



# INTRODUCING EMPIRE 6.0

WEBINAR

BRITNED & SUPERCHARGE

05/03/2025



# WELCOME

## SPEAKERS & FORMAT



**NILS TEIPEL**

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**Managing Director, UK**



**BALÁZS KOVÁCS**

**Chief Solution Architect**



**Please turn off your camera & microphone**

Until the Q&A session at the end of the webinar



**Any questions?**

Please save questions until the Q&A session or enter them into the chat



# INTRODUCING EMPIRE 6.0

## TODAY'S AGENDA

1

An Overview of  
Empire 6.0

2

The Redesign of  
Buy Now 2.0

3

WebHook  
Messages

4

Personalising  
the Empire UI

5

The Dynamic  
Auction Overview

6

New Bidding  
Configurations

7

The Customer  
Testing Period

8

Q&A

# EMPIRE 6.0

## AN OVERVIEW

BritNed continues to improve Empire with new features based on customer feedback and internal improvement ideas

**EMPIRE 6.0 FOCUS:** Further improving user experience and enhancing the Buy Now allocation product

### WHAT WILL EMPIRE 6.0 DELIVER?

1. Buy Now 2.0: GUI and API redesign
2. Event triggered push notifications (via Webhooks, email, and browser notification functionality), including:
  - Auction status changes e.g. auction results published or auction cancellations
  - Unplanned outages & curtailments
  - Buy Now offers published
  - DA nomination window changes
  - ITL (NTC reduction) received or edited
  - Transfer requests
3. Auction results as XML attachment by push email
4. Redesign of the Auction Schedule page
5. Additional user customisation options to distinguish between LT, DA and ID traders / nominators
6. Bidding Configuration now also for DA and ID auctions
7. SSO Authentication

# EMPIRE

6.0



# BUY NOW 2.0

## REDESIGNING THE UNIQUE AUCTION

Next Price (€)	OC (MW)	Request capacity (MW)	Status
0.48	500	<input type="text" value="0"/>	Expired
0.48	500	<input type="text" value="0"/>	Expired
0.48	500	<input type="text" value="0"/>	Expired
0.48	500	<input type="text" value="0"/>	Expired
0.48	500	<input type="text" value=""/>	Active
0.48	450	<input type="text" value="50"/>	Active
0	0	<input type="text" value="0"/>	Deleted
0.48	500	<input type="text" value="0"/>	Active
0.48	500	<input type="text" value="0"/>	Active

### IMPROVEMENTS DELIVERED BY BUY NOW 2.0:

- ✓ New GUI to provide a better oversight of the current Buy Now offering
- ✓ Allocation of capacity for multiple MTUs at the same time
- ✓ Allocation possibility until 2 minutes prior to Intraday Nomination Gate Closure
- ✓ Browser and email push notifications to highlight newly published Buy Now offers
- ✓ Simplified API calls to query:
  - Buy Now volumes for all MTUs with one call
  - Allocate all MTUs at once without having to query a specific offer ID

# Buy Now Auction Offers

- Home
- Capacity manager
- Market
- Auction Schedule
- Buy Now Offers
- Secondary Market
- Transmission Rights
- Nominations
- Reports
- Finance
- Crisis Management
- Backup Power Purchase
- Admin
- Data Flow Overview

Direction **GB-NL** NL-GB Timescale **Intraday** Delivery Day **27/11/2022** **BACK TO DEFAULT**

## Buy Now

Copy table to clipboard

Refresh the table

MTU CE(S)T	Direction	Current Price (€)	Next Price (€)	OC (MW)	Request capacity (MW)	Status	Purchased Transmission Rights	
							Total AC (MW)	Total Cost (€)
00:00 - 01:00	GB-NL	0.52	0.48	500	0	Expired	16	0.52
01:00 - 02:00	GB-NL	0.52	0.48	500	0	Expired	23	0.52
02:00 - 03:30	GB-NL	0.52	0.48	500	0	Expired	5	0.52
03:00 - 04:00	GB-NL	0.52	0.48	500	0	Expired	19	0.52
04:00 - 05:00 Closing in 21m, 36s	GB-NL	0.52	0.48	500	<input type="text" value=""/>	Active	29	0.52
05:00 - 06:00	GB-NL	0.52	0.48	450	<input type="text" value="50"/>	Active	7	0.52
06:00 - 07:00	GB-NL	0	0	0	0	Deleted	23	0.52
07:00 - 08:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	22	0.52
08:00 - 09:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	9	0.52
09:00 - 10:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	12	0.52
10:00 - 11:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	14	0.52
11:00 - 12:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	20	0.52
12:00 - 13:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	6	0.52
13:00 - 14:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	25	0.52
14:00 - 15:00	GB-NL	0.52	0.48	500	0	Deleted	15	0.52
15:00 - 16:00	GB-NL	0.52	0.48	500	0	Not available	11	0.52
16:00 - 17:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	14	0.52
17:00 - 18:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	9	0.52
18:00 - 19:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	29	0.52
19:00 - 20:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	27	0.52
20:00 - 21:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	7	0.52
21:00 - 22:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	14	0.52
22:00 - 23:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	6	0.52
23:00 - 24:00	GB-NL	0.52	0.48	500	<input type="text" value="0"/>	Active	6	0.52
<b>Total</b>							<b>3,192</b>	<b>200,000.00</b>

