Emergency Evacuation

- Safety briefing & Evacuation procedures
### Agenda for today

*Please note all sections (other than the Welcome) will allow time for open discussion*

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Time</th>
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<tbody>
<tr>
<td>1</td>
<td><strong>Morning Coffee and Registration</strong></td>
<td>10:00 – 10:30</td>
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<tr>
<td>2</td>
<td><strong>Opening (ENTSOG) (Hendrik Pollex)</strong></td>
<td>10:30 - 10:45</td>
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<tr>
<td></td>
<td>➢ Welcome/Introduction/History/Structure of Event</td>
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<tr>
<td></td>
<td>➢ Objectives</td>
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<tr>
<td>3</td>
<td><strong>Introduction to Network Code INT&amp;DE &amp; Common Data Exchange Solutions (Jef De Keyser)</strong></td>
<td>10:45 – 11:45</td>
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<tr>
<td></td>
<td>➢ Legal Background</td>
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<td>➢ CNOT Process</td>
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<td>➢ Types of Data Exchanges</td>
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<td>➢ Questions and Answers (All)</td>
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<td><strong>Business Requirement Specification CAM &amp; CMP</strong></td>
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<td>➢ Business Process Explained</td>
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<td><strong>Lunch</strong></td>
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<td><strong>Business Requirement Specification NOM &amp; MAT</strong></td>
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<td>➢ Next Steps</td>
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<td>➢ Invitation to reply to public consultation</td>
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<td>7</td>
<td><strong>Closing</strong></td>
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ENTSOG

Members Map
STATUS: JANUARY 2016

- Members
- Associated Partners
- Observers

45 Members
2 Associated members
26 EU Countries

4 Observers from EU affiliate countries
- Gassco AS (Norway)
- Swissgas AS (Switzerland)
- GA-MA AD (FYROM)
- Ukrtransgaz (Ukraine)
# Agenda for today

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Common Network Operation Tools

Introduction - Legal background

Jef De Keyser
Subject Manager, System Operation

Brussels 6 September 2016
Article 8

Tasks of the ENTSO for Gas

1. The ENTSO for Gas shall elaborate network codes in the areas referred to in paragraph 6 of this Article upon a request addressed to it by the Commission in accordance with Article 6(6).

2. The ENTSO for Gas may elaborate network codes in the areas set out in paragraph 6 with a view to achieving the objectives set out in Article 4 where those network codes do not relate to areas covered by a request addressed to it by the Commission. Those network codes shall be submitted to the Agency for an opinion. That opinion shall be duly taken into account by the ENTSO for Gas.

3. The ENTSO for Gas shall adopt:

   (a) **common network operation tools** to ensure coordination of network operation in normal and emergency conditions, including a common incidents classification scale, and research plans;
Introduction - Regulation

COMMISSION REGULATION (EU) 2015/703 - Network code on interoperability and data exchange rules - Recitals

(3) The lack of harmonisation in technical, operational and communication areas could create barriers to the free flow of gas in the Union, thus hampering market integration. Union interoperability and data exchange rules should allow the necessary harmonisation in those areas, therefore leading to effective market integration. For that purpose and for facilitating commercial and operational cooperation between adjacent transmission system operators, this Regulation should address interconnection agreements, units, gas quality, odourisation and data exchange. It should provide rules and procedures to reach an appropriate level of harmonisation towards efficient gas trading and transport across gas transmission systems in the Union.

(8) Chapter V of this Regulation should ensure the appropriate degree of harmonisation of data exchange for supporting the completion and functioning of the European internal gas market, security of supply and appropriate and secure access to information, facilitating cross-border transmission activities.

- Article 24

Development process for common network operation tools

1. For each data exchange requirement under Article 20(2), Entsoe shall develop a common network operation tool in accordance with Article 8(3)(a) of Regulation (EC) No 715/2009 and shall publish it on its website. A common network operation tool shall specify the common data exchange solution relevant for the respective data exchange requirement. A common network operation tool may also include business requirement specifications, release management and implementation guidelines.

2. Entsoe shall establish a transparent process for the development of all common network operation tools. Entsoe shall conduct a consultation for each common network operation tool.

Article 20

General provisions

1. For the purposes of this Chapter, ‘counterparties’ means network users active at:
   (a) interconnection points; or
   (b) both interconnection points and virtual trading points.


Article 21

Common data exchange solutions

1. Depending on the data exchange requirements under Article 20(2), one or more of the following types of data exchange may be implemented and used:
   (a) document-based data exchange: the data is wrapped into a file and automatically exchanged between the respective IT systems;
   (b) integrated data exchange: the data is exchanged between two applications directly on the respective IT systems;
   (c) interactive data exchange: the data is exchanged interactively through a web application via a browser.
Introduction - Regulation

COMMISSION REGULATION (EU) 2015/703 - Network code on interoperability and data exchange rules - *Article 23 – Implementation and existing solutions*

**Article 23**

Implementation of the common data exchange solutions

1. Depending on the data exchange requirements under Article 20(2), transmission system operators shall make available and use the common data exchange solutions defined in Article 21.

2. Where data exchange solutions between a transmission system operator and concerned counterparties are in place on the date of entry into force of this Regulation and provided that the existing data exchange solutions are compatible with Article 22 and with data exchange requirements under Article 20(2), the existing data exchange solutions may continue to apply after consultation with network users and subject to the approval of the national regulatory authority of the transmission system operator.

1. Transmission system operators shall coordinate the implementation of standard communication procedures, coordinated information systems and compatible electronic on-line communications such as shared data exchange formats and protocols, as well as agree principles as to how this data is treated.

