EASEE-gas edig@s

EASEE-gas & Edig@s

SSO & LSO Joint Workshop

July 3rd 2024



Introduction to EASEE-gas and Edig@s

Oliver Schirok VNG Handel & Vertrieb

Chairman MWDWG







Workshop Agenda

- Introduction to EASEE-gas and Edig@s
- Storage customer requirements
- Storage business process and messages for inventory and capacity
- Storage business process and messages for transfer
- LNG business process and messages
- Q&A Session

About EASEE-gas







80+

EUROPEAN

MEMBERS

EASEE-gas promotes and develops solutions for the simplification and streamlining of the trading and physical transfer of gas.



FOUNDED IN 2002

Represents the entire gas value chain





Membership by category

Producers

- Transmission System Operators
- Distribution System Operators
- Storage System Operators
- **LNG System Operators**
- Traders & Shippers
- Suppliers
- End-users
- Prosumers



67 FULL MEMBERS

15 SERVICE PROVIDER MEMBERS





Members across Europe

Producers

- Transmission System Operators
- Distribution System Operators
- Storage System Operators
- **LNG System Operators**
- Traders & Shippers
- Suppliers
- End-users
- Prosumers
- Service Provider

Organisation Structure







Edig@s working group | Who are we?







Edig@s working group | Who are we?







MWDWG Meeting Schedule 2024





Host Company	Location	Dates
Gascade	Kassel (Hybrid)	February - 6/7
EASEE-gas GMoM	Nice (Hybrid)	March - 20/22
Gassco	Haugesund (Hybrid)	April - 24/25
Energinet	Copenhagen (Hybrid)	June - 03/04
Conexus	Riga (Hybrid)	July - 02/03
Gaz System	Warsaw (Hybrid)	September - 03/04
Amber Grid	Vilnius (Hybrid)	October - 22/23
VNG	Berlin (Hybrid)	November - 26/27
ENTSOG - Joint workshop	Brussels (physical)	October 29/30

MWDWG in numbers (2023)



8 Hybrid workgroup meetings conducted





12 Task force meetings held









<u>32</u> Different companies represented

Covered Business Processes





- Capacity Allocation
- Gas Trading
- Nomination & Matching
- Balancing & Settlement
- REMIT & Transparency
- System Operation

MWDWG Goal

Balancing







One solution that fits the business process for Europe.

Decreased IT costs.

Open markets for everyone.

Coordinated change of technology and format.

Digitalisation.

Give small BRPs the possibility to challenge the bigger BRPs in all markets.

What do we want to achieve?



- 1. Edig@s promotion & awareness
 - a) Workshop with SSO's
 - b) Engage with TSO's connected to existing Edig@s market
 - c) Balancing process
- 2. Monitor the development of new gas markets
 - a) Hydrogen networks
 - **b)** CO2
 - c) Future market design
- 3. Review proposed network code changes
 - a) CAM/CMP
 - b) NC INT
- 4. Maintenance of version 6.1

Edig@s 6.1 implementation status



- Publication of version 6.1 in February 2022
- In 2023 first members started exchanging version 6.1 messages
- Phase 1: Nomination & Matching, OTC Gas Trading, General Process
- Phase 2: Balancing & Settlement, Capacity Allocation, System Operation

Implementation support available – do not hesitate to contact us !



Storage customer requirements

Svetlana Pozdysheva

Engie



Why storage products

(focus on short term activities)

Portfolio balancing

B2B/B2C/Power Plant segment balancing (in particular Within Day shape induced by customer demand) Delivery incidents, System shortfalls







Optimisation

Optimize residual capacities Within Day vs Day Ahead arbitration (temporal spreads)

What data we need to manage our storage assets







Asset steering. The information needs to be made available (PUSHed) as soon as it becomes available.

Op<u>eratio</u>nal

- Confirmed quantities,
- Short term capacity transactions (working volume)
- Provisory allocations (for hourly products) : injection/withdrawal, inventory
- · Operational daily minimum/maximum limits
- Guaranteed daily minimum/maximum limits
- Available additional capacity (UIOLI, UBI ...)
 - Variable costs (FG, Euros ...)



Definitive Allocated volumes

Automated feed of contractual data for asset configuration



- Subscribed injection / withdrawal capacities
 - Scheduled maintenances
 - Storage inventory limits
 - Working volume

Harmonized format (Edig@s) and communication means

What we've got ...







Nomination & Matching Mostly harmonized via Edig@s messages

System operation data and Allocations

Heterogeneous formats and means of retrieval (push, pull)

Current situation requires specific connectors per storage operator

Operational processes covered by Edig@s messages









Storage business process and messages for inventory and capacity

Catherine Galiay

Teréga





Business Process – Operational limits and Inventory





1) Storage contracts determine Volume, Injection and Withdrawal rights and obligations



2) Maximum and minimum Inj/Withd. capacities may depend on the storage level and also operational conditions such as maintenances. Storage level positions may be overrun/shortfall.

3) Storage users need up-to-date information for both provisional and definitive data





LIMITS message

Limits supported by the message



INVENT message

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Volume rights Data supported by the message : 500 Allocated inventory level Real time inventory level A provisional at one time of the day Projected inventory level An estimated at the end of day April Nov. Mar Allocated storage overrun / shortfall D+1 D-1 D Flexible message, supporting various storage In this example, if there is no injection done (or not enough), models: this can lead to a shortfall. Daily or Hourly ۲ Projected, Provisional or Definitive **Debit or Credit** D



Storage business process and messages

for transfer

Janis Vilims

Conexus Baltic Grid



General storage business process





1. Storage capacity

Amount of storage space available **to store** energy (gas) Very often storage capacity could cover one or several storage cycles

2. Withdrawal capacity

Amount of energy available to storage user per gas day or gas hour to **take out** gas of storage

3. Injection capacity

Amount of energy available to storage user | per gas day or gas hour to **inject into** storage

4. ... other, storage specific elements



Business Process – Transfers



Necessity – to perform transactions within storage

- 1. Transfer of commodity (gas)
- 2. Transfer of capacity (storage, withdrawal, injection, product)
- 3. Transfer of capacity + commodity («all-or-nothing» scenario)
- 4. More complex or market-specific transactions

Products:

Sets of rights to use certain activities at storage (storages).

Example: SBU or Standard Bundled Unit (Storage capacity, injection and withdrawal capacities)

STOREQ / STOCON Messages



Solution:

To implement standardized yet flexible messaging solution to cover as many cases as possible



Use case examples Transfer of commodity Before the transaction











Use case examples Transfer of commodity



Use case examples Transfer of capacity + comodity Before the transaction











Use case examples Transfer of capacity + commodity





LNG business process

Jeremy Devillers Fluxys



Business Process – LNG messages



1) LNG contracts determine Volume rights, Send-out rights and obligations

2) These rights may depend on the period and activities. Operational conditions such as maintenances also have an impact.

Mainly 2 cases:

- Terminal user with a long-term contract and flat rights over the contractual period \rightarrow no need to exchange this on a regular basis
- Terminal user receiving more rights when an operation is on schedule
 → more fluctuation, implying a real added value to exchange this
 information via messages



LIMITS message offers a solution to communicate this in a flexible way:



Volume / Send-out / Injection Rights Hourly / Daily Interruptible / Firm Provisional / Definitive

Business Process – LNG messages

3) LNG Inventory position is a crucial information for a Terminal User. **INVENT** message offers a solution to communicate this in a flexible way:

Inventory Level / Overrun / Shortfall / Fuelgas

Hourly / Daily

Projected / Provisional / Definitive

4) Certain flow rates may be necessary to ensure the safety of the installation.

FLOWRQ message offers a solution to communicate this in an easy way, replacing emails or phone calls efficiently:

Minimum / Calculated

Input / Output

Hourly







Q&A Session

Download available

https://www.edigas.org/version-6-1

Q&A Session



Question: Is the Edig@s working group aware of the ACER consultation about REMIT II? Will EASEE-gas answer the consultation? TSOs see the need for the Edig@s working group to propose new or adapted messages needed for implementation of the new regulation.

Answer: EASEE-gas is aware of the ongoing consultation and will probably answer, to be decided by the EASEE-gas board. We are also in contact with ACER for future changes on the REMIT process and of course we are ready to help and provide new messages or modifications.

Question: What is the preferred way of exchanging the Edig@s messages presented in the workshop?

Answer: It is recommended to send the messages by an existing protocol that might also be in place already with your business partner, preferably AS4 with the latest ENTSOG profile.

Question: If Storage System Operators have ideas for new products and don't know how Edig@s messages could fit, what should they do then?

Answer: The best way for an initial contact is to start a maintenance request. The form can be found on the Edig@s website. If this is not sufficient because you want to discuss things more in detail, please feel free to reach out to the speakers of the workshop.

Thank you for your attention!

Stay updated: EASEE-gas

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