- All MTU overview showing Offered Capacity for each hour
- Current / next price per MTU
- Copy all, copy up/down function
- MTU status

Overview of allocated Buy Now volume & spend

One click allocation of multiple MTUs

**BUY NOW**

Next price change: 8 seconds



# BUY NOW 2.0

## TIMELINE



11 MARCH

### INTERNAL TESTING



12 MARCH

### CUSTOMER TESTING PERIOD

- 24/7 support from the Helpdesk
- Different reoccurring scenarios to run
- Possibility to request customised test cases during office hours



20 MARCH

### TESTING PERIOD FEEDBACK WEBINAR

- Q&A for API functionality
- Chance to raise need for additional test cases
- Possibility to raise further improvement ideas / issues
- Further details about Go Live

Invites being sent after this webinar



W/C 31 MARCH

### GO LIVE

- Empire will be offline between 02:00-03:00 on the deployment day
- Therefore, nominations for ID capacity for ID nomination Gate 5 need to be made by 01:50 (and cannot be made at 02:50)

# NOTIFICATIONS

## Browser and Email Push Notifications

- Implementation of additional event subscription for each user
- Event notifications can happen via email, browser, or both

The screenshot shows the 'My Account' page in the EMPIR system. The 'Preferences' tab is active, displaying notification settings. A green banner at the top indicates 'Preferences successfully updated.' The page is for user 'John Doer Supercharge' on 27/05/2022 Friday - 06:23 CE(S)T.

Notifications	Email	SMS
<b>Critical Alert</b> Notification that is used to notify users about critical situations or events that require immediate attention. (eg.: Unplanned outage created, Unplanned outage entered)	<input type="checkbox"/>	<input type="checkbox"/>
<b>Critical</b> Notifications regarding critical situations and that require your attention (e.g. outages, curtailment impacts, system unavailability etc.).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Major</b> Notifications including periods of reduced availability and future affected auction capacity.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Normal</b> Notifications regarding general business processes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

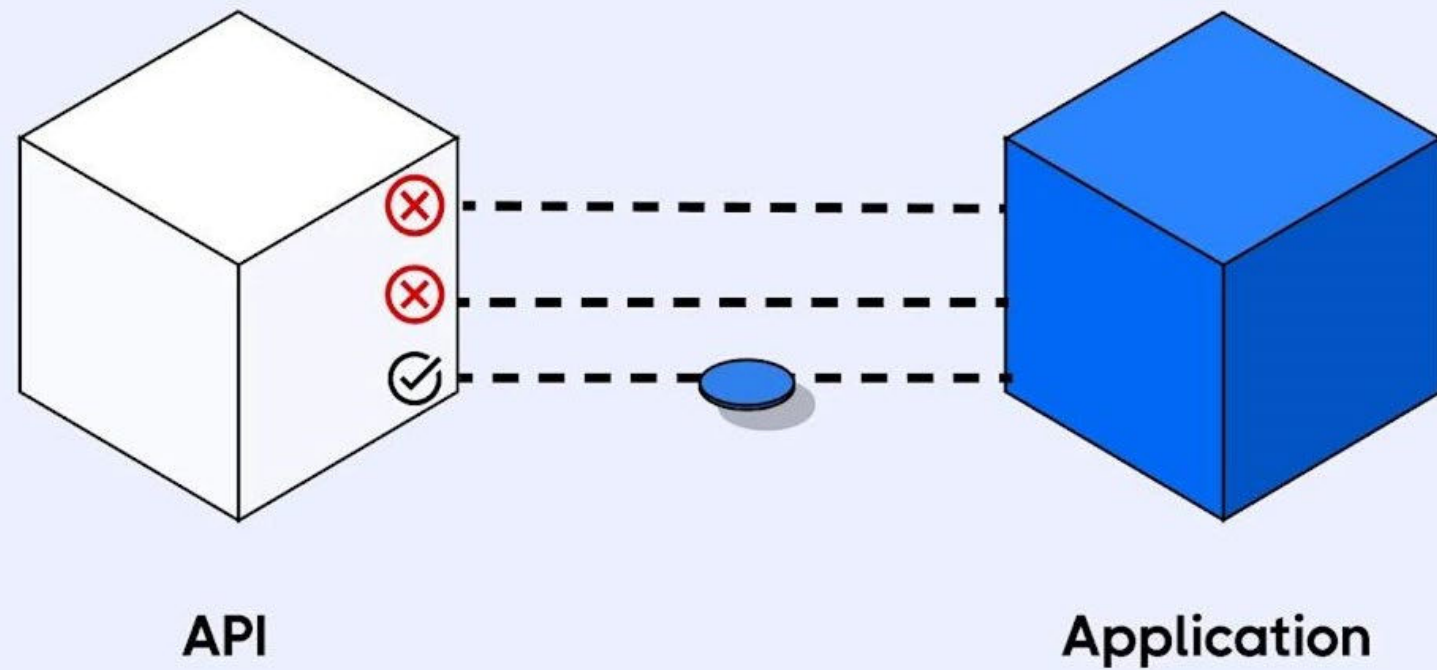
Subscribe to events	Email	Browser
<b>Long Term Auction Updates</b> Notifications including results publications, bidding open, auction results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Day Ahead Auction Updates</b> Notifications including results publications, bidding open, auction results	<input type="checkbox"/>	<input type="checkbox"/>
<b>Intraday Auction Updates</b> Notifications including results publications, bidding open, auction results	<input type="checkbox"/>	<input type="checkbox"/>
<b>Buy Now Transmission Rights Offers</b> Notifications regarding publishing new offers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Unplanned Outage Updates</b> Notifications including unplanned outage creation, cancellation, and ending	<input type="checkbox"/>	<input type="checkbox"/>
<b>Curtailment</b> Notifications regarding recent curtailment affected your commercial position	<input type="checkbox"/>	<input type="checkbox"/>