2. Standard communication procedures shall include, in particular, those relating to network users’ access to the transmission system operators’ auction system or a relevant booking platform and the review of auction information provided. The timing and content of the data to be exchanged shall be compliant with the provisions set out in Chapter III.

3. The standard communication procedures adopted by transmission systems operators shall include an implementation plan and duration of applicability, which shall be in line with the development of booking platform(s) as set out in Article 27. Transmission systems operators shall ensure confidentiality of commercially sensitive information.
COMMISSION REGULATION (EU) No 312/2014 - Network Code on Gas Balancing of Transmission Networks

- CHAPTER IV NOMINATIONS - Articles 12-18

→ Article 13 Information regarding nominations and re-nominations at interconnection points

(1) interconnection point identification;

(2) direction of the gas flow;

(3) network user identification or, if applicable, its balancing portfolio identification;

(4) network user’s counterparty identification or, if applicable, its balancing portfolio identification;

(5) start and end time of the gas flow for which the nomination or re-nomination is submitted;

(6) gas day D;

(7) the gas quantity requested to be transported.
Introduction - Regulation

GOAL
- Remove barrier for free flow of gas in EU through harmonisation
  - Harmonised operational procedures at IP’s
  - Harmonised ICT communication standard between TSO’s and TSO – NU (network user)

OUTCOME
- Faster implementation (configuration – avoid coding)
- Cost efficiency (use of – limited number- standard solutions; avoid tailor made implementations)
- Multiple vendor solutions (free available standards – ENTSOG profiles & Edig@s)
- Existing (local) solutions can still be used (with NRA approval)
Data Exchange types

- Components for Data Exchange
  - Data content (WHAT) → Business related
  - Data Network → Internet
  - Data protocol (HOW) → IT technology

- Types of Data Exchanges – INT NC Art 21 (1)
  - Document based (AS4 – Edig@s XML)
    The data is wrapped into a file and automatically exchanged
  - Integrated (HTTPS – SOAP - Edig@s XML)
    The data is exchanged directly between two applications
  - Interactive (web browser)
    The data is exchanged interactively via a browser
Data Exchange types

- Document based Data Exchange is most appropriate for:
  - Near real-time communication
  - Time critical transmissions
  - Non-repudiation
  - Authentication
  - Confidentiality (commercially sensitive information)
  - Traceability
  - High volume and high frequency preformatted data
  - Reliable messaging
  - 24/7 availability
Data Exchange types

Integrated Data Exchange is most appropriate for:

- Real-time communication
- Time critical transmissions
- Authentication
- Confidentiality (commercially sensitive information)
- Client-Server (uni-directional) communication
- High volume and high frequency queryable data
- Reliable messaging
- 24/7 availability (server side)
Data Exchange types

Interactive Data Exchange is most appropriate for:

- Informational, public data
- Non-Time critical communications
- Client-Server (uni-directional) communication
- Low volume and low frequency queryable data
- Very good accessibility (laptop, smart phone,...)
- Use of standard browser, no specific software required
- Fast user set-up/configuration
- 24/7 availability (server side)
Data Exchange - WHAT and HOW

WHAT

Business

WHAT

Business Logic
(process and activities)

Document structure and content

HOW

Reliable Message Delivery
Transparency
Security
Integration

Communication Protocols

Network Infrastructure

HOW

Information Technology (IT)

Market rules

Implementation Guide

Communication program

IT standards (e.g. HTTPS/SOAP)

e.g. Internet, private network, virtual private network
Data Exchange – Common solution

- **Field of application**
  - NC BAL, NC CAM&CMP, NC INT
  - For IP & VTP related communications
  - TSO-TSO and TSO to NU

- **Selection of the Common Solution**
  - Identify data exchanges between parties due to NC obligations
    - Use case and sequence diagrams in BRS
    - Study criticality, confidentiality, frequency, security, operational cost, business risks, availability, reliability ...
  - Select one of the three types for data exchange
  - Optional/additional functionalities (not directly related to NC) will be identified as „Recommendations“ without an implementation lead time (dead line)
Data Exchange – Common solution

- **BRS documents**
  - Common solution inserted in the process description
    - Balancing and INT NC: BAL0453_160412_BRS on nominations
    - CAM/CMP NC: CAP0554_160412_BRS_CAM+CMP

- **Overview table (under public consultation)**
  - Overview table with all identified communications
    - INT0878_20160906_Common_Data_Exchange_Solution
      - Table contains a reference to the BRS (document name, chapter, line number) where each interchange is described.
      - Column I contains the proposed common solution
      - Columns K,L,M are used for participants feedback
      - All communication FROM and TO Network users are under consultation
Governance of future changes

- ENTSOG obligation according to Art 24 INT NC

- Requirements for changes due to:
  - New network code
  - Amendment of existing network code
  - Correction of identified errors
  - Improvements in light of experience
  - Developements/evolutions in technology

- Can be proposed by ENTSOG member or any stakeholder (by standardised form available on ENTSOG website)

- It shall be motivated and explained

- In case the change is not accepted, the requesting party will receive a reasoned response
Document management and publication

- New releases will contain history log of changes
- Stakeholders shall be involved during the process
- Validated documents will be published on ENTSOG website
Common Network Operation Tools

Development Process
Business Requirements Specifications
(Message) Implementation Guidelines

Jef De Keyser

Brussels 6 September 2016
**Introduction - CNOT process objective**

**WHAT?**
- CNOT → Translate Network Codes into implementable solutions
- CNOT (may) consist of Business Requirements Specifications, Release Management and Implementation Guidelines

**HOW?**
- Transparent proces for development of CNOTs
- Ensure stakeholders involvement (workshops and public consultation)
- Cooperate with other relevant expert organisations (EASEE-gas, EFET, GIE, IOGP, ...)
- Ensure that the data exchange solutions will be implementable
- Make available all the relevant documents on ENTSOG’s website
Introduction - CNOT process overview

