

# Enmacc APIs Version V2.2

## MIGRATION GUIDE DOCUMENT

For any questions, please contact our team at: [connect@enmacc.com](mailto:connect@enmacc.com)

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# API V2.2



Enmacc has released the newest API upgrade to V2.2 that **impacts various endpoints**, introducing improvements to elevate the trading experience via our external APIs.

## Key features of the new API version include:

- Enhanced JSON models, removing outdated data and harmonizing with the platform's user interface workflow.
- **NEW:** Addition of support for same-direction spreads.
- **NEW:** Integration of initiator quote feedback within the analytics endpoint.
- **NEW:** Introduction of a new endpoint, streamlining the final trading phase, allowing for execution by accepting a price or proposal.
- **NEW:** Introduction of partial trading capability, enabling trading of quantities different from the initial request.
- **NEW:** Introduction of multiple execution feature
- **NEW:** Green Grey Swaps
- **NEW (soon):** Binding quotes / RFQs
- **Timeline: The current version will be available until end of year 2024 to give you enough time to smoothly migrate over to the new endpoints/updates.**

Furthermore, we have built an entirely new API documentation, designed with a better and user-friendly interface:

<https://developer.enmacc.com/>

# Process

## Sandbox

- Please find your relevant endpoints in the following slides and identify necessary updates.
- Please ensure that all testing and migration to the new endpoints are conducted within the **sandbox** environment.
- If you encounter any difficulties accessing your sandbox accounts, please reach out to us at [connect@enmacc.com](mailto:connect@enmacc.com) for assistance.

## Go-live

## Production

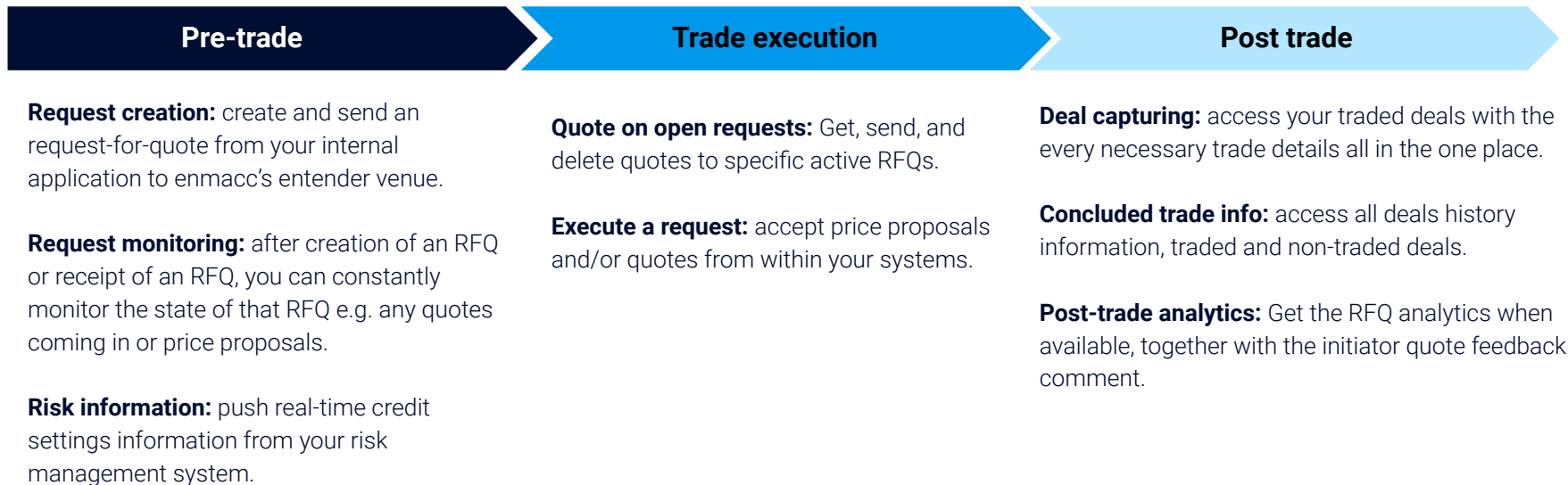
- Once the upgrade has been finalized and thoroughly tested on sandbox, you may proceed to go live using your current production API credentials.
- Please send us a quick note once the upgrade process is successfully completed on your end.

