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| Aim: | To clarify the outputs required in the auction results files from ESO to Data Portal |

EAC Results Format

# Context

This document outlines the format for the files which will be displayed on the data portal for Ancillary Services procured via the Enduring Auction Capability (EAC).

The output files include a “Reason for Rejection” code which will help the market participant in determining why its order was rejected and how to change it so that it has more chances of being accepted in the future. Furthermore, the auction clearing results presented in these files should also enable market participants to perform the calculations required to verify the listed reason for rejection of any of their sell orders.

EAC Results

EAC Results Format for Data Portal

The auction results available for the Data Portal take a subset of data from EAC and SMP and should include at least the four files described below:

* **Buy Orders File:** This file presents the ESOs willingness to pay for different quantities procured for each service and period. It should also include the substitutability family of each order. Moreover, it includes information on the cleared quantity, cleared price and rejection codes for each Order ID. The exact format of this file is shown in Table 4.
* **Sell Orders File:** This file presents, for each sell order ID, the quantity that participants are willing to provide for each auction product and period depending on the price. It should also include the sell order type (parent, child, or substitutable child) among other parameters. Additionally, the file includes information on the cleared quantity, cleared price and rejection for each Order ID. The exact format of this file is shown in Table 6.
* **Results By Unit File:** This shows the cleared quantity and clearing price for each accepted unit for each service and period. The exact format of this file is shown in Table 7.
* **Results Summary File:** This shows the cleared quantity and clearing price for each service and period. The exact format of this file is shown in Table 8.

**Buy Orders Details**

1. *Table 4 - Buy Order Details for Data Portal*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Raw data from | Description | Example |
| Auction ID | Manual |  | Unique auction identifier. All products auctioned in the same market | 146456 |
| Order ID | Manual |  | The ID for the submitted bid in the auction | 100000000013081 |
| Service Type | Manual | N-SIDE | any Response, Quick Reserve or Slow Reserve | Response |
| Auction Product | Manual | N-SIDE | any Reserve Product or Response Product (consistent with the service type) | DRL |
| Delivery Start | Manual | N-SIDE | The time from which delivery of the service will commence | 2021-09-15T23:00:00 |
| Delivery End | Manual | N-SIDE | The time from which delivery of the service will end | 2021-09-15T23:00:00 |
| Quantity | Manual | N-SIDE | The total volume of the bid | 9 |
| Price | Manual | N-SIDE | A price (£/MW/h) indicative of the willingness to pay to procure the quantity | 25 |
| Substitutability Family | Manual |  | The identifier of the substitutability family to which the order belongs | 154584 |
| Paradoxical acceptance allowed | Manual | N-SIDE | If True, the order ID can be paradoxically accepted | TRUE |
| Order Entry Time | Auto | N-SIDE | The time at which the bid was submitted | 2021-09-21T10:12:00 |
| Acceptance Ratio | Output | N-SIDE | A number between 0 and 1, indicating the proportion of an Offered Quantity or a Bid Quantity which has been matched by the Auction algorithm | 0.5 |
| Status | Output | IT | Was the order accepted or rejected | Accepted |
| Executed Quantity | Output | N-SIDE | The volume of the order which is executed | 100 |
| Clearing Price | Output | N-SIDE | Clearing price for the Auction Product in the relevant contracted window | 3.56 |
| Reason Rejected | Output | N-SIDE | See Table 4 for list of reasons |  |

**Sell Orders Details**

1. *Table 5 - Sell Order Details*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field | Type | Raw data from | Description | Example |
| Auction ID | Auto |  | Unique auction identifier. All products auctioned in the same market |  |
| Registered Auction Participant | Manual | N-SIDE | Participant who submitted the bid | EE ENERGY |
| Auction Unit | Manual | N-SIDE | a collection of one or more Eligible Assets registered at the relevant time as an Auction Unit in accordance with the Registration and Pre-Qualification Procedure | KIWIE-4 |
| Basket ID | Manual | N-SIDE | The ID for the Basket bid in the auction | 1000030321 |
| Service Type | Manual | N-SIDE | any Response, Quick Reserve or Slow Reserve | Response |
| Delivery Start | Manual | N-SIDE | The time from which delivery of the Auction Product will commence | 2021-09-15T23:00:00 |
| Delivery End | Manual | N-SIDE | The time from which delivery of the Auction Product will end | 2021-09-16T03:00:00 |
| Order ID | Manual | N-SIDE | The ID for the submitted bid in the auction | 100000000013081 |
| Order Type | Manual | N-SIDE | Type of order  P: Parent  C: Child  SC: Substitutable Child | P |
| Auction Product | Manual | N-SIDE | any Reserve Product or Response Product (consistent with the service type) | DRL |
| Product ID | Auto | N-SIDE | Identifier of each product offered within an auction ID | 100466049895 |
| Quantity | Manual | N-SIDE | The total volume of the bid | 9 |
| Price Limit | Manual | N-SIDE | The price for the provision of the service | £/MW/h |
| Looped Basket ID | Manual | N-SIDE | * Blank for a C or SC order * Blank if the Basket is not looped to another basket * Basket ID for a looped Basket | 1000030331 |
| Order Entry Time | Auto | N-SIDE | The time at which the bid was submitted | 2021-09-15T23:00:00 |
| Acceptance Ratio | Output | N-SIDE | A number between 0 and 1, indicating the proportion of an Offered Quantity or a Bid Quantity which has been matched by the Auction algorithm | 0.5 |
| Status | Output | IT | Was the bid accepted or rejected | Accepted |
| Executed Quantity | Output | N-SIDE | The volume of the order which is executed | 9 |
| Clearing Price | Output | N-SIDE | Market clearing price of the Auction Product | £/MW/h |
| Reason Rejected | Output |  | See Table 4 |  |

**Results By Unit**

1. *Table 6 - Results by Unit Details*

|  |  |  |
| --- | --- | --- |
| Field | Description | Example |
| Registered Auction Participant | Participant who submitted the bid | EE ENERGY |
| Auction Unit | a collection of one or more Eligible Assets registered at the relevant time as an Auction Unit in accordance with the Registration and Pre-Qualification Procedure | KIWIE-4 |
| Delivery Start | The time from which delivery of the Auction Product will commence | 2021-09-16T15:00:00 |
| Delivery End | The time from which delivery of the Auction Product will end | 2021-09-16T19:00:00 |
| Service Type | [Response, Quick Reserve or Slow Reserve] | Response |
| Auction Product | The market for which the bid is in relation to | DRL |
| Executed Quantity | The volume of response that was accepted as at the clearing price | 1 |
| Clearing Price | The cleared price per MW per hour (£/MW/h) | 17 |
| Technology Type | Technology type of the unit | Batteries |
| Location | Post code | HU16 |

**Results Summary**

1. *Table 7 - Results Summary Details*

|  |  |  |
| --- | --- | --- |
| Field | Description | Example |
| Auction ID | Unique auction identifier. All products auctioned in the same market |  |
| Service Type | any Response, Quick Reserve or Slow Reserve | Slow Reserve |
| Auction Product | any Reserve Product or Response Product (consistent with the service type) | DMH |
| Delivery Start | The time from which delivery of the Auction Product will commence | 2023-02-24T23:00:00 |
| Delivery End | The time from which delivery of the Auction Product will end | 2023-02-25T03:00:00 |
| Cleared Volume | The volume of the Auction Product that was accepted at the clearing price | 92 |
| Clearing Price | The cleared price per MW per hour (£/MW/h) | -0.1 |

**Reason Rejected**

Table 8 lists the expected reasons for rejecting a buy or sell order in the EAC auction.

1. *Table 8 - Reasons for Rejection of a buy/sell order and respective Codes*

|  |  |
| --- | --- |
| **Code** | **Description** |
| 11 | Basket rejected because too expensive. |
| 12 | Basket rejected because other looped baskets are too expensive. |
| 13 | Basket rejected to accept other more profitable basket(s) concomitant to this basket or to any basket looped to this one. |
| 14 | Basket paradoxically rejected. |
| 21 | Child order (partially) rejected because too expensive. |
| 22 | Child order rejected because its parent order is rejected. |
| 23 | Substitutable child order (partially) rejected because other substitutable children are accepted and bring more value. |
| 24 | Child order (partially) paradoxically rejected. |
| 31 | Buy order (partially) rejected because priced too low. |
| 32 | Buy order (partially) rejected because other buy orders from its substitutability family are accepted and bring more value. |
| 33 | Buy order (partially) paradoxically rejected. |