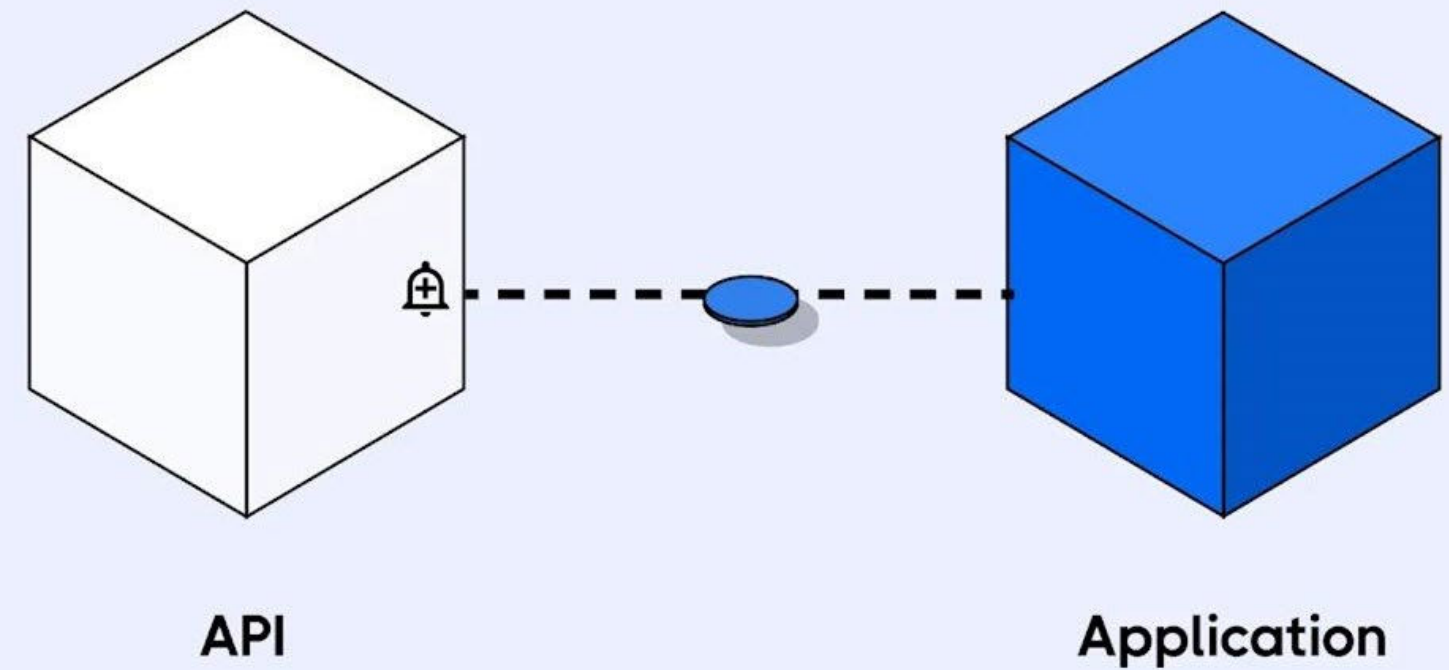
# WEBHOOKS

## OVERVIEW

### Polling



### Webhooks



# WEBHOOKS

## USE CASES

### Auction related

- LT, DA, ID auction scheduled, updated, cancelled
- LT, DA, ID auction process change updates
- Buy Now offer updates

### Nomination related

- DA nomination window schedule change

### Unplanned Outage related


- Unplanned Outage created, updated, ended (**after** *REMIT*)
- Transmission Right curtailment

### Finance related

- Invoice received, marked as paid

# WEBHOOKS


## MANAGEMENT



27/05/2022 Friday - 06:23 CE(S)T

### Enerax

?
🗨️
🔔
✉️


John Doer  
Supercharge

Overview
Users
Organisation Settings
Bidding Configuration
Default Bidding
Default Nomination
Customer Dossier
Webhooks

### Webhooks

+ ADD URL

Webhook URL	Event	Test	Details	🗑️
https://enerax.com/internal/auctions	Auction spec changed    Auction status has been changed	Test	Details	🗑️
https://enerax.com/internal/outages	Unplanned outage created    Unplanned outage cancelled    Uplanned outage ended    Event no. 4    +3 more	Test	Details	🗑️
https://enerax.com/internal/nominations	Auction spec changed	Test	Details	🗑️
https://enerax.com/internal/users	Auction spec changed	Test	Details	🗑️
https://enerax.com/internal/reports		Test	Details	🗑️
https://enerax.com/internal/outages	Unplanned outage created    Unplanned outage cancelled    Uplanned outage ended    Event no. 4    +2 more	Test	Details	🗑️
https://enerax.com/internal/nominations	Auction spec changed	Test	Details	🗑️
https://enerax.com/internal/users	Auction spec changed	Test	Details	🗑️
https://enerax.com/internal/reports		Test	Details	🗑️
https://enerax.com/internal/outages	Unplanned outage created    Unplanned outage cancelled    Uplanned outage ended    Event no. 4    +2 more	Test	Details	🗑️
https://enerax.com/internal/nominations	Auction spec changed	Test	Details	🗑️
https://enerax.com/internal/users	Auction spec changed	Test	Details	🗑️
https://enerax.com/internal/reports		Test	Details	🗑️



# WEBHOOKS

## MANAGEMENT

- Each Organisation can register up to 20 URLs / endpoints
- Ability to spread the 21 available events between their URLs / endpoints
- You can freely choose your webhook notification & implementation strategy

The screenshot shows the EMPIRE Enerax Webhooks Management interface. The top navigation bar includes 'Overview', 'Users', 'Organisation Settings', 'Bidding Configuration', 'Default Bidding', 'Default Nomination', 'Customer Dossier', and 'Webhooks'. The main content area is titled 'Add a new Webhook' and includes a text input field for the 'Webhook URL' (example: https://example.com) and a 'Trigger Event' section with a grid of 21 events. The 'Trigger Event' section is divided into three columns: Auctions, Buy now offers, and Finance. The 'Auctions' column includes events like 'Long Term auction specification updated' and 'Day Ahead auction specification updated'. The 'Buy now offers' column includes 'Buy now offer published' and 'Transfer request received for LT'. The 'Finance' column includes 'Invoice sent' and 'Invoice marked as paid'. At the bottom right, there are 'CANCEL' and 'SAVE CHANGES' buttons.

27/05/2022 Friday - 06:23 CE(S)T

**Enerax**

Home Capacity manager Auctions Transmission Rights Nominations Reports BPP Crisis Management Backup Power Purchase Admin Auction Defaults Nomination Window Override Global Business Settings Organisations Audit Logs Interfaces Data Flow Overview

27/05/2022 Friday - 06:23 CE(S)T

John Doer Supercharge

Overview Users Organisation Settings Bidding Configuration Default Bidding Default Nomination Customer Dossier **Webhooks**

### Add a new Webhook

Webhooks enable you to send notifications to web applications in response to events in a group or project. Please note that it is the participant admin's responsibility to add the proper, secure URL.

**URL**

Webhook URL  
https://example.com

**Trigger Event**

Select the event(s) to send notifications from EMPIRE.

<b>Auctions</b>	<b>Buy now offers</b>	<b>Finance</b>
<input checked="" type="checkbox"/> Long Term auction specification updated	<input checked="" type="checkbox"/> Buy now offer published	<input checked="" type="checkbox"/> Invoice sent
<input checked="" type="checkbox"/> Day Ahead auction specification updated	<b>Secondary Market</b>	<input checked="" type="checkbox"/> Invoice marked as paid
<input type="checkbox"/> Intraday auction specification updated	<input checked="" type="checkbox"/> Transfer request received for LT	<b>Outages</b>
<input type="checkbox"/> Auction status updated	<input checked="" type="checkbox"/> Transfer request received for DA	<input checked="" type="checkbox"/> Unplanned outage created
<input type="checkbox"/> Auction cancelled	<input type="checkbox"/> Transfer request received for ID	<input checked="" type="checkbox"/> Unplanned outage updated
<input type="checkbox"/> Long Term auction allocated	<b>Nomination Window Overrides</b>	<input checked="" type="checkbox"/> Unplanned outage cancelled
<input type="checkbox"/> Day Ahead auction allocated	<input checked="" type="checkbox"/> Nomination window override created	<input checked="" type="checkbox"/> Unplanned outage ended
<input type="checkbox"/> Intraday auction allocated	<input checked="" type="checkbox"/> Nomination window override updated	<b>Curtailment</b>

CANCEL SAVE CHANGES

# WEBHOOKS

## IMPLEMENTATION RESOURCES

### Resources and additional information on Webhooks:

- BritNed's GitHub Wiki
  - <https://github.com/britned/empire-platform-api/wiki/Webhooks>
- API Navigator / Webhook Payloads
  - <https://britned.github.io/empire-platform-api/?urls.primaryName=v6.0.1#/webhook>
- Zendesk / Release notes (similar to Wiki)
  - <https://britned.zendesk.com/hc/en-us/articles/28634539509905-Release-Notes>

### Technical Support:

- [support@britned.zendesk.com](mailto:support@britned.zendesk.com)

# WEBHOOKS

## TESTING

- You are able to send test messages as well to aid integration
- Clear event log is available for each registered Webhook for audit purposes
- Also useful to cross reference sent and received messages with corresponding server response and status code
- Customer testing scenarios & timings to shared in the next section (at the end of the presentation)

### Recent Events

Status	Trigger Event	Time sent	Response code	
● Successful	Auction spec changed	2024-09-22 16:47:08.128	200	<a href="#">Details</a>
● Failed	Auction spec changed	2024-09-22 16:47:08.128	500	<a href="#">Details</a>

Webhook URL  
**https://enerax.com/internal/admin/auctions**

**Request**

HEADERS

Response header data is empty

BODY

```
{
  "widget": {
    "debug": "on",
    "window": {
      "title": "Sample Konfabulator Widget",
      "name": "main_window",
      "width": 500,
      "height": 500
    },
    "image": {
      "src": "Images/Sun.png",
      "name": "sun1",
      "hOffset": 250,
      "vOffset": 250,
      "alignment": "center"
    },
    "text": {
      "data": "Click Here",
      "size": 36,
      "style": "bold",
      "name": "text1",
      "hOffset": 250,
      "vOffset": 100,
      "alignment": "center",
      "onMouseUp": "sun1.opacity = (sun1.opacity / 100) * 90;"
    }
  }
}
```

**Response**

HEADERS

Response header data is empty

BODY

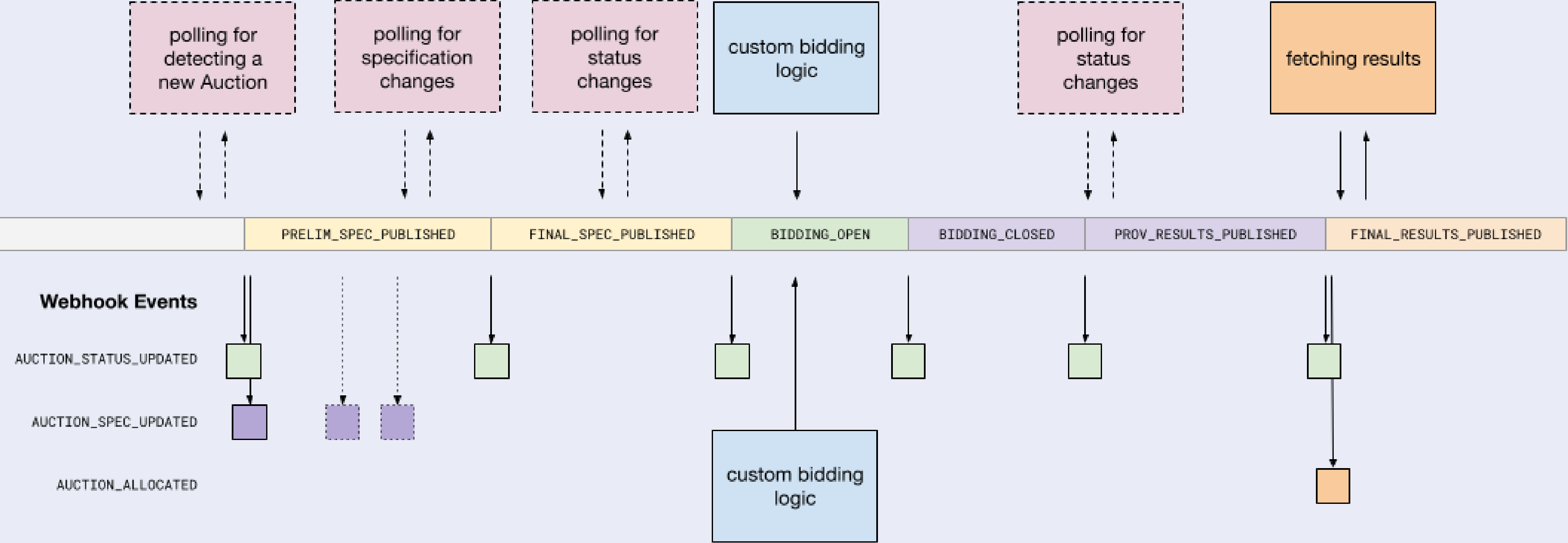
```
{
  "widget": {
    "debug": "on",
    "window": {
      "title": "Sample Konfabulator Widget",
      "name": "main_window",
      "width": 500,
      "height": 500
    },
    "image": {
      "src": "Images/Sun.png",
      "name": "sun1",
      "hOffset": 250,
      "vOffset": 250,
      "alignment": "center"
    },
    "text": {
      "data": "Click Here",
      "size": 36,
      "style": "bold",
      "name": "text1",
      "hOffset": 250,
      "vOffset": 100,
      "alignment": "center",
      "onMouseUp": "sun1.opacity = (sun1.opacity / 100) * 90;"
    }
  }
}
```

● Successful	Unplanned outage created	2024-09-22 16:47:08.128	200	<a href="#">Details</a>
● Successful	Unplanned outage ended	2024-09-22 16:47:08.128	200	<a href="#">Details</a>
● Successful	Auction spec changed	2024-09-22 16:47:08.128	200	<a href="#">Details</a>
● Successful	Unplanned outage ended	2024-09-22 16:47:08.128	200	<a href="#">Details</a>
● Successful	Auction spec changed	2024-09-22 16:47:08.128	200	<a href="#">Details</a>



# WEBHOOKS EXAMPLE

## TRACKING THE AUCTION LIFECYCLE



# WEBHOOK SECURITY

## IMPLEMENTATION DETAILS

Ensuring the **security and integrity** of Webhooks is a *shared responsibility* of **Empire ...**

- *Mandatory HTTPS URLs*
  - Empire is enforcing HTTPS URLs to be defined on PRODUCTION
  - the URLs must have a valid TLS Certificate issued by a trusted CA (no self-signed certificates)
  - 💡 to ease the testing process, HTTP URLs are allowed on TRAINING


**... and the Participants**

- *IP Whitelisting*
  - Participants need to make sure the requests are originated from Empire
  - the source IP addresses to be whitelisted are published on the [GitHub Wiki](#)
- *Signature Verification*
  - to ensure authenticity, requests are signed using HMAC-SHA256 using a "Signing Secret"
  - detailed steps for verification are also published on the [GitHub Wiki](#)

# WEBHOOK SECURITY

## LEGAL DISCLAIMER

- BritNed is following all relevant cyber security laws and goes beyond to protect Empire as one of our key systems
- It is important that you secure your systems in the right way, and this remains individuals company responsibility (*as per previous slide*)
- Legal Disclaimer when setting up new webhooks to be acknowledged via Pop Up in Empire
- Will also be included in new Access Rules version

✕

### Saving Webhook URL

BritNed takes over no liability for the security of outgoing communication via webhooks between Empire and participants systems. Every Participant must ensure that the correct IT security practices are adhered via internal security policies and enforcement mechanisms.

I have read and consent to the statement above

CANCEL

SAVE



# API KEY SECURITY

## IMPORTANT UPDATES

Due to security reasons from release 6.0 *API Key* management is also **restricted to the Empire GUI**:



- this means that *API Keys* can only be *rotated manually* on the Web GUI, and not with *API Keys* themselves
- the latest [Platform API specification](#) reflect these changes, *API Key* management endpoints have been removed

*API Keys* will continue to have a **soft expiry** (*for now*) meaning only a warning is issued when an *API Key* is considered expired:

- it is still the **Participant's responsibility** to handle *API Keys* privately as it gives an unrestricted access to Empire with the role of User who created the key
- it is therefore **highly recommended** to rotate your *API Keys* at most every 90 days

# USER INTERFACE PERSONALISATION

## TRADING SPECIALISATION (LT,DA,ID)

We have made it easier for participants who only trade/nominate in **LT, DA or ID** to configure the UI to be tailored to their needs

Based off the settings configured in the **Timescale Preferences** menu, the UI in Empire will automatically be set to that timescale for each user

### SCREENS:

- Auctions
- Buy Now
- Nomination Overview
- Transmission Rights
- Enter Nominations

If more than one timescale is selected, Empire will default to the “higher up” timescale  
(ID if it is selected, DA if it is selected, LT if it is selected)

The screenshot displays the Empire trading interface for Intraday nominations. At the top, there are three radio buttons for 'Long term', 'Day ahead', and 'Intra day', with 'Intra day' selected. Below this, the 'Delivery Date' is set to 04/03/2025 and the 'Nomination type' is 'Intraday Nomination'. The 'Current nomination window' is 10:30 - 11:50, and the 'Nomination window' is 'Open'. The 'Time until closing' is 37m 20s, and the 'Direction' is set to 'GB-NL'. A 'NOMINATE ALL TRS' button is visible in the top right.

MTU CE(S)T	Direction	Total TR (MW)	Nominations (MW)	Not Nominated TR (MW)
00:00 - 01:00	GB-NL	0	<input type="text"/>	0
01:00 - 02:00	GB-NL	0	<input type="text"/>	0

Below the nomination table, there are controls for 'Direction' (GB-NL, NL-GB), 'Timescale' (Intraday), and 'Delivery Day' (04/03/2025). A 'BACK TO DEFAULT' button is also present.

The 'Buy Now' section shows a table with columns for 'MTU CE(S)T', 'Direction', 'Current Price (€)', 'Next Price (€)', 'OC (MW)', 'Request capacity (MW)', 'Status', and 'Purchased Transmission Rights'. The 'Status' column shows 'Not available' for both time periods.

MTU CE(S)T	Direction	Current Price (€)	Next Price (€)	OC (MW)	Request capacity (MW)	Status	Total AC (MW)	Total Cost (€)
00:00 - 01:00	GB-NL	0.00	-	0	<input type="text"/>	Not available	0	0.00
01:00 - 02:00	GB-NL	0.00	-	0	<input type="text"/>	Not available	0	0.00

# DYNAMIC AUCTION OVERVIEW

## A NEW WAY TO VIEW PAST, PRESENT & FUTURE AUCTIONS

The Dynamic Auction Overview splits **Long Term**, **Day Ahead** and **Intraday** auctions, showing the most relevant auctions for that timescale.

LONG TERM		DAY AHEAD		INTRADAY		EXPORT VIEW	
						Refresh the table	
Auction ID	Bidding opens	Bidding closes	Auction Type	Delivery from	Delivery to	Border direction	Status
BDL-GB-NL-I-20250304-0800-00001	04/03/2025 05:50	04/03/2025 06:20	Intraday Explicit 2	04/03/2025 08:00	04/03/2025 12:00	GB-NL	● Final results published
BDL-NL-GB-I-20250304-1200-00001	04/03/2025 09:50	04/03/2025 10:20	Intraday Explicit 3	04/03/2025 12:00	04/03/2025 16:00	NL-GB	● Final results published
BDL-GB-NL-I-20250304-1200-00001	04/03/2025 09:50	04/03/2025 10:20	Intraday Explicit 3	04/03/2025 12:00	04/03/2025 16:00	GB-NL	● Final results published
BDL-GB-NL-I-20250304-1600-00001	04/03/2025 13:50	04/03/2025 14:20	Intraday Explicit 4	04/03/2025 16:00	05/03/2025 00:00	GB-NL	● Created
BDL-NL-GB-I-20250304-1600-00001	04/03/2025 13:50	04/03/2025 14:20	Intraday Explicit 4	04/03/2025 16:00	05/03/2025 00:00	NL-GB	● Created
BDL-NL-GB-I-20250305-0000-00001	04/03/2025 19:30	04/03/2025 20:00	Intraday Explicit 1	05/03/2025 00:00	05/03/2025 08:00	NL-GB	● Created
BDL-GB-NL-I-20250305-0000-00001	04/03/2025 19:30	04/03/2025 20:00	Intraday Explicit 1	05/03/2025 00:00	05/03/2025 08:00	GB-NL	● Created
ID buy now offer for 04/03/2025 GB-NL, Explicit ID 3 12:00 - 16:00	04/03/2025 11:08	04/03/2025 13:48		04/03/2025 13:00	04/03/2025 16:00	GB-NL	<b>BUY NOW</b>

### LONG TERM

Auctions that are occurring in the current month

### DAY AHEAD

Auctions that occurred yesterday, the current day's auction and tomorrow's auction.

### INTRADAY

Will display the same past, present and tomorrow's Intraday auctions, but also when there is **Buy Now** capacity available

# BIDDING CONFIGURATION

## SET TIGHTER BIDDING LIMITS ON DAY AHEAD AND INTRADAY TRADING

### Bid Parameters

Set Bid Parameters to protect users from mistyping excessive bids, when rushing or due to inexperience.

#### Long Term

##### GB-NL Direction

Maximum Bid Capacity (MW)

10

Warning Threshold Bid Price (€)

90,000,000,000,100,000

Max Bid Price (€)

123

##### NL-GB Direction

Maximum Bid Capacity (MW)

10

Warning Threshold Bid Price (€)

10

Max Bid Price (€)

10

#### Day Ahead

##### GB-NL Direction

Maximum Bid Capacity (MW)

12

Warning Threshold Bid Price (€)

9,000,000,000,010,000

Max Bid Price (€)

100

##### NL-GB Direction

Maximum Bid Capacity (MW)

10

Warning Threshold Bid Price (€)

7,643,786,500,000

Max Bid Price (€)

100

#### Intraday

##### GB-NL Direction

Maximum Bid Capacity (MW)

1,000,000,000

Warning Threshold Bid Price (€)

900,000,000,001

Max Bid Price (€)

500,000,000,000

##### NL-GB Direction

Maximum Bid Capacity (MW)

100,000,000,000

Warning Threshold Bid Price (€)

100,000

Max Bid Price (€)

100,000,000,000,000

We are expanding the bidding configurations to be configurable in **Day Ahead** and **Intraday**.

This means you will now be able to configure all three parameters in **each direction** per **timescale**.

- Maximum Bid Capacity (MW)
- Warning Threshold Bid Price (Euro)
- Max Bid Price (Euro)

This is configured at an organisation level.



# SSO AUTHENTICATION

## OPENING UP FOR NEW REGISTRATIONS

From 6.0 **Empire** allows Participants to **move** from *“Platform Authentication”* to *“SSO Authentication”*

This means you will be able to use your company’s Identity Provider (e.g. Azure Active Directory)

- Providers with **SAML** or **OpenID Connect (OIDC)** protocols are welcome
- Please contact [support@britned.zendesk.com](mailto:support@britned.zendesk.com)
- Our technical team will get back to you to configure integration and testing first on the TRAINING environment

### Note for existing SSO Organisations:

- A valid phone number on a User’s profile is **mandatory** on Empire (for SMS alerting purposes)
- Phone numbers were not treated as mandatory fields for some SSO Participants
- **We’ll make contact** with those Participants that has problematic configuration

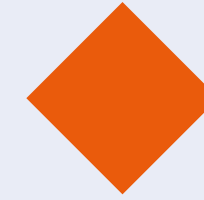
# CUSTOMER TESTING PERIOD

## TIMELINE AND EVENTS



**TESTING PERIOD STARTS**

12 March  
2025



**TESTING PERIOD ENDS**

28 March  
2025

- The new Empire 6.0 platform API specification will be made available at the start of testing.
- With the release of 6.0, Buy Now 2.0 and the Dynamic Auction Overview, there will be important changes to the API that we recommend everyone to test out before release.
- We will have both recurring and one time test events that you can take part in to test functionality, such as Webhooks and Browser notifications.

Testing will take place on our Training Environment:

<https://training.empire.britned.com/>

# CUSTOMER TESTING PERIOD

	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
One Time							Outage at 10:00. Curtailment between 12:00-16:00	Outage at 10:00. Between 12:00-16:00, timeframe edited at 13:00 & cancelled at 15:00	Feedback Webinar at 13:00					Cancelled Day Ahead auction on 25 Mar for Delivery Day 26 Mar				
	2 Long Term Multi-Day auctions during 17 March – 31 March that will test notifications about step changes											2 Long Term Weekly auctions change to preliminary specification, published on 17 March & 24 March						
Everyday	Day Ahead auctions running in Empire																	
	Intraday auctions running in Empire																	
	ID3 auction specification edited between 14:00-14:15 (create/cancel or change OC)																	
	100 MW offers to Buy Now (Day Ahead)																	
	100 MW offers to Buy Now (Intraday)																	



An aerial photograph of a power plant facility situated on a grassy bank next to a large body of water. The plant consists of several large, white, rectangular buildings and a complex network of metal structures, likely transformers and switchgear. Two prominent, glowing blue lines represent power transmission cables that run from the plant across the water's surface. In the background, a network of similar glowing blue lines connects various points on the land, suggesting a wider power grid. The water is dark blue, and the surrounding land is green with some sandy areas.

**ANY  
QUESTIONS?**