NEPTUNE MARKET PARTICIPANT USER GUIDE

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Introduction

1.1 Introduction

This document is intended for Users of the Neptune Platform and describes how to use ElecLink's Nomination System, Neptune.

This document contains an overview of the Neptune system and how to access the platform. It also details the three ways to submit Nominations via a graphical User Interface (UI), file upload and through Web Services and contains details on how to access Neptune's Nomination data through Nomination reports and data publications.

1.2 How this guide is organised

This document includes the following chapters:

1. **Introduction**: Describes what this User Guide covers.
2. **Accessing Neptune**: Provides an overview of the system, its components and what it does. It explains terms and concepts that a User needs to know when working with the Neptune system.
3. **Neptune User Interface:** Provides a general overview of how to use Neptune such as user interfaces like screens, features and navigation.
4. **Auction Rights & Nominations**: Explains how to perform Market Participant tasks including managing Users, submitting Nominations, generating Customer Reports and other market specific events.
5. **ElecLink Data Website**: Explains how to access ElecLink's public data website where commercial data will be available to view and download for 14 months.
6. **Error Reporting and Feedback:** Explains how Users can report errors, bugs, and general feedback to ElecLink.
7. **Development kit and Neptune environments:** Provides information on deploying Web Services and explains how to access Neptune environments (test or production).

1.3 Nominations Overview

Neptune is accessible only by Users registered with ElecLink. In Neptune, Rights Holders nominate their Rights acquired from the Joint Allocation Office (JAO) for physical delivery over the ElecLink Interconnector. This results in exported/ imported values in the two connecting areas (GB and FR).

Each Nomination submitted is based on the underlying Rights that were allocated, Long Term, Day Ahead or Intraday. Details on ElecLink's products and auction calendar can be found on the ElecLink website (www.ElecLink.co.uk).

The system allows the Nomination to occur in specific time intervals called Nomination Gates, in which the User can nominate their Rights.

Details of the specific Nomination Gates applicable to ElecLink are contained in the ElecLink Nomination Rules.

1.4 Reference Documents

#	Document Name	Link
	Information System Rules of the Nomination Platform	https://www.eleclink.co.uk/customers-document-library.php
	ElecLink Access Rules	https://www.eleclink.co.uk/customers-document-library.php
	ElecLink Nomination Rules	https://www.eleclink.co.uk/customers-document-library.php
	ElecLink Registration Guide	https://www.eleclink.co.uk/customers-document-library.php

1.5 Terms and Definitions

The purpose of this section is to provide guidance through the relevant abbreviations and outline a basic description.

Term	Description
ACK	Acknowledgement Document as specified by ENTSO-E.
API	Application Programming Interface – for computer-to-computer interaction with the Neptune platform and data website
ElecLink Nomination Rules	The rules setting out the principles of capacity Nomination, and timings of Nomination Gates, as published by ElecLink.
ElecLink Access Rules	Rules which set out the terms and conditions for access to, and including use of, the ElecLink interconnector.
Digital Certificate	Digital certificate that is used by client systems to make authenticated requests to Neptune server.
ENTSO-E	European Network of Transmission System Operators for Electricity.
JAO	Joint Allocation Office.
Market Participant	An economic agent in the wholesale electricity market who buys and sells capacity over the ElecLink interconnector via JAO.
Neptune	ElecLink's Nomination Platform. Users can Nominate Rights on the ElecLink interconnector.
Nomination Customer Report	Report detailing what the User nominated
Nomination Gate	As defined in the ElecLink Access Rules. It means the relevant time period in which a Rights Holder is able to Nominate its explicit long-term, day ahead and intraday Rights, timings of which are defined within the Nomination Rules.
Nominee	Market Participant exercising the acquired Rights.

Term	Description
NTC	Net Transfer Capacity is the maximum capacity for exchange of power between two areas, compatible with security standards applicable in both areas and taking into account the technical uncertainties on future network conditions.
Rights	Has the same definition as 'PTR', as defined in the ElecLink Access Rules. It means a physical transmission right which is a right entitling the Rights Holder to physically transfer a certain volume of electricity in a certain period time on the Interconnector in a specific direction.
Rights Holder	Has the same definition as 'PTR Holder', as defined in the ElecLink Access Rules. It means a Market Participant who has been allocated explicit long-term , daily, and/or intraday Rights under the ElecLink Access Rules.
Participant Superuser	A User that has the permissions in Neptune to view, access and modify other User accounts for a given Market Participant.
UI	User Interface on the Neptune website
User	A User, for the purposes of this User Guide, is a physical person or an automated system interacting with Neptune.
Web Service(s)	Functionality in Neptune provided to allow automated exchange of data between a Market Participant's system and Neptune.

2 Accessing Neptune

The Neptune platform is available via the URL: https://neptune.eleclink.co.uk/

To gain access to the Neptune system the Market Participant must register with ElecLink, conforming to all relevant requirements. See http://www.eleclink.co.uk/customers.php for more info.

2.1 Request to set up a User

Following a successful completion of the Registration process, the Market Participant will be provided with the requested User accounts (requested during Registration, or via ElecLink afterwards). The Market Participant can create/update/remove Users as required using a Participant Superuser account.

2.2 User types and permissions

In Neptune, there are 3 roles available for Users with different permissions:

Role	View	Update	User Management
Participant Read-only User	✓		
Participant User	✓	✓	
Participant Superuser	✓	✓	✓

Table 1: Neptune User roles and permissions

- **Common access rights for all User roles:**
  - Any User in Neptune can access the main window (dashboard), the 'Default Nominations' configuration, UI screen and the 'Rights & Nomination' UI screen.
  - They can change/reset their password or change their User specific settings.

- **Participant Read-only User:**
  - This type of User has the common rights above. This type of user can access the platform and information in read-only mode. They cannot edit/modify Nominations (including Default Nominations) through the UI or import a Nomination file via file upload or Web Services.

- **Participant User:**
  - This type of User has the common rights above. This type of User can also nominate in the 'Rights & Nomination' screen, via the File Management (uploading a Nomination file) or via Web Services. This type of User can also create/edit/modify Default Nominations as required.

- **Participant Superuser**:
  - This type of User has the Participant User rights above. A Participant Superuser also has access to the 'User Account' widget where they can create/update/delete User accounts that exist for their Market Participant.

When registering all Users must have a valid Digital Certificate in order to successfully log into their accounts. Please see 2.6 for more details.

Users for Web Services needs to be assigned the appropriate role, Participant User to both submit and query Nominations or Participant Read-only User just to query Nomination information.

2.3 Neptune Data Exchange

Users can interact with Neptune by providing inputs or receiving outputs in the following manner.

2.3.1 Data inputs to Neptune

Users can submit Nominations to Neptune in 3 different ways:

- Via Web Service(s)
- Via UI, using the File Management widget for file upload
- Via UI entry:
  - the dedicated Rights & Nomination screen; and
  - the Default Nominations functionality.

2.3.2 Data outputs from Neptune

Following a Nomination submission, Users can receive an ACK. Users can access an ACK in 2 different ways:

- Via Web Services (if the Nomination was submitted via Web Services);
- Via UI, using the File Management widget (if the Nomination was uploaded via the File Management widget).

Nomination reports will be available upon request. While the Nomination gate is open the report will contain the last known nominations submitted by the user.

The final nominations report will become available only after the Nomination gate has closed.

Users can access a final Nomination Report in 2 different ways:

- Via Web Services;
- Via UI, using the File Management widget for file download.

User can also see their nominations on screen.

Please note the status for the Nomination Report will only appear as “Sent” rather than “Accepted”.

2.4 Supported Browsers

Neptune is supported by the most recent versions of the following browsers:

- Mozilla Firefox: Preferred version 79.0 (64-bit) or above
- Google Chrome: Preferred version 84.0.4147.105 (Official Build) (64-bit) or above
- Apple Safari: Preferred version: 13.0 (604.1) or above.
- Microsoft Internet Explorer 11: Preferred version: 11.775.17763.0 or above
- Microsoft Edge: Preferred version: 44.17763.771.0 or above.

- Microsoft Edge HTML: Preferred version: 18.17763 or above

NOTE: For the best User experience, we recommend using Neptune with the most up to date version of your browser.

2.4.1 Supported Resolutions

Neptune works best with standard resolutions:

- Windows: Resolution: 1920 x 1080 / Text size and others 100%
- Browser zoom: 100 %

The windows can be adjusted but for the best experience, the default settings are recommended.

2.5 Time and Date format

Neptune uses the date and time format of DD/MM/YYYY HH:MM:SS.

Within Neptune's filtering capability, if you wish to set a date and no time, the time of 00:00:00.000 should be used and will be automatically populated.

For example, to set 8th August 2020, use 08/08/2020 00:00:00.000. Neptune provides the following time zone options:

- Central European Time (CET) / Central European Summer Time (CEST) (Default)
- Greenwich Mean Time (GMT) / British Summer Time (BST)

See section 3.2.4.1 on how to configure User preferred Time Zones.

2.6 Two-factor authentication

Accessing the Neptune system requires two-factor authentication consisting of:

- Username / Password; and
- A Digital Certificate.

For UI access, a Digital Certificate must be installed in the individual User's web browser prior to connection, and the User's Username / Password must be supplied through the login screen.

For Web Service access, a Digital Certificate must be used by the Web Service client and the User's username and password are supplied through an HTTP Basic Authentication mechanism.

2.6.1 Supported Digital Certificates

Neptune Users should source a Digital Certificate from a certificate authority of their choice.

A list of certificate authorities approved for Neptune can be found here:

- https://ccadb-public.secure.force.com/mozilla/IncludedCACertificateReport

Please refer to 2.6.2– Two-factor authentication for Digital Certificate requirements and specifications.

If your certificate authority is not on the list, please contact Team.Eleclink@Eleclink.co.uk

NOTE: Users can use the same Digital Certificate they use for other platforms e.g., the Joint Allocation Office's eCAT Platform.

2.6.2 Digital Certificate specification

When requesting a Digital Certificate from a provider, Users should ensure and request one with the following characteristics:

Certificate information	Constraints/comments
Subject DN	Subject DN must be unique
Issuer DN	Following attribute of the issuer are required: CN, O, C
Signature Algorithm	SHA256RSA preferably, SHA1RSA otherwise
Signature Hash Algorithm	SHA256RSA preferably, SHA1RSA otherwise
Public Key	Must be RSA 2048 bits key
Key Usage	Must at least include "Digital Signature"
Basic Constraints	Path Length Constraints should be set to None
Enhanced Key Usage	Must at least include "Client Authentication"

If these requirements cannot be met by your issuing certificate authority or for other support, please contact ElecLink by sending an email to Team.ElecLink@ElecLink.co.uk.

NOTE: Neptune does not translate characters that are not present in the Latin 1 charset. It is preferable for the Subject DN to not contain any of the following characters: À, Á, Â, Ä, Å, Ø, Ö, or any character with accents, such as the umlaut (ü).

When accessing Neptune in a new browser session, the web browser will ask for a Digital Certificate. The User must install their certificate according to the guidance provided by the web browser.

2.6.3 Retrieving Digital Certificate details for Neptune User access

When creating a User account, please register the Subject DN of the Digital Certificate in Neptune.

In order to extract the Digital Certificate's Subject DN information in a format suitable for Neptune, please follow the steps below;

- Import the certificate as a trusted certificate authority on the relevant device;
- Install the certificate in the browser;
- Using the browser, connect to the following URL;
  - https://neptune.eleclink.co.uk/certcheck/

This page will display the Subject DN in the format Neptune requires. Please copy and paste it into the User account "SSL Client Certificate Subject DN" field in Neptune when creating a new or include it in the ElecLink User Form.

- The Subject DN will be in the following format (but may differ slightly):
  - Email address (emailAddress); Common Name (CN); Organisation (O); Locality (L); Country Name (C).

See section 3.4.2 – Creating a new User for more details on how to add the Subject DN to a new User account.

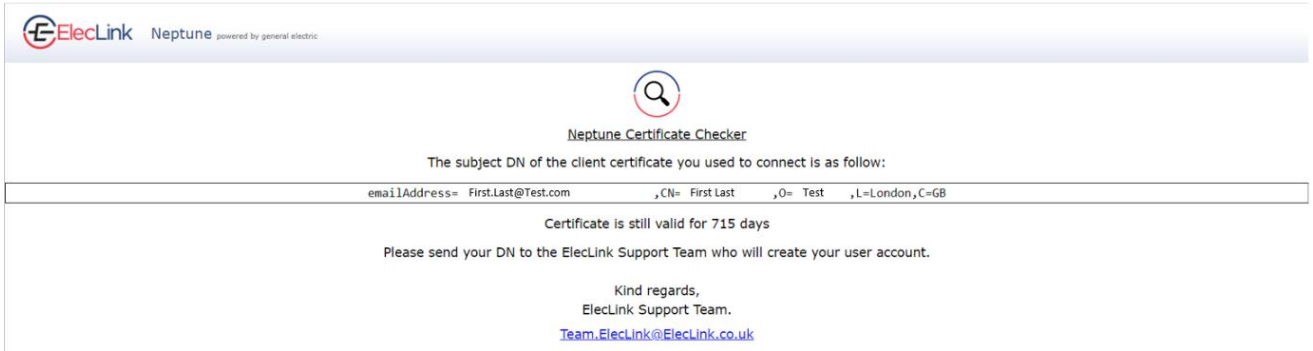


Figure 1: Displaying Neptune Subject DN in browser

Please Note: Sometimes the Subject DN may contain special characters which are preceded by a \. For example:

emailAddress=john.smith@eleclink.co.uk,CN=John Smith,O=ElecLink,L=London, STREET=Level 4\, 4KINGDOM STREET, C=GB

The \ should be removed when entering the User information in Neptune.

In case the Certificate includes special characters please contact Team ElecLink and/or the customer helpline.

2.6.4 Certificate expiration

Managing expiration of a User's Digital Certificate is the responsibility of the User themselves. If a User tries to connect to Neptune using an expired certificate, the connection will fail, showing a TLS error.

Neptune Users will be notified at login through the notification widget if their certificate will expire in the next 10 days. An email will also be sent along with the on-screen notification to the email address associated with the User. For more information about notifications please see section 3.2.5.

If the User's certificate has expired, please:

- install a new certificate in the browser; and
- obtain the new Subject DN for the certificate, following the instructions in section 2.6.3.

Upon connecting to Neptune, if the User has multiple certificates installed in the browser, the User will be prompted to select a Digital Certificate:

- Select the Digital Certificate to use.

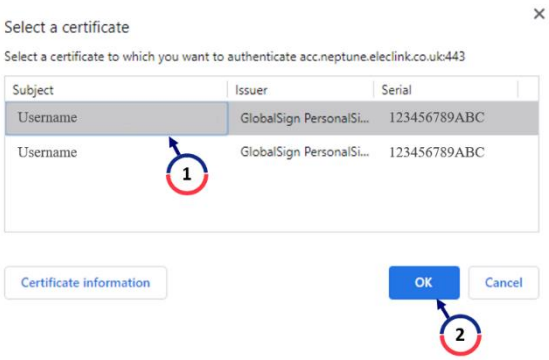


Figure 2: Example of selecting a digital certificate in Chrome

- Enter username and password.

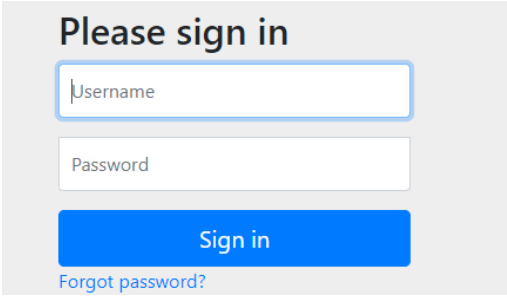


Figure 3: Neptune Login page

- The following "Dashboard" screen is shown after a successful login.

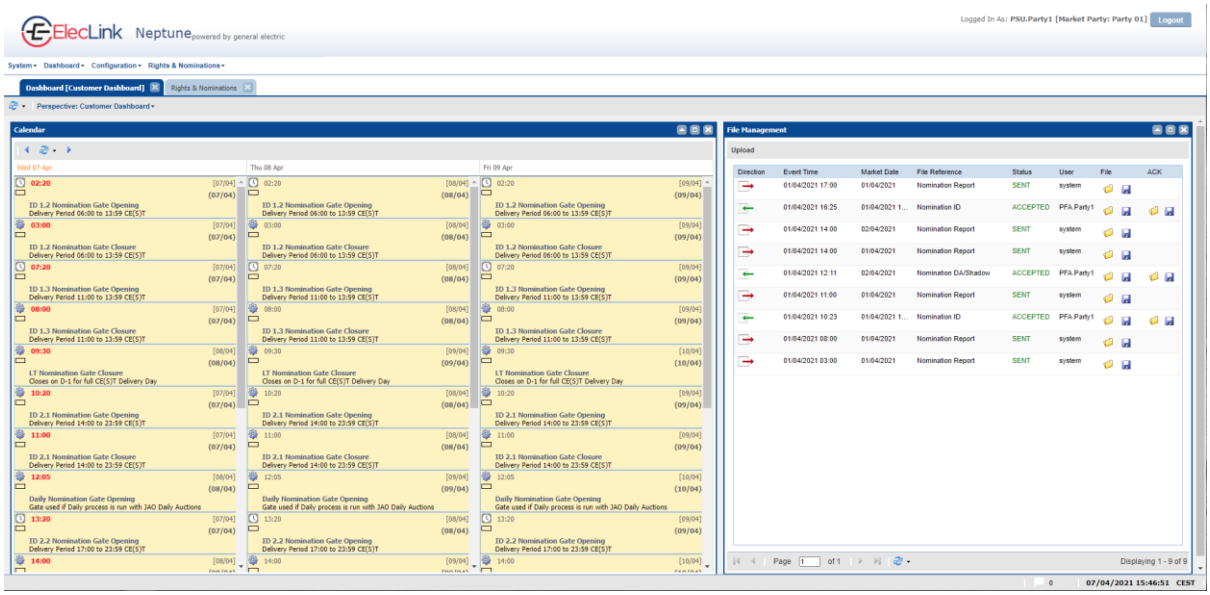


Figure 4: Neptune Dashboard screen

2.6.5 Setting a Password

If you are a Participant Superuser looking to reset an existing User's password, or to create a password for a new User account, please follow the steps below:

- Click **Dashboard**.
- **Go to Notifications and User Management**.

Double click on the User and then click **Reset Password.** As a User, you can also reset your own password at the login screen by clicking the **Forgot password** button:

- You will receive an email from team.eleclink@eleclink.co.uk to reset the password. Please click the link in the email.
- you will then receive a second email containing a temporary password from ElecLink to be used on the Neptune login screen. The temporary password is valid for 1 hour after receipt.

- Enter your Username and the temporary password and then click the **Sign in** button.
- You will be asked to change your password. You will not be able to access the application before changing your password

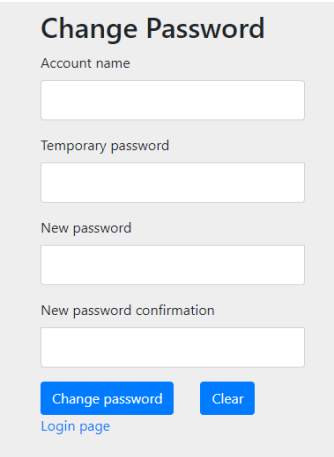


Figure 5: Change password view.

- Enter the requested information as above (including the temporary password provided in the email) and click on the **Change password** button.
  - Please refer to 2.6.6 Password Policy for password policy.
- Once changed, you will be brought back to the login screen. Please enter the username and updated password to access Neptune.

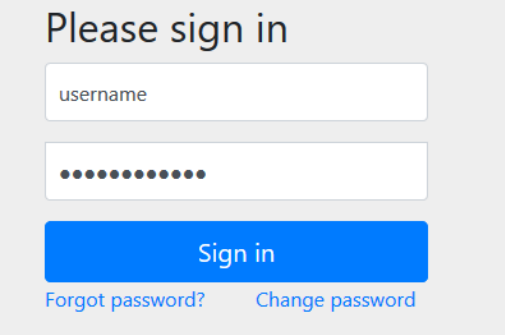


Figure 6: Neptune Login Screen.

2.6.6 Password Policy

When setting a new password, your chosen password must meet the following criteria:

Minimum Length	8 characters
Complexity	must have characters from **three** of the following categories: • Uppercase letters of European languages (A through Z, with diacritic marks, Greek and Cyrillic characters); • Lowercase letters of European languages (a through z, sharp s, with diacritic marks, Greek and Cyrillic characters); • Base 10 digits (0 through 9); • Non-alphanumeric characters (special characters): (~!@#$%^&*_-+=`|(){}[]:;"'<>,.?/).

	○ Currency symbols such as the Euro or British Pound are not counted as special characters for this policy setting. ○ Any Unicode character that is categorised as an alphabetic character but is not uppercase or lowercase. This includes Unicode characters from Asian languages. Neptune will also enforce that account name or parts of account names are not used in the password
Maximum Age	90 days
Password history	12
Locking after	4 unsuccessful attempts
Lockout duration	The access remains locked out until one of the following occurs: - Participant Superuser or ElecLink Operator resets the password; - User goes through the "Forgot Password" procedure to reset their own password; or - ElecLink Operator unlocks the account (without changing the password).

2.6.7 Password Expiry

Passwords expire every 90 days. The User will be notified in the Notifications widget 10 days before the password expires. See section 3.2.5 Notifications for more information about Neptune notifications.

After the User's password has expired. The User will be prompted with the following message when logging in:. The User will then have to reset the password following the instructions in section 2.6.8

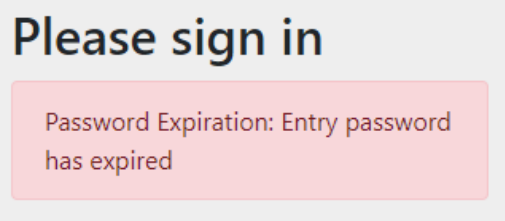


Figure 7: Password expiry alert upon Neptune login.

You will then have to reset the password following the instructions in the next section.

2.6.8 Reset Password from Login Screen

If you forget or need to change your password, you can request a reset of your password in the Login screen, as follows.

- In the login screen, click **Forgot password**:

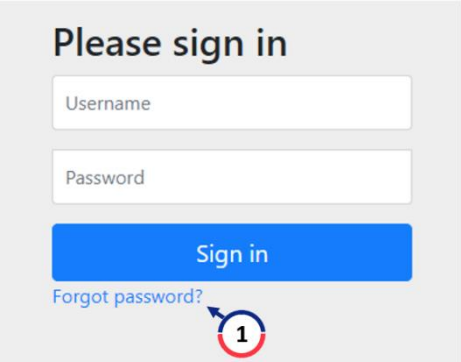


Figure 8: Accessing reset password from login screen in Neptune.

- Enter Username:

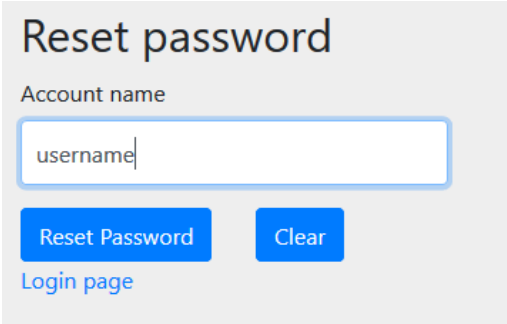


Figure 9: Entering username to reset password.

- Click **Reset Password.**
  - If entered Account name is incorrect, click **Clear** to empty the input field.

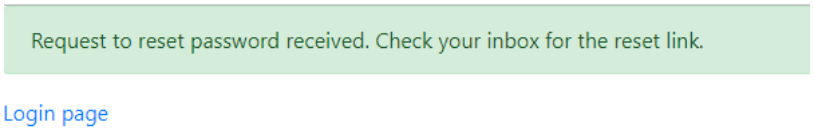


Figure 10: Reset password received.

- Follow the instructions in 2.6.5 for creating a new password for the User account.

2.6.9 Logging out of Neptune

In the main window, the User currently logged in is displayed in the top right corner, including the User's affiliated Market Participant (company name) in square brackets. The **Logout** button can also be found here.

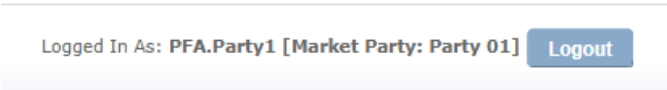


Figure 11: User details and Logout button

- If the User does not logout but closes the browser, the session will automatically be ended by the server, and the User must log in again to access Neptune.
- If the User is inactive for 6 minutes, a logout warning message will appear.

- Click **OK** to confirm that the login session is still in use, and the inactive timer will be reset.

➢ If the User is inactive in the application for a period of more than 10 minutes, the session will be ended by the server, and the User will be logged out.

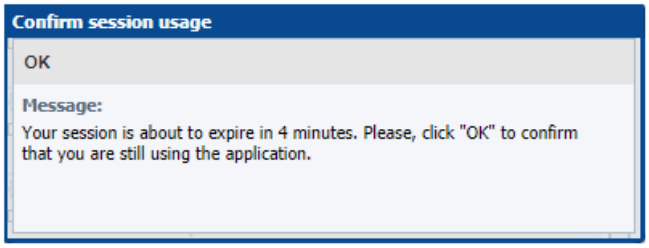


Figure 12: Neptune logout warning message

3 Neptune User Interface

After a successful login, the User will be taken to Neptune's main screen. From the main screen the User has access to:

1. Current date and system time.
2. Current User logged in.
3. Neptune drop-down menus for access to screens and widgets.
4. Different tabs at top display open screens to the User. **Dashboard [Customer Dashboard]** is selected by default).

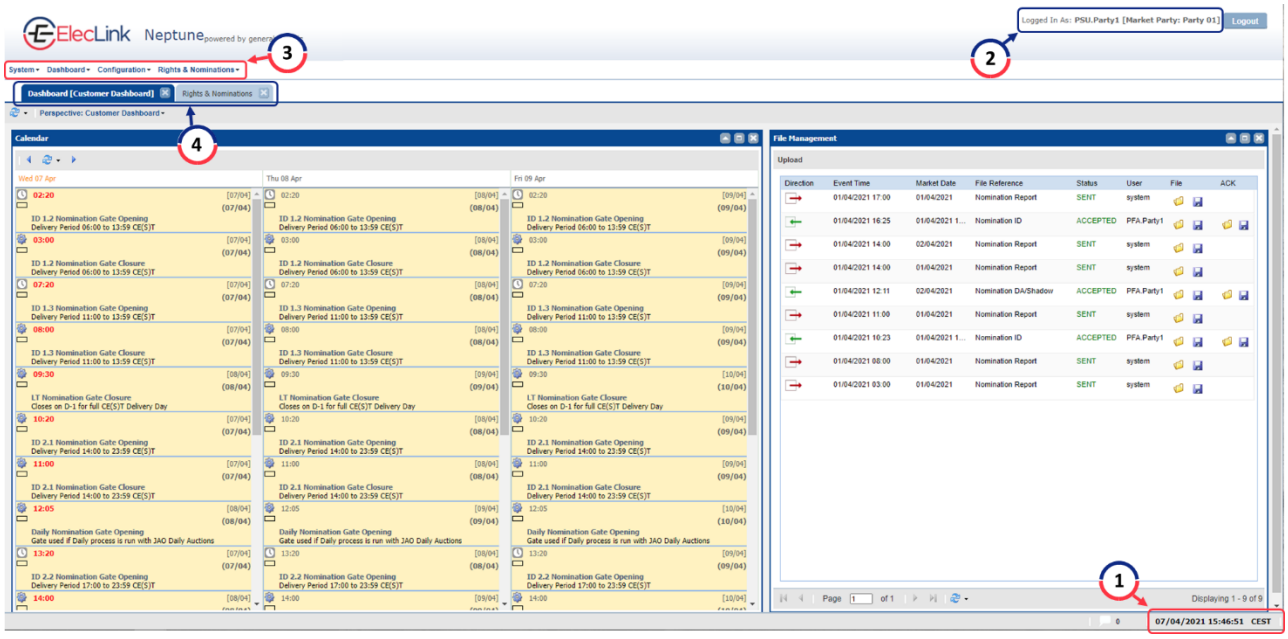


Figure 13: Neptune main screen and features

3.1 Neptune Screens and Widgets Interfaces

The information in Neptune is displayed in screens and widgets, where a screen is comprised of multiple widgets. A User has access to the following in Neptune:

- Login screen.
- Time zone and system time.
- User Settings:
  - Edit User Profile.
  - Change Password.
- Dashboard screens:
  - Customer Dashboard.
  - User Management (Superuser only).
- Rights & Nominations screen.
- Configuration:
  - Default Nominations screen.