1. Scoping
   - Scope
   - Project plan

2. BRS development
   - Business Process Model
   - Business requirements
   - Functional Specifications

3. IG development
   - Structures for data flows
   - Recommendations
   - Document change log

4. CNOT delivery
   - Publication of CNOT (BRS+IG)

~12 months

PROJECT PLAN PUBLICATION
FORMAL CONSULTATION
EXPERT GROUPS (EASEE-gas)
WORKSHOP
Visibility for stakeholders deliberation

STAKEHOLDER INVOLVEMENT
CONSULTATION WORKSHOP

INFORMAL, BI-LATERAL and ADHOC INTERACTIONS THROUGHOUT THE PROCESS
CNOT (common network operation tool) – For Data Exchange = Business Requirement Specifications + Implementation Guidelines + Release management

- **Phase I**: Scoping – 3-4 months (define topics and install Task Force team)

- **Phase II**: Functional analysis and BRS development – 6-12 months (depending on complexity, impact on existing process and requested changes)

- **Phase III**: (M)IG (implementation guidelines) development (EASEE-gas/Edigas workgroup) – 3-6 months (depending on the level of details in the BRS)

- **Phase IV**: Public consultation – 1-3 months (workshop, Pub.Cons., final review and approval of the CNOT + publication)

**Implementation phase – lead time 12 (?) months** (see consultation questionnaire)
Introduction – CNOT BRS
- UML (unified modelling language) → translate NC into a process description
1. Define Use cases with use case diagrams - Example
Introduction – CNOT BRS

- UML (unified modelling language) → translate NC into a process description

2. Identify operational sequences with sequence diagrams
Introduction – CNOT BRS
- UML (unified modelling language) → translate NC into a process description

3. Establish workflow with activity diagrams - Example
Introduction – CNOT (M)IG (EASEE-gas)

Translate Information model → Edig@s-XML message document

- Detailed description of the structure and elements of each message

3.3.2 INFORMATION MODEL DESCRIPTION

A Nomination Document is used during the transport phase by a Shipper to send the initial nominations and any rectifications after reception of the Nomination Confirmation Document following the initial transmission.

3.3.3 RULES GOVERNING THE NOMINATION DOCUMENT CLASS

A document is uniquely identified by:
- The identification of the document
- The issuer identification
- The identification of the version.

3.3.3.1 IDENTIFICATION

<table>
<thead>
<tr>
<th>ACTION</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>Definition of element</td>
<td>Identification of the document describing the Nomination Document.</td>
</tr>
<tr>
<td>Description</td>
<td>A Nomination Document must have a unique identification assigned by the issuer of the document to be sent to a recipient for a given validity period. The issuer must guarantee that this identification is unique over time.</td>
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<tr>
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<td>Applicability</td>
<td>This information is mandatory.</td>
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<tr>
<td>Dependence requirements</td>
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3.3.3.2 VERSION

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<tr>
<td>Definition of element</td>
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</tr>
<tr>
<td>Description</td>
<td>The document version is used to identify a given version of a Nomination Document. The first version number for a given document identification shall normally be 1. The document version number must be incremented for each retransmission of a document that contains changes to the previous version. The receiving system shall only accept a document with a version number which is greater than the previous version number of the same document.</td>
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<tr>
<td>Size</td>
<td>A version number may not exceed 3 numeric characters.</td>
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<tr>
<td>Applicability</td>
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Introduction – CNOT (M)IG (EASEE-gas)

Translate Information model → Edig@s-XML message document

- XSD files - XML schema that defines the structure of an XML document

```xml
<?xml version="1.0" encoding="utf-8"?>
  <!-- INCLUDE code lists as well as restricted codelists -->
  <xs:include schemaLocation="urn:easeegas.eu:edigas:nominationandmatching:nominationanddocument-5-1-restricted-codes.xsd"/>
  <!-- END INCLUDE -->
  <xs:element name="Nomination_Document" type="Nomination_Document"/>
  <xs:simpleType name="AccountType-base" sawdsl:modelReference="http://easeegas-edigas#String">
    <xs:restriction base="xs:string">
      <xs:maxLength value="35"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="AccountType" sawdsl:modelReference="http://easeegas-edigas#String">
    <xs:simpleContent>
      <xs:extension base="AccountType-base">
        <xs:attribute name="codingScheme" type="TsoCodingSchemeTypeList" use="required"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
  <xs:simpleType name="PartyType-base" sawdsl:modelReference="http://easeegas-edigas#String">
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      <xs:maxLength value="16"/>
    </xs:restriction>
  </xs:simpleType>
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        <xs:attribute name="codingScheme" type="EicCodingSchemeTypeList" use="required"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
  <xs:complexType name="Account" sawdsl:modelReference="http://easeegas-edigas#Account">
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</xs:schema>
```
Questions and Answers
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Common Data Exchange Solution for Capacity Allocation and Congestion Management Procedures

Maria Jost
Advisor Market
1. Introduction

Business Requirement Specification (BRS) for Capacity Allocation and Congestion Management Procedures
Basis for CAM & CMP BRS


**CMP Guideline**
- Provides rules for surrender of capacity and making available additional capacity (Article 2.2.2, 2.2.4 and 2.2.5)
- Adopted by the European Commission on 24 August 2012

**NC CAM**
- Includes requirements for Booking Platforms, capacity auctioning and bundling (Articles 5, 11 – 15, 19 and 27)
- Adopted by the European Commission on 14 October 2013

**NC INT**
- Provides rules on allocation process and data exchange between TSOs, Auction Office and NUs at IPs (Articles 9 and 21)
- Adopted by the European Commission on 30 April 2015
NC CAM and CMP guidelines