**Deadline: End of 2024**

# Update of enmacc API V2.2 Guidance document



# Overview of enmacc APIs: end to end integration



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**Real-time notifications:** optimise your integration and implement enmacc **webhooks** to receive instant alerts for various events on enmacc, such as new requests, quotes, traded deals etc.

# Entender request creation

**Usage:** this use-case enables you to create an entender request for any of the commodities available on enmacc.

Changes as of March 2024, V2.2:

- **POST** /v2.2/entender/requests

For this endpoint, you need to remove some attributes and also adhere to the new JSON model as described in our updated API documentation. Specifically, you need to remove *'action'* attribute as its now going to be added under the *'product'* or *'product-legs'* object and with "buy" "sell" options only (removing "both" since in case of spreads, now same direction is allowed e.g. "buy" "buy"). *'Gtc-allowed'* is still going to be used (**soon to come**: if it's set to false, then a request does allow only for binding quotes).

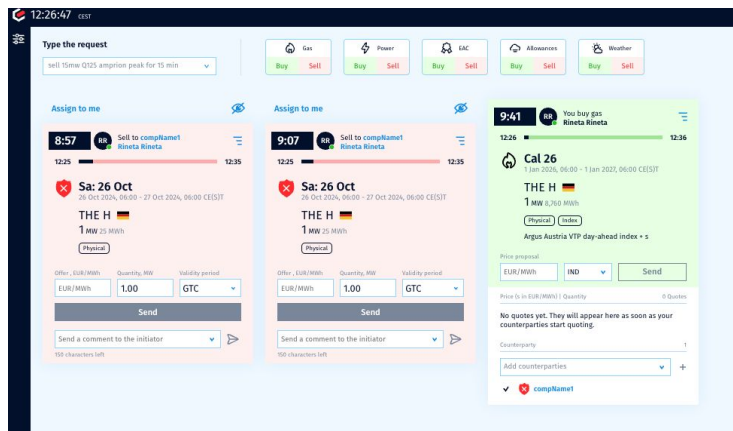
On the other hand, the already deprecated attributes under *'execution'*, *'analytics'*, *'clearing-mode'*, and *'instant'* will be all **removed** to align with the new request form on enmacc UI. For clearing, see the new model where you can add this specific information.

- **GET** /v2.2/entender/recipient-lists & /{id}

URL to V2.2. No other updates.

Please refer to the updated [documentation](#).

# Requests monitoring: Open/active requests (1/2)



Changes as of March 2024, V2.2:

- **GET /v2.2/entender/requests**

In this endpoint, the core model remains unchanged. However, we've made some adjustments for clarity and consistency. We've renamed *'id'* to *'request-id'* and *'short-id'* to *'request-short-id'* to differentiate them from the *'id'* in the /trades endpoint, as we have distinct IDs for open/closed requests versus traded requests.

Furthermore, in cases involving spreads, the *'action'* field can now feature the same direction for both legs, such as "buy" - "buy" for both legs.

See the next page for the updates on /v2./entender/requests{id}.

**Usage:** this use-case enables you to get a list of open entender requests that your company has active on that specific retrieval time. You can utilise "filtering" option for commodities.

# Requests monitoring: Detailed information (2/2)

**Usage:** this use-case enables you to get detailed information about a specific open or close entender request.

Changes as of March 2024, V2.2:

- **GET /v2.2/entender/requests/{id}**

In this endpoint, we've implemented the same renaming of ID fields as in the `/v2.2/entender/requests` endpoint for consistency and clarity.

We've also introduced a new model for both single and spread requests, with changes in hierarchy where the main class is now **'contract'**. Additionally, the **'view'** component has been relocated inside the **'execution'** object, altering the hierarchy of this object. Furthermore, in cases involving spreads, the **'action'** field can now feature the same direction for both legs, such as "buy" - "buy" for both legs.

