

IDCONS Product Specification

GOPACS

grid operator platform for congestion solutions



Versions

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1 Introduction

This document describes the product specifications of Intra-day congestion spreads (IDCONS) during the pilot phase of Grid Operators Platform for Congestion Solutions (GOPACS). Liander, Enexis Groep, Stedin, TenneT TSO B.V. and Westland Infra will participate on behalf of the grid operators (collectively referred to as "grid operators")

2 IDCONS product

2.1 Definitions

2.1.1 Definition of IDCONS

An IDCONS is a combination of two orders (buy order and sell order) on a continuous trading platform for electricity. The combined orders have an identical starting time and duration of the delivery. The order type indicates if the order power (MW) can be used partially in a combination of if the full order can only be included in its entirety).

The price of the buy order of an IDCONS is lower than the price of the sell order, hence there is a price spread. Orders are combined into an IDCONS and processed by GOPACS (*Grid Operator Platform for Congestion Solutions*), a platform jointly owned and operated by the Dutch TSO and DSO for the coordination and management of congestions. Currently, GOPACS only supports *limit orders*.

2.1.2 Definition of Market party

With the term market party, this document refers to the legal entity of the participant on the trading platform who submits the orders. This may or may not be the party with the corresponding contracted grid connection(s) and corresponding EAN code(s).

2.2 Requirements for market orders for IDCONS

Market parties indicate in their orders whether it can be used for IDCONS (in addition to participating in regular continuous trade). This is indicated per order on the trading platform (by ticking the respective check box).

Only orders can be used as part of an IDCONS with this check box ticked, as well as a valid completed data field on the location of injection (sell order) respectively withdraw (buy order) of energy on/from the network. The location data is provided by the relevant market party by specifying in the order an EAN code that relates to a connection to the Dutch electricity grid. There are no minimum or maximum prices or volumes defined for IDCONS.

2.2.1 Test virtual EAN codes at bid zone level

Grid operators require orders with data on the delivery location at the connection level. However, during the pilot phase there is the possibility to use virtual EAN codes to signify an (international) bidding zone where the order will be delivered, beside regular orders with EAN codes of connections to the electricity grid in the Netherlands. These virtual EAN codes can be requested at TenneT TSO B.V. The grid operators will evaluate the effectivity of this option to use virtual EANs as part of IDCONS in Q3 2019.

Example: If a market party places an order with a virtual EAN code representing 'Great Britain' bidding zone, this means when this order is called as part of an IDCONS transaction, the market party is expected to fulfil the transaction volumes as follows:

- a) in the case of a sell order: fulfil the transaction volume by realizing a trade transaction from bidding zone Great Britain (sell) to bidding zone Netherlands (buy)
- b) in the case of a buy order: fulfil the transaction volume by realizing a trade transaction from the bidding zone the Netherlands (sell) to bidding zone Great Britain (buy).

At the request of the grid operators, the market parties have to be able to provide documented evidence that these trade transactions related to virtual EAN codes have actually been fulfilled.

Note: Compared to orders with EAN codes of connections, the use of virtual EAN codes increases the uncertainty about effectiveness (meaning: the influence of the order on the physical flows in the electricity grid) of the order in question when solving congestions. In particular, this is the case for orders with a virtual EAN of the bidding zone Netherlands. The grid operators take this uncertainty about the effectiveness into account when calculating the appropriate IDCONS for the congestions (see also 2.3.1).

2.3 Rights and obligations for the grid operators involved in an IDCONS

2.3.1 Creating IDCONS

Grid operators analyse suitable orders and create IDCONS through the GOPACS platform. The grid operators aim for IDCONS that resolve their calculated congestions at the lowest possible cost, as part of the grid operator regulated tasks for the safe and efficient operation of their electricity network. Grid operators use their own tools and processes to determine congestions and to evaluate the potential contribution of orders with location indication to solving the transport restriction. Furthermore, the grid operators prevent the IDCONS from causing or aggravating transport restrictions elsewhere in the grid when creating an IDCONS. Orders with the smallest difference ('spread') between the buy and sell price may not be called first due to differences in the effective contribution of an order to reducing the transport restriction (or specific 'order effectiveness') or due to their aggravating impact on transport restrictions elsewhere in the grid.

2.3.2 Managing EAN codes on GOPACS

Additional EAN codes that market parties intent to use for IDCONS are to be registered by the market party. The registration follows the instructions on www.gopacs.eu. These new EAN codes are processed in GOPACS by the grid operators within five working days after registration. This includes the collection of additional information about the connection such as the relevant network operator and the investigation of the electrical impact of the location on specific network elements. Only after this initial registration of an EAN code, can the orders actually be used for IDCONS by the grid operators.

2.3.3 Payment of cleared IDCONS

The grid operators work in accordance with the agreed settlement conditions of the trading platform. All cleared IDCONS transactions are paid, with the network operator paying for the price spread. If the outcome of the validation process is that a market party has not fulfilled the

obligations of an IDCONS, the relevant grid operator will be addressing this directly with the respective trading party.

2.4 Rights and obligations for the market parties involved

2.4.1 Use of permitted EAN codes

1. Only EAN codes can be used as the delivery location after the corresponding asset owner of the network connection has given permission to the market party; and
2. Only EAN codes can be specified as the delivery location of the affiliates who make use of 15-minute metered allocation points.

2.4.2 IDCONS delivery obligation

1. If an order has been called as part of an IDCONS, the market parties are obliged to inject or withdraw the volumes at the time and location of the EAN code corresponding to the orders.
2. This delivery is defined relative to the planned infeed or consumption at the specified location for the defined time period of the order. The planned infeed or consumption is, if available for the connection, the *T-prognosis* of the connection, or the '*generation and load schedule*' according to the EU legislation. If information about the planned infeed or consumption is not available for a grid connection, an alternative plan for the planned infeed or consumption will be submitted to the network operator concerned in consultation with the grid operators responsible for network of the connection point.
3. If an order has been called as part of an IDCONS for a connection, the infeed or consumption on the connection for the delivery period may no longer be changed in the direction opposite to the call:
 - in the case of a sell order call the infeed may not be lowered nor the consumption increased and
 - in the case of a buy order call the infeed cannot be increased nor the consumption reduced.

However, changes in the direction identical to the call are allowed.

Example: A connection has planned to produce 2 MW between 14:00 and 15:00 (equivalent to 2 MWh). A market party places a buy order of 1 MW for the same period on the trading platform, including the EAN code of that connection. This order is then completely called in an IDCONS. The market party is now obliged to supply a maximum of 1 MW (2 MW planned - 1 MW buy order) during the delivery period, corresponding to a maximum of 0.25 MWh per PTE on this connection. The market party is allowed produce less than 1 MW at the connection during this time interval.

2.4.3 Permission to provide data by the trading platform

Market parties have to give permission to the market platform to provide the necessary data from the market party and the order to GOPACS and the grid operators. The relevant data are:

- Order data
- Registered name of the market party at the trading platform
- Registered telephone number of the market party at the trading platform
- Registered e-mail address of the market party at the trading platform

2.4.4 Price at clearing order as part of an IDCONS

The clearing price is payable in accordance with the rulebook of the relevant trading platform. For clarity: if an order is cleared as part of an IDCONS, the two parties involved will receive / pay the price of their order multiplied by the volume (MWh) of the IDCONS.

2.4.5 Partial clearing of orders

Partial clearing of orders is done according to the rule book of the relevant trading platform. For clarity: if an order has been partially cleared for IDCONS, the remaining volume will still be available on the trading platform according to the rules of the relevant trading platform.

2.4.6 Nomination of orders as part of an IDCONS

Nomination of orders as part of IDCONS is done according to the rulebook of the relevant trading platform. For clarity: cleared orders as part of an IDCONS are administered as a trade between the two market parties involved. This means that the general rules, processes and agreements for the nomination of such a trade of the relevant trading platform are applicable.

2.5 Rights and obligations for trading platforms involved

2.5.1 IDCONS services to market platform participants

Trading platforms that offer participation in IDCONS are IDCONS service providers to their participants. For the IDCONS services to their participants, only the rule book of the trading platform and any agreements between the market platform and its participants apply. For clarity: the trading platform is not responsible for incidents due to errors on GOPACS.

2.5.2 IDCONS services to GOPACS

Market platforms that offer participation in IDCONS have a service level agreement with GOPACS.

2.5.3 Clearing of IDCONS

1. The market platform carries out the clearing of IDCONS and informs the market parties involved and the grid operators of this fact.
2. The general process and availability requirements of the market platform apply here.
3. In addition to fees that may apply to the market parties involved in transactions on the market platform, acting grid operators also owe a fee to the trading platform for the use of IDCONS.

2.5.4 Providing information to GOPACS

The market platform provides the following information to the GOPACS platform:

1. Orders for which market parties have indicated that these can be made available for used by GOPACS and the corresponding location information.
2. Result of IDCONS clearing with the consent of the participant: participants name, telephone number and email address of the market party as registered at the trading platform.

2.5.5 Providing information to market parties

The trading platform provides the following information to market parties that place orders for IDCONS:

1. Orders and volumes that have been cleared as part of IDCONS.

2.5.6 Trading platform settlement

The trading platform carries out the settlement of cleared IDCONS. For the sake of clarity: the rule book of the relevant trading platform applies.

2.6 Recording and change of product specifications

The grid operators reserve the right to change the product specification. Before a new product specification comes into force, it will be submitted to market parties for consultation. The current version of the product specification will be published and made available at www.gopacs.eu.

2.7 Declaration of participation

2.7.1 Signing agreement

Market parties have to sign up for participating in IDCONS by signing the 'IDCONS participation agreement' and to send this to registration@gopacs.eu. After having received confirmation of completion of the pre-qualification process by email, the relevant market party as well as the relevant trading platform receives confirmation from GOPACS.

2.7.2 Content agreement

The 'IDCONS Participation Agreement' contains:

1. Declaration of acceptance of IDCONS product specifications
2. Declaration of acceptance of IDCONS privacy conditions
3. Name of the trading platform at which the market party wants to place orders for IDCONS
4. List of EAN codes as location information that the market party wants to use on the trading platform for IDCONS

2.7.3 Change list of EAN codes

Any changes to the list of EAN codes that a market party wants to use on a trading platform for IDCONS have to be submitted in advance by the market party to GOPACS following the instructions on www.gopacs.eu. After the grid operators have processed the change, the market party receives a confirmation email from GOPACS.

3 Prequalification

3.1 Prequalification process

1. In order to participate in IDCONS, the relevant market party must be connected to a trading platform that supports IDCONS.
2. Market parties have sent their 'IDCONS Participation Agreement' to GOPACS via de instructions on www.gopacs.eu
3. As described in chapter 2.3.2, grid operators will first have to process the new EAN code internally before orders with the EAN code can actually appear as IDCONS. After completion of this registration, the market party will receive a confirmation by email.
4. The prequalification process does not contain an explicit check on the consent by the contracted party or customer of the specified EAN code. Obtaining consent is the

responsibility of the market party, as is the coordination with the balance responsible party (BRP) for the connection.

5. The prequalification process does not include physical (ex-ante) tests.

4 Verification of delivery

4.1 Verification process

The grid operators use measurements of the specified EAN codes and generation and consumption schedules to verify the delivery.

4.2 Verification data

By agreeing to these IDCONS Product Specifications through the 'IDCONS Participation Agreement', the market party also agrees that grid operators can use measurements of the specified EAN codes for the verification of delivery. In addition, market parties agree to provide the grid operators with relevant supplemental measurement data if the grid operators do not yet have access to these measurement data.

5 FAQ

Q: What is the allowable time span of a bid in GOPACS?

A: The bids supported by GOPACS may have a time span of 15 minutes, 1, 2, 3, 4, 5 and 6 hours. The 15 minute bid can start at whole clock hours (and entire clock hours plus whole quarters). Biddings of one or more hours can only start on whole clock hours.

Q: What is the shortest activation time for bids in the GOPACS?

A: The current shortest bids activation time for GOPACS is 15 minutes. Bids whose actual time to start time of the bidding period is less than 15 minutes will not be called. In case a longer activation time is desired by the participant, the participant must withdraw the bid in time at ETPA. The activation time of bids can therefore be determined by the participant itself.

Q: Are congestion announcements formatted in such a way that automatic processing by participants is possible?

A: The current announcements are standardized in the format of the text and can therefore be used to build an automated bidding system on congestion bidding. It will remain the same in any case until the end of the year.

Q: How often can we get automated congestion announcements?

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A: As often as needed, however, we do recommend that you do it no more than 1 to 2 times per minute. Announcements are not offered or modified in such a way that a higher polling frequency is required to stay up-to-date.

Q: Can my congestion bids be partially matched?

A: Yes, bids can be partially matched, however, only in terms of volume. The duration is always in line with the bid. Partial matching can have two reasons: 1. The volume of the bid is greater than necessary to solve the congestion problem. 2. Since the volume on both sell and buy side must be equal for IDCONS, it can happen that the bid is partially matched.

Q: What is the time window in which the network operators will announce congestion?

A: The expectation is that most announcements by grid administrators take place on day ahead in the course of the afternoon and in the evening hours, after the congestion problems for the next day are identified and are resolved via GOPACS. During intraday, congestion problems can occur, which can lead to new announcements of orders via GOPACS.