Network Code on Capacity Allocation Mechanism (NC CAM) defines:

- standardised capacity allocation mechanism as auction procedure for relevant Interconnection Points within Europe, including the underlying capacity products to be offered and the description of how cross-border capacity is to be allocated

- the manner in which adjacent TSOs cooperate in order to facilitate capacity sales, taking into consideration general commercial as well as technical rules related to capacity allocation mechanisms

Guidelines for Congestion Management Procedure (CMP Guidelines) defines:

- how congestion management procedures are put into place in the event of contractual congestion and how additional capacity is made available to the market
CMP Guidelines

Objective

Enhance markets access and thereby competitiveness by effectively targeting contractual congestion

IEM Contribution

- To relief contractual congestion
- To enable Network Users to re-offer unused capacity
- To avoid capacity hoarding

Oversubscription and buy-back

or

Day ahead UIOLI: restriction of renomination rights

Surrender of Capacity

Long Term UIOLI: withdrawal of systematically underutilized capacity
Objective

- Standardised set of Bundled capacity products
- Auctions via booking platforms
- Short term reservations
- Virtual Interconnection Points

IEM Contribution

- Simplify allocation procedures
- Establish one-stop-shop for booking
- Ensures availability of short term capacity
- Facilitate hub-to-hub booking

Harmonised auction procedures and bundled products enhance transparent and equal access
Aim and Scope of BRS CAM & CMP

- BRS CAM & CMP define the business requirements that are necessary for a harmonised implementation of the Network Code and Guideline in order to auction, trade and allocate (additional) firm and interruptible capacity.

- BRS CAM & CMP enable EASEE-gas to develop message types that cover the parties' interactions in the described processes.

- BRS does not cover CAM & CMP processes, where no explicit harmonised data exchange is foreseen, e.g.
  - Capacity calculation and maximisation
  - Co-ordination of maintenance information
  - Competing auctions
  - Tariff provisions
2. Common Data Exchange Solutions for Capacity Allocation, Congestion Management and other related processes
BRS CAM & CMP – covered processes

- Network User registration
- Credit limit management
- Bookable Point registration
- Capacity right surrender
- Offered capacity determination
- Capacity auction
- Auction result publication
- Buyback auction
- Secondary market sales
BRS CAM & CMP – covered processes

- Network User registration
- Credit limit management
- Bookable Point registration
- Capacity right surrender
- Offered capacity determination
- Capacity auction
- Auction result publication
- Buyback auction
- Secondary market sales

Common data exchange solutions for interactions between involved parties
**CAM & CMP processes & data exchange**

**List of actors**

- Auction Office
- Network User
- Transmission System Operator

“Different from the connections (‘TSO-TSO’, ‘TSO-Shipper’), the connection ‘TSO to Auction Office’ data exchange is outside the scope of the INT Code since the backend connection of the TSOs to their auction offices is a purely internal TSO matter (rf. to Art. 20 (2) NC INT). Consequently, **ENTSOG consults solely on data exchange solutions for connections foreseen in the regulation. Such sharpened focus also helps to simplify the consultation of such highly technical matters.**”
Network User registration process

- Offered capacity may be either bundled or unbundled. Offered bundled and offered unbundled capacities may be distinguished.
  - If they are not distinguished, the Auction Office may determine the bundled and unbundled values.
  - Includes reserve price, large price step and small price step when relevant.

- A TSO may inform an Auction Office of the credit limits for locally registered Network Users on a per period, type and product basis.

- Bidding round closure
  - Registration of bookable points
  - Registration of Network User to network
  - Registration of Network User to auction office
  - Forward Auction Office Network User registration
  - Approved Network Users
  - Acknowledge registration
  - Surrendered capacity
  - Offered capacity for auction
  - Credit limit
  - Capacity Bid
  - Allocate capacity
  - Allocated capacity
  - Detailled capacity allocated
  - Aggregated auction results
  - Determine surrendered capacity sold
  - Used credit limit
  - Determine if buyback requirements
  - Reverse auction specification
  - Reverse auction requirements
  - Reverse auction bid
  - Allocate reverse auction results
  - Detailled reverse auction results
  - Reverse auction results

Network User
- Auction office
- Transmission System Operator
Network User registration process

Network User

Activity

Initial

Define user account requirements

Send user account information

Correct errors

Send rejection

Receive user account information

Validate user account information

Information correct

Send rejection

Send user accounts for verification

Receive rejection/confirmation

User accounts OK?

Send user account acceptance

Implement user accounts

End process

Auction Office

Activity

Receive user account information

Receive rejection/confirmation

User accounts confirmed?

Send confirmation

Receive user accounts for validation

Transmission System Operator

Activity

Receive user account information

Send rejection

Send user accounts for verification

Receive rejection/confirmation

User accounts OK?

Send confirmation

Receive user accounts for validation
## CAM & CMP processes & data exchange

### Network User registration

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality Level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network User Registration to TSO</td>
<td>Network User</td>
<td>Transmission System Operator</td>
<td>Private</td>
<td>Recommendation - Interactive</td>
</tr>
<tr>
<td>Network User Registration to Auction Office</td>
<td>Network User</td>
<td>Auction Office</td>
<td>Private</td>
<td>Recommendation - Interactive</td>
</tr>
<tr>
<td>Approved Network User</td>
<td>Transmission System Operator</td>
<td>Auction Office</td>
<td>Private</td>
<td>Recommendation - Interactive</td>
</tr>
<tr>
<td>Approved Network User</td>
<td>Auction Office</td>
<td>Registered Network User</td>
<td>Private</td>
<td>Recommendation - Interactive</td>
</tr>
</tbody>
</table>
Credit limit management process