3.2 Interface Controls

The standard controls for navigating screens and widgets in Neptune are:

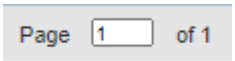
Control	Description	Action
	Hide panel	Hide the section or widget, so that only the top bar is visible.
	Show panel	Unhide the section or widget, so that the full section is visible
	Maximise widget	Maximise the section or widget to the full application screen.
	Minimise widget	Minimises the widget to the Neptune task bar.
	Close widget	Removes the widget from the Dashboard Screen. If widget is removed, the tab should be closed and a new one opened through the dashboard dropdown.
	Restore to default size	Restore section to default size.
	Refresh	Refresh screen or widget.
	Refresh with auto refresh capability	Refresh screen or widget with the ability to enable auto refresh.
	**Widget Pagination bar**	Pagination navigation bar. A User can navigate through pages of entries if the number of items displayed in the widget exceeds 50 rows.
	Next page	Pagination option, next page.
	Previous page	Pagination option, previous page.
	Last page	Pagination option, last page.
	First page	Pagination option, first page.

Table 2: User Interface controls for Neptune.

3.2.1 Neptune Task Bar

Using the Neptune interface controls, to minimise a widget, click the **Minimise Widget** button, this causes the widget to be minimised to the Neptune task bar and only the widget's title is displayed.

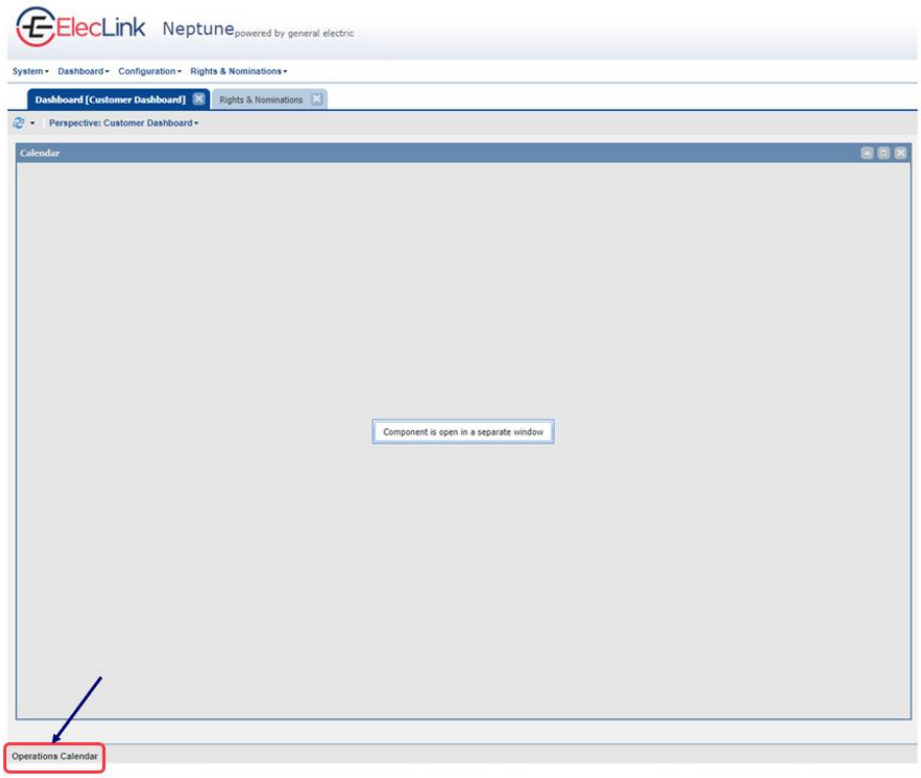


Figure 14: Calendar widget in Neptune status bar.

To restore the widget back to maximised size, click on the widget's name in the Neptune status bar.

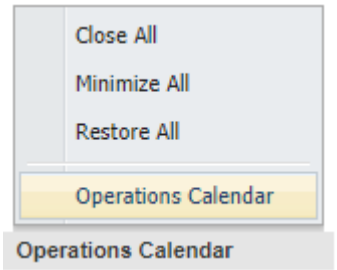


Figure 15: Restoring a minimised widget from Neptune Task Bar.

After restoring the widget, the widget will go back to its maximised state. To put the widget back in its default location, click the **Restore to default size** button.

Click **Close All** to close the minimised widget. To access the widget again, open a new session of the screen from the drop-down menu.

3.2.2 Refreshing and auto refreshing

All screens and widgets can be refreshed by clicking on the **Refresh** symbol. Neptune also offers an auto refresh option for the Dashboard screen by clicking on the **Arrow** button next to the refresh button and clicking on **Enable Auto Refresh**:

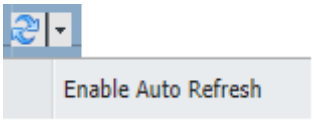


Figure 16: Enabling auto refresh.

This will prompt the User to set the refresh rate. The minimum refresh rate is 5 seconds.

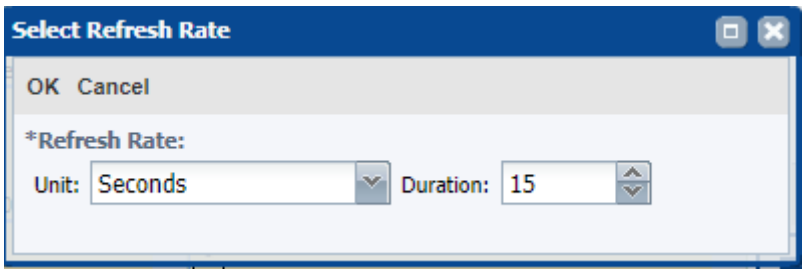


Figure 17: Setting automatic refresh rate.

3.2.3 Column Filtering

Neptune allows Users to apply a standard set of filters to columns:

- Sort Ascending
- Sort Descending

The submenu allows columns to be added and removed in the widget.

Click on the **Down arrow** beside any column name and the standard set of filtering options becomes available.

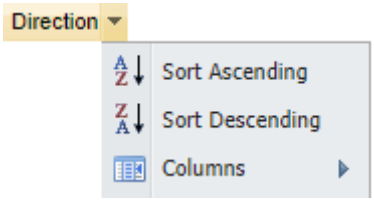


Table 3: Column filtering options.

To select or unselect a column, tick or untick the boxes in the submenu.

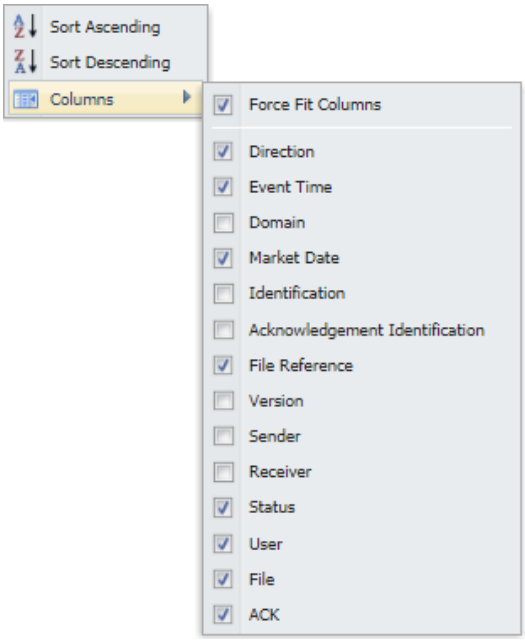


Figure 18: Selecting and unselecting columns.

3.2.3.1 Sort Ascending/Descending:

To sort a column alphabetically or in the opposite direction, click on the column itself or select **Sort Ascending**/**Sort Descending** from a column's menu. The column is then sorted Ascending/Descending indicated by an up/down arrow next to the column name.

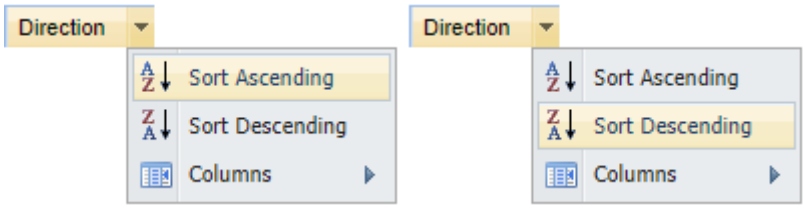


Figure 19: Selecting Sort Ascending or Sort Descending

Figure 20: Column indicating direction

3.2.4 User Preferences

Follow the instructions below to change an individual User account's display settings and system preferences.

3.2.4.1 Time zone and system time

The User can change the system time between CE(S)T time and GMT/BST time. CE(S)T is set by default. The System time is displayed on the bottom right corner of the application, to change the time zone click on the time zone displayed:

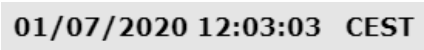


Figure 21: Neptune system time display

1. After clicking on the **User time zone** in the application, a second window is displayed showing the current client time zone.
2. Click the **dotted** button in the pop-up and another pop-up, Time Zone, appears.

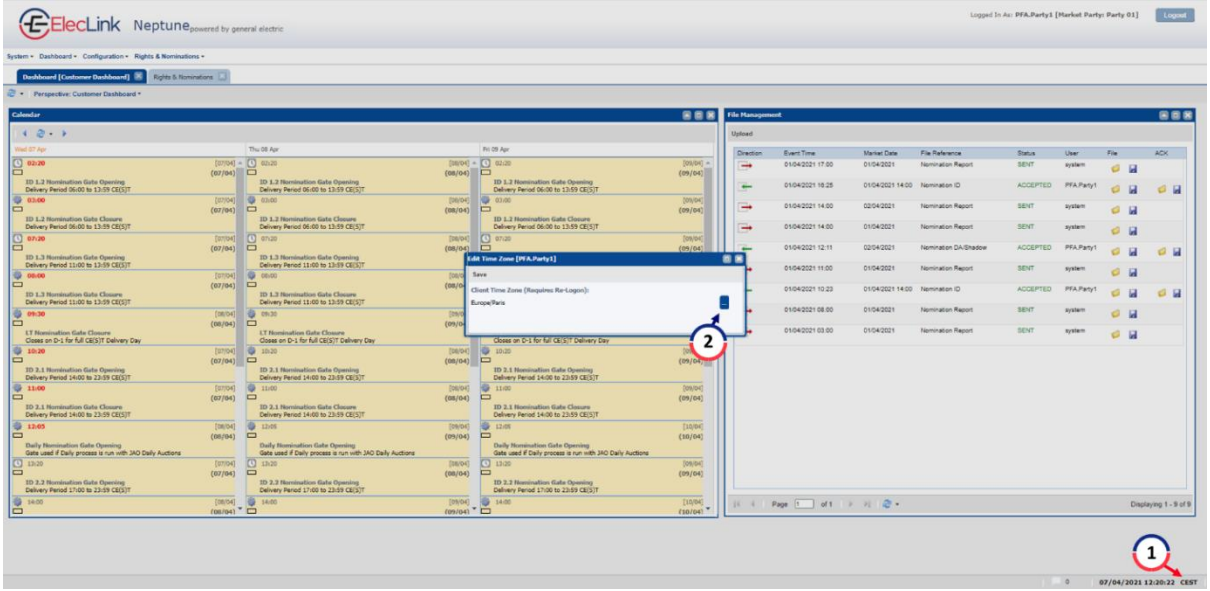


Figure 22: Neptune Edit Time Zone pop-up

1. Select a time zone, which will appear with a yellow background when selected. Confirm the change by clicking **OK**.
2. You must click the **Save** button and log out of the application and back in again for the change to take effect.

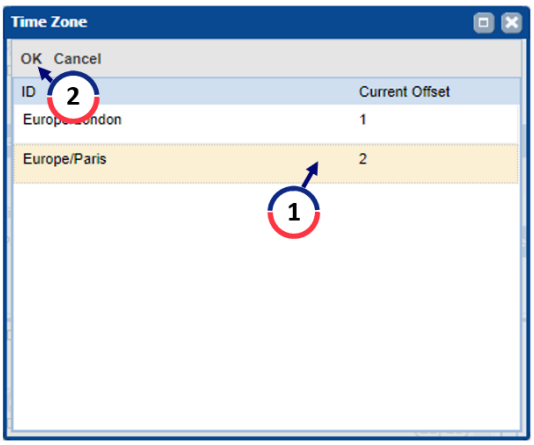


Figure 23: Time Zones

3.2.4.2 System User Settings

In Neptune, the User Settings menu is available by clicking on the **System** drop-down menu and selecting **User Settings**.

Figure 24: User Settings menu.

3.2.4.2.1 Edit User Profile

To edit a User Profile, click **System**, **User Settings** and **Edit User Profile**. A new pop-window appears where the User can submit the following information for the logged in User Account:

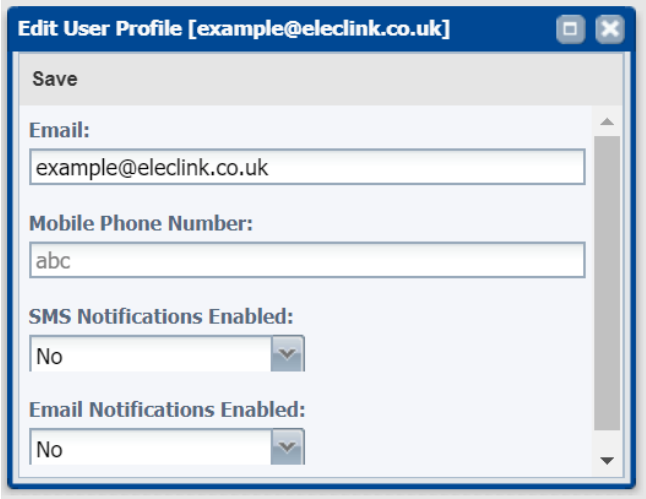


Figure 25: Edit User Profile.

- **Email**:
  - Associated email address with the User Account.
- **Mobile Phone Number**:
  - Associated phone number with the User Account.
- **SMS Notifications Enabled**:
  - If SMS notification are enabled for the account.
- **Email Notification Enabled**:
  - If email notifications are enabled for the account.

When the desired changes are made, click **Save** to confirm the changes. For more information about notifications in Neptune see part 3.2.5.

3.2.4.2.2 Change Password

To change a password while logged into Neptune, click **System**, **User Settings** and **Change Password**.

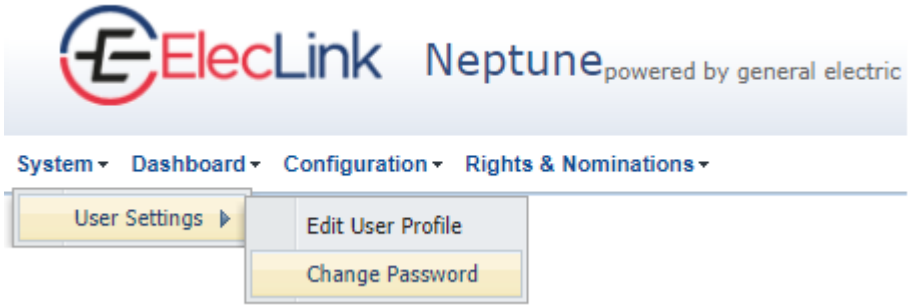


Figure 26: Accessing the Changing password menu.

- Enter the old password and the new password.
- Click on **Save**.

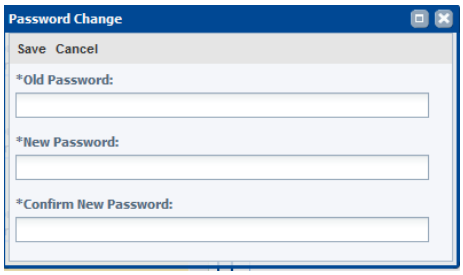


Figure 27: Change of password, enter old and new password

Once changed, the new password is valid and can be used from the next time you log in.

3.2.5 Notifications

Neptune provides the following User notifications :

#	Notification Reason	Recipient	Description
1	Validation Failure.	All Users of the relevant Market Participant.	When a Nomination file submitted by the Market Participant fails validation.
2	Default Nomination generated.	All Users of the relevant Market Participant.	When a Nomination is generated at gate opening according to the Default Nomination configuration.
3	Long Term Nominations Curtailed.	All Users of the relevant Market Participant.	When a Market Participant's Long-Term Rights are curtailed during the Long-Term Nomination Window due to new Rights being issued by JAO (See Section 4.9.2.1) or are curtailed after the Long-Term.

			Nomination Gate Closure due to changes in ElecLink's NTC
5	Day Ahead/Shadow/ID Nomination Reduced.	All Users of the relevant Market Participant.	When the Nominations submitted have been reduced due to an auction cancellation.
6	Long Term Gate Cancelled.	All Users.	When the Long-Term Nomination Gate is Cancelled (See Section 4.9.1).
7	User Account Locked.	Specific User.	When a User's account is locked due to too many failed login attempts.
8	User Password Expiring.	Specific User.	When a User's password is about to expire. Passwords expire by default every 90 days and the User is notified 10 days before expiry.
9	User Certificate Expiring.	Specific User.	When a User's Certificate is about to expire. Users will be notified 10 days before expiry.

Table 4: List of notifications

- Notifications 1-6:
  - Received by all Users of a Market Participant. Any User can acknowledge one of these notifications on behalf of the Market Participant in Neptune. Once acknowledged the notification disappears from the Notification widget for all Users in the Market Participant's organisation.
- Notifications 7-9:
  - User-specific notifications that are only visible to the individual User.

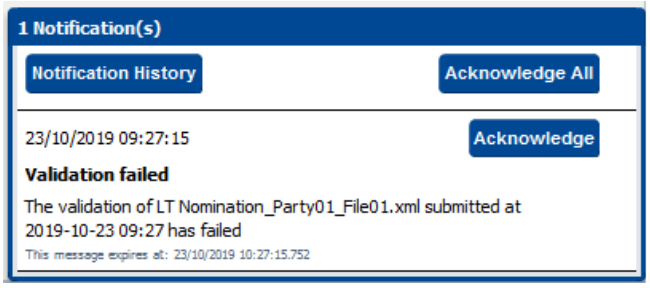


Figure 28: Example of a Notification (Nomination file failing Validation)

In addition to on-screen notifications in the system, Neptune can send notifications to Users via SMS or Email. To receive these the User must provide a valid Phone Number and/or Email address respectively in the User Profile. See section 3.2.4.2.

To acknowledge a notification, click the **Acknowledge** button or click the **Acknowledge All** button to acknowledge all displayed notifications.

Note: If a User clicks on **Acknowledge** or **Acknowledge All**, the notification will be suppressed for all Users in the Market Participant's organisation. The Market Participant will then have to go to notification history to find the notification.

3.2.5.1 Notification History

To access the Notification History, click the **Notification History** button which is located beside the date and time display at the bottom-right of every screen. All notifications generated for the Market Participant can be found here for 365 days.

Figure 29: Accessing 'Notification History'.

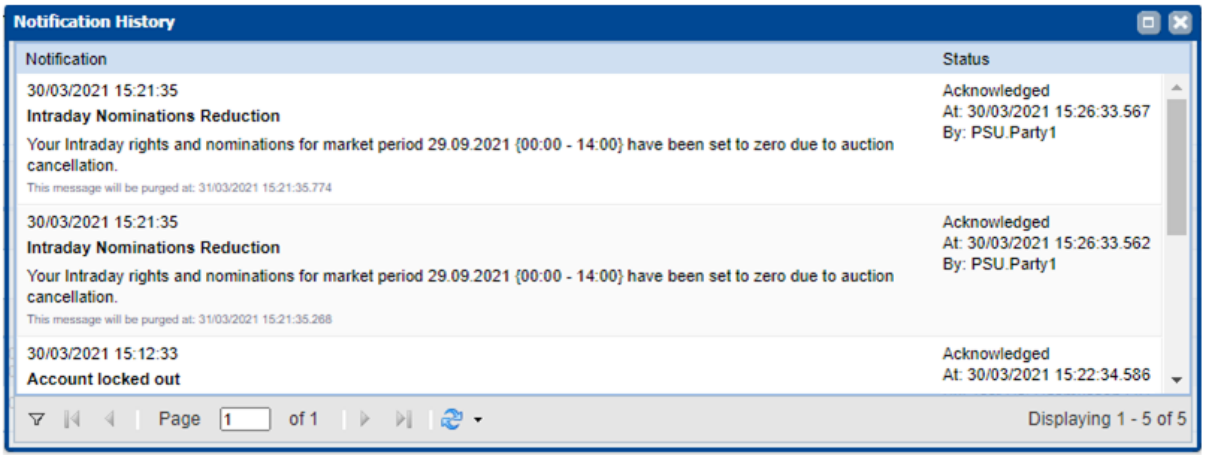


Figure 30: Notification history widget

3.3 Dashboards

To access the Dashboard screens, click on the **Dashboard** menu and select either:

- **Customer Dashboard**; or
- **User Management** (Superuser role only).

The Participant Superuser can create, edit, or delete User Accounts associated with the registered Market Participant in the User Management screen.

The **Customer Dashboard** is the first screen the User sees after logging in to Neptune. The dashboard is comprised of the **Calendar** and **File Management** widgets. It can also be accessed via the **Dashboard** menu by clicking **Customer Dashboard**.

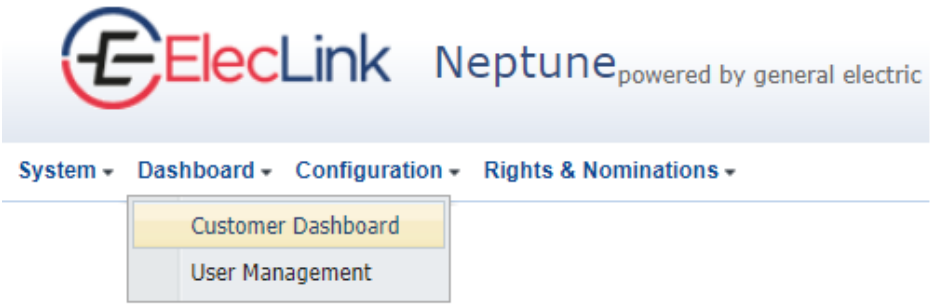


Figure 31: Accessing the Customer Dashboard.

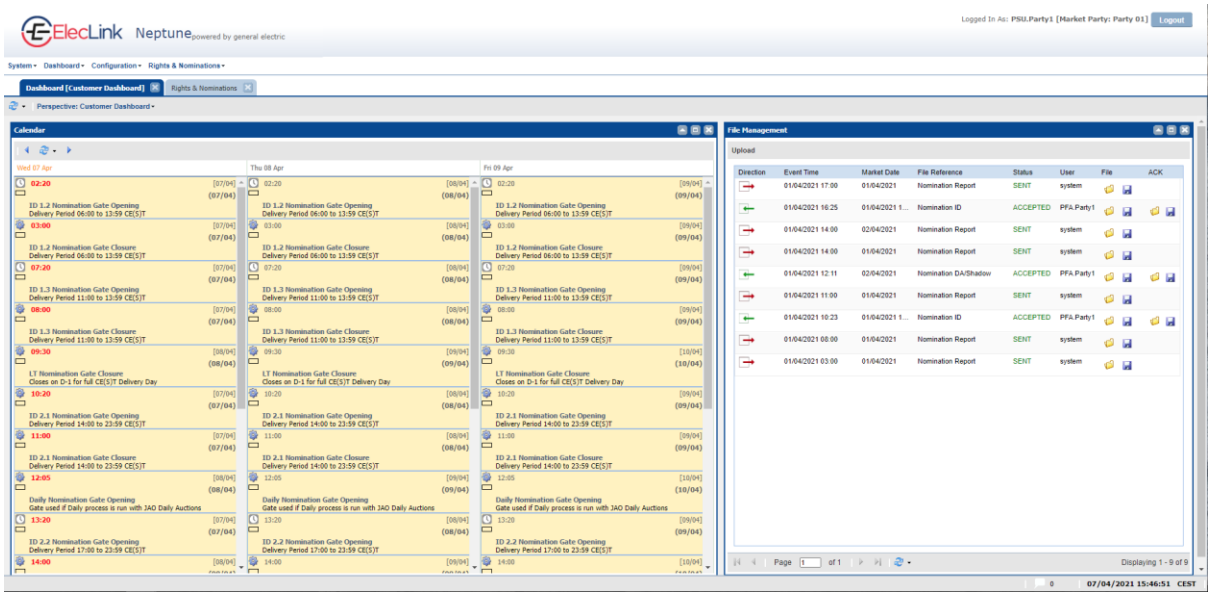


Figure 32: Customer Dashboard Screen.

3.3.1 Dashboard perspective

For each of the available dashboard screens, the User can select a perspective to be shown in the dashboard by selecting the Perspective menu. Only a Participant Superuser can access the User Management widget.

If the Participant Superuser selects the **User Management** dashboard, the standard Calendar will change to the List of Users widget and can be used as described in section 3.4.

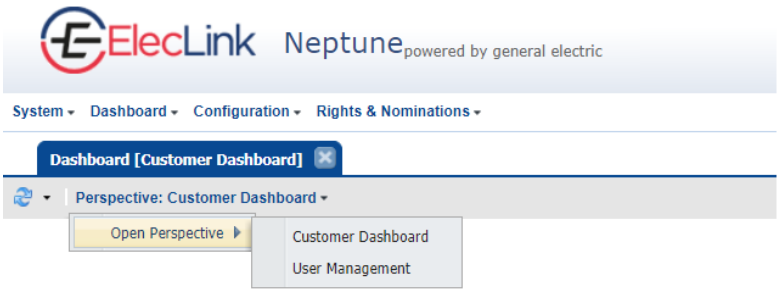


Figure 33: Selecting a Dashboard perspective.

3.3.1.1 Calendar widget

The Calendar widget displays all ElecLink Nomination Gates, by date and time. All Long Term, Day Ahead and Intraday Nomination Gates (both opening and closing) are displayed in the Calendar by default. The latest Nomination Gate timings for ElecLink are available in the ElecLink Nomination Rules document on the ElecLink website.

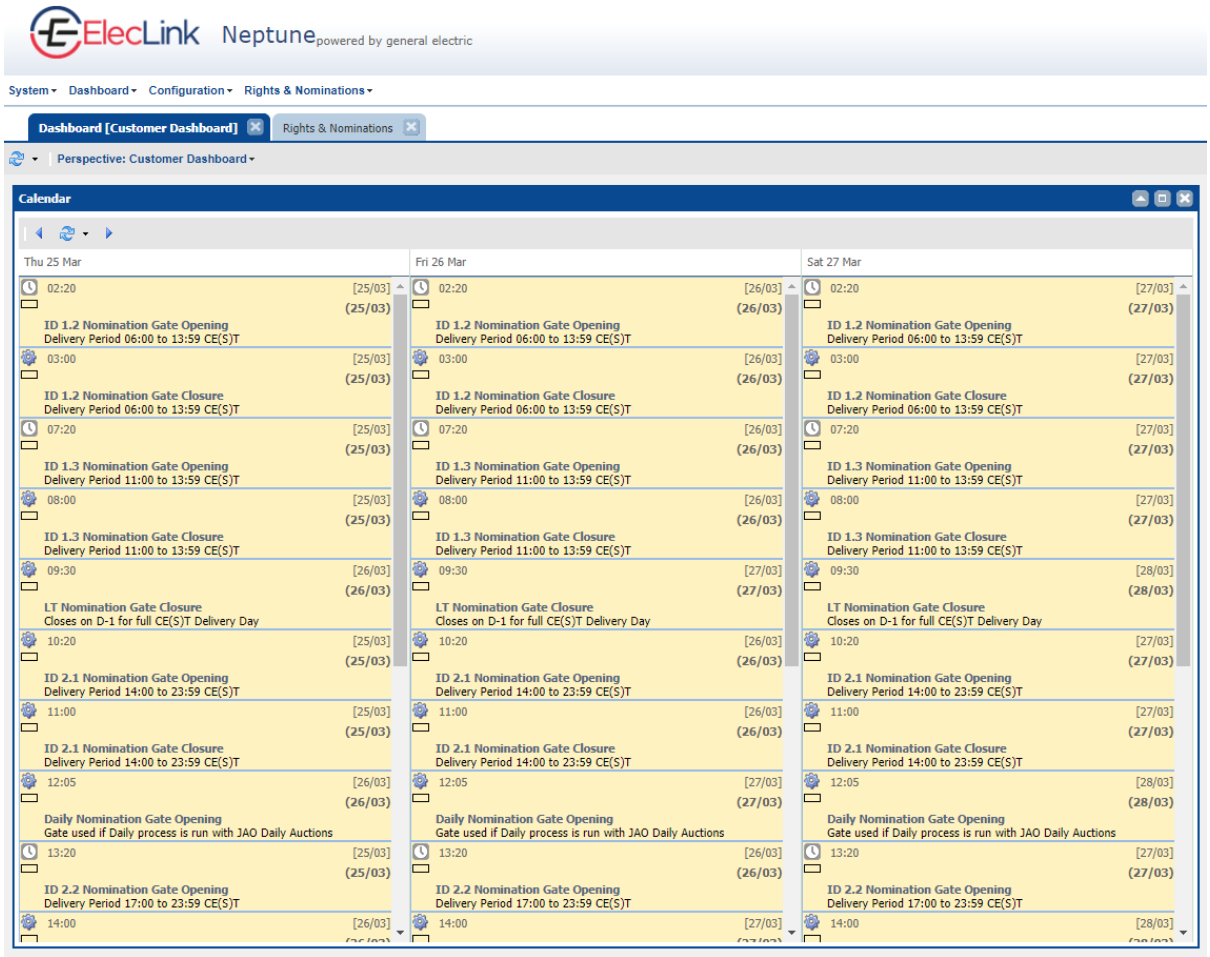


Figure 34: Calendar widget in the Main screen.

3.3.1.2 Events

The Nomination Gates for all auctions are displayed in the calendar. Each event is related to either an opening or a closing time of the event:

- Past events are signified with bold red font.
- Upcoming events are signified in grey font.

1 The dates specified in parenthesises () Indicates the Market Date for the event
2 The date in the square brackets [] indicates the Market Date for the event.

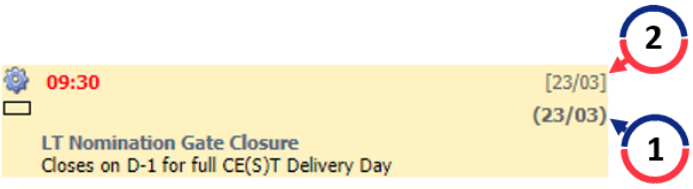


Figure 35: Neptune Calendar event ex-post.

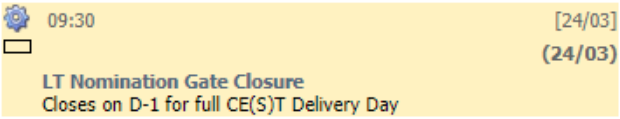


Figure 36: Neptune Calendar event ex-ante.

3.3.1.3 Confirming Nomination Gate Status

Before creating a Nomination in the system, please check the Calendar widget to make sure the relevant Nomination Gate is open, otherwise the Nomination will be rejected by Neptune.

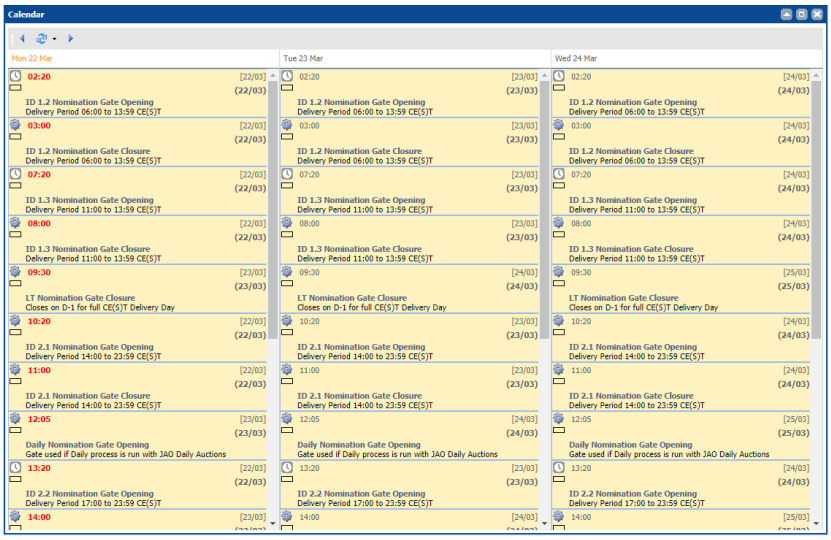


Figure 37: Calendar display.

For an open Long-Term Nomination Gate, you will see that the LT Nomination Gate Opening event has passed (red) but the LT Nomination Gate Closing event has not (grey):

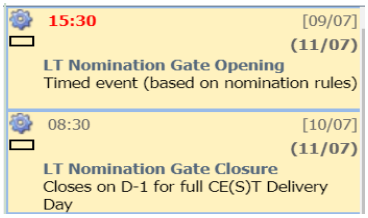


Figure 38: Long Term Nomination Gate open.

While the Nomination Gate is open, you can submit and update Nominations in the relevant ate.

3.3.2 File Management widget

The File Management widget displays files relevant to the Market Participant which are:

- Nominations (if imported through the widget or via Web Services).
- Customer Reports (generated automatically at each Nomination Gate closure).

These are available to view or download via this widget. Users can filter for different types of metadata and navigate through files by using the pagination at the bottom of the screen.

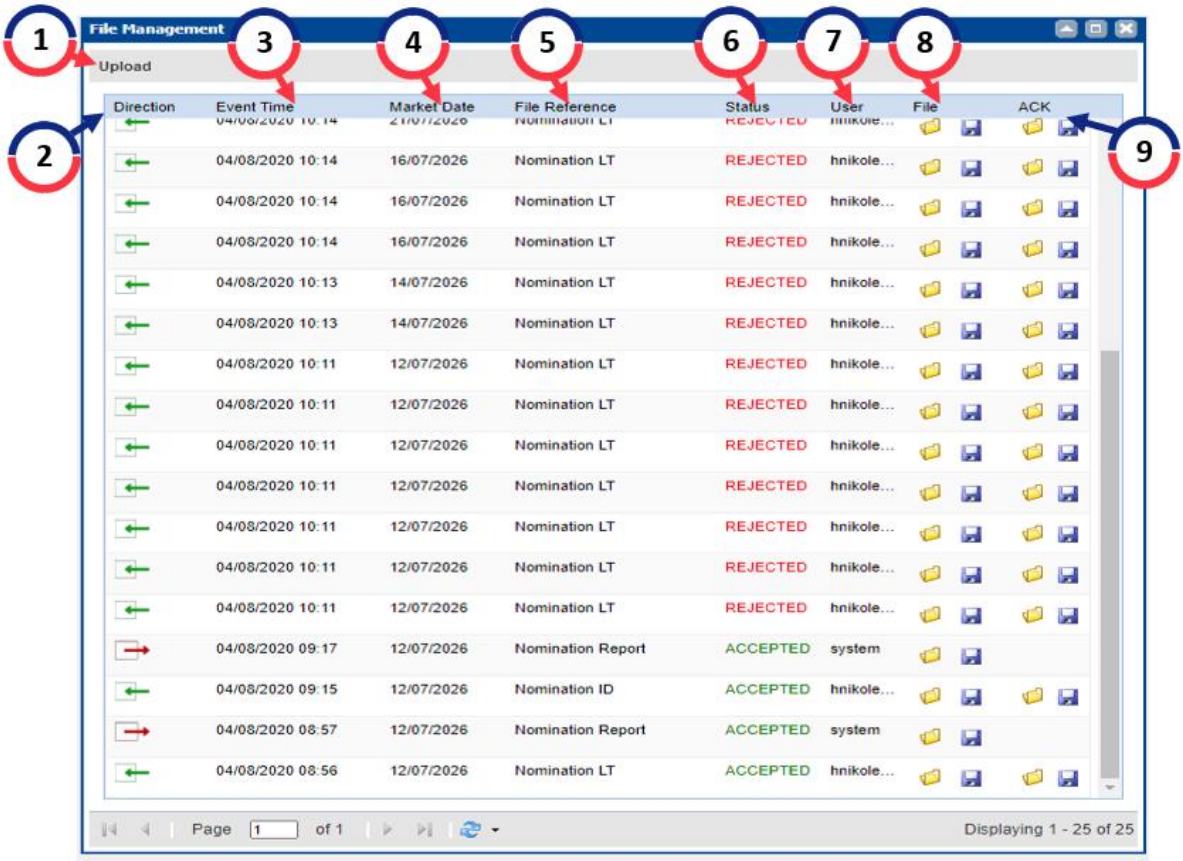
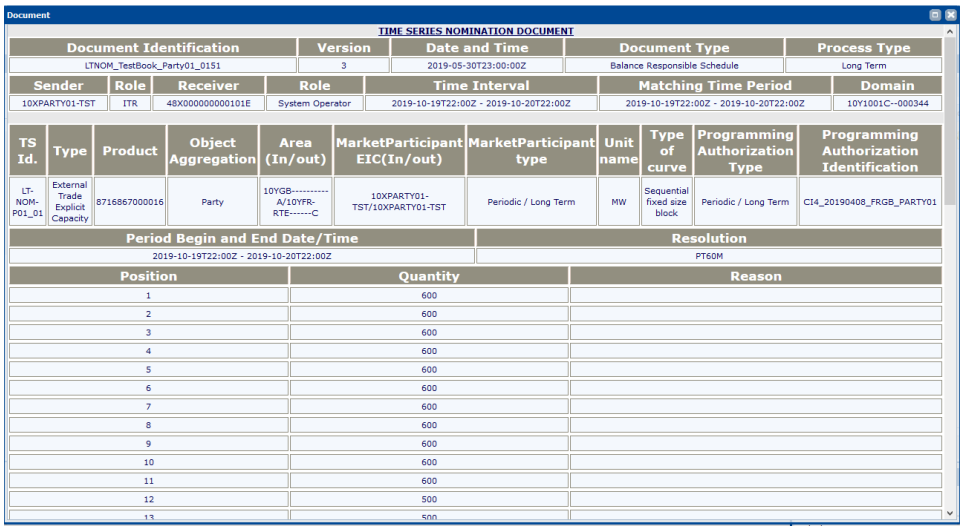


Figure 39: Neptune File Management

1. **Upload** (not available for Participant Read-only User)**:**
   - Prompts a **File Upload** menu where the User can upload Nomination request files.
2. **Direction**:
   - This specifies weather the file is being sent out of Neptune (Outbound) or if the User has sent a file to the central Neptune platform (Inbound) .
3. **Event Time:**
   - This relates to when the sending or receiving of each file takes place.
4. **Market Date:**
   - This relates to the Market Date that each file refers to.
5. **File Reference:**
   - Shows the file description of the row displayed. For a Market Participant User this will relate to:
     - Nomination Report;
     - Nomination LT;
     - Nomination DA/Shadow; and
     - Nomination ID.
6. **Status:**
   - This will inform the User of the current file status. This column can take the value of:
     - Accepted; or
     - Rejected.
7. **User**:

- Shows which Neptune User sent the file.

8. **File**:
   - Enables the User to Displays a file in two ways; an open icon and a save icon :
     - **Open icon**: opens a representation of the file within the Neptune UI as illustrated in Figure 40.
     - **Save icon**: allows the XML file to be downloaded onto the User's computer.
9. **Acknowledgements:**
   - Acknowledgements are received for User input files which include Nominations uploaded via the File Management widget and Nominations submitted through Neptune Web Services. To open and save these files, click on the icons.



Document

TIME SERIES NOMINATION DOCUMENT

Document Identification	Version	Date and Time	Document Type	Process Type
LTNOM_TestBook_Party01_0151	3	2019-05-30T23:00:00Z	Balance Responsible Schedule	Long Term

Sender	Role	Receiver	Role	Time Interval	Matching Time Period	Domain
10XPARTY01-TST	ITR	48X000000000101E	System Operator	2019-10-19T22:00Z - 2019-10-20T22:00Z	2019-10-19T22:00Z - 2019-10-20T22:00Z	10Y1001C--000344

TS Id.	Type	Product	Object Aggregation	Area (In/out)	MarketParticipant EIC(In/out)	MarketParticipant type	Unit name	Type of curve	Programming Authorization Type	Programming Authorization Identification
LT-NOM-P01_01	External Trade Explicit Capacity	8716867000016	Party	10YGB----------A/10YFR-RTE------C	10XPARTY01-TST/10XPARTY01-TST	Periodic / Long Term	MW	Sequential fixed size block	Periodic / Long Term	CI4_20190408_FRGB_PARTY01

Period Begin and End Date/Time	Resolution
2019-10-19T22:00Z - 2019-10-20T22:00Z	PT60M

Position	Quantity	Reason
1	600	
2	600	
3	600	
4	600	
5	600	
6	600	
7	600	
8	600	
9	600	
10	600	
11	600	
12	500	
13	500	

Figure 40: Display of a representation of a file's contents in Neptune UI

3.3.2.1 Uploading files

Using this widget, the User (not Participant Read-only role) can upload a Nomination file (in XML format) using the **Upload** button. For instructions see section 4.6.

3.4 User Management

To access the User Management Dashboard, click the **Dashboard** menu and select **User Management**. The User Management Dashboard is available for Participant Superusers only.

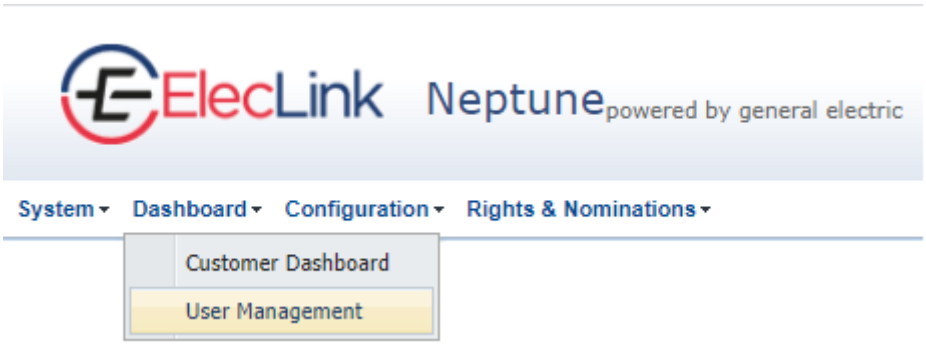


Figure 41: Accessing User Management Dashboard.

3.4.1.1 User List Widget

The User List widget displays all the associated Users for a Market Participant. The User List enables the Participant Superuser to view, edit, create, and delete Users in Neptune.

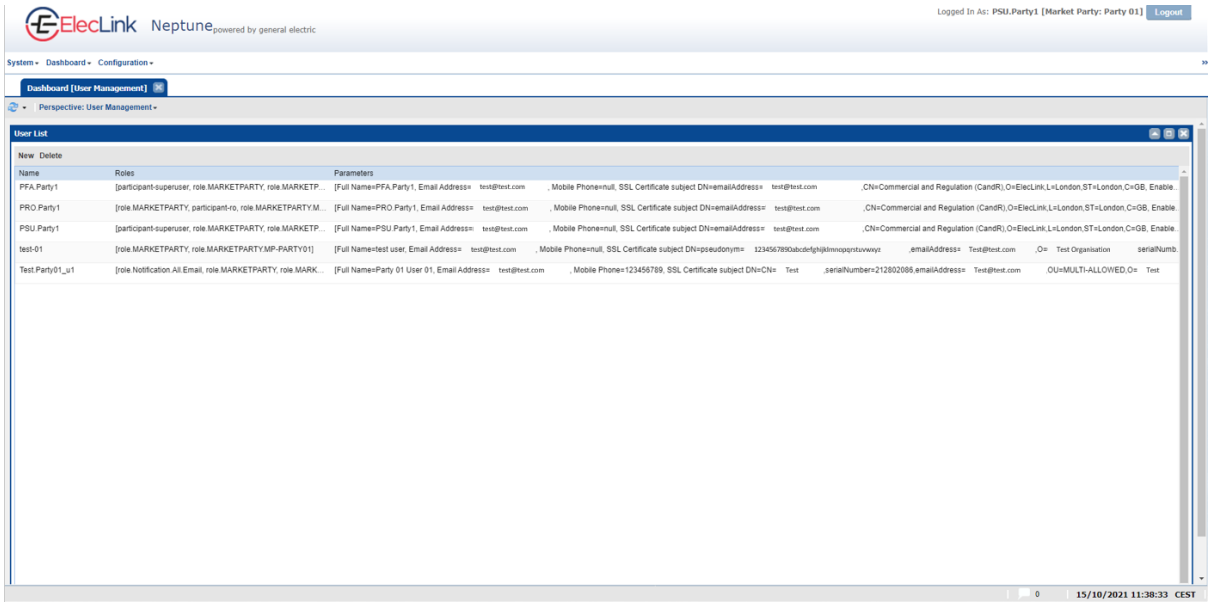


Figure 42: User Management dashboard.

3.4.1.2 Viewing a User

The Users are displayed in the User List widget with the following information:

- **Name:** Name of the User account.
- **Parameters:** The User's associated information**.**
- **Roles:** Roles assigned to the User account

By double clicking on any of the displayed Users, more information on that User can be displayed.

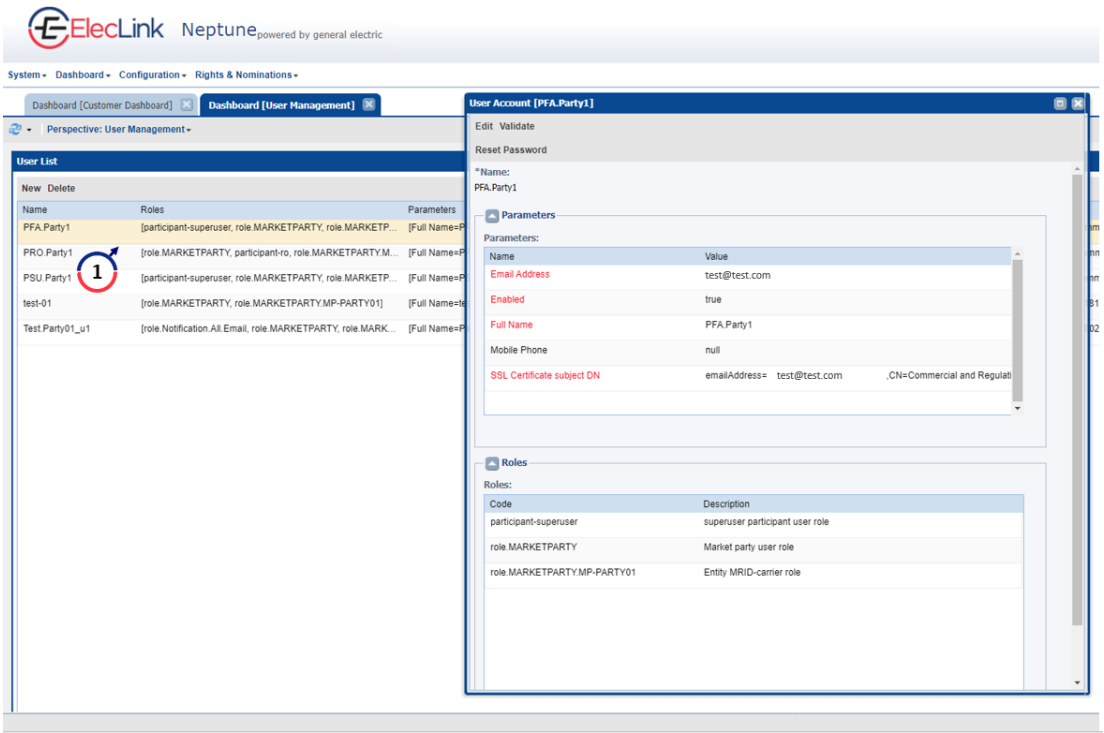


Figure 43: Viewing User in User Management.

3.4.2 Create a new User

To create a new User:

- Click on the **New** button at the top left corner of the widget:

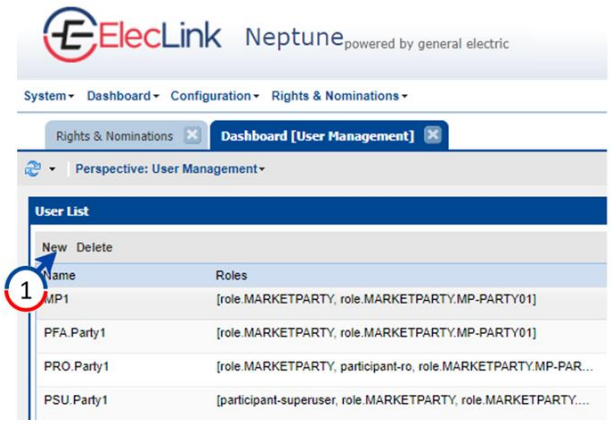


Figure 44: Creating a new User account

- A pop-up is displayed with information that is required (the red fields are mandatory):

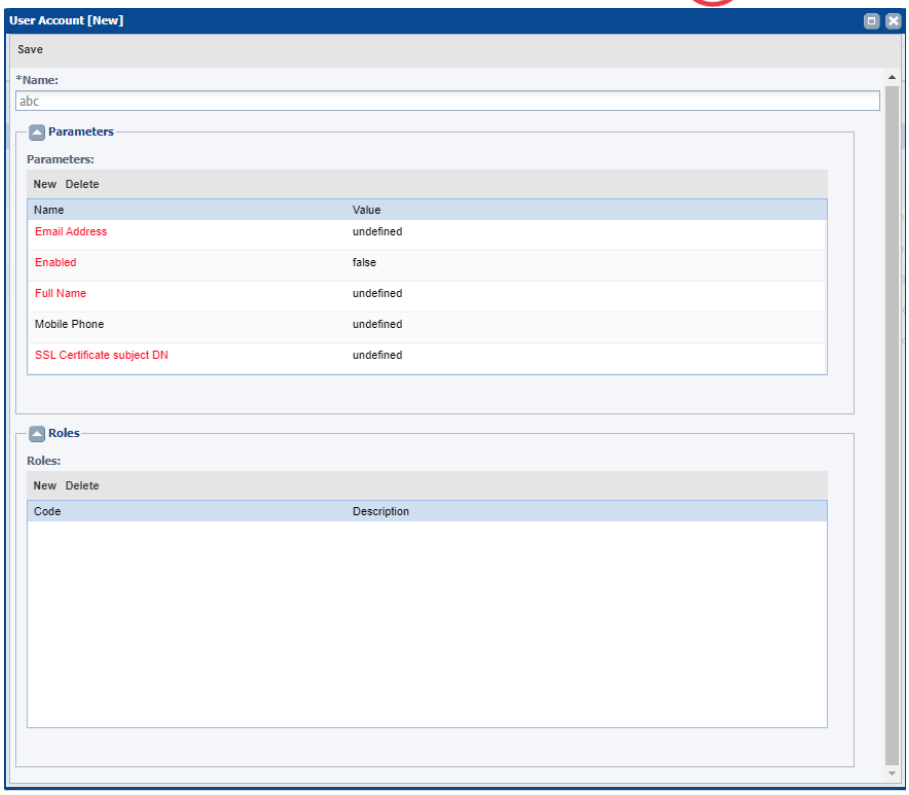


Figure 45: new User account pop-up

- *Name: This will be the Username of the Account.
  - Please use a Firstname.Lastname convention when creating a new Username.
- Fill in the other information related to the new User:
  - Email Address: Associated email address
  - Enabled: Select true for the User to be enabled.
  - Full Name: Full name of the User
  - Mobile Phone: Optional
    - If supplied, must be a valid phone number, following E.164 format, including country code prefix:
      - +(country code)(phone number). For example, +44 20 3968 1785.
  - SSL Certificate Subject DN: This links a User account to a Digital Certificate. See section 2.6.3 for how to retrieve the Subject DN details.

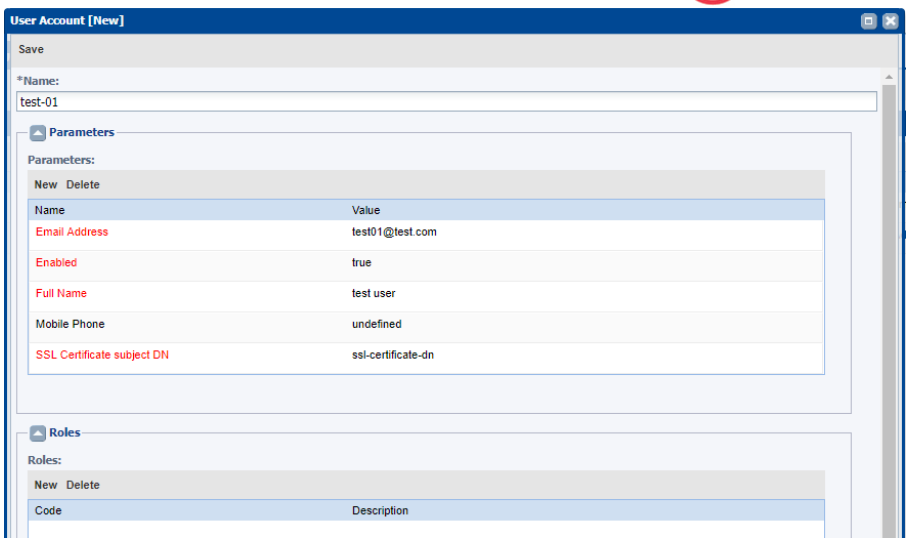


Figure 46: New User account input example

- Specify the new User's roles, to confirm what they will be allowed to do in Neptune. To set roles, click the **New** button in the Roles section.

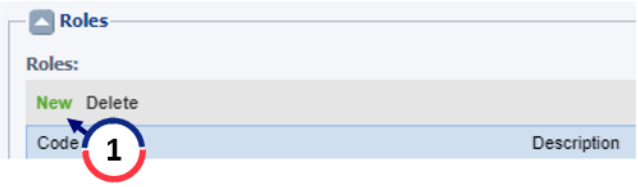


Figure 47: Creating a new role.

- Assign the User to the relevant Market Participant. Select the following two roles and click **OK** (hold CTRL and click to select multiple roles):
  - **Role.MARKETPARTY** (generic Participant User role).
  - **Role.MARKETPARTY.xyz** (specific to the User's organisation).
- If the User being created needs a different permission level compared to a normal Participant User, add the relevant Role and click **OK**:
  - To create a Participant Read-only User: Select **Participant-ro**.
  - To create a Participant Superuser: Select **Participant-superuser**.

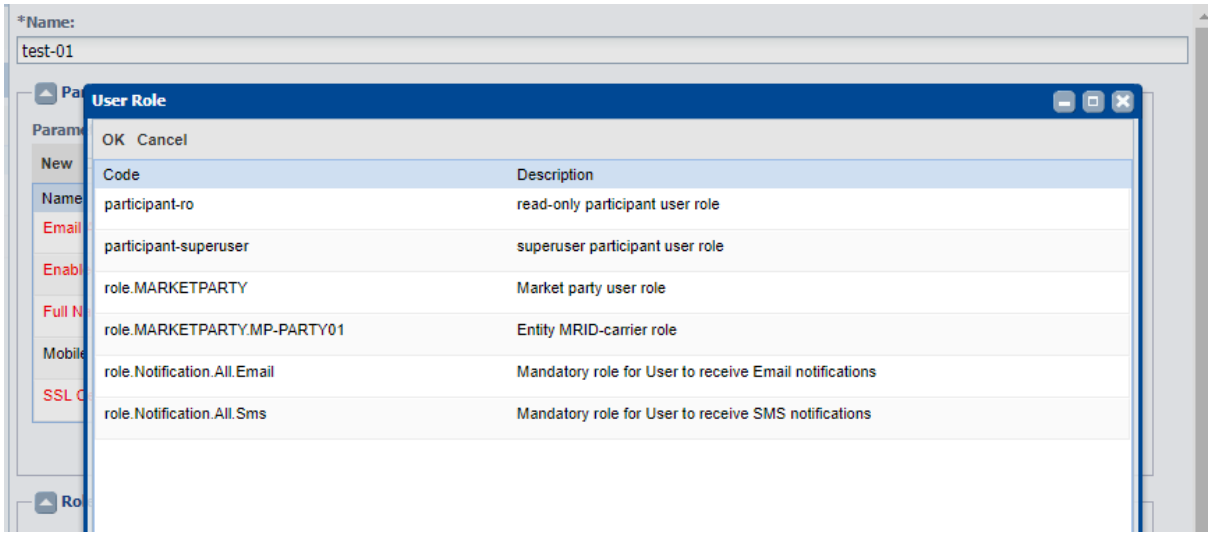


Figure 48: User roles examples

- Roles are now associated to the User:

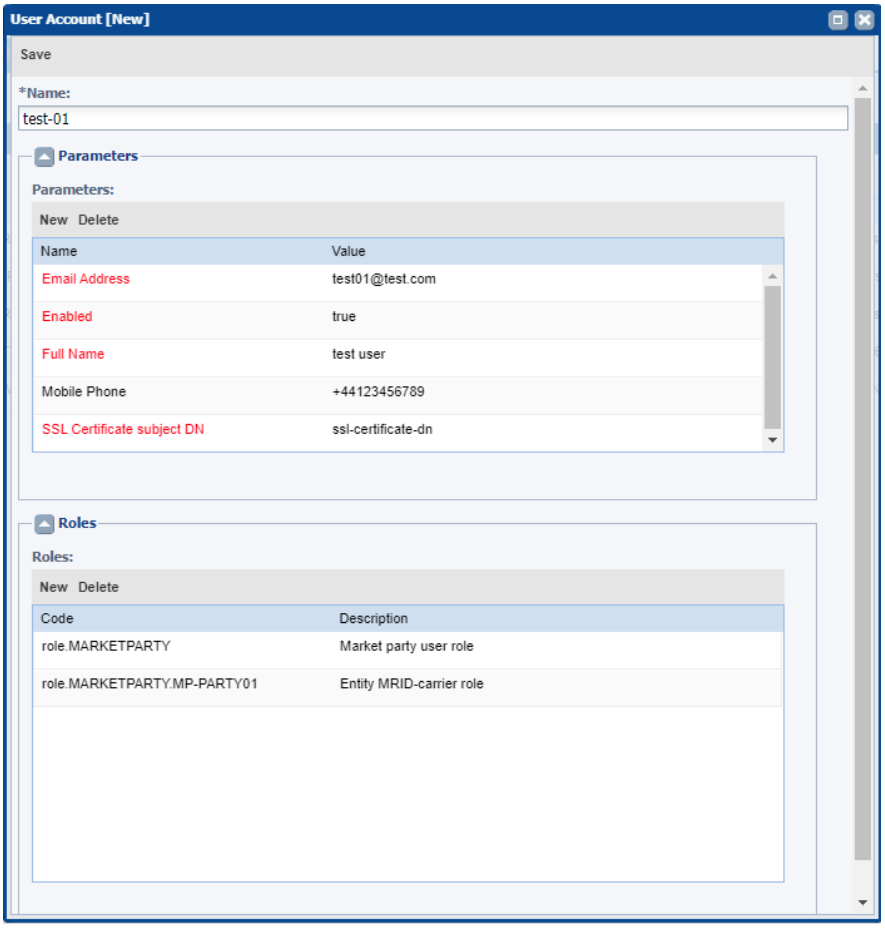


Figure 49: Roles associated with User

- Click **save** at the top to save the new User account.
- Close screen using the top right cross.

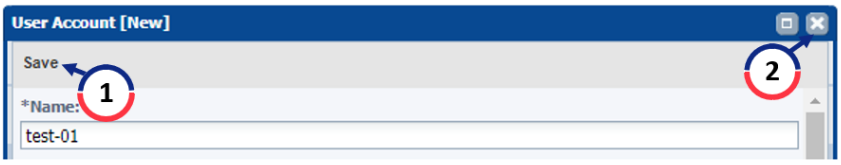


Figure 50: Saving the roles associated with a User

- The newly created User now appears in the list of Users.

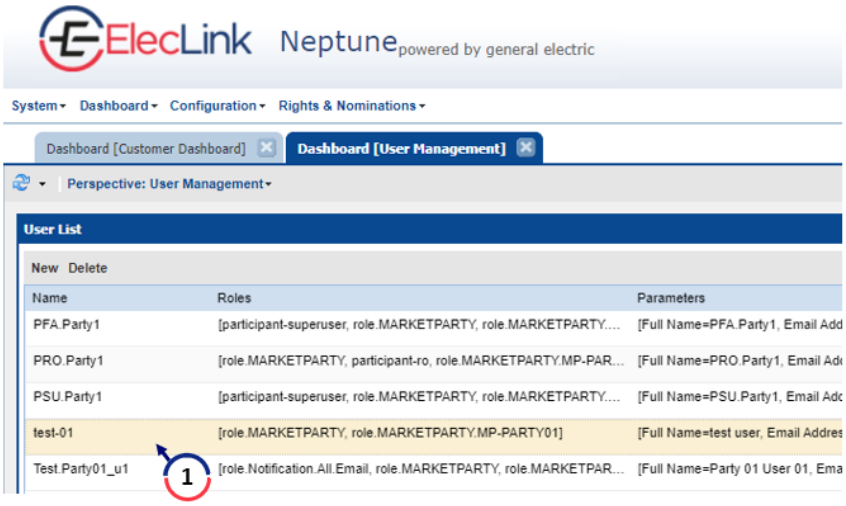


Figure 51: Overview of User accounts and roles

- To have an email sent to the User for their first login, double-click on the newly created User and click on the **Reset Password** button.

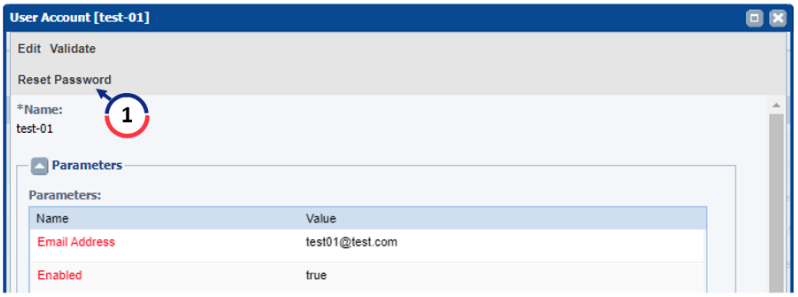


Figure 52: Enabling the new User to receive an email to reset the password for the account

- A confirmation pop-up appears asking for a confirmation to reset the password. Click **OK**:

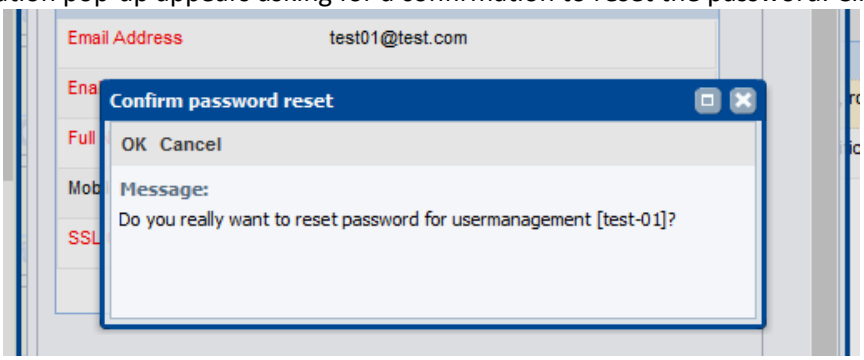


Figure 53: Confirmation to send email to reset User password

- The new User receives an email with a temporary password and will be able to log in for the first time (the new User will need to change their password on first login).

3.4.2.1 Edit a User

To edit a User:

- In the User List widget, double click on the User Account to be edited.

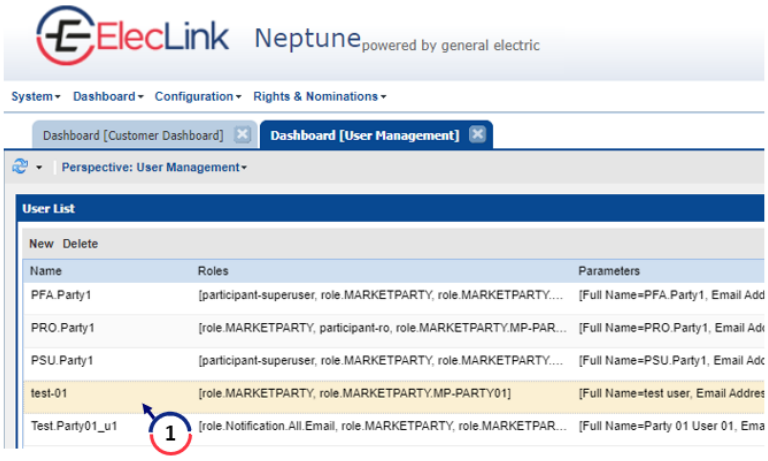


Figure 54: Double click on Username to edit User

- A pop-up is displayed with User information.

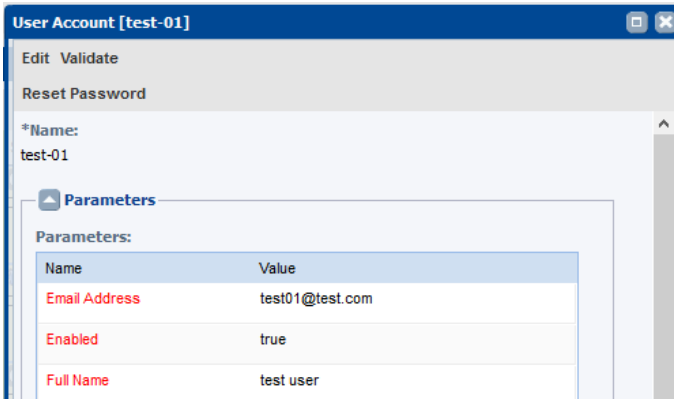


Figure 55: User information display

- Click on the **Edit** button.

Figure 56: Finding the Edit button for a User Account

- The following values can be edited:
  - **Email address.**
  - **Enabled**
    - Sets whether the User is active or not. To temporarily prevent a User's access, set Enabled to No.
  - **Full Name.**
  - **Mobile Phone (optional).**
  - **SSL certificate subject DN.**
  - **User Roles associated with the User Account**.

Note: The **Validate** button is used to check if the data will be accepted in Neptune before saving.

- After editing, click on the **Save** button to save the changes.

3.4.2.2 Delete a User

Deleting a User cannot be scheduled so make sure the User no longer requires access before deleting.

- Select the User from the list:

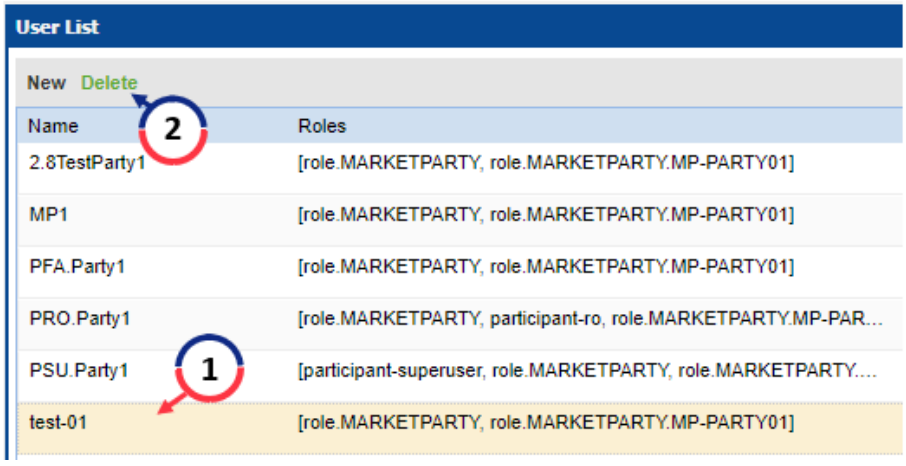


Figure 57: Selecting User to be deleted

- Click the **Delete** button (top left corner). A confirmation pop-up appears:
  Click **OK**. The User is now deleted.

Figure 58: Confirming User deletion

4 Auction Rights & Nominations

In Neptune, ElecLink's nomination gate timings are easily available in Neptune's Calendar widget. This widget shows live data and continually updates to provide information on the status of our nomination gates.

ElecLink will run explicit capacity auctions via Joint Allocation Office (JAO). Market Participants will have the opportunity to nominate for Long Term (LT) between 16:30 D-2 and 09:00 D-1, Day Ahead (DA) between 12:05 and 14:00 and finally two IntraDay (ID)auctions, covering the power day, split into two parts. Each of the ID auctions has three nomination gates.

Awarded capacity rights resulting from the Day Ahead and Intraday auctions will be made available to Market Participants by JAO within 10 minutes of auction closure. Long Term rights will be received on D-2 at 12:30 CE(S)T where D is the delivery day for the relevant period.

Event	Nomination gate period (Open – Close)	Delivery period
Long term nomination gate	D-2 16:30 – D-1 09:00 CE(S)T	00:00 – 24:00 CE(S)T
Day-ahead nomination gate	D-1 12:05 – D-1 14:00 CE(S)T	00:00 – 24:00 CE(S)T
Intraday nomination gate 1	D-1 20:30 – D-1 21:00 CE(S)T	00:00 – 14:00 CE(S)T
Intraday nomination gate 2	D 02:20 – D 03:00 CE(S)T	06:00 – 14:00 CE(S)T
Intraday nomination gate 3	D 07:20 – D 08:00 CE(S)T	11:00 – 14:00 CE(S)T
Intraday nomination gate 4	D 10:20 – D 11:00 CE(S)T	14:00 – 24:00 CE(S)T
Intraday nomination gate 5	D 13:20 – D 14:00 CE(S)T	17:00 – 24:00 CE(S)T
Intraday nomination gate 6	D 16:20 – D 17:00 CE(S)T	20:00 – 24:00 CE(S)T

The Rights & Nominations screen is used to view Rights, nominate capacity, or edit already submitted Nominations for the Nomination Gate.

The screen is opened by default for Users upon login and available in the tab menu. To open the screen manually, click the drop-down menu **Rights & Nominations** > **Rights & Nominations**.

Figure 59: Accessing Rights & Nomination screen.

The **Rights and Nominations** screen is split into 3 sections:

- Filter:
  - Where the User can filter for Rights.
- Rights; and
- Rights and Nominations.

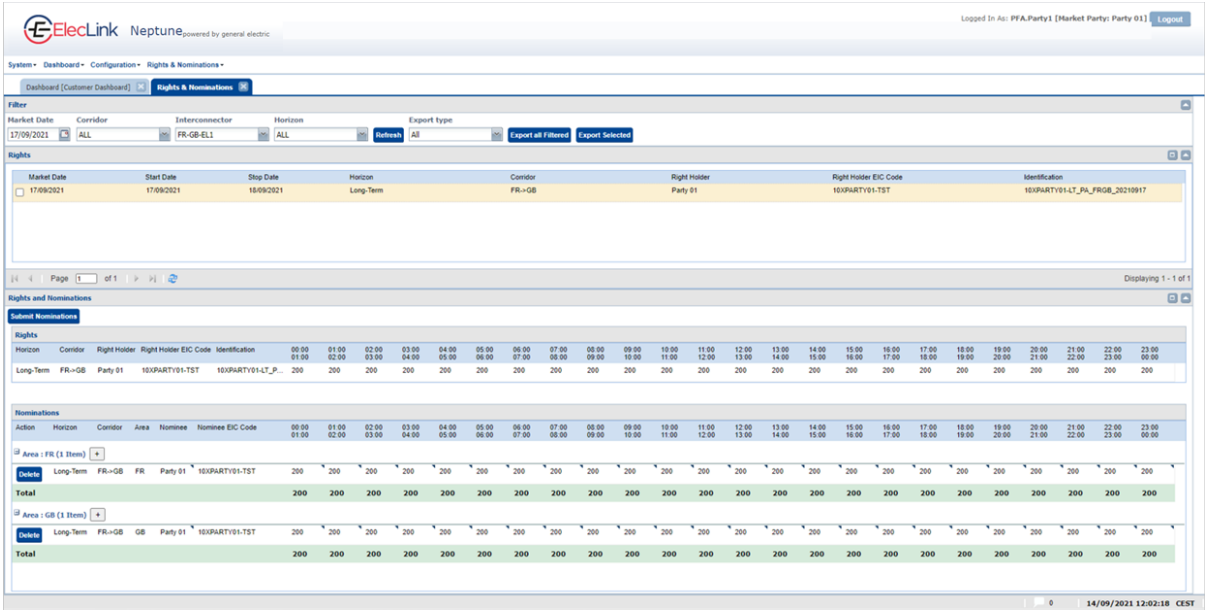


Figure 60: Rights & Nomination screen overview.

4.1 Filtering

Users can filter the sections below as required:

- **Market Date:** The day the Rights are valid for (today's date is the default).
- **Corridor:** All, GB->FR or FR->GB.
- **Interconnector:** ElecLink only.
- **Horizon:** Which Nomination horizon the Rights correspond to (All, Long Term, Day Ahead or Intraday).

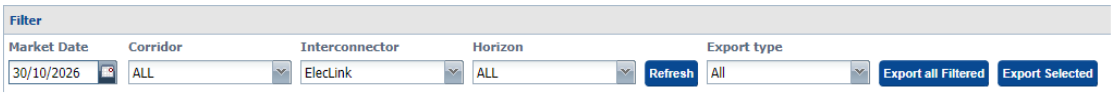


Figure 61: Rights & Nominations: Filter Window

- Display Rights and corresponding Nominations by selecting the preferred filters and clicking the **Refresh** button.
- Download Rights and/or Nominations for the selected filtered period by selecting **Export type** and clicking on either **Export All Filtered** or **Export Selected** for the selected Rights and corresponding Nominations. Exports are only available in Excel format (.xls).

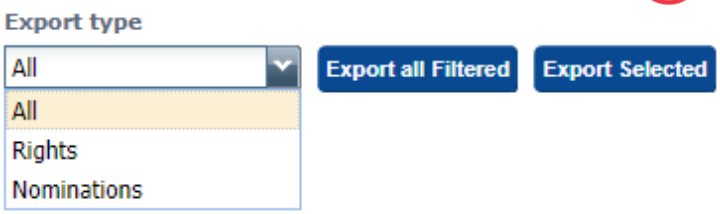


Figure 62: Selecting export type.

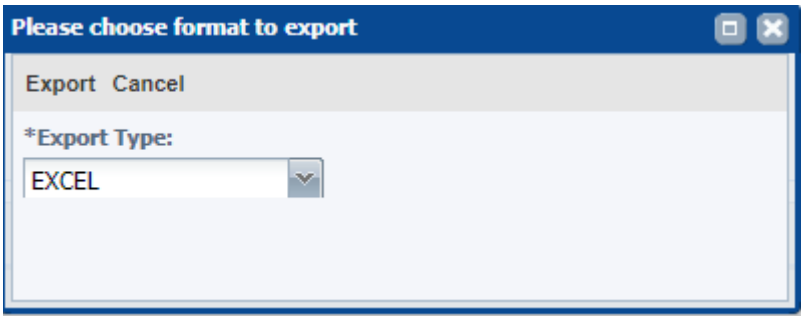


Figure 63: Downloading Rights and Nominations in Excel format.

4.2 Auction Rights

Based on the User filtering, the corresponding Rights are displayed in the **Rights** window. Rights in Neptune are for a given Delivery period, Corridor, Right Holder and Horizon. You must select one of the Rights displayed here create a Nomination.

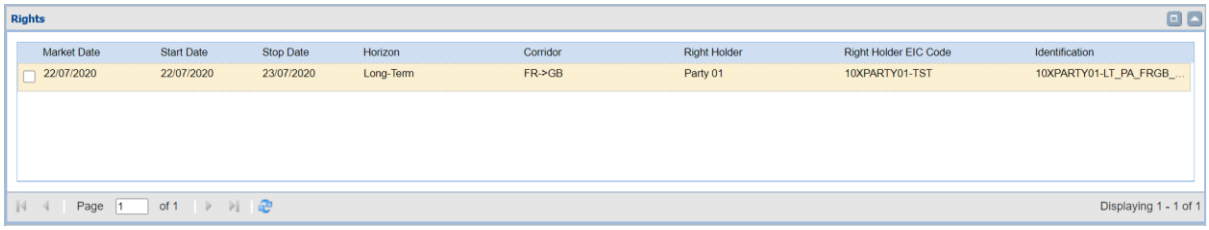


Figure 64: Rights & Nominations: Rights window

By default, the Rights window displays the following:

- **Market Date**: The day of delivery.
- **Start Date:** The date the delivery period starts (no time indicates midnight on the given date).
- **Stop Date:** The date the delivery period ends (no time indicates midnight on the given date).
- **Horizon:** Either Long Term, Day Ahead or Intraday.
- **Corridor:** Either GB -> FR or FR -> GB.
- **Right Holder:** The relevant User
- **Right Holder EIC Code:** Market Participant's EIC code.
- **Identification: "DATE-TWO LETTER COMPANY CODE-AUCTION REFERENCE CODE"**

4.3 Types of Nominations.

ElecLink's Neptune system is future proof for more advanced Nomination relationships that may arise with future improvements to the ElecLink Access Rules. To facilitate this, Users must enter their Nominations in both the GB (Great Britain) and FR (France) 'areas'.

Neptune provides a **Duplicate to other Area** function along with other easy to use functions (see 4.5.3.1)

4.4 Default Nomination

Using Neptune's Default Nomination functionality, Users can nominate a percentage of Rights for a specified period without explicitly submitting a Nomination into Neptune each time. This can be set for each horizon independently.

At the Nomination Gate opening, Neptune automatically generates a Nomination according to the configuration set by the Market Participant. This Nomination will be considered in the same way as a Nomination submitted by a User through the Rights and Nominations screen, File Management or Web Services. Making a Default Nomination does not prevent a User from modifying the Nomination afterwards in another way (UI, Web Services or XML file submission) so long as the relevant Nomination Gate remains open.

Each time a Default Nomination is generated by the system; a notification is sent to notify the User.

To access the Default Nomination screen, click the **Configuration menu** and select **Default Nominations.**

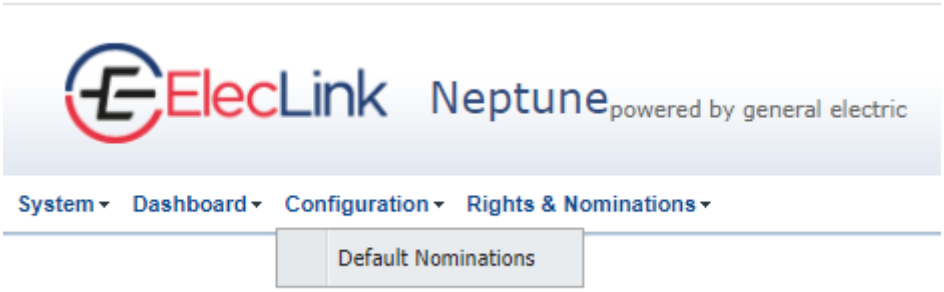


Figure 65: Default Nominations menu

4.4.1.1 Filters

To filter the Default Nomination configurations, use the following filters in the **Filter** section at the top of the screen:

- **Start Date/Stop Date:** Period to look for Default Nominations. If at least one day matches between the period selected and a configured Default Nomination, it will be displayed in the Schedules section.
- **Corridor:** All, GB->FR or FR->GB.
- **Rights Holder:** the relevant Market Participant.
- **Horizon:** All, Long-Term, Day Ahead or Intraday horizons.

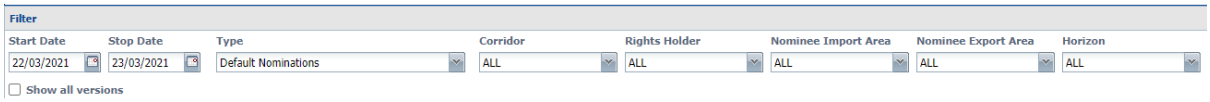


Figure 66: Default Nomination filter section

4.4.1.2 Version Number Confirmation

Version numbers are only applicable when submitting nominations via file management or web services. Default nominations and the UI interface do not use versioning numbers.

