version**

Version number for the MarketDocument.

By hovering over the version number, the mRID becomes visible. By right clicking, the user can copy the mRID:



8. **Schedule**

When using the dropdown arrow, a view on the latest valid version of the schedule is shown.