Credit limit data per Network User

Data about used credit limit per Network User

Transmission System Operator

Network User

Auction Office

Credit limit data

Transmission System Operator

Network User

Auction Office

Credit limit data per Network User

Data about used credit limit per Network User

Transmission System Operator
## CAM & CMP processes & data exchange

### Credit limit management

<table>
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</thead>
<tbody>
<tr>
<td>Credit Limit</td>
<td>Transmission System Operator</td>
<td>Auction Office</td>
<td>Private</td>
<td>Recommendation - Document Based</td>
</tr>
<tr>
<td>Credit Limit</td>
<td>Auction Office</td>
<td>Transmission System Operator</td>
<td>Private</td>
<td>Recommendation - Document Based</td>
</tr>
</tbody>
</table>
CAM & CMP processes & data exchange

Bookable point registration process

- Network User
- Auction office
- Transmission System Operator

Registration of bookable points

Credit limit

Allocate capacity

Determine surrendered capacity sold

Reverse auction requirements

Allocate reverse auction results

Reverse auction results

Reverse auction bid

Allocate reverse auction results

Detailled reverse auction results

Publication of Bookable point

Auction Office

Bookable point data

Transmission System Operator
Bookable point registration process

act Bookable Point Administration workflow

<table>
<thead>
<tr>
<th>Transmission System Operator</th>
<th>Auction Office</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Begin</strong></td>
<td></td>
</tr>
<tr>
<td>Prepare new or revised bookable point information</td>
<td>Receive bookable point information</td>
</tr>
<tr>
<td>Send bookable point registration information</td>
<td>Validate bookable point information</td>
</tr>
<tr>
<td>Correct errors</td>
<td>Send negative acknowledgement</td>
</tr>
<tr>
<td>Receive acknowledgement</td>
<td>Information OK?</td>
</tr>
<tr>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Errors?</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>Send positive acknowledgement</td>
</tr>
<tr>
<td>Register Bookable point</td>
<td></td>
</tr>
<tr>
<td>End</td>
<td></td>
</tr>
</tbody>
</table>

Errors?

Yes

No
# CAM & CMP processes & data exchange

## Bookable point registration

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bookable Point Registration</td>
<td>Transmission System Operator</td>
<td>Auction Office</td>
<td>Private</td>
<td>Recommendation - Interactive</td>
</tr>
</tbody>
</table>
CAM & CMP processes & data exchange

Capacity right surrender

Network User

Auction Office

Transmission System Operator

Surrendered capacity request

Surrendered capacity data

Information about surrendered capacity sold

Determine surrendered capacity sold
Capacity right surrender process

Start prior to targeted market

Validate surrendered capacities

Send rejected quantities

Validate surrendered capacities

Surrendered information correct

Validate rights to be surrendered

See auction process

Integrate capacity into offered capacity

Offered Capacity

Send auction results on capacity surrendered

End process

End
# CAM & CMP processes & data exchange

## Capacity right surrender

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality Level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surrender Capacity Rights</td>
<td>Registered Network User</td>
<td>Auction Office</td>
<td>Private</td>
<td>Interactive</td>
</tr>
<tr>
<td>Surrendered Capacity Sold</td>
<td>Transmission System User</td>
<td>Registered Network User</td>
<td>Private</td>
<td>Document Based</td>
</tr>
</tbody>
</table>
Offered capacity determination

Offered capacity may be either bundled or unbundled. Offered bundled and offered unbundled capacities may be distinguished. If they are not distinguished, the Auction Office may determine the bundled and unbundled values.

Includes reserve price, large price step and small price step when relevant.

This may be web based or an electronic document.

A TSO may inform an Auction Office of the credit limits for locally registered Network Users on a per period, type and product basis.

In the diagram:
- Network User
- Auction office
- Transmission System Operator
- Auction platform
- Offered capacity for auction
- TSO Offered Capacity
- Information about offered capacity in auction
- Offered capacity data
- Auction Office
- Offered capacity in auction
- Transmission System System Operator
# CAM & CMP processes & data exchange

## Offered capacity determination

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
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</thead>
<tbody>
<tr>
<td>Offered Capacity</td>
<td>Transmission System Operator</td>
<td>Auction Office</td>
<td>Private</td>
<td>Recommendation – Document Based</td>
</tr>
<tr>
<td>Offered Capacity</td>
<td>Auction Office</td>
<td>Transmission System Operator</td>
<td>Private</td>
<td>Recommendation – Document Based</td>
</tr>
<tr>
<td>Offered Capacity</td>
<td>Auction Office</td>
<td>Registered Network User</td>
<td>Public</td>
<td>Interactive</td>
</tr>
</tbody>
</table>
Offered capacity may be either bundled or unbundled. Offered bundled and offered unbundled capacities may be distinguished. If they are not distinguished, the Auction Office may determine the bundled and unbundled values.

Includes reserve price, large price step and small price step when relevant.