Lastly, in case of spreads, clearing information is now defined **per leg** instead of per request as before. This adjustment is made to accommodate future scenarios such as three-leg spreads (not currently available on enmacc).

- **GET /v2.2/entender/requests/{id}/price-proposal**

The price-proposal endpoint does not have a lot of changes and it now includes a new model designed for better optimisation.. This model caters to both single and spread entender requests, distinguishing between them. Additionally, we've incorporated the **'price-direction'** attribute, aligning with industry standards by categorizing quotes as either 'ask' or 'bid'.



# Quoting on open entender requests

The screenshot shows a trading interface for 'Cal 26' (1 Jan 2026, 06:00 - 1 Jan 2027, 06:00 CE(S)T). The user is 'RR' and the counterparty is 'compName3 Rineta Rineta'. The quote is for 'THE H' (Germany) with a quantity of '1 MW' and a price of '8,760 MWh'. The form is set to 'Physical' and 'Index'. The quote is for 'Argus Austria VTP day-ahead index + s'. The quote form is highlighted with a red box and contains the following fields:

Offer, EUR/MWh	Quantity, MW	Validity period
1.3	1.00	GTC

Below the form is a blue 'Send' button. At the bottom, there is a text area for 'Send a comment to the initiator' with a character count of '150 characters left'.

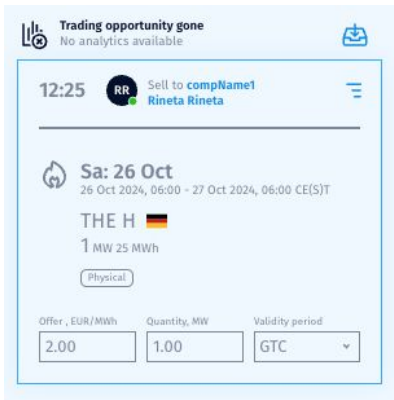
Changes as of March 2024, V2.2:

- **GET** /v2.2/entender/requests/{id}/quotations
- **POST** /v2.2/entender/requests/{id}/quotations
- **DELETE** /v2.2/entender/requests/{id}/quotations

In these endpoints, all attributes are the same except for the 'quote' one. Now this attribute provides new price direction as "bid" or "ask" to compensate for the loss of information of what used to be "buy-leg" / "sell-leg". It also overall follows industry standards on providing price directions. Also, another quote type "binding" is introduced.

**Usage:** This use-case allows you to retrieve all quotes sent or received for specific requests on entender. Additionally, you can use the POST method to send prices or quotes to requests, and the DELETE method to withdraw any active quotes that you have submitted.


# Closed entender requests



Trading opportunity gone  
No analytics available

12:25 RR Sell to compName1  
Rineta Rineta

Sa: 26 Oct  
26 Oct 2024, 06:00 - 27 Oct 2024, 06:00 CE(SJT)

THE H 

1 MW 25 MWh

Physical

Offer, EUR/MWh Quantity, MW Validity period

2.00 1.00 GTC

**Usage:** this use-case enables you to fetch all the closed entender requests - including those that were traded and non-traded (expired, withdrawn by initiator, or traded with someone else)

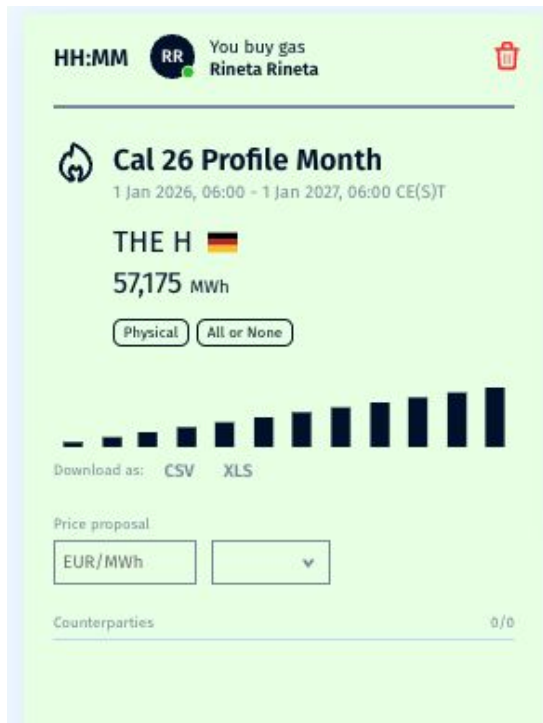
## Changes as of March 2024, V2.2:

- GET **/v2.2/entender/concluded-requests**

In this endpoint, overall the model stays the same. In this endpoint, we've implemented the same renaming of ID fields as in the `/v2.2/entender/requests` endpoint for consistency and clarity. So, we've renamed 'id' to 'request-id' and 'short-id' to 'request-short-id' to differentiate them from the 'id' in the `/trades` endpoint, as we have distinct IDs for open/closed requests versus traded requests.

In addition, the action field in cases of spreads can be now same direction - e.g. "buy" "buy" for the both legs.

# Load shapes/Profiles



**Usage:** These endpoints enable you to access the shape details of a specific deal categorized under the "Profile" load type. The response includes vital information like the shape resolution and actual shape data. If a request is classified as "Profile," the URL to this endpoint will be automatically provided in both, the `/entender/requests/{id}` and `/trades/{id}` endpoints.

## Changes as of March 2024, V2.2:

The loadshape (profiles) endpoint has been divided into two distinct endpoints, each serving separate purposes:

- **v2.2/trades/{id}/load-shape:** This endpoint provides load shape data for deals that have already been traded by your company.
- **/v2.2/entender/requests/{id}/load-shape:** This endpoint provides load shape data for open, active, or closed requests—whether traded or non-traded—that your company has received.

Please refer to the updated [documentation](#).

# Deal capturing

The screenshot shows the 'Deals History' page in the ENMACC interface. On the left is a 'Filter' sidebar with checkboxes for 'Buy/Sell', 'Status' (Active, Inactive), 'Status' (Traded, Cancelled, Not Traded), 'Settlement type' (Physical, Forward), 'Trade type' (Open, Closed), and 'Trade status' (Open, Closed). The main table has columns: DATE, TIME, BUY/SELL, COUNTERPARTY, INSTRUMENT, QUANTITY, and PRICE. It lists trades for 'Today', '22 October', and '17 October'.

DATE	TIME	BUY/SELL	COUNTERPARTY	INSTRUMENT	QUANTITY	PRICE
<b>Today</b>						
12:35		You sell	THE H / Sa 26 Oct		1 m	
12:33		You sell	THE H / Sa 26 Oct		1 m	
<b>22 October</b>						
15:10		You sell	ZTP / Cal 26		10 m	
14:31		You sell	Sonogrid / Cal 26 / Base		2 m	
<b>17 October</b>						
16:24		You sell	ZTP / 20 Oct 2024 - 21 Oct 2024		10 m	
15:08		You sell	ZTP / 20 Oct 2024 - 21 Oct 2024		10 m	
14:50		You buy	TTF / 22 Oct 2024 - 23 Oct 2024		20 m	
14:50		You sell	ZTP / 20 Oct 2024 - 21 Oct 2024		10 m	
14:37		You sell	ZTP / 20 Oct 2024 - 21 Oct 2024		10 m	

## Updates as of March 2024, V2.2:

- **GET /v2.2/trades**

In this endpoint, overall the model stays the same. In this endpoint, we've implemented the same renaming of ID fields as in the /v2.2/entender/requests endpoint for consistency and clarity. So, we've renamed 'id' to 'request-id' and 'short-id' to 'request-short-id' to differentiate them from the 'id' in the /trades endpoint, as we have distinct IDs for open/closed requests versus traded requests.