4.4.1.3 Configuration of Default Nominations

In the **Schedules** section, Users can see/create/edit Default Nominations:

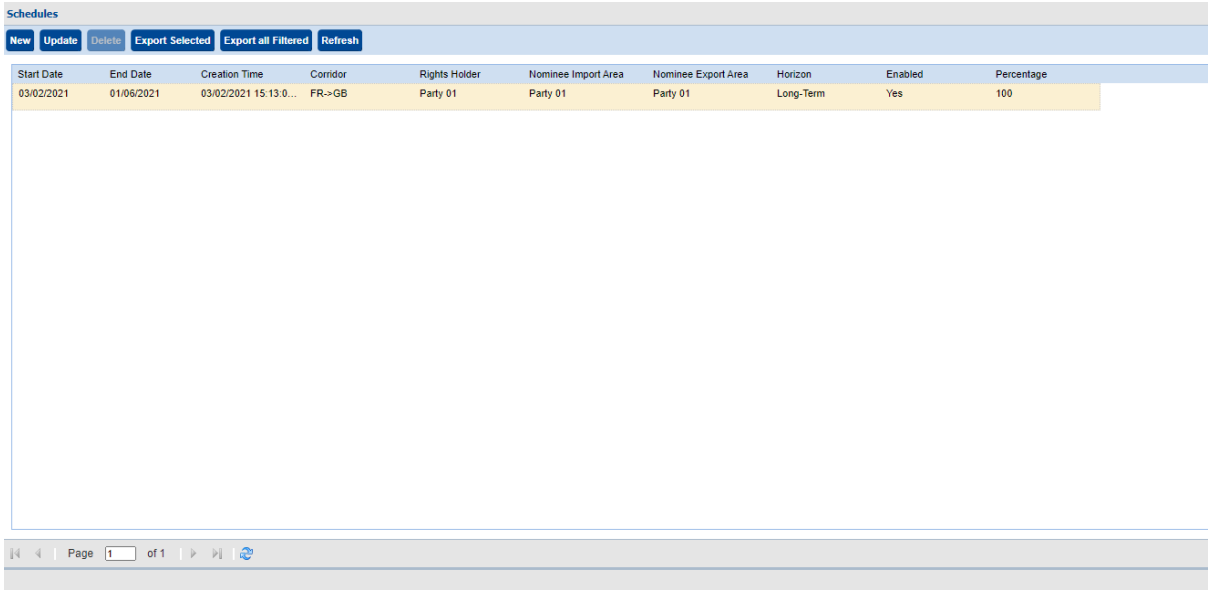


Figure 67: Default Nomination Configuration screen

- **Start Date:** The Market Date on which the configuration starts to apply.
- **End Date:** The Market Date on which the configuration ends. After midnight on that date, the configuration will end and there will not be any default Nominations automatically generated.
    - If a User submits a Default Nomination from Start Date 23/03/2023 to End Date 27/03/2023, the Default Nomination will apply from 23/03/2023 00:00:00 until 26/03/2023 23:59:59.
- **Creation Time:** The creation or last update time of the Default Nomination configuration.
- **Corridor:** Either GB -> FR or FR -> GB
- **Rights Holder:** The relevant Market Participant.
- **Nominee Import Area:** The relevant Market Participant (should be the same as what was filled in for Rights Holder). .
- **Nominee Exporting Area**: The relevant Market Participant (should be the same as what was filled in for Rights Holder).
- **Horizon:** Horizon of the Default Nomination (Long Term, Day Ahead or Intraday)**.**
- **Enabled:** Whether the Default Nomination should be active or not.
- **Percentage**: Percentage of the Rights to be nominated

To export the Default Nomination to excel, click the **Export all filtered** or **Export Selected** button.

4.4.1.4 Create a Default Nomination

To create a new Default Nomination, click the **New** button at the top left corner of the Schedules section. A new pop up will appear:

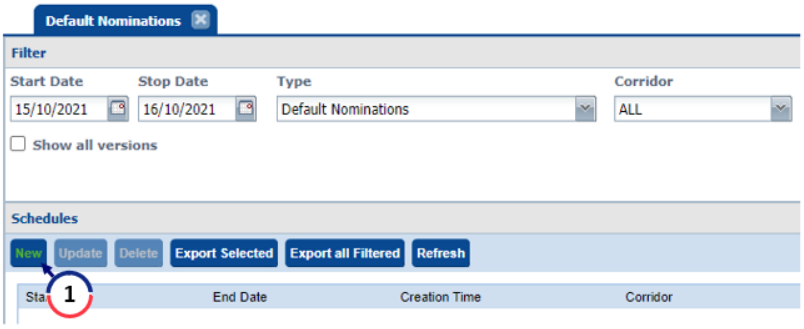


Figure 68: Creating a new default Nomination

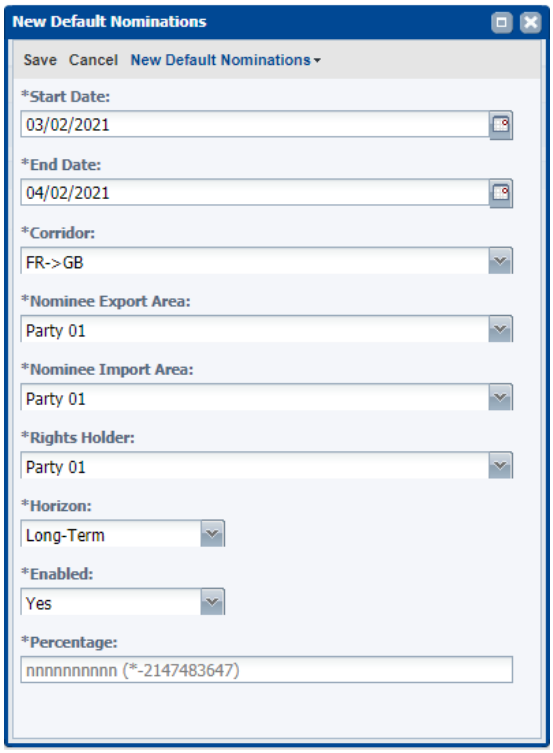


Figure 69: New/Edit Default Nomination form

- **Start Date/End Date**
  - Enter a valid period for the Default Nomination.
  - To select a single day, the applicable date must be entered as the Start Date, and the following date must be entered as the End Date, e.g., to select all delivery periods for 08/09/2022, the User must select a Start Date of 08/09/2022 and an End Date of 09/09/2022.
- **Corridor:** Either GB -> FR or FR -> GB
- **Import/export Nominee area:** Selects the import and export Nominee roles for the Default Nomination. In most cases this will be the User's Market Party and so this will be automatically selected.
- **Rights Holder:** The User's Market Participant name. This will be automatically selected in most cases.

- **Horizon:** Selects the Horizon: Long Term, DA or Intraday.
- **Enabled:** Sets the Default Nomination either active or inactive (Enabled to Yes for active, or No for inactive).
- **Percentage:** Sets the percentage of Rights to be nominated automatically.

When updating the **Enabled** section to Yes, this will be effective only for the next Nomination Gate and not for any Nomination Gates already opened.

Users may enter multiple Default Nominations. The maximum percentage of the Default Nomination for a Right holder, a corridor and a horizon cannot exceed 100% for a given Market Date. You can save the Default Nomination using the **Save** button at the top left corner of the form. A **Cancel** button is also available to cancel the operation.

4.4.1.5 Edit a Default Nomination

To edit a Default Nomination, select the relevant Default Nomination line in the Schedule section (selected line is highlighted in yellow) and then click the **Update** button.

A form pops up displaying the information.

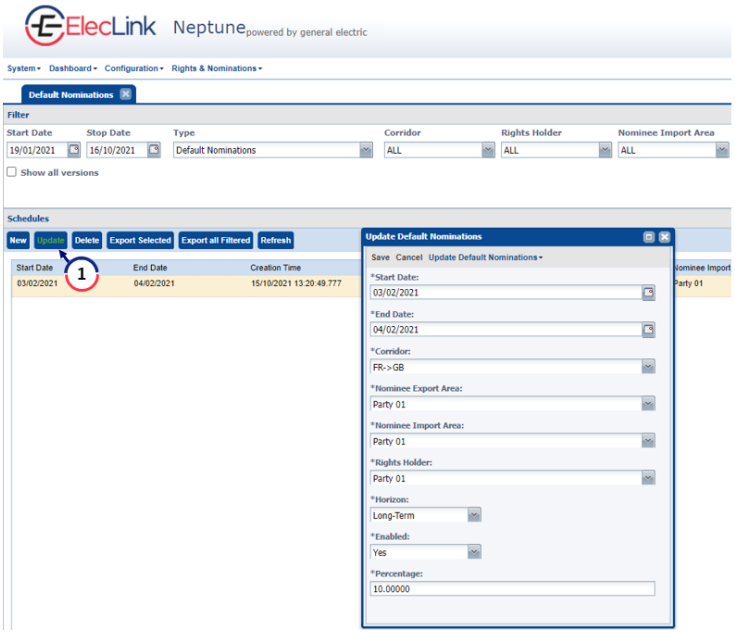


Figure 70: Update Default Nomination form

Once the details are updated, press **Save** to update the configuration.

4.4.1.6 Terminate a Default Nomination

To delete or terminate a Default Nomination, click **Configuration**, **Default Nomination** and filter the Start and End Dates which will cause the Default Nomination to appear in the Schedules widget. Click on the column with the Default Nomination and then click the **Delete** button.

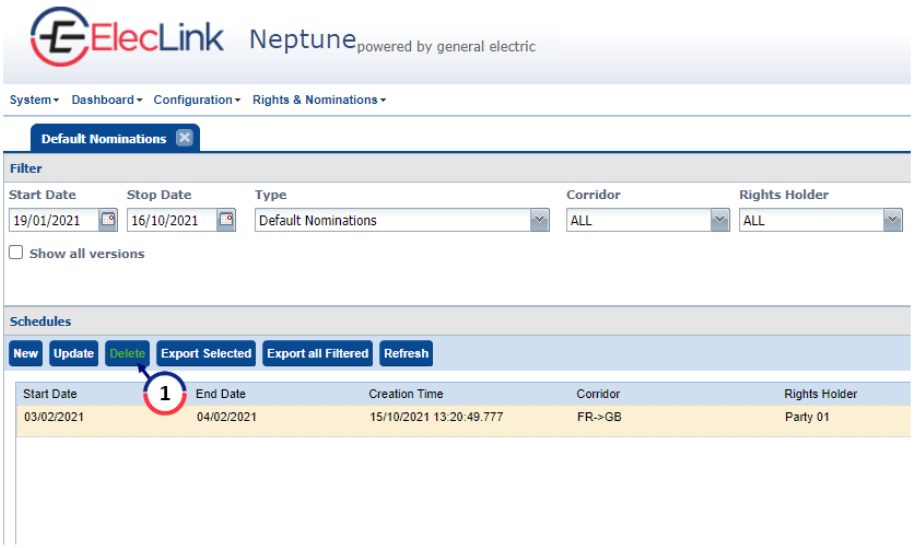


Figure 71 Deleting or Terminating a Default Nomination

After clicking the **Delete** button, a warning message will appear, click the **OK** button to proceed.

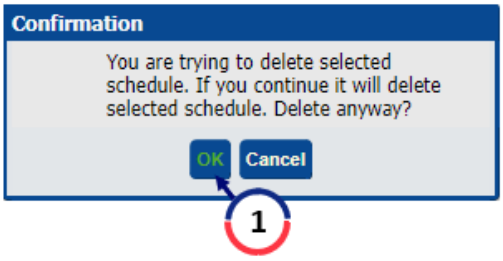


Figure 72 Confirm Deletion or Termination of a Default Nomination

4.4.1.7 Default Nomination Acknowledgement

If a Market Participant has received rights for a particular date and Default Nominations were also setup for that date, a notification will appear on-screen when the gate opens to inform the User that a Default Nomination was successfully generated.

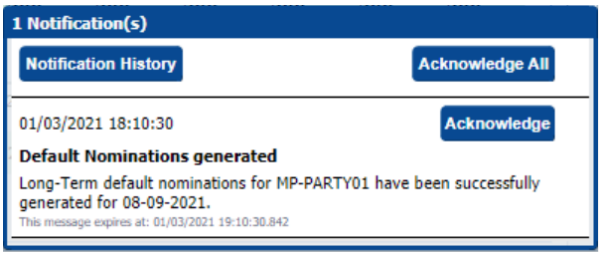


Figure 73 Default Nomination submission acknowledgement

4.4.1.8 Confirmation of nomination position prior to nomination gate closure

Market Participants will be able to see their latest nomination status via the bold line on the Rights and Nomination screen.

4.5 Neptune UI Nominations

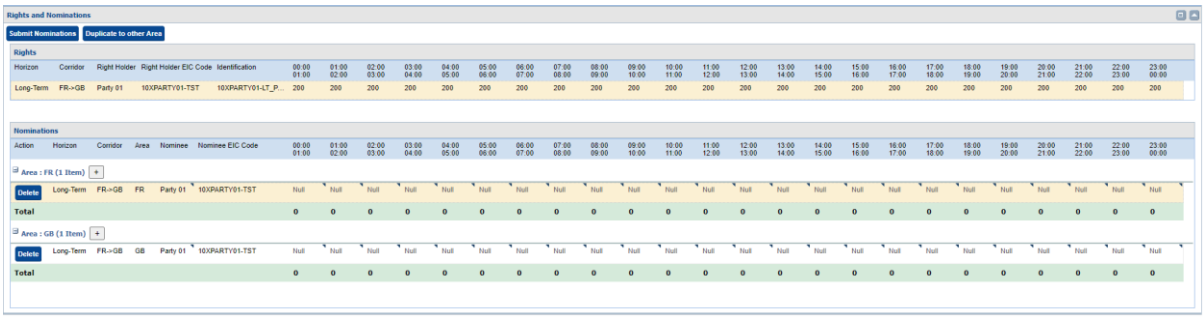


Figure 74: Rights and Nominations Screen

The Rights and Nominations section displays selected Rights held by a Market Participant, per hour. Any Nomination already submitted for the corresponding Rights is displayed. To submit a new Nomination for a given period, ensure the relevant Nomination Gate is open (see 3.3.1.2 for more information). The Nomination has values of 'Null' by default where no Nomination exists:

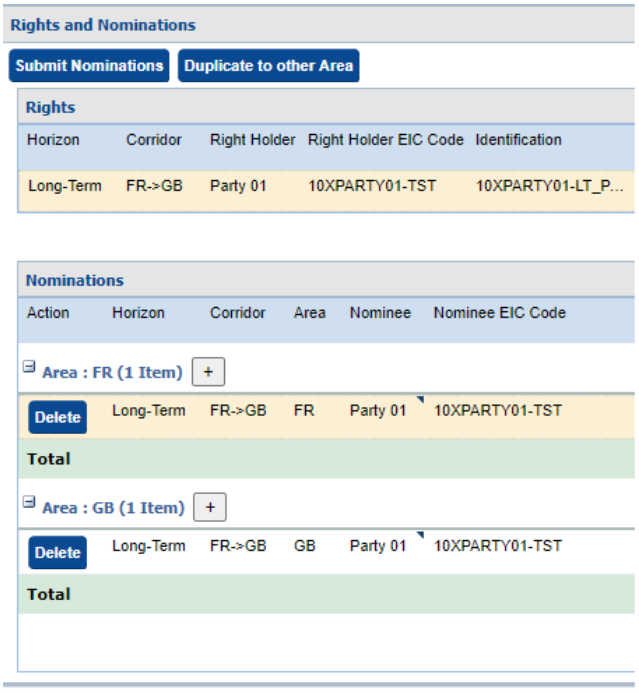


Figure 75: Rights and Nominations columns

In Rights section:

- **Horizon:** Long-Term, Day Ahead or Intraday.
- **Corridor:** Either FR->GB or GB->FR.
- **Right Holder:** The User's Market Participant name. This will be automatically selected in most cases.
- **Right Holder EIC Code**: The Right Holder's EIC code.
- **Identification:** The JAO auction's identification**.**

In Nominations section:

- **Action:** The User can delete a Nomination they have entered during a Nomination Gate by clicking **Delete**. See section 4.5.3.4.
- **Horizon:** Long-Term, Day Ahead, and Intraday.
- **Corridor:** Either GB -> FR or FR -> GB.
- **Area:** Import/export area of the nominated power flow. For FR -> GB, there will be one row for FR Area and one row for GB Area**.** The same applies for GB -> FR.
- **Nominee:** Nominee of the power flow in each Area.
- **Nominee EIC Code:** The nominating party's EIC code.

Users can use the standard column filtering on each individual column and/or select which hours to display by selecting any of the columns in the two screens. The default is 24 hours. See 3.2.3 – Columns filtering for more information.

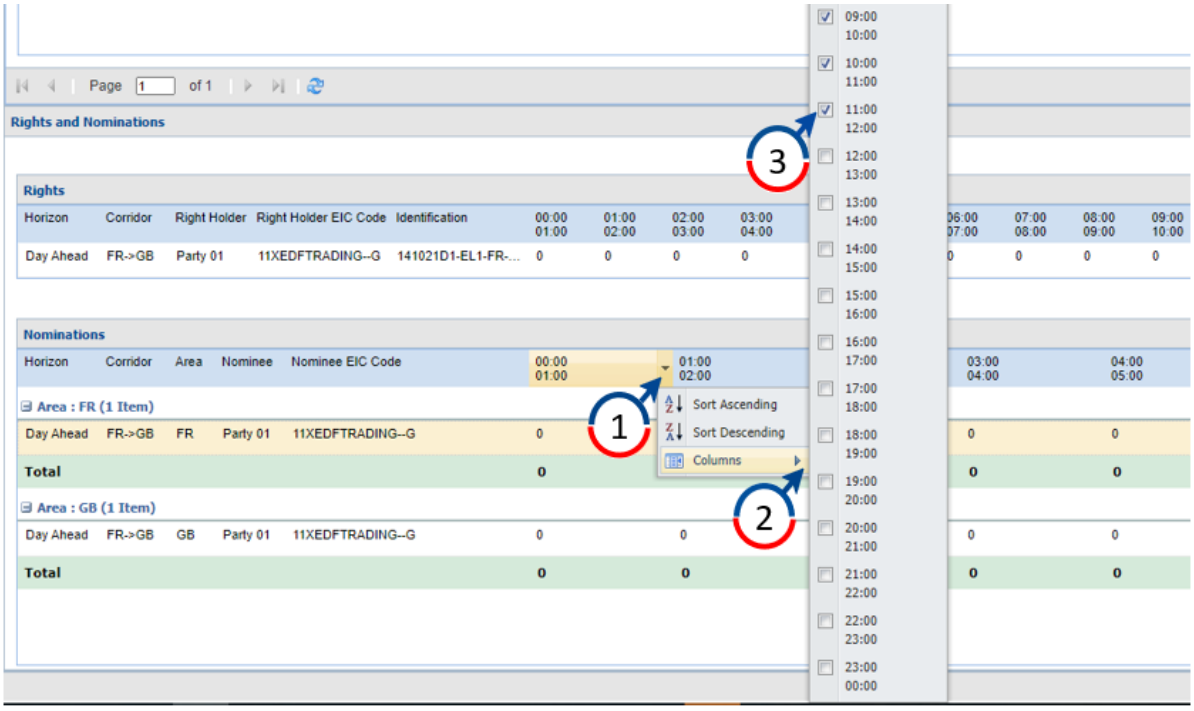


Figure 76: Column filtering

4.5.1 Latest Nomination Position

Market Participants can locate their latest nomination position via the Rights and Nomination widget. The most recently accepted nominations will be displayed in bold. This screen is updated following nominations across all four methods.

4.5.2 Nomination Areas

As mentioned, ElecLink's Neptune system is future proof for more advanced Nomination relationships that may arise with future improvements to the ElecLink Access Rules. To facilitate this, Users must enter their Nominations in the **Area:FR** and **Area:GB** rows. Each of the corresponding rows must have the same quantity.

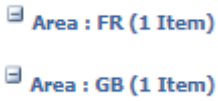


Figure 77: Area FR and GB

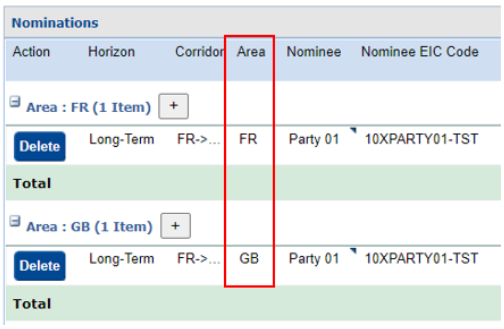


Figure 78: Rights & Nominations: Area column heading in the Nomination window.

If a User tries to submit a Nomination without the two **Areas** matching, an error message will appear:

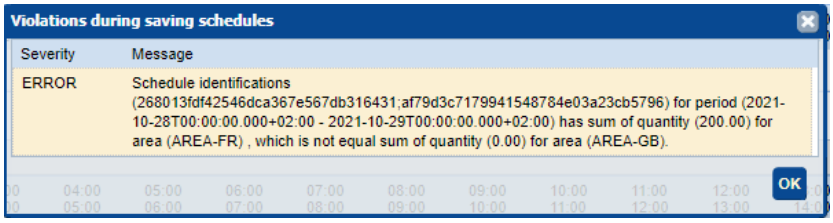


Figure 79: Error message submitting a Nomination without the two Areas matching

4.5.3 Inputting Nomination values

When submitting Nominations though the Nomination UI, Users have a variety of methods to increase efficiency and accuracy of the inputted values.

Users need to be aware that only positive whole numbers are allowed as inputs. If any other input is used the following warnings will appear:

- In case of character values.
- In case of negative values.
- In case of decimal values,

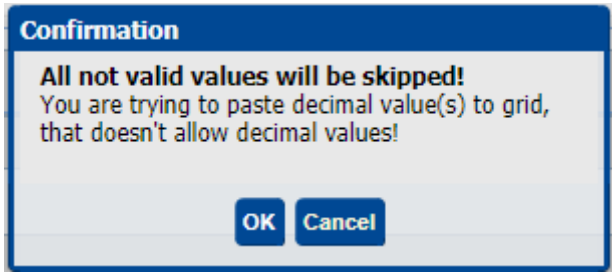


Figure 80: Example of Warning pop-up.

- 'Null' values are considered as 0 MW.

NOTE: If the User does not enter values for all hours within the period covered by the Nomination window, some hours will remain with 'Null'/empty values when submitting the Nomination.

- A warning pop-up will appear indicating that the hours containing null values will be considered as 0 MW values.
- A null value would appear as 0 MW value after saving.

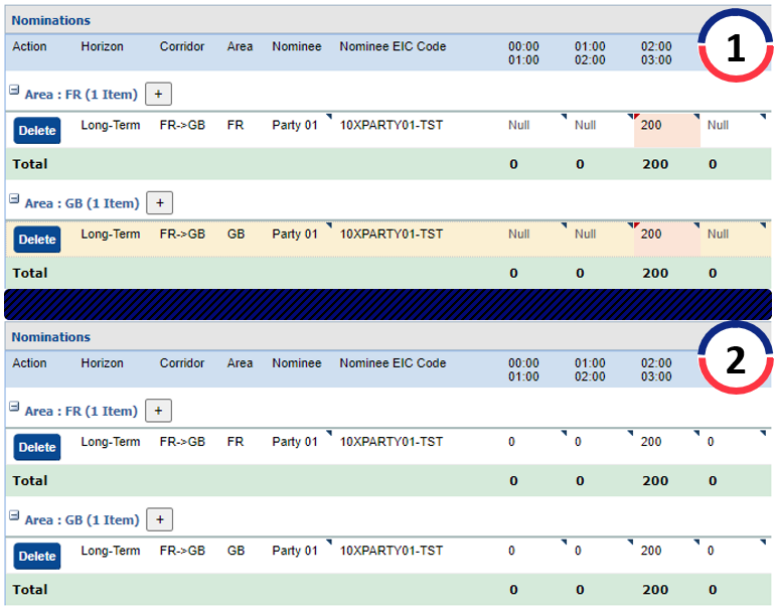


Figure 81: Saving and Submitting Nomination

1. Before saving a Nomination (top), and 2. after submitting the Nomination with Null values (bottom).

4.5.3.1 Duplicate to other Area

To easily copy values in either area, utilise the **Duplicate to other Area** button:

- Insert values for one of the Areas.

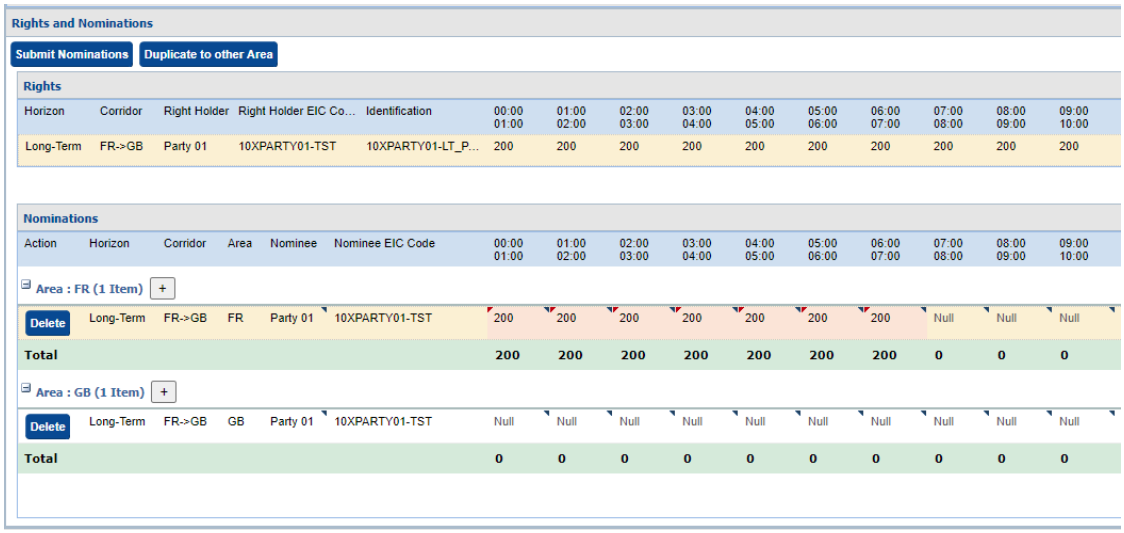


Figure 82: Nomination values entered

- Click the **Duplicate to other Area** button.

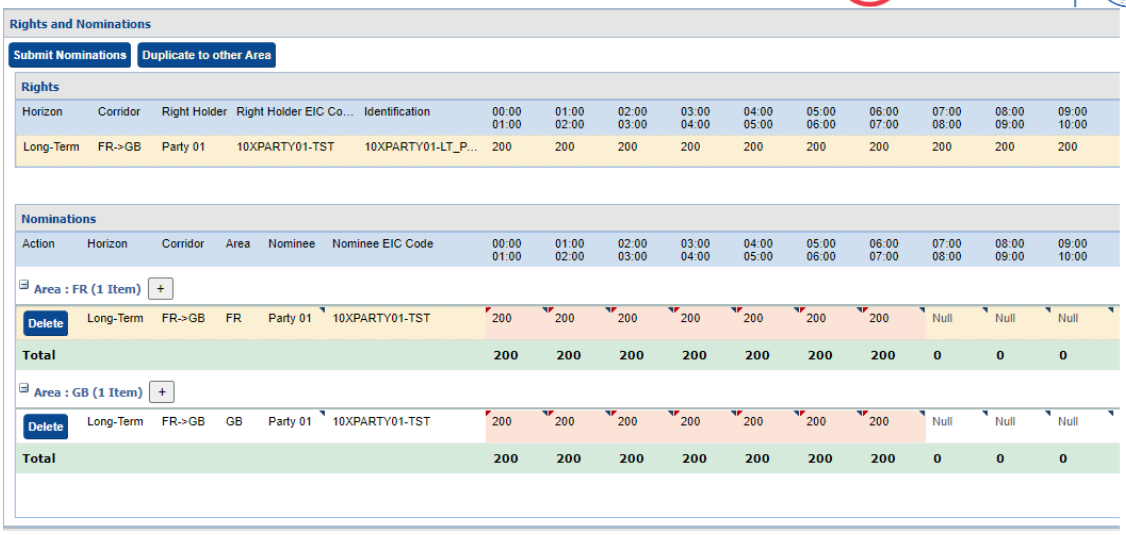


Figure 83: Duplicate entered values for the other Area

- The latest inputted cell values from one Area are copied across to the other Area.
- Submit the Nomination as usual by clicking the **Submit Nominations** button.

4.5.3.2 Copy/paste from Excel

Users can copy + paste from Excel into the UI to fill in Nomination quantities. Only positive whole numbers are allowed:

- Select and copy quantities from Excel:

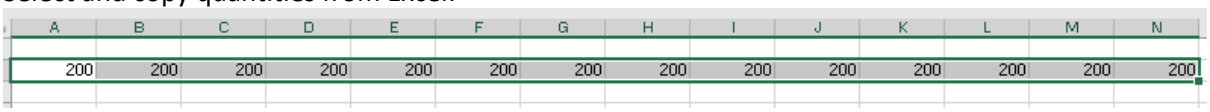


Figure 84: Row of numbers selected in Excel

- Go back to Neptune and select the corridor and period you wish to nominate for, by clicking in the cell of the first hour:
  - To copy + paste: Either right-click and select paste, or while in the Nomination cell press Ctrl + V.

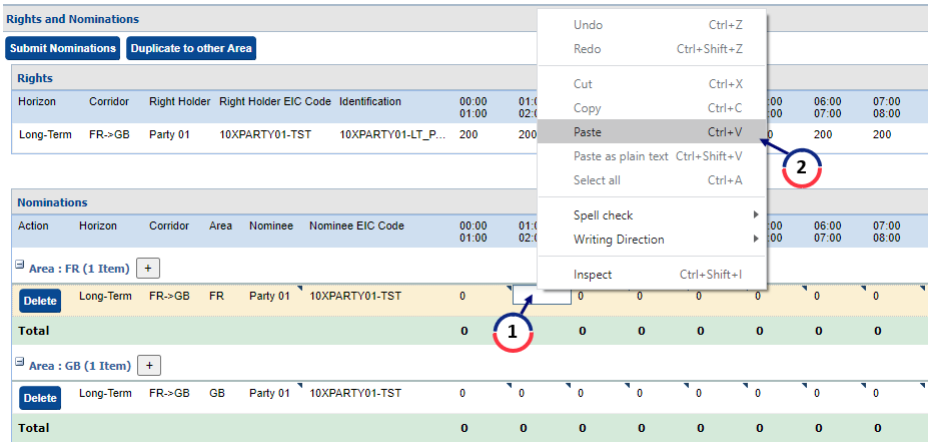


Figure 85: A Nomination hour selected in the Nomination screen.

- Paste values. A window appears with a preview of the values:

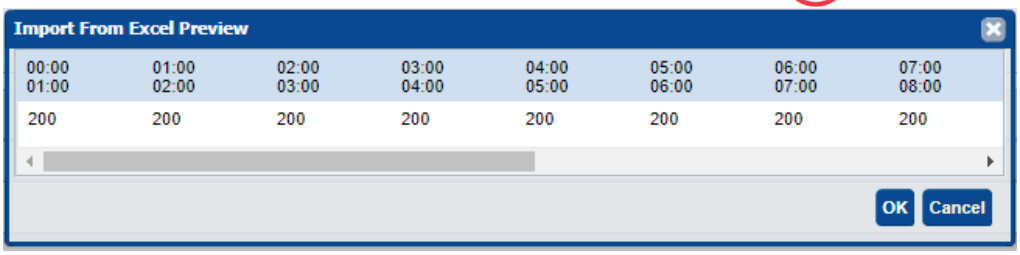


Figure 86: Import from excel prompt in Nomination screen

- Click **OK.**
- Values are pasted into the UI

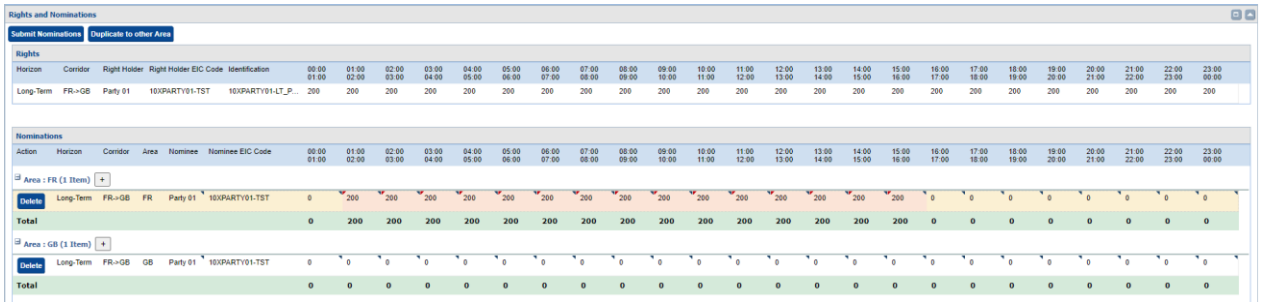


Figure 87: Pasted values from Excel in the Nomination UI

NOTE: If ever the number of values pasted exceeds the number of periods open for Nomination, the set of values will be truncated to match the periods that can be nominated.

4.5.3.3 Duplicating values automatically

To duplicate values entered in the Nomination grid:

- Enter a value in one of the cells.
- Right click on a cell and select one of the options:

4.5.3.3.1 Populate all

This option will copy the value in the cell and populate all the other cells for the corridor with the same value:

- Input a value to a cell by selecting it.
- Unselect the cell and right click.
- Select **Populate all**.
- All the cells for the corridor are now populated with the same cell value.

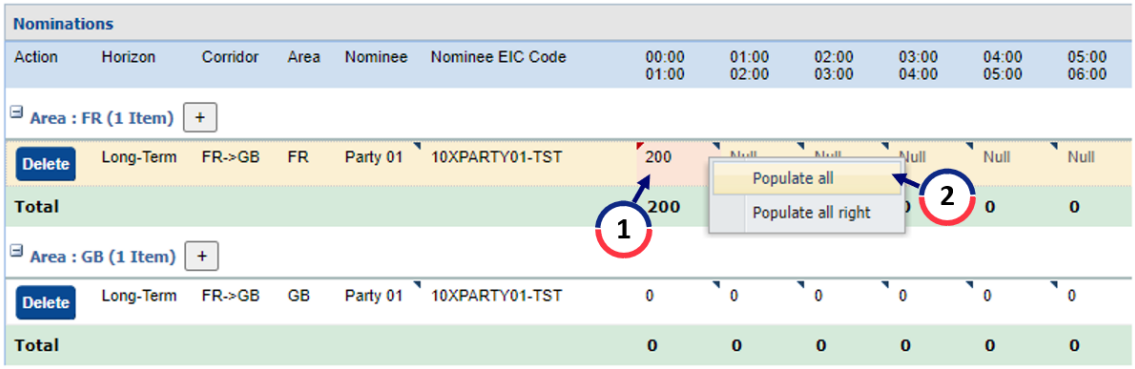


Figure 88: Populate All Button

4.5.3.3.2 Populate all right/Populate all left

- Input a value to a cell that has at least one cell to the right of it by selecting it.
- Unselect the cell and right click.
- Select **Populate all right** or **Populate all left**.
- All the cells to the right or left of the selected cells for the corridor are now populated with the same cell value.

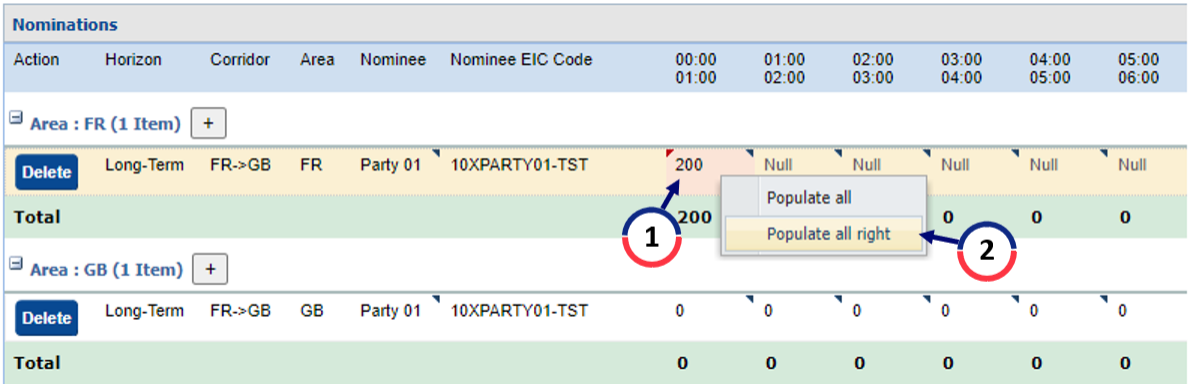


Figure 89:Populate All Right Button

4.5.3.3.3 Drag and drop values across

Users can also duplicate values by dragging and dropping a value across the Area input cells:

- Input a value to a cell.
- Unselect the cell by clicking outside of the cell.
- Select the cell again and drag the cell value across the other cells in the **Area** (the cursor will have a rectangle attached to it).
- The dragged value is now populated in the new cell.

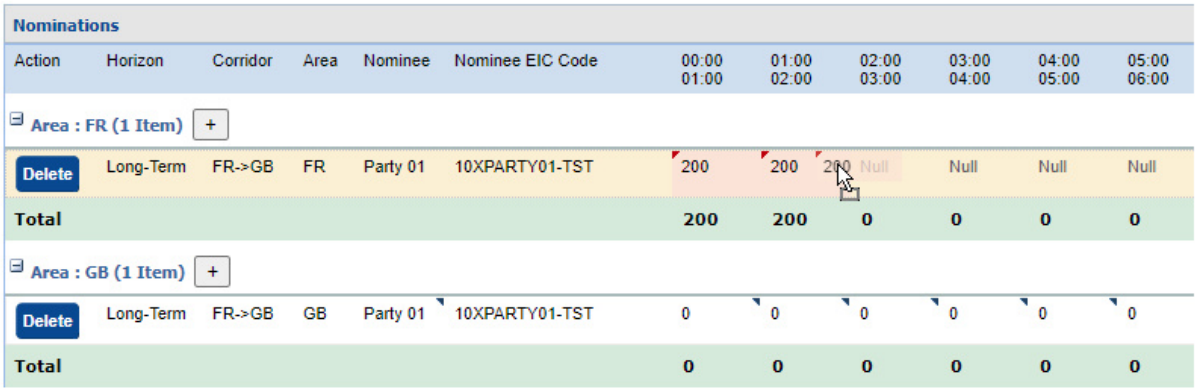


Figure 90: Drag and Drop

4.5.3.4 Delete inputted values

If you have inputted values into the Nomination cells but want to delete them, click the **Delete** button in the **Action** column for each area in the Nomination section.

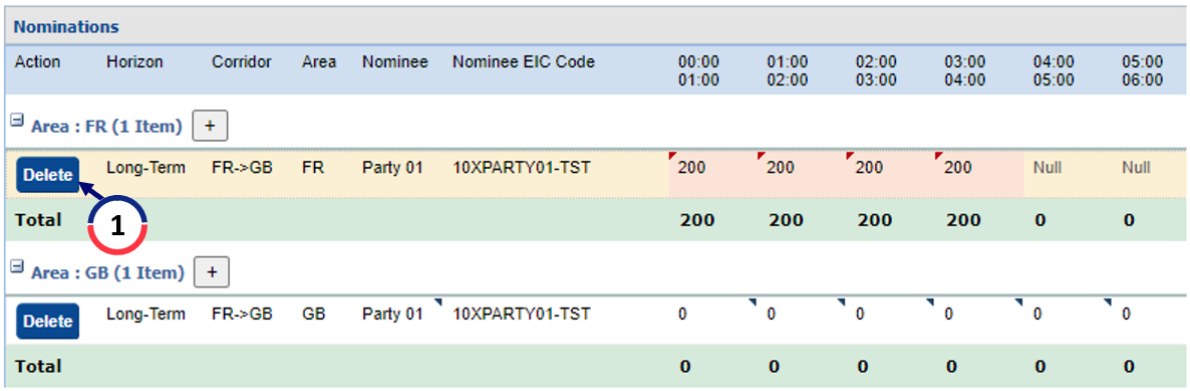


Figure 91: Using the delete button to delete inputted values.

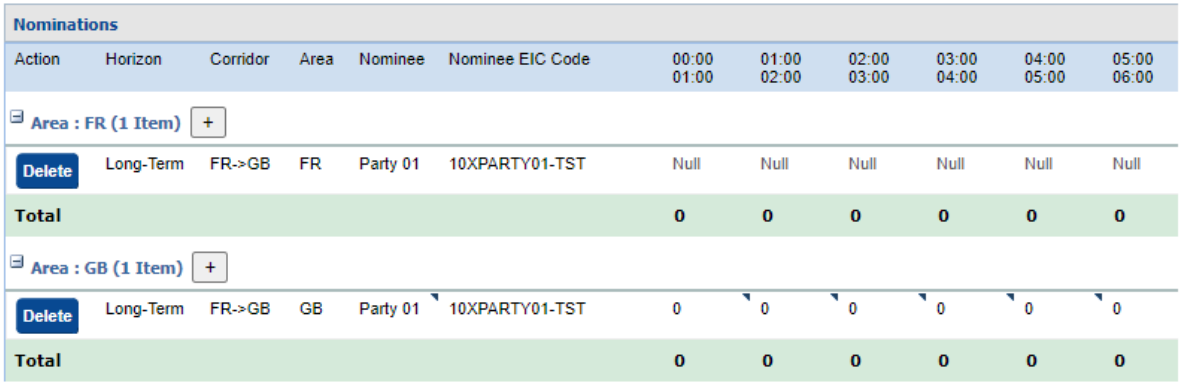


Figure 92: After clicking the delete button all entries for that Area are gone.

The **Delete** button also works to quickly clear a previously submitted Nomination for a Nomination Gate. Click **Delete** followed by the **Submit Nomination** button to submit a Nomination with 0 values.

To undo the deletion of a submitted Nomination, click the **Restore** button.

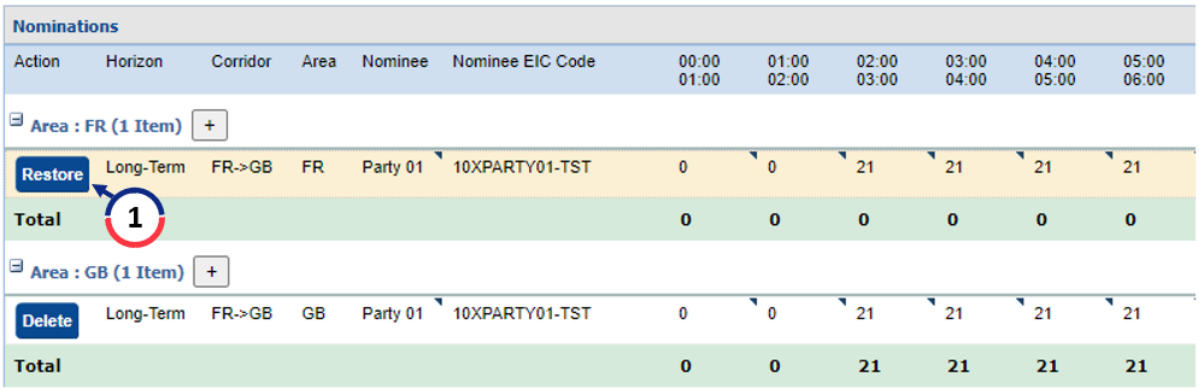


Figure 93: Restore Button.

4.5.4 Submitting the UI Nomination

- Click the **Submit Nomination** button to submit Nominations.
  - If any of the cells contain the word 'Null' when submitting the Nomination, a warning message will appear. By clicking **OK**, the cells marked as 'Null' will be converted to 0MW and this is the value that will be submitted in the Nomination.

Figure 94: Default warning message when submitting 'Null' values in Nominations.

  - If you have not filled in the same values for both corridors (**Area: FR** and **Area: GB**) a warning will appear specifying each nonmatching hour of the Nomination.
  - Another warning message will be prompted stating that you are about to submit a Nomination that is modified from the default ('Null') or previously submitted Nomination of the Nomination Gate:

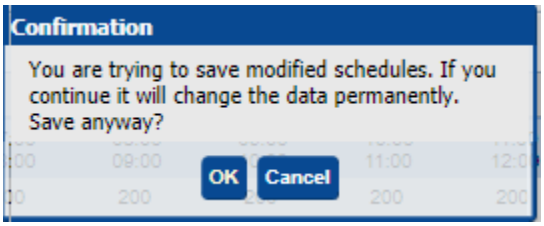


Figure 95: Default message when submitting a new Nomination into Neptune.

  - If you try to nominate a value that has already been submitted in previous version (either previously nominated value or default), the following error message will appear:

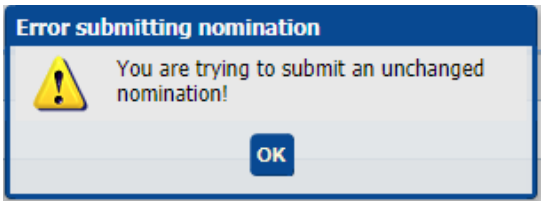


Figure 96: Error message for non-changed Nomination.

- Once submitted correctly, a confirmation of successfully submitting the Nomination will appear.
- After clicking **OK** on the confirmation message the values in both **Areas** (GB and FR) are now coloured white as opposed to orange before the Nomination was submitted.

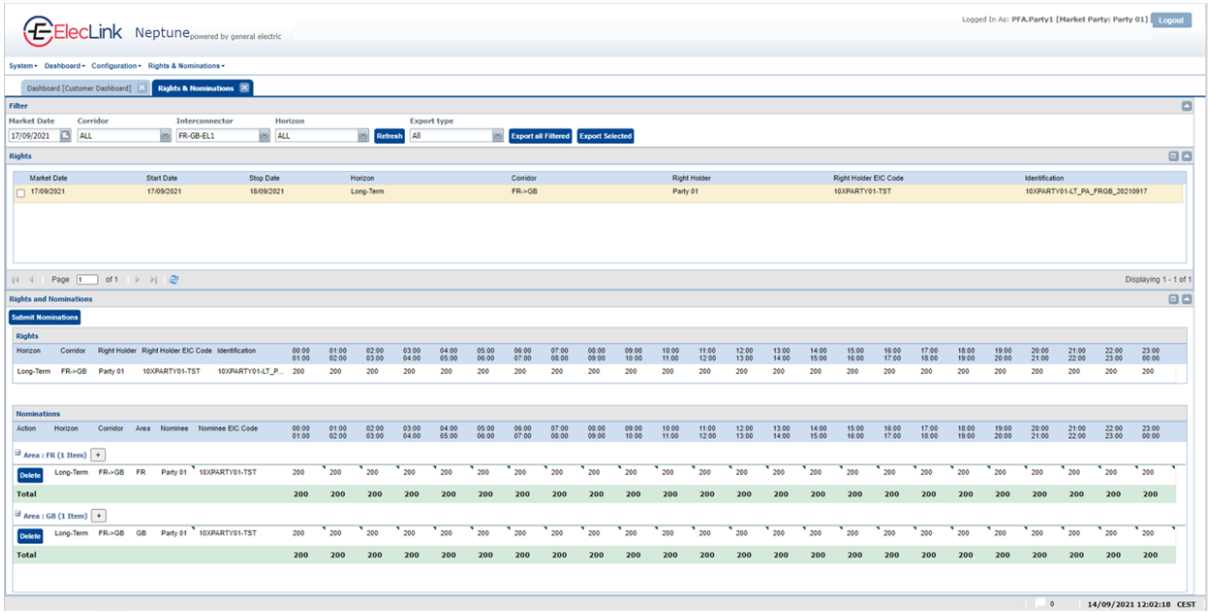


Figure 97: Nomination successfully submitted.

4.5.5 Submitting an Intraday UI Nomination

Submitting an Intraday Nomination in the Neptune UI is the same process as submitting a Long-Term or Day Ahead Nomination except only the hours available for Nomination for the open Intraday gate. As we have 6 IntraDay nomination gates, we have adopted a naming format so that MP's can easily identify the relevant nomination gate. The first IntraDay nomination gates are referred to as ID1.1, ID1.2 and ID.3 while the second auction nomination gates are referred to ID2.1, ID2.2 and ID2.3 and are displayed in white, unavailable hours are displayed in grey and cannot be nominated by the User.

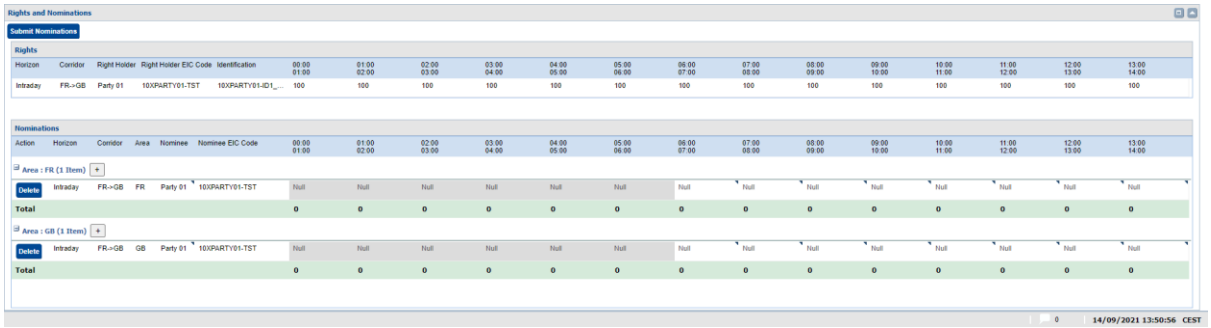


Figure 98 Unavailable hours in grey and available hours in white for Nomination Gate ID 2.1.

4.5.6 Example: Submitting a Nomination through the UI

To submit a Nomination via the UI for either Long-Term, Day Ahead or Intraday:

- Open the **Rights & Nominations** screen.

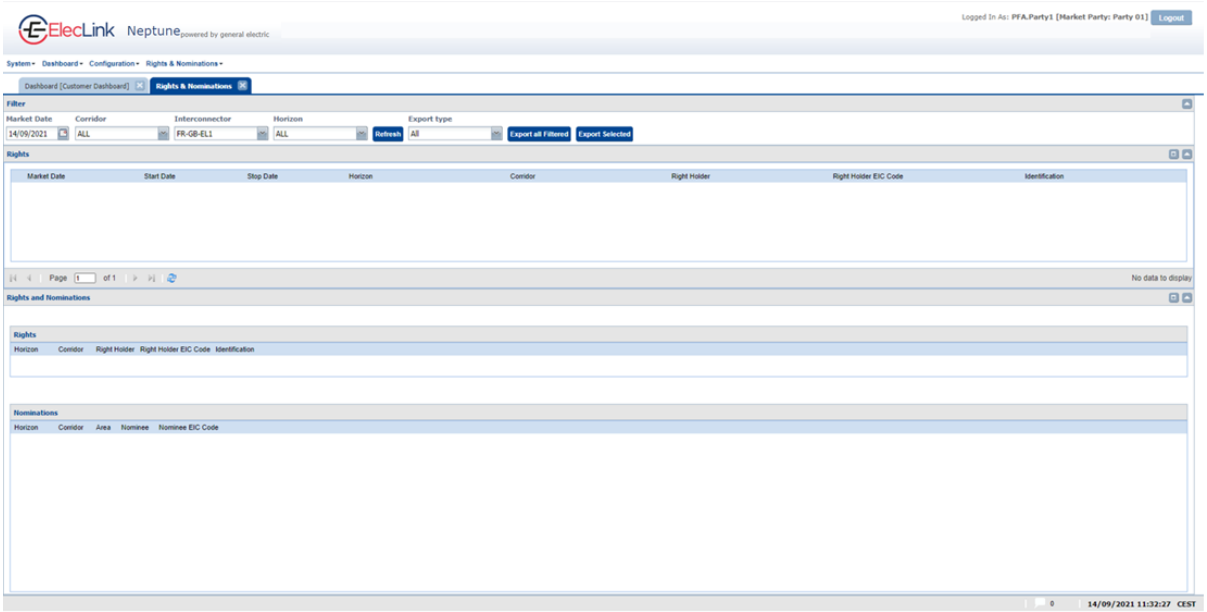


Figure 99: Rights & Nomination screen.

- Select the Market Date in the filter section, default Market Date is today, and click on the **Refresh** button. You the **Corridor** and **Horizon** if necessary.

Figure 100: Market Participant Rights for the selected Market Day.

- Upon selecting the related Rights for the opened Nomination Gate. The **Rights and Nominations** widget will be populated with the corresponding Rights (in MW) in the **Rights** widget and Nominations populated with 'Null' values in the **Nomination** widget for the Nomination Gate horizon. If Default Nominations are in the system for the selected date, these values will be visible in the **Nomination** widget. All 24 hours for Long-Term and day ahead Nominations are editable, however this is not the case for intraday.

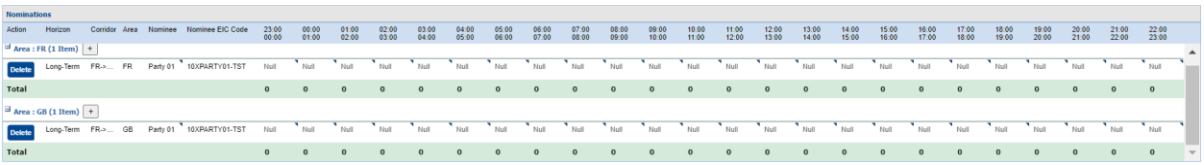


Figure 101: Nomination section of Rights and Nomination screen.

- To edit quantities for all hours for the Nominations:
  - Only positive whole numbers can be entered.
  - Use the **Duplicate to other Area** button to copy over values from one area to the other.

- Or use any other of the populate cells options available. See section 4.5.3 - for more information.

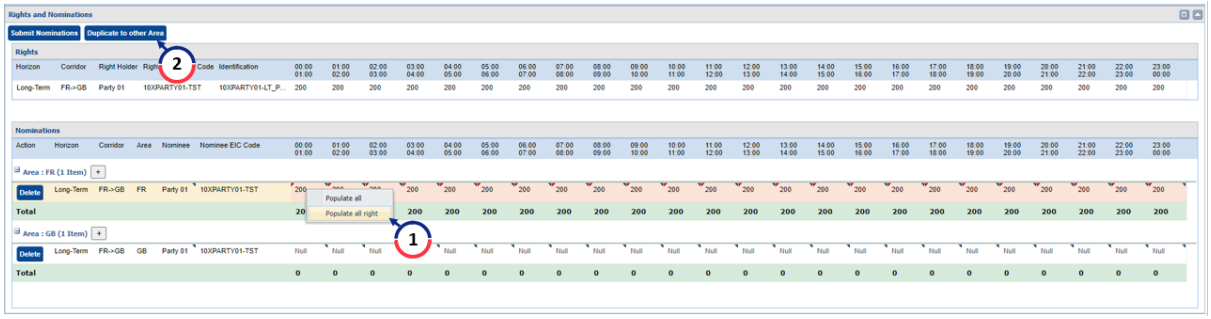


Figure 102: Edit Nomination quantities in Neptune UI.

- Enter Nomination values in both areas, the edited cells now have an orange background.
- To submit the Nomination, click the **Submit Nomination** button.
  - A warning will appear saying that the submitted Nomination will modify the last version, click **OK** as shown in the screenshot below.

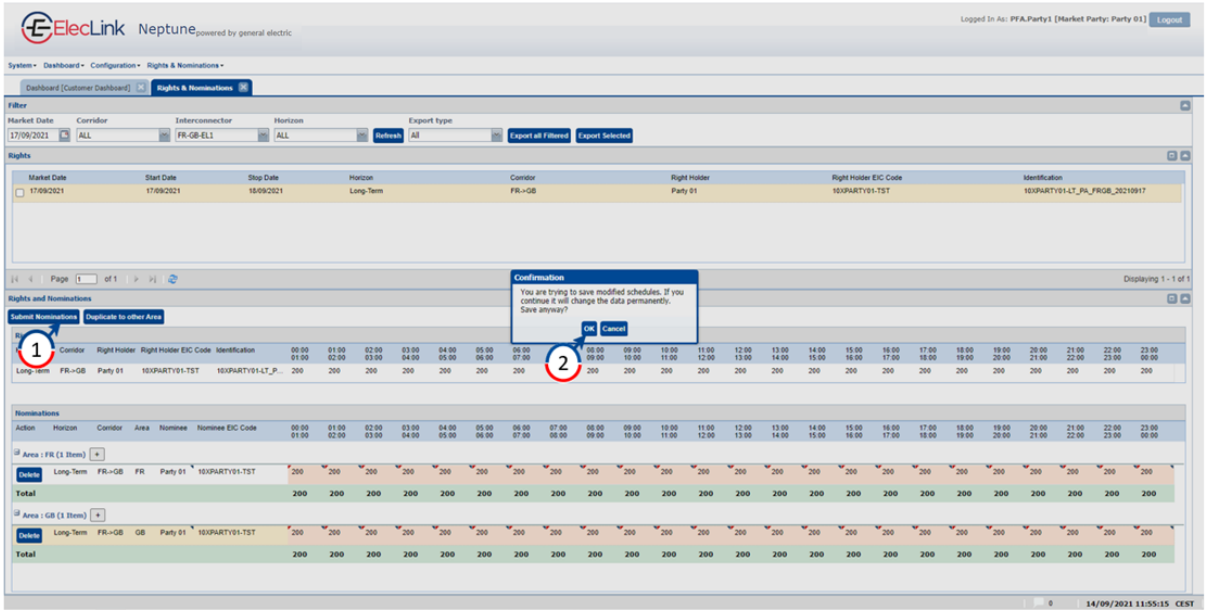


Figure 103: Submit Nomination.

- Another pop-up displaying that the 'Nomination Successfully Submitted' will appear. Click **OK**.

4.5.7 Confirmation nomination position prior to nomination gate closure

Market Participants will be able to see the latest nomination status can be found in the bold line on the Rights and Nomination screen

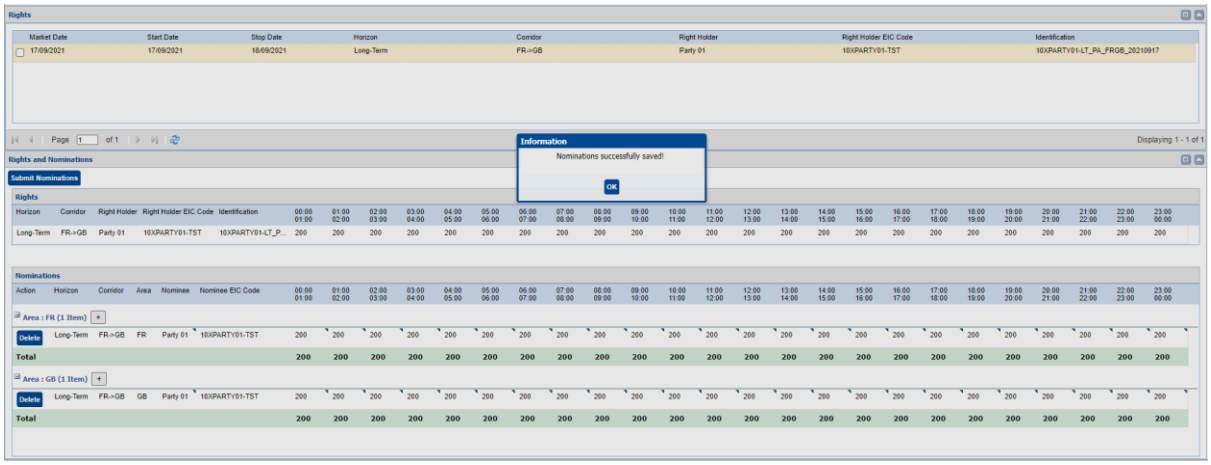


Figure 104: Nomination Successfully Saved

- In the **Rights & Nomination** screen, the cells go from an orange colour to white:

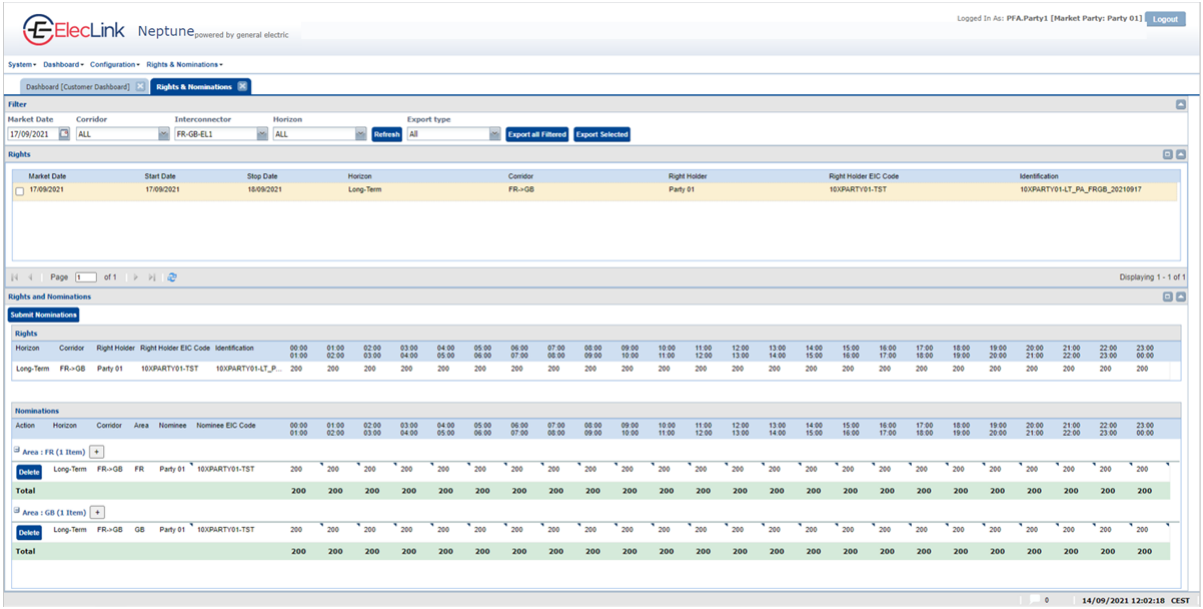


Figure 105: Cells are coloured white after a successful Nomination submission.

4.6 Nominating through the File Management widget

Users can upload Nominations as an XML document – refer to the xsd mapping in Appendix A for details. To update an already submitted Nomination, Users can upload a new version of the document with an incremented version number in the XML document.

NOTE: Revision numbers only apply to XML file uploads and Nominations through Web Services. Default Nominations and Nominations submitted through the UI do not use or affect existing revision numbers in the system.

To submit a document, click on the **Upload** button in the File Management widget, select the file from local drive, and press **OK** to upload the file.

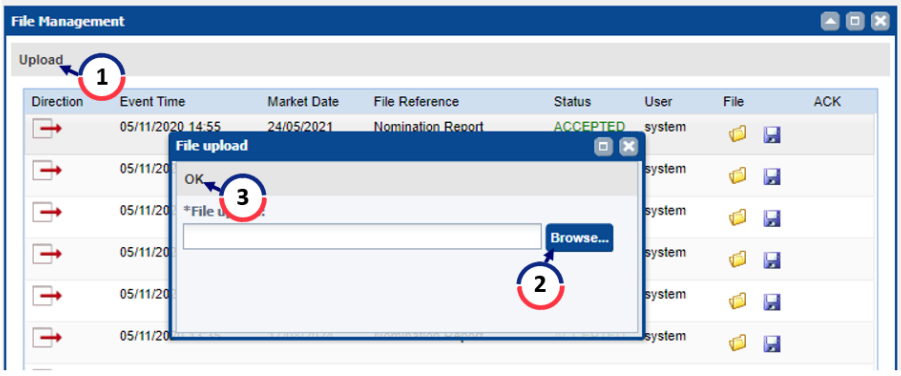


Figure 106: Uploading a file in the File Management window

If the upload is successful, the file will appear in the File Management as Accepted. Both the file and the acknowledgment will be accessible through the File Management widget (using the folder icon) and are available to download, using the **save** button.

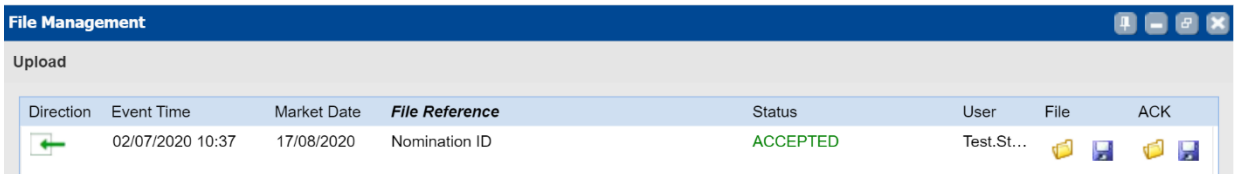


Figure 107: Successfully uploaded file displayed in the File Management window

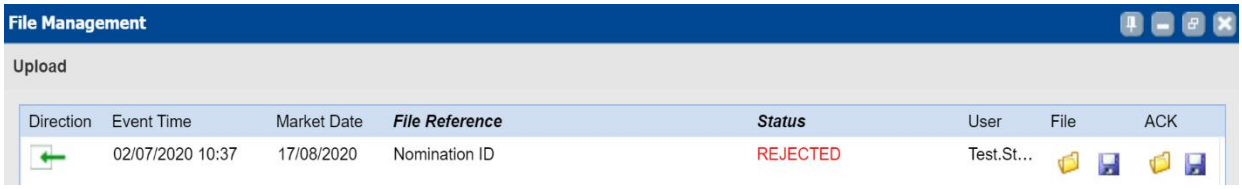


Figure 108: Rejected file displayed in the File Management Window

In case a file is rejected, the acknowledgement (ACK) will state that there has been a failure. It will provide details on the failure.

Document

ACKNOWLEDGEMENT MESSAGE

Message Identification	Date and Time	Receiving Message Identification	Receiving Message Version
ACK_4969490484251141	2019-10-23T07:27:15Z	LTNOM_TestBook_Party01_0151	3

Receiving Payload Name	Receiving Document Type	Receiving Document Process Type
LT Nomination_Party01_File01.xml	Balance responsible schedule	

Sender	Role	Receiver	Role
48X000000000101E	SO	10XPARTY01-TST	ITR

MESSAGE ACKNOWLEDGEMENT STATUS

Reason Code	Reason Title	Reason Text
A02	Message Fully Rejected	Message Fully Rejected

Reason Code	Reason Title	Reason Text
A02	Message Fully Rejected	A81: Document MRID (LTNOM_TestBook_Party01_0151) period (2019-10-19T22:00Z/2019-10-20T22:00Z) time interval has no opened gate. Event (LT Nomination Gate Opening) has not been triggered.

GLOBAL TIME SERIES INTERVAL ERRORS
TIME SERIES THAT HAVE BEEN REJECTED OR MODIFIED

Figure 109: Nomination rejected due to Nomination Gate not open

4.7 Web Services Nominations

Web Service client access is intended for automated exchanges between the Market Participant's Information Systems and Neptune.

Sample Web Service requests are provided in the development kit for Users developing these interfaces. The following details apply for Nomination request submission:

Operation Name	SubmitNominationDocument
Request Parameter	One CIM Schedule Document (*iec62325-451-2-schedule_v5_1*) containing the Participant's Nominations. See Appendix A for xsd mapping details, and the development Kit for the xsd and sample requests.
Response	One CIM Acknowledgement Document (*iec62325-451-1-acknowledgement_v8_0*) containing the Neptune response to the Nomination, either Positive or Negative. See Appendix A for xsd mapping details, and the development Kit for the xsd and sample requests.
Error	Some processing errors may result in a SOAP Fault response rather than an ACK. The Market Participant's *Nomination Service* client must handle SOAP Faults.

Table 5: Web Services SubmitNominationDocument overview

4.8 Nomination Reports

To receive a Nomination Report, the User must have submitted a Nomination within a Nomination Gate and the Nomination Gate must have closed. There will be no Nomination Report generated if a Nomination was not submitted for that Nomination horizon, e.g., long-term or day ahead Nominations.

For Intraday Nomination horizons, Nomination Reports follows the intraday auction horizon. E.g., if a User has submitted a Nomination for ID 1.1 Nomination Gate, the User will receive a Nomination Report upon closure of Nomination Gates ID 1.1, ID 1.2 and ID1.3 as these are in the same Nomination horizon.

4.8.1 Querying Nomination Reports using Web Services

Users can interact with Neptune via Web Services through a request and receive a Nomination Reportas a response using one of the three requests.

3.8.1.1 QueryNominations Operation

Operation Name	queryNominations
Request Parameters	**sender_MarketParticipant.mRID**: **Mandatory** - This is the EIC code of a Market Participant who must be registered in Neptune - The User sending the request must be associated to the Market Participant specified in the request **marketDay:** **Mandatory** - Expected format: YYYY-MM-DD **inArea.mRID:** **Mandatory** - Either GB or FR area for ElecLink interconnector (**10YGB----------A** / **10YFR-RTE------C**) **outArea.mRID:** **Mandatory** - Either GB or FR area for ElecLink interconnector (**10YGB----------A** / **10YFR-RTE------C**) **domain.mRID:** **Mandatory** - ElecLink interconnector EIC Y domain code: **10Y1001C--000344** **marketAgreement.type:** **Optional**

	- To be specified if User is requesting a report with Nominations referring to one specific time horizon:
	  ○ Long-Term Nomination(s) - **A06**
	  ○ Day ahead Nomination(s) - **A01**
	  ○ Intraday Nomination(s) - **A07**

Response	One CIM Schedule Document (*iec62325-451-2-schedule_v5_1*) containing Nomination information according to request parameters
Error	Some processing error may result in a SOAP Fault response rather than an ACK. *Nomination Service* client must handle SOAP Fault
Note	As this report can be heavy, a limitation has been set to 1 query per minute per user

Table 6: Nomination request parameters

3.8.1.2 QueryNominationReports Operation

User can request multiple nominations reports within a specific period:

Operation Name	queryNominationReports
Request Parameters	**sender_MarketParticipant.mRID**: **Mandatory** - This is the EIC code of a Market Participant who must be registered in Neptune - The User sending the request must be associated to the Market Participant specified in the request **periodStart:** **Mandatory** - Expected format: YYYY-MM-DD **periodStop:** **Mandatory** - Expected format: YYYY-MM-DD **inArea.mRID:** **Mandatory** - Either GB or FR area for ElecLink interconnector (**10YGB----------A / 10YFR-RTE------C**) **outArea.mRID:** **Mandatory** - Either GB or FR area for ElecLink interconnector (**10YGB----------A / 10YFR-RTE------C**) **markeAgreement.mrID:** **Optional** - mrID of the corresponding rights. **marketAgreement.type:**

	Optional
	- To be specified if User is requesting a report with Nominations referring to one specific time horizon:
	  ○ Long-Term Nomination(s) - **A06**
	  ○ Day ahead Nomination(s) - **A01**
	  ○ Intraday Nomination(s) - **A07**

Response	One CIM Schedule Document (*iec62325-451-2-schedule_v5_1*) containing multiple Nominations information according to request parameters
Error	Some processing error may result in a SOAP Fault response rather than an ACK. *Nomination Service* client must handle SOAP Fault
Note	As this report can be heavy, a limitation has been set to 1 query per minute per user

Table 7: Nomination request parameters

3.8.1.3 QueryNominationInGate Operation

User can request nominations report within nomination gates.

Operation Name	queryNominationsInGate
Request Parameters	**marketDay:** **Mandatory** - Expected format: YYYY-MM-DD **controlArea.mRID:** **Optional** - Either GB or FR area for ElecLink interconnector (**10YGB----------A** / **10YFR-RTE------C**) If no value if specified, GB control area is returned by default
Response	One CIM Schedule Document (*iec62325-451-2-schedule_v5_1*) containing Nomination information according to request parameters
Error	Some processing error may result in a SOAP Fault response rather than an ACK. *Nomination Service* client must handle SOAP Fault
Note	As this report can be heavy, a limitation has been set to 1 query per 5 minutes per user

Table 8: Nomination request parameters

4.8.2 Using the File Management

Once a Nomination Gate closes, the system automatically generates a Customer Report which is available for download through the File Management.

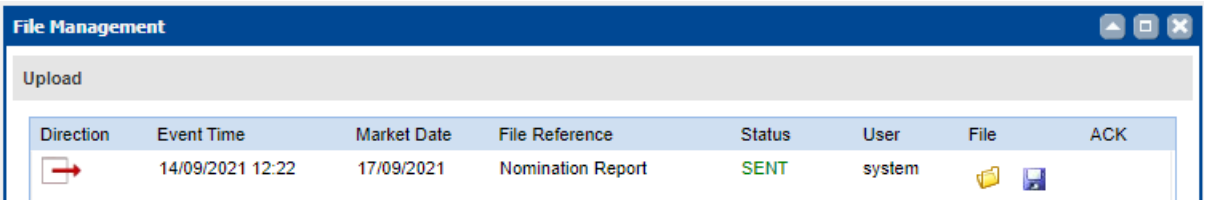
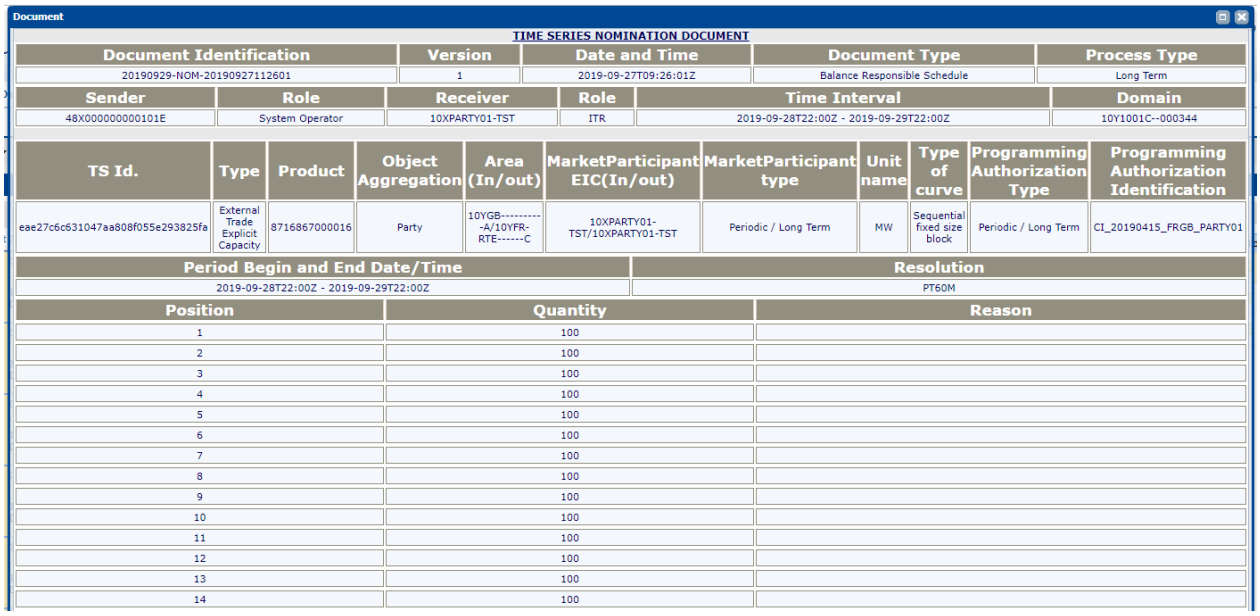


Figure 111: Viewing a Customer Report in the File Management window

Users can either display the report within the application by clicking the **Open** icon or download it as an XML file by clicking the **Save** icon.



Document

TIME SERIES NOMINATION DOCUMENT

Document Identification	Version	Date and Time	Document Type	Process Type
20190929-NOM-20190927112601	1	2019-09-27T09:26:01Z	Balance Responsible Schedule	Long Term

Sender	Role	Receiver	Role	Time Interval	Domain
48X000000000101E	System Operator	10XPARTY01-TST	ITR	2019-09-28T22:00Z - 2019-09-29T22:00Z	10Y1001C--000344

TS Id.	Type	Product	Object Aggregation	Area (In/out)	MarketParticipant EIC(In/out)	MarketParticipant type	Unit name	Type of curve	Programming Authorization Type	Programming Authorization Identification
eae27c6c631047aa808f055e293825fa	External Trade Explicit Capacity	8716867000016	Party	10YGB---------A/10YFR-RTE------C	10XPARTY01-TST/10XPARTY01-TST	Periodic / Long Term	MW	Sequential fixed size block	Periodic / Long Term	CI_20190415_FRGB_PARTY01

Period Begin and End Date/Time	Resolution
2019-09-28T22:00Z - 2019-09-29T22:00Z	PT60M

Position	Quantity	Reason
1	100	
2	100	
3	100	
4	100	
5	100	
6	100	
7	100	
8	100	
9	100	
10	100	
11	100	
12	100	
13	100	
14	100	

Figure 112: On screen Customer Report in Neptune

An example of a Customer Report file in xml format can be found in the developer kit.

4.9 Other notifications and events in Neptune

4.9.1 Nomination Gate cancellation

In exceptional circumstances a Long-Term Nomination Gate can be cancelled. This can occur both within the Nomination Gate or after it has ended. In both cases Users will receive a notification alert from Neptune and any Nominations existing in the system will be amended to 0.

Day Ahead and Intraday Nomination Gate (for the corresponding Rights) can also be cancelled up to the Nomination Gate closure time. They cannot be cancelled after the Nomination Gate closure time. In both cases Users will receive a notification alert from the system and any existing Nominations will be amended to 0.

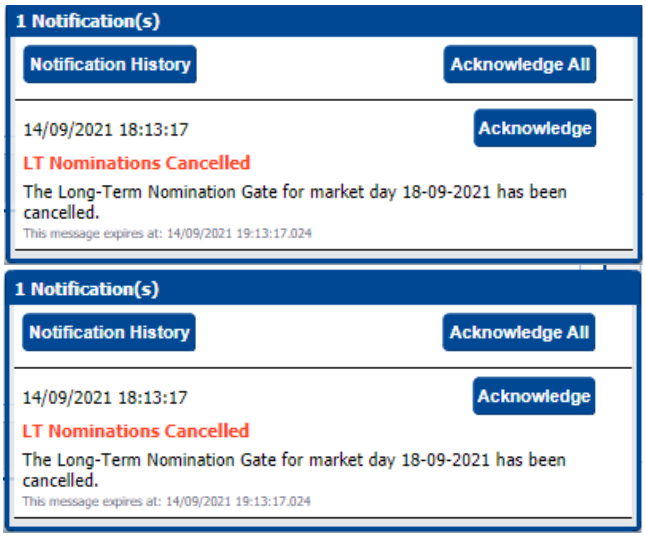


Figure 113: Neptune Day Ahead Auction cancellation notification

4.9.2 Curtailment

4.9.2.1 Curtailment of Rights

If ElecLink's Net Transfer Capacity (NTC) is reduced during the Nomination Gate, JAO will issue a new Rights Document. Neptune checks existing Nominations in the system and curtails any Nomination which exceeds the new Rights Document. Market Participant Users will receive notifications/alerts from Neptune in email, on-screen and SMS (subject to these being configured for the User) when this happens.

Figure 114: On-screen Notification when Nominations are reduced

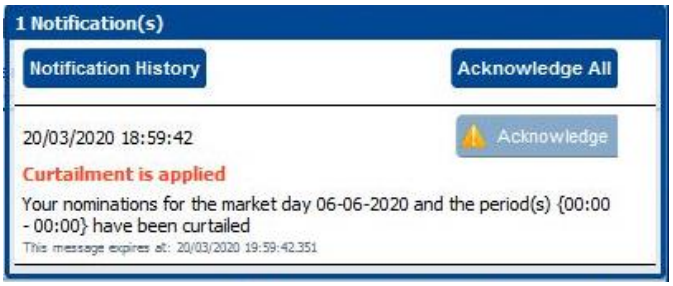


Figure 115: Example of an on-screen Notification when Nominations are curtailed.

4.9.3 Auction Cancellation

Users will receive an on-screen notification if a Day Ahead or Intraday Auction is cancelled after a Nomination for that specific auction period has been submitted in Neptune. The Nomination will be converted to zero.

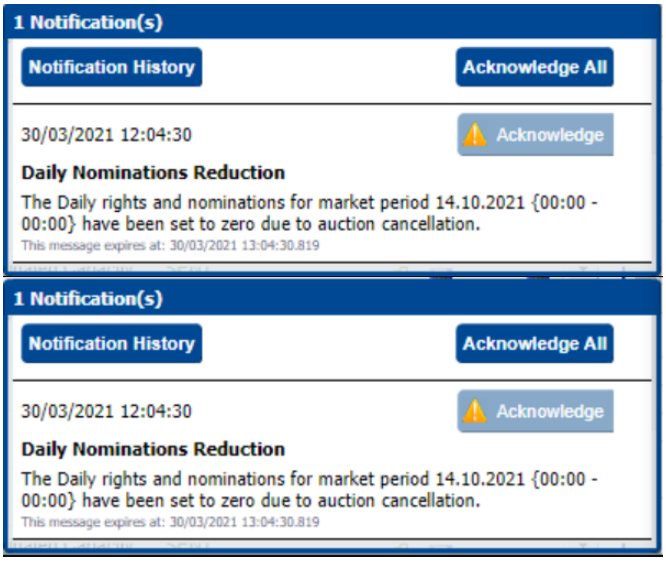


Figure 116 Day Ahead Auction Cancellation

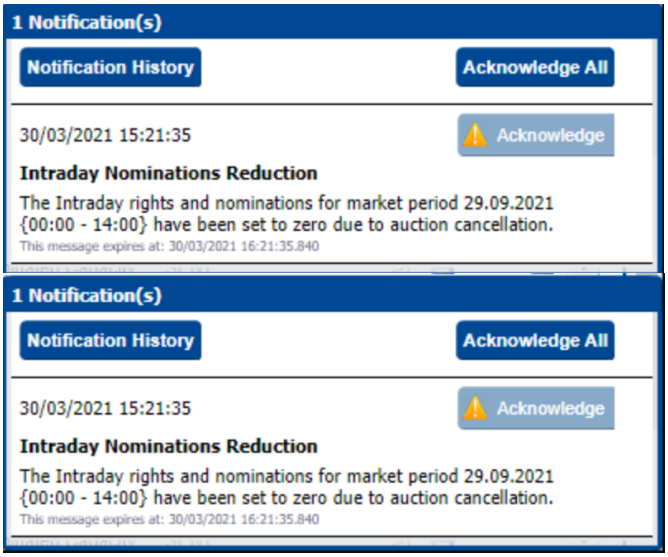


Figure 117 Intraday Auction Cancellation

4.9.4 Daylight saving time

Neptune delivery periods are based on CET/CEST time, meaning that during the year, adjustments to daylight saving are occurring on the last Sunday in March (Short Day (23 hours) and the last Sunday in October (Long-Day (25 hours)). The time change occurs at 02:00 CE(S)T for both days, which has an impact on the Nomination Gates in Neptune and Period Time Interval Start and End times in a Nomination File. Users should check the ElecLink Access Rules on the ElecLink website and the Nomination Gate Opening and Closing times in their calendar in Neptune in advance of these clock change days.

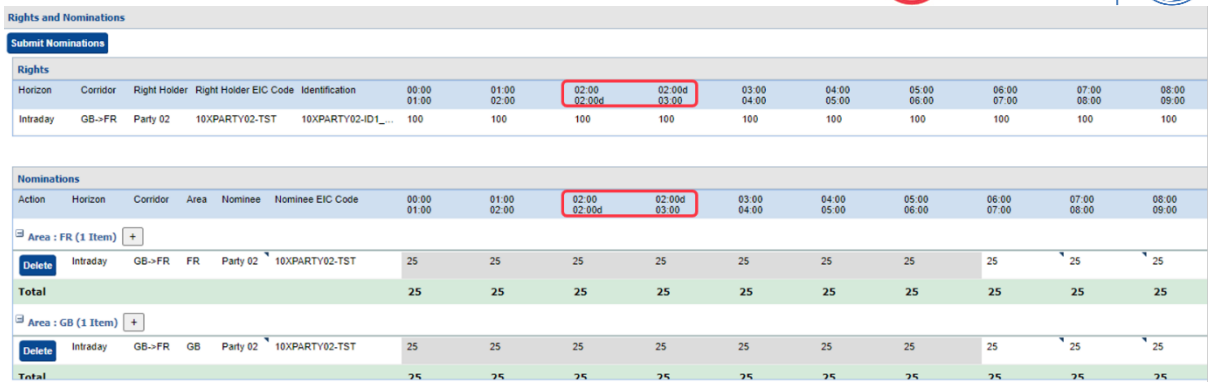


Figure 118: Time columns for Intraday Nominations for 25-hour day

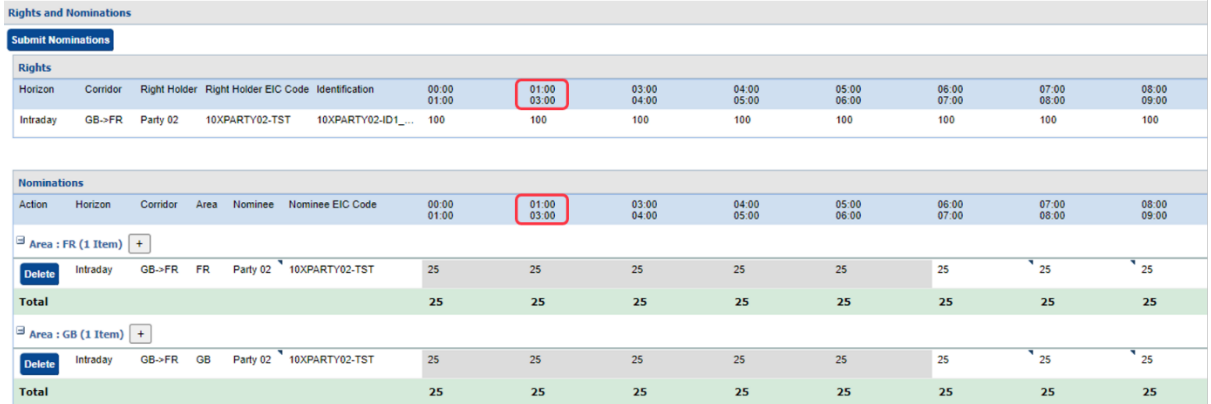


Figure 119: Time columns for Intraday Nominations for 23-hour day

4.9.5 Neptune system downtime

From time-to-time Neptune will need periodic maintenance, although we are trying our upmost to keep this time to the absolute minimum and will communicate all our planned system downtime to all Users. The Neptune platform will display the following message upon connecting to the platform:

Figure 120: Neptune Downtime

5 ElecLink Data Website

The ElecLink data website publishes ElecLink's commercial data as originated in Neptune and is updated continuously as Neptune events occur, the website is accessible via data.eleclink.co.uk.

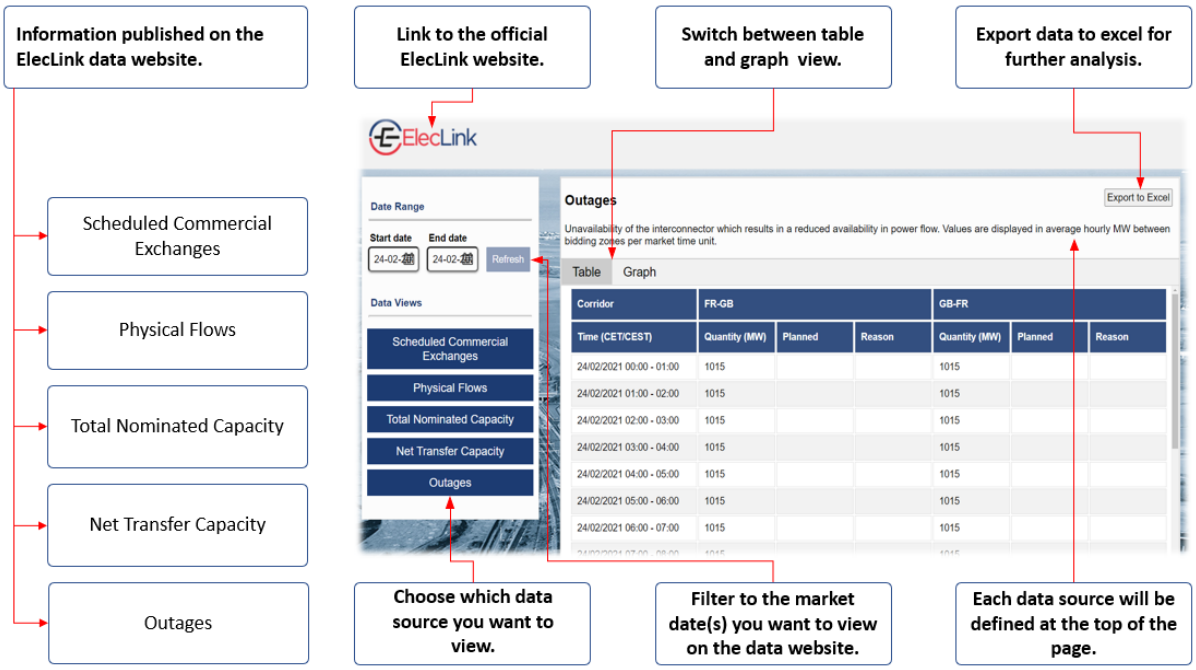


Figure 121: Data displayed on the ElecLink data website.

Data	Value
Data availability on the website	14 months of historic data on a rolling basis.
Minimum download quantity	One market day.
Maximum download quantity	Three months.
Physical Flow updates	Every hour.
Schedule Commercial Exchange and total Nominated capacity updates	After each Nomination Gate closure.
Outage update	When a planned or unplanned outage is triggered in Neptune.
Outage Reason Codes	A97 = force majeure curtailment (FM) A98 = network security curtailment (OS) B26 = emergency curtailment (ES)
Net Transfer Capacity update	• Updated for a year with an annual auction. • Updated every Friday at 10:00 CE(S)T for the following week.

	• Updated at 12:00 for a Market Day two days in the future. • Updated when an outage is triggered in Neptune.

Table 9: Data description on the ElecLink data website

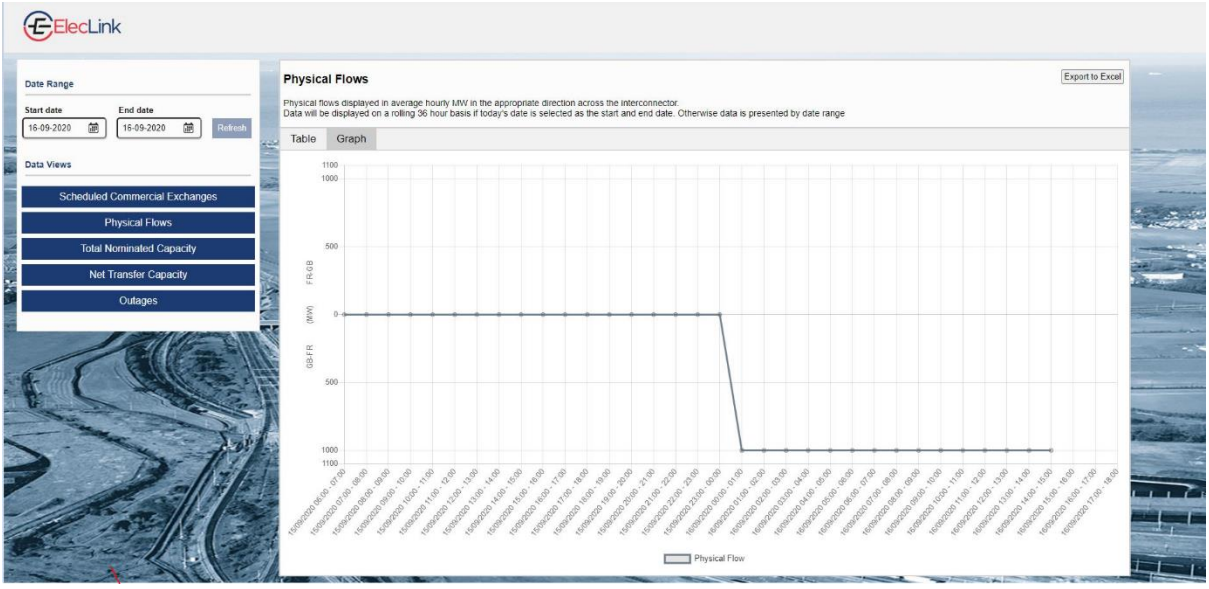


Figure 122: Live Physical Flow graph on the data website.

5.1 Public Data API

The data on the website is also available as a JSON file. The format of the URL to access this is:

URL format : http://data.eleclink.co.uk/data/**Year**/**DataSource**/**Date**-**DataSource**.json

Example: http://data.eleclink.co.uk/data/**2022**/**TNC**/**2022-01-01**-**TNC**.json

JSON filename format			
Year	YYYY	**Date**	YYYY-MM-DD
Data Source	**TNC** for Total Nominated Capacity, **SCEX** for Scheduled Commercial Exchange, **NTC** for Net Transfer Capacity, **MPTC** for Outages, and **PF** for Physical Flow.		

6 Error reporting and feedback

If a User encounters any irregularities or has general feedback about the Neptune system, please contact us and give as much detailed information as possible about:

- The time when the incident occurred.
- The affected Neptune User.
- The action the User was trying to perform; and
- Any resulting error codes and screenshots if available.

Please contact us by email at: Team.Eleclink@eleclink.co.uk

7 Development kit and Neptune environments:

7.1 Web Services API

Neptune provides Users with the ability to connect their information system to Neptune via a Web Service API.

Before using the Web Service, a User must be registered, Certificate and credentials obtained – refer to chapter 3.4 User Management.

There are two Web Services available:

- *submitNominationDocument* for submitting Nomination requests to the Neptune System (refer to 4.7)
- *queryNomination* for querying one Nomination report (refer to 4.8.1)
- *queryNominationReports* for querying multiple Nomination reports (refer to 4.8.1)
- *queryNominationInGate* for querying Nominations while the Nomination gate is open (refer to 4.8.1)

7.2 Web Services Development Kit

Development kit: *ENP-UG-02-Nomination Service Dev Kit 2.0*

A Web Services Development Kit will be provided to assist in developing Web Service interfaces. It includes the following:

- Nomination Web Service WSDL
- *submitNominationDocument* request example
- *submitNominationDocument* response examples (ok, unauthorised User, no Rights found, Nomination Gate already closed)
- *queryNomination* request example
- *queryNomination* response examples (ok, unauthorised User, no Nominations found)*queryNominationReports* request example
- *queryNominationReports* response examples (ok, unauthorised User, no Nominations found)
- *queryNominationInGate* request example
- *queryNominationInGate* response examples (ok, unauthorised User, no Nominations found)
- Document mapping/xsd

7.3 Test Environment

For testing Web Service implementations and to ensure Users can submit Nominations and receive Nomination reports, ElecLink can grant temporary access to the Neptune test platform. Please contact the ElecLink Team to request access by sending an email to Team.ElecLink@ElecLink.co.uk. file.

Name	URL
Neptune Test system	https://test.neptune.eleclink.co.uk
Neptune Test data website	http://test.data.eleclink.co.uk

Neptune Test Web Service WSDL	https://test.neptune.eleclink.co.uk/web-server/api/soap/ElecLinkNominationService/v1?wsdl
Neptune Test Web Service endpoint (Test system or Isolated test environment named Acceptance)	https://acc.neptune.eleclink.co.uk/web-server/api/soap/ElecLinkNominationService/v1 https://test.neptune.eleclink.co.uk/web-server/api/soap/ElecLinkNominationService/v1
The request must include your Neptune log in credentials (Basic Authentication) as well as your associated SSL certificate	

7.4 Production Environment

Name	URL
Neptune Production system	https://neptune.eleclink.co.uk
Neptune Production Data website	http://data.eleclink.co.uk
Neptune Production Web Service WSDL	https://neptune.eleclink.co.uk/web-server/api/soap/ElecLinkNominationService/v1?wsdl
Neptune Production Web Service Endpoint	https://neptune.eleclink.co.uk/web-server/api/soap/ElecLinkNominationService/v1
Certificate checking URL	https://neptune.eleclink.co.uk/certcheck/
The request must include your Neptune log in credentials (Basic Authentication) as well as your associated SSL certificate	

Appendix A. File exchange XSD mapping

File exchanges use Common Information Model (CIM) data formats. Further information on these standards and implementation are available from the ENTSO-E Electronic Data Interchange (EDI) Library. This includes the XSD for the relevant XML documents referenced below.

A1 Nomination Files

A1.1 Nomination request

This uses the CIM Schedule Market Document v5r1. The required XML elements are as follows:

<table>
<tr><th>Element</th><th>Description</th><th>Value(s)</th></tr>
<tr><td>mRID</td><td>Senders Unique Identification, up to 31 characters.
The same mRID must be used for updates for the same auction horizon.
Suggested convention:

<Market Day>-<Horizon>-<Type>
Market Day: YYYYMMDD
Horizon: LT, DA, ID1, ID2
Type NOM</td><td>Examples:

20220101-LT-NOM
20220101-DA-NOM
20220101-ID1-NOM
20220101-ID2-NOM</td></tr>
<tr><td>revisionNumber</td><td>The sender’s unique version of a file (incremented with each transmission of the same document).
The version number should be incremented for any updates for the same auction horizon, i.e. intraday Nomination files for the second and third intraday auction 1 gates should increment from the file for the first auction 1 gate. Similar for the auction 2 gates.
<table>
<tr><th>Nomination file</th><th>mRID</th><th>Revision number</th></tr>
<tr><td>Long-term</td><td>20210101-LT-NOM</td><td>1</td></tr>
<tr><td>Day-ahead</td><td>20210101-LT-NOM</td><td>1</td></tr>
<tr><td>Intraday ID1 gate 1</td><td>20210101-ID1-NOM</td><td>1</td></tr>
<tr><td>Intraday ID1 gate 2</td><td>20210101-ID1-NOM</td><td>2</td></tr>
<tr><td>Intraday ID1 gate 3</td><td>20210101-ID1-NOM</td><td>3</td></tr>
<tr><td>Intraday ID2 gate 1</td><td>20210101-ID2-NOM</td><td>1</td></tr>
<tr><td>Intraday ID2 gate 2</td><td>20210101-ID2-NOM</td><td>2</td></tr>
<tr><td>Intraday ID2 gate 3</td><td>20210101-ID2-NOM</td><td>3</td></tr>
</table></td><td>Version number should start from 1. For any updates for the same auction horizon the version number should be incremented.</td></tr>
<tr><td>type</td><td>Coded type of the message being sent</td><td>A01 (Balance Responsible Schedule)</td></tr>
</table>

process.processType	Code which specifies the Nomination horizon.	A12 (long-term) A01 (day-ahead) A02 (intraday)
process.classificationType	Type that is used to classify schedule by aggregation or classification.	A01 (Detail type)
sender_MarketParticipant.mRID	EIC X code of the document sender. The Sender must be the Right Holder referenced in the rights document.	EIC code of the Right's Holder A01 coding scheme Example: 10X-PARTY-01-TST
sender_MarketParticipant.marketRole.type	Identification of the role that is played by the sender.	A30 (Interconnection Trade Responsible)
receiver_MarketParticipant.mRID	EIC X code of the document receiver.	48X000000000101E (ElecLink EIC X Code) A01 coding scheme
receiver_MarketParticipant.marketRole.type	Identification of the role that is played by the receiver.	A04 (System Operator)
createdDateTime	Date and time of the message generation (in ISO 8601 UTC format).	YYYY-MM-DDTHH:MM:00Z
schedule_Time_Period.timeInterval	Beginning and the ending date and time of the period covered by message. UTC coding. Format: YYYY-MM-DDTHH:MMZ The interval must cover one CE(S)T Business Day. This period is described with two different tags (in ISO 8601 UTC format) <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end>	CET business day in Winter: 23:00 UTC to 23:00 UTC CEST business day in Summer: 22:00 UTC to 22:00 UTC When the clocks change from CET to CEST the file will be from 23:00 UTC to 22:00 UTC, and when the clocks change from CEST to CET, the file will be from 22:00 UTC to 23:00 UTC.
domain.mRID	Identification of the Interconnector for which the data is submitted	10Y1001C--000344 (ElecLink Domain Y Code)
matching_Time_Period.timeInterval	Long-term and day-ahead: This should cover the whole CE(S)T Business Day Intraday Nominations: This should cover the relevant time interval for which the Nomination gate is open – i.e. this will be difference for each nomination gate. This period is described with two different tags (in ISO 8601 UTC format) <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end>	The following example is from an ID2 gate 1 Nomination: <start>2022-04-01T12:00Z</start> <end>2022-04-01T22:00Z</end>

Timeseries		
Element	**Description**	**Values**
mRID	Unique Identification of the Timeseries within the document. Suggested convention: <Market Day>-<Horizon>-<Type>-<outArea><inArea> Market Day: YYYYMMDD Horizon: LT, DA, ID1, ID2 Type: NOM Area: FR, GB	For example: 20220101-ID2-NOM-FRGB
Version	Time Series version (incremented with each transmission of the same document).	Always the same as the document revisionNumber
businessType	Identifies the types of the data exchanged.	A03 (External Trade Explicit Capacity)
Product	Identification of the energy product.	8716867000016 (Active Power)
objectAggregation	Identifies how the object is aggregated.	A04 (Agreement Identification)
in_Domain.mRID	EIC Y code identifying the destination area of the border direction.	Choose one of the options below. 10YFR-RTE------C 10YGB----------A
out_Domain.mRID	EIC Y code identifying the source area of the border direction.	Choose one of the options below. 10YFR-RTE------C 10YGB----------A
in_MarketParticipant	EIC X code of the Nominee related to the in_Domain	Example: 10X-PARTY-01-TST
out_MarketParticipant	EIC X code of the Nominee related to the out_Domain	Example: 10X-PARTY-01-TST
marketAgreement.type	Code used in the rights document which refers to the Nomination horizon.	A06 (long-term) A01 (day-ahead) A07 (intraday)
marketAgreement.mRID	Code which links the rights document and the Nomination file To find the details in Neptune: Open the Rights & Nominations widget, filter on the relevant Market Date, Corridor, and Horizon. The marketAgreement.mRID will be referenced in the 'Identification' column in the Rights section of the screen.	Example: 10X-PARTY-01-TST_ID2_FRGB_20220401
measurement_Unit.name	Megawatts	MAW

curveType	The type of curve being used for the Period element.	A01 (Sequential fixed sized blocks)

Period		
Element	**Description**	**Values**
timeInterval	This shall be the same as the matching_Time_Period.timeInterval. This period is described with two different tags (in ISO 8601 UTC format) <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end>	The following example is from an ID2 gate 1 Nomination: <start>2022-04-01T12:00Z</start> <end>2022-04-01T22:00Z</end>
resolution	Market Time Unit of the nominations	PT60M (60 minutes)

Point		
Element	**Description**	**Values**
position	Sequential value beginning with 1 From 1 to 23/24/25 (long-term and day-ahead short/normal/long day) From 1 to nn (relative to the intraday gate open period, i.e. timeInterval)	Increments from 1
quantity	Nomination value at the Operational Reference Point	Non-signed Integer value Example: 33

A1.2 Nomination Acknowledgement

This uses the CIM Acknowledgement Document v8r0. The XML elements are as follows:

Element	Description	Values
mRID	Senders Identification Convention: ACK_<mRID> mRID of the Nomination request	Examples: ACK_20220101-LT-NOM ACK_20220101-DA-NOM ACK_20220101-ID1-NOM ACK_20220101-ID2-NOM
createdDateTime	Date and time of the message generation (in ISO 8601 UTC format).	
sender_MarketParticipant.mRID	EIC X code of the document sender.	48X000000000101E (ElecLink EIC X Code)

		A01 coding scheme
sender_MarketParticipant.marketRole.type	Identification of the role that is played by the sender.	A04 (System Operator)
receiver_MarketParticipant.mRID	EIC X code of the document receiver. The receiver will be the Right Holder from the Nomination request.	Example: 10X-PARTY-01-TST A01 coding scheme
receiver_MarketParticipant.marketRole.type	Identification of the role that is played by the receiver.	A30 (Interconnection Trade Responsible)
received_MarketDocument.mRID	mRID of the sent document (Nomination request).	
received_MarketDocument.revisionNumber	Revision number of sent document (Nomination request).	
received_MarketDocument.type	Type of the sent document (Nomination request).	A01 (Balance Responsible Schedule)
received_MarketDocument.title	File name of the sent document (Nomination request).	Example: 20220101_1_ID1_NOM.xml
received_MarketDocument.createdDateTime	Creation date of the sent document (Nomination request) (in ISO 8601 UTC format) YYYY-MM-DDTHH:MM:SSZ	Example: 2022-03-30T14:37:28Z

Reason		
Element	Description	Values
code	Indicates whether the message was successfully processed (accepted) or rejected.	A01 (message fully accepted) A02 (message fully rejected)
text	Reason Text aligned with the code	Message fully accepted (A01) Message fully rejected (A02)

A1.3 Customer Report

This uses the CIM Schedule Market Document v5r1. The XML elements are as follows:

Top section of the File		
Element	Description	Values
mRID	Unique identification. <Market Day>-<Type><createdDateTime> Market Day: YYYYMMDD Type: NOM createdDateTime: YYYYMMDDHHMMSS	Example 20220101-NOM- 20221030105846
revisionNumber	Unique version of the file (incremented with each transmission of the same document)	Increments from 1.
Type	Type of the document.	A01 (Balance Responsible Schedule)
process.processType	Code which specifies the Nomination horizon.	A12 (long-term) A01 (day-ahead) A02 (intraday)
process.classificationType	Type that is used to classify schedule by aggregation or classification.	A01 (Detail type)
sender_MarketParticipant.mRID	EIC X code of the document sender.	48X000000000101E (ElecLink EIC X Code) A01 coding scheme
sender_MarketParticipant.marketRole.type	Identification of the role that is played by the sender.	A04 (System Operator)
receiver_MarketParticipant.mRID	EIC X code of the document receiver. The receiver will be the Right Holder for the Nominations.	Market Participant Right Holder EIC code Example: 10X-PARTY-01-TST
receiver_MarketParticipant.marketRole.type	Identification of the role that is played by the receiver.	A30 (Interconnection Trade Responsible)
createdDateTime	Date and time of the message generation (in ISO 8601 UTC format). YYYY-MM-DDTHH:MM:00Z	Example: 2021-03-31T07:30:05Z

schedule_Time_Period.timeInterval	Beginning and the ending date and time of the period covered by message. UTC coding. Format: YYYY-MM-DDTHH:MMZ The interval must cover one CE(S)T Business Day. This period is described with two different tags (in ISO 8601 UTC format) <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end>	CET business day in Winter: 23:00 UTC to 23:00 UTC CEST business day in Summer: 22:00 UTC to 22:00 UTC When the clocks change from CET to CEST the file will be from 23:00 UTC to 22:00 UTC, and when the clocks change from CEST to CET, the file will be from 22:00 UTC to 23:00 UTC.
domain.mRID	Identification of the Interconnector for which the data is submitted	10Y1001C--000344 (ElecLink Domain Y Code)
matching_Time_Period.timeInterval	Long-term and day-ahead: This should cover the whole CE(S)T Business Day Intraday Nominations: This should cover the relevant time interval for which the Nomination gate is open – i.e. this will be difference for each nomination gate. This period is described with two different tags (in ISO 8601 UTC format) <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end>	The following example is from an ID2 gate 1 Nomination: <start>2022-04-01T12:00Z</start> <end>2022-04-01T22:00Z</end>

Timeseries		
Element	Description	Values
mRID	Senders Unique Identification GUID (Global Unique Identifier) Auto generated random 32 characters string	Example: 04d9125a60714fdcbea5be1f8fc8fff4
Version	Time Series version (incremented with each transmission of the same document).	Always the same as the document revisionNumber
businessType	Identifies the types of the data exchanged.	A03 (External Trade Explicit Capacity)
product	Identification of the energy product.	8716867000016 (Active Power)
objectAggregation	Identifies how the object is aggregated.	A04 (Agreement Identification)
in_Domain.mRID	EIC Y code identifying the destination area of the border direction.	10YFR-RTE------C 10YGB----------A

out_Domain.mRID	EIC Y code identifying the source area of the border direction.	10YFR-RTE------C 10YGB----------A
in_MarketParticipant	EIC X code of the Nominee related to the in_Domain	Example: 10X-PARTY-01-TST
out_MarketParticipant	EIC X code of the Nominee related to the out_Domain	Example: 10X-PARTY-01-TST
marketAgreement.type	Code used in the rights document which refers to the Nomination horizon.	A06 (long-term) A01 (day-ahead) A07 (intraday)
marketAgreement.mRID	Code which links the rights to the Nomination file	Example: 10X-PARTY-01-TST_ID2_FRGB_20220401
measurement_Unit.name	Megawatts	MAW
curveType	The type of curve being used for the Period element.	A01 (Sequential fixed sized blocks)

Period		
Element	Description	Values
timeInterval	This shall be the same as the matching_Time_Period.timeInterval. This period is described with two different tags (in ISO 8601 UTC format) <start>YYYY-MM-DDTHH:MMZ</start> <end>YYYY-MM-DDTHH:MMZ</end>	The following example is from an ID2 gate 1 Nomination: <start>2022-04-01T12:00Z</start> <end>2022-04-01T22:00Z</end>
resolution	Market Time Unit of the nominations	PT60M (60 minutes)

Point		
Element	Description	Values
position	Sequential value beginning with 1 From 1 to 23/24/25 (long-term and day-ahead short/normal/long day) From 1 to nn (relative to the intraday gate open period, i.e. timeInterval)	Increments from 1
quantity	Nomination value at the Operational Reference Point	Non-signed Integer value Example: 33

Appendix B. Nomination Validation rules

Reception timings

The Nomination document refers to a horizon.

- Long-Term Nomination (Process Type A12)
- Day-ahead Nomination (Process Type A01)
- Intraday 1 or Intraday 2 Nominations (Process Type A02)

These must be received between the nomination gate opening and gate closing for the relevant horizon.

Market Parties

The sender of the message (sender_MarketParticipant.mRID) must be a party defined with a Rights Holder role, while the Nominees (in_MarketParticipant and out_MarketParticipant) must be defined with a Nominee role.

Rights checking

The marketAgreement.mRID must refer to valid 'Rights' in Neptune for the given delivery period, Corridor, Rights Holder, and Horizon. The Nomination value must not exceed the quantity of Rights.

Period Checking

The document schedule_Time_Period.timeInterval must cover one Business Day, while the TimeInterval at the Period level must be the same as the period for the Nomination Gate. This is especially important in Intraday timescale where the delivery period differs for each Nomination Gate.

Document Versioning Rules

All Nominations must be submitted through versions of the same document for a given market horizon (long-term, day-ahead, intraday 1, or intraday 2).

If a document is received with the same or earlier version than the last accepted document version then it is rejected.

Time Series Versioning Rules

The document is expected to contain all the Nominations for the given Rights Holder for that market horizon (long-term, day-ahead, intraday 1, or intraday 2).

In the Nomination Document

- Any time series will be considered as an update of an existing time series, regardless of the time series identification and version;
- Any time series not matching an existing time series will be considered as a new Nomination (regardless of the timeseries version);
- Any existing Nomination for which there is no corresponding timeseries in the document will be considered as deleted, that includes the other direction TS. This means that if a Nomination document contains only one Time Series (only on direction) Neptune will consider that the Nomination on the missing direction is cancelled (if one were existing).