A TSO may inform an Auction Office of the credit limits for locally registered Network Users on a per period, type and product basis.
**Auction Process**

**Network User**
- Submit Bid
- Wait for end of auction or bidding round
- Prepare new bids for next auction bidding round

**Auction Office**
- Wait Auction
- Publish information associated with bidding round
- Wait for bids
- Receive Bid
- Note bid received
- Bid accepted?
- No
  - Negative acknowledgement
- Yes
  - Positive acknowledgement
- Bidding round terminated
- Finalise bidding round results

**Transmission System Operator**
- Wait Auction
- Publish information associated with bidding round
- Receive Bid
- Note bid received
- Bid accepted?
- No
  - Negative acknowledgement
- Yes
  - Positive acknowledgement
- Bidding round terminated
- Finalise bidding round results
- Publish total demand

**Decision Points**
- New bidding round?
  - Yes
    - Inform bidders of new bidding round
    - Initiate new bidding round
- End auction process
  - No
  - End auction process
## Auction Process

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality Level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Bid</td>
<td>Registered Network User</td>
<td>Auction Office</td>
<td>Private</td>
<td>Interactive</td>
</tr>
<tr>
<td>Allocated Capacity</td>
<td>Auction Office</td>
<td>Registered Network User</td>
<td>Private</td>
<td>Interactive</td>
</tr>
<tr>
<td>Detailed Capacity Allocated</td>
<td>Auction Office</td>
<td>Transmission System Operator</td>
<td>Private</td>
<td>Recommendation - Document Based</td>
</tr>
<tr>
<td>Aggregated Auction Results</td>
<td>Auction Office</td>
<td>All</td>
<td>Public</td>
<td>Interactive</td>
</tr>
</tbody>
</table>
Buyback (Reverse) Auction Process

<table>
<thead>
<tr>
<th>Network User</th>
<th>Auction Office</th>
<th>Transmission System Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start reverse auction process</td>
<td>Analyze system integrity</td>
<td>No</td>
</tr>
<tr>
<td>Reverse auction required?</td>
<td>Prepare reverse auction information</td>
<td>Yes</td>
</tr>
<tr>
<td>Send reverse auction request</td>
<td>Receive reverse auction request</td>
<td></td>
</tr>
<tr>
<td>Publish reverse auction information</td>
<td>Receive reverse auction bid</td>
<td></td>
</tr>
<tr>
<td>Initiate reverse auction</td>
<td>Process bids as for a normal auction</td>
<td></td>
</tr>
<tr>
<td>Wait for reverse auction closure</td>
<td>Process all valid bids in conformity with the standard auction process</td>
<td></td>
</tr>
<tr>
<td>End reverse auction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

act 5 - Reverse auction (Buyback) workflow
### Buyback (Reverse) Auction Process

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality Level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Auction Requirements</td>
<td>Transmission System Operator</td>
<td>Auction Office</td>
<td>Private</td>
<td>Recommendation - Document Based</td>
</tr>
<tr>
<td>Reverse Auction Bid</td>
<td>Registered Network User</td>
<td>Auction Office</td>
<td>Private</td>
<td>Interactive</td>
</tr>
<tr>
<td>Allocate Reverse Auction Results</td>
<td>Auction Office</td>
<td>Transmission System Operator</td>
<td>Private</td>
<td>Recommendation - Document Based</td>
</tr>
<tr>
<td>Allocate Reverse Auction Results</td>
<td>Auction Office</td>
<td>Registered Network User</td>
<td>Private</td>
<td>Interactive</td>
</tr>
</tbody>
</table>
Secondary Market Trade Process

- Trade on the secondary market
- Trade for verification
- Information about trade approval / rejection
- Trade acceptance
- Validate trade

Roles:
- Network User
- Transmission System Operator

Process:
1. Trade on the secondary market
2. Trade for verification
3. Information about trade approval / rejection
4. Trade acceptance
5. Validate trade
Secondary Market Trade Process

Act 4 - Secondary capacity transfer

<table>
<thead>
<tr>
<th>Network User</th>
<th>Transmission System Operator</th>
<th>New Network User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start rights transfer</td>
<td>validate rights transfer</td>
<td></td>
</tr>
<tr>
<td>Secondary Capacity Rights transferred</td>
<td>Transfer information valid</td>
<td>Modify capacity rights portfolio</td>
</tr>
<tr>
<td>Correct transfer information</td>
<td>Negative acknowledgement</td>
<td></td>
</tr>
<tr>
<td>Wait for reply</td>
<td>Yes</td>
<td>Inform new rights holder of transfer</td>
</tr>
<tr>
<td>End transfer</td>
<td></td>
<td>Note rights transfer</td>
</tr>
<tr>
<td>End process</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note rights transfer

CapacityRightsTransfer

CapacityRightsTransferConfirmation

CAM & CMP processes & data exchange
# Secondary Market Trade Process

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality Level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Market Sales</td>
<td>Registered Network User (or Auction Office)</td>
<td>Transmission System Operator</td>
<td>Private</td>
<td>Interactive</td>
</tr>
<tr>
<td>Secondary Market Sales</td>
<td>Transmission System Operator</td>
<td>Registered Network User (or Auction Office)</td>
<td>Private</td>
<td>Interactive</td>
</tr>
</tbody>
</table>
Thank You for Your Attention

Maria Jost
Adviser, Market
ENTSOG -- European Network of Transmission System Operators for Gas
Avenue de Cortenbergh 100, B-1000 Brussels

EML:  Maria.jost@entsog.eu
WWW:  www.entsog.eu
## Agenda for today

<table>
<thead>
<tr>
<th></th>
<th>Activity</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Opening</td>
<td>10:30-10:45</td>
</tr>
<tr>
<td>2</td>
<td>Introduction to Network Code INT&amp;DE &amp; Common Data Exchange Solutions</td>
<td>10:45-11:45</td>
</tr>
<tr>
<td></td>
<td>Coffee Break</td>
<td>11:45-12:00</td>
</tr>
<tr>
<td>3</td>
<td>Business Requirement Specifications CAM &amp; CMP</td>
<td>12:00-13:00</td>
</tr>
<tr>
<td></td>
<td>Lunch Break</td>
<td>13:00-14:00</td>
</tr>
<tr>
<td>4</td>
<td>Business Requirement Specifications Nomination &amp; Matching</td>
<td>14:00-15:00</td>
</tr>
<tr>
<td></td>
<td>Coffee break</td>
<td>15:00-15:15</td>
</tr>
<tr>
<td>5</td>
<td>Public Consultation</td>
<td>15:15-16:15</td>
</tr>
<tr>
<td>6</td>
<td>Closing Remarks</td>
<td>16:15-16:30</td>
</tr>
</tbody>
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# Agenda for today