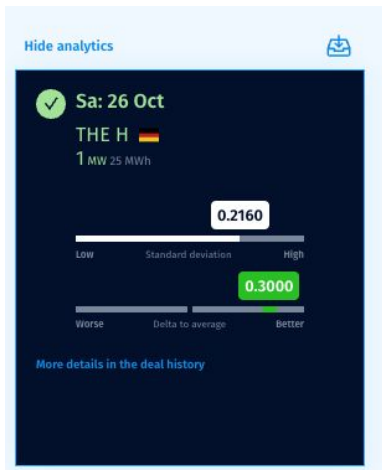
In addition, the spread-id and entender-pre-trade-id are removed and instead we have a new object 'entender-pre-trade' where key information are provided. Lastly, 'created-at' field has been also removed, and the same information is provided under 'traded-at'.

- **GET /v2.2/trades/{id}**

When requesting for detailed trade information, we have also renamed the IDs, added the new object of 'entender-pre-trade' and removed any deprecated properties e.g. from clearing one. Second, links to quantity shape will use the new endpoint (see documentation). Lastly, 'created-at' field has been also removed, and the same information is provided under 'traded-at'.

**Usage:** this use-case allows you to retrieve all traded deals made on enmacc.

# Post-trade analytics



**Usage:** this use-case enables you to fetch detailed analytics about the competitiveness of your prices on entender for specific RFQs as well as the initiator feedback.

Updates as of March 2024, V2.2:

- **GET /v2.2/entender/requests/{id}/analytics**

The analytics endpoint now includes a new model designed to enhance integration optimization upon release. This model caters to both single and spread entender requests, distinguishing between them. Additionally, we've incorporated the '**price-direction**' attribute, aligning with industry standards by categorizing quotes as either 'ask' or 'bid'. In this context, "ask" denotes prices for RFQs initiated for buying purposes, while "bid" pertains to prices for RFQs initiated for selling purposes.

Furthermore, this update encompasses the inclusion of the '**initiator-feedback**' object. When an request concludes, the initiator *may* provide feedback to all counterparties who quoted prices, offering explanations for why they did not accept their proposed prices.



# Trade execution

**Usage:** this new use-case enables you to accept a firm price proposal in an entender request received or accept a quote in one of your initiated entender requests.

Updates as of March 2024, V2.2:

- **POST** /v2.2/entender/requests/{id}/trade

For successful execution of a trade via this endpoint, the following information must be provided:

**"trade-trigger":** Indicates whether the action is to accept a price proposal or a quote.

**"Price-proposal-id" or "quote-id":** Obtained from entender/requests/{id}.

**"Trade-executor-email":** Email of your company's user/trader executing the trade.

**"Risk-violation-consented":** Indicates whether risk settings on enmacc should be respected (Yes/No). If set to "No", trade execution cannot proceed if there are no credit lines with the counterparty.

**"Last-seen-price":** Selected price, along with its "type" (single or spread).

Please refer to the updated [documentation](#).

# Recipient lists



## NEW

**Usage:** these specific endpoints, fetch all the recipient lists that your company has created on enmacc platform/UI. In addition, we have introduced two other new endpoints that fetch the suggested recipient lists from enmacc.

**Updates as of March 2024, V2.2:**

- **GET /v2.2/entender/requests/ + {id}**

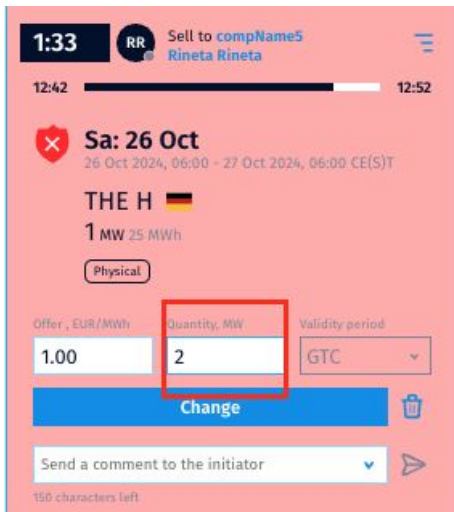
No changes have been made, except the URL to V2.2.

**NEW**

- **GET /v2.2/entender/requests/recipient-lists/suggested/{commodity} + {id}**

In the UI, enmacc offers recipient list suggestions based on the selected commodity. This functionality is accessible via the API, allowing integration primarily into your RFQ creation process.


# Partial trading



1:33 RR Sell to compName5 Rineta Rineta

12:42 12:52

Sa: 26 Oct  
26 Oct 2024, 06:00 - 27 Oct 2024, 06:00 CE(S)T

THE H   
1 MW 25 MWh

Physical

Offer, EUR/MWh	Quantity, MWh	Validity period
1.00	2	GTC

Change

Send a comment to the initiator

150 characters left

**Usage:** this new use-case enables you to create and quote a different quantity than what was originally initiated by the request initiator.



## NEW

Updates as of March 2024, V2.2:

The endpoints affected are:

- **POST /v2.2/entender/requests/ (RFQ Creation)**
  - A new boolean field "all-or-none" has been introduced under "execution" in this endpoint. Its default value, if not sent, is set to true.
- **GET /v2.2/entender/requests/id/ (GET detailed information for an RFQ)**
  - The newly added field "all-or-none" is now included in the response.
- **POST & GET /v2.2/entender/requests/ (Send and receive quotes)**
  - The endpoint now allows specifying a different quantity. If not provided, the original quantity is used. If the RFQ does not allow for partial trading (all-or-none = true, an error message is generated.

**NOTES:** The feature does not support spreads at the moment

Please refer to the updated [documentation](#).





# Multiple execution

9:32 RR You buy gas  
Rineta Rineta

12:49 12:59

Sa: 26 Oct  
26 Oct 2024, 06:00 - 27 Oct 2024, 06:00 CE(S)T

THE H

1 MW 25 MWh

Physical

Price proposal

EUR/MWh IND Send

Price (EUR/MWh) | Quantity 1 Quote

1.00 | 1 MW compName3  
12:49:36 | GTC Rineta Rineta

You no longer have a credit line available with this trading partner. Please speak to your risk manager.

Accept

Accept and continue RFQ

Counterparties 10

Updates as of March 2024, V2.2:

The endpoints affected are:

- GET **/v2.2/entender/requests/id/** (GET detailed information for an RFQ)
  - The status field remains Active for “Accept and Continue” / continued RFQs
- POST **/v2.2/entender/requests/{id}/trade**
  - Boolean field “accept-and-continue”

**Usage:** this new use-case enables you to get multiple trades from one RFQ. Initiator can decide to “Accept and Continue” the RFQ. That means you can quote and trade again in the same RFQ, within the validity time.

# Webhooks



**Usage:** we provide webhook events in the form of notifications, informing you on activities such as when you receive a new tender request, a quote, price-proposal etc.

Please refer to the updated [documentation](#).

## Updates as of March 2024, V2.2:

The new changes for webhooks are mainly in the event names. Now the following event names are available:

1. **request-created** (**ex: demandCreated**): Triggered when a new request is created.
2. **request-traded** (**ex: demandTraded**): Occurs when a request is successfully traded.
3. **request-closed** (**ex: demandClosed**): Fired when a request is closed due to expiration, withdrawal, or completion with another party.
4. **request-quotation-created** (**ex: quoteCreated**): Triggered when a new quotation is created for a request.
5. **request-quotation-updated**: Occurs when a quotation for a request is updated.
6. **request-quotation-expired**: Fired when a quotation for a request expires.
7. **request-quotation-withdrawn**: Triggered when a quotation for a request is withdrawn.
8. **request-price-proposal-created** (**ex: priceProposalAdded**): Occurs when a new price proposal for a request is created.
9. **request-price-proposal-updated**: Occurs when a price proposal for a request is updated.
10. **request-price-proposal-withdrawn** (**ex: priceProposalWithdrawn**): Fired when a price proposal for a request is withdrawn.
11. **request-feedback-created**: Fired when feedback for the recipient is submitted after a request is traded.

# Thank you

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Wishing you a smooth migration and improved integration!

Feel free to reach out with any questions at: [connect@enmacc.com](mailto:connect@enmacc.com).