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</tr>
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</table>
Common Data Exchange Solution for Nomination and Matching Procedures

Mihai Goage
Advise, Market
Content

1. Introduction on BRS for Nomination & Matching procedures

2. Background and Concept of Single-sided and Double-sided nominations

3. Common Data Exchange Solution for Nomination authorisation process

4. Common Data Exchange Solution for Nomination & Matching processes
1. Introduction

Business Requirement Specification (BRS) for Nomination and Matching Procedures
For the good understanding of the complete business process, it is recommended to read both the BRS (business rules specifications) and the MIG (message implementation guidelines) together and they have to be seen as one whole document.

For further information please contact:

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The **processes** for Nomination and Matching **have not been changed** in the BRS document.

**What’s new?**

**Common Data Exchange Solutions** for the Nomination and Matching processes have been **inserted** and **explained**.
Basis for NOM BRS

Business Requirement Specification for the Nomination and Matching Procedures, based on three Network Codes

**NC BAL**
- Provides rules for the exchange of nominations and re-nominations at IPs (Article 12 – 17)
- Adopted by the European Commission on 26 March 2014

**NC CAM**
- Includes obligation to allow single nomination for bundled capacity at IPs (Article 19.7)
- Adopted by the European Commission on 14 October 2013

**NC INT**
- Provides rules on matching process and data exchange between TSOs and NUs at IPs (Article 8 and 21)
- Adopted by the European Commission on 30 April 2015
2. Background & Concept of single-sided and double-sided nominations
Nomination process (at IPs) in BAL NC

Chapter IV of the BAL NC (Articles 12 – 17) provides general rules for the submission of nominations at IPs from network users to TSOs:

- Standardised units to be used in nominations/re-nominations
- A set of minimum information to be included in nominations/re-nominations
- Procedures for nominating at IPs (including deadlines, confirmations, etc.)
- Procedures for re-nominating at IPs (including deadlines, confirmations, etc.)
- Reasons for rejecting nominations/re-nominations

**BAL NC:**
Defines general rules and minimum requirements to be applied in nomination & matching process

**Business Requirement Specification:**
Defines detailed process for harmonised transmission of information between parties involved in nomination & matching process

Specified in:

The processes defined in the BRS document are only referring to Nominations at interconnection points.
Nominations process (at IPs) in BAL NC

The Balancing Network Code standardises the nomination procedure at IPs

Shippers submit **nominations** to TSO no later than the **nomination deadline**: 13:00 UTC (12:00 UTC when daylight saving time is applied)
TSO sends the **confirmation notice** to shippers no later than the **confirmation deadline**: 15:00 UTC (14:00 UTC when daylight saving time is applied)
TSO roles in Nomination and Matching

1. In the context of double-sided nominations:
   - **Both TSOs** at the IP receive corresponding nomination messages from the network users active in the respective systems.

2. In the context of single-sided nominations (active/passive TSO):
   - Only one of the TSOs is receiving the single-sided nomination messages. This TSO shall be deemed as **active TSO**.
   - The adjacent TSO receives the single sided nomination messages forwarded by the active TSO. This TSO shall be deemed as **passive TSO**.

3. In the context of the matching process (initiating/matching TSO):
   - One TSO initiates the matching process by sending all necessary matching data to the adjacent TSO to conduct the matching. This TSO is deemed **initiating TSO**.
   - The adjacent TSO conducts the matching based on the data provided by the initiating TSO. This TSO is deemed **matching TSO**.
Active/Passive vs. Initiating/Matching

Matching role is independent from receiving single-sided nominations from network users

Case 1: Passive TSO as matching TSO

Network User

TSO 1 (active/initiating TSO)

Forwarding of single-sided nomination

TSO 2 (passive/matching TSO)

Transmission of matching data

Network User

Case 2: active TSO as matching TSO

Network User

TSO 1 (passive/initiating TSO)

Forwarding of single-sided nomination

TSO 2 (active/matching TSO)

Transmission of matching data

Network User

For illustration purposes, the following process descriptions only cover case 1 and in these examples is not represented the case that the same legal entity (NU) is active at both sides
Single-sided and Double-sided process

Based on the provisions in the respective Network Codes, two different processes for submitting nominations are foreseen:

**Single-Sided Nominations**
- Only submitted to **one** TSO at the IP
- Submitted only by **one** NU
- No distinction between bundled and unbundled capacity products
- No distinction between firm and interruptible capacity products

**Double-Sided Nominations**
- Submitted to **both** respective TSOs at the IP
- Submitted by **both** NUs individually
- No distinction between bundled and unbundled capacity products
- No distinction between firm and interruptible capacity products

**Note:** Single- and Double-sided nominations are not different message types but two possible specifications within the nomination message and can e.g. be included in one data flow.
Single-sided and Double-sided process

<table>
<thead>
<tr>
<th></th>
<th>Single-Sided Nomination</th>
<th>Double-Sided Nomination</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nomination of transport at IP from NU to active/initiating TSO.</td>
<td>Nomination of transport at IP from NUs to both respective TSOs at the IP.</td>
</tr>
<tr>
<td>2</td>
<td>(a) Forwarding of single-sided nomination and (b) Information on processed quantities to passive/matching TSO.</td>
<td>(a) ------ (b) Information on processed quantities to matching TSO.</td>
</tr>
<tr>
<td>3</td>
<td>Information about matching results from passive/matching TSO to active/initiating TSO.</td>
<td>Information about matching results from matching TSO to initiating TSO.</td>
</tr>
<tr>
<td>4</td>
<td>Confirmation of transport from both TSOs to respective NU.</td>
<td>Confirmation of transport from both TSOs to respective NU.</td>
</tr>
</tbody>
</table>
3. Common Data Exchange Solution for Nomination authorisation process
Nomination authorisation process

- Valid authorisation is a precondition for allowing a single-sided nomination if two different network users are active at the IP.
- A network user explicitly authorises other network users to send single-sided nominations on its behalf.

Bilateral agreement between NUs

Network User A
- Single sided nomination submitted to active TSO

Network User B
- Authorisation notice allowing single sided nominations for NU A

TSO 1 (active/initiating TSO)

Forwarded single-sided nomination

TSO 2 (passive/matching TSO)

Valid authorisation in place for NU A

Valid authorisation not in place for NU A
Common Data Exchange Solution for the Nomination authorisation process

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
</table>

Nomination authorisation is **not a regulated process**.

Therefore, data exchange solution is **not mandatory** but **recommended** and has to be **negotiated** between TSO and registered NU.

In case an electronic message is used, the **Edig@s format is recommended** to be used.

* data is only to be shared between the two parties
4. Common Data Exchange Solution for Nomination & Matching processes
Nomination & matching processes

Information Flows for SSN and DSN

NU 1

1. Nomination

TSO 1 (active/initiating TSO)

2a. Forward Single-sided Nomination*

2b. Processed Quantities

3. Matching Results

4. Confirmation

TSO 2 (passive/matching TSO)

1. Nomination*

5. Interruption Notice***

NU 2

4. Confirmation

---

* Valid only in case of double-sided nominations.
** Valid only in case of single-sided nominations.
*** the process only occurs in case a TSO has introduced an interruption to the NU nomination.
### Nomination & Matching process
Common Data Exchange Solution

<table>
<thead>
<tr>
<th>Information Flow</th>
<th>From Role</th>
<th>To Role</th>
<th>Confidentiality Level</th>
<th>Common Data Exchange Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nomination (SSN)</td>
<td>Registered NU</td>
<td>(Initiating) TSO</td>
<td>Private</td>
<td>Document Based</td>
</tr>
<tr>
<td>Nomination (DSN)</td>
<td>Registered NU</td>
<td>(Matching) TSO</td>
<td>Private</td>
<td>Document Based</td>
</tr>
<tr>
<td>Forward Single Sided Nomination</td>
<td>(Active) TSO</td>
<td>(Passive) TSO</td>
<td>Private</td>
<td>Document Based</td>
</tr>
<tr>
<td>Processed Quantities (DSN)</td>
<td>(Initiating) TSO</td>
<td>(Matching) TSO</td>
<td>Private</td>
<td>Document Based</td>
</tr>
<tr>
<td>Matching Results</td>
<td>(Matching) TSO</td>
<td>(Initiating) TSO</td>
<td>Private</td>
<td>Document Based</td>
</tr>
<tr>
<td>Confirmation Notice</td>
<td>(Initiating) TSO</td>
<td>Registered NU</td>
<td>Private</td>
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<td>Confirmation Notice</td>
<td>(Matching) TSO</td>
<td>Registered NU</td>
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<td>Interruption Information</td>
<td>(Initiating) TSO</td>
<td>Registered NU</td>
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</table>

For all the Nomination and Matching processes, Document-Based is the mandatory Common Data Exchange Solution.
# Overview of Common Data Exchange Solutions for Nomination & Matching procedures

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</thead>
<tbody>
<tr>
<td>Nomination authorisation *</td>
<td>Registered NU</td>
<td>TSO</td>
<td>Private</td>
<td>Recommendation* Document Based</td>
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<tr>
<td>Nomination</td>
<td>Registered NU</td>
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*Data exchange solution is not mandatory but recommended and has to be negotiated between the TSO and NU.*
Thank You for Your Attention

Mihai Goage
Adviser, Market
ENTSOG -- European Network of Transmission System Operators for Gas
Avenue de Cortenbergh 100, B-1000 Brussels

EML:  mihai.goage@entsog.eu
WWW:  www.entsog.eu
## Agenda for today

<table>
<thead>
<tr>
<th></th>
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<th>Time</th>
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<tbody>
<tr>
<td>1</td>
<td>Opening</td>
<td>10:30-10:45</td>
</tr>
<tr>
<td>2</td>
<td>Introduction to Network Code INT&amp;DE &amp; Common Data Exchange Solutions</td>
<td>10:45-11:45</td>
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<tr>
<td></td>
<td>Coffee Break</td>
<td>11:45-12:00</td>
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<tr>
<td>3</td>
<td>Business Requirement Specifications CAM &amp; CMP</td>
<td>12:00-13:00</td>
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<tr>
<td></td>
<td>Lunch Break</td>
<td>13:00-14:00</td>
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<td>Business Requirement Specifications Nomination &amp; Matching</td>
<td>14:00-15:00</td>
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<tr>
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<td>Coffee break</td>
<td>15:00-15:15</td>
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<tr>
<td>5</td>
<td>Public Consultation</td>
<td>15:15-16:15</td>
</tr>
<tr>
<td>6</td>
<td>Closing Remarks</td>
<td>16:15-16:30</td>
</tr>
<tr>
<td></td>
<td>Agenda for today</td>
<td>Time</td>
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<td>---</td>
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</table>
ENTSOG EU Data Harmonisation

Update to Business Requirements Specification (BRS) for Nomination and Matching (NOM&MAT), BRS Capacity Allocation Management and Congestion Management Procedures

Public Consultation

Introduction

ENTSOG develops Common Network Operation Tools (CNOTs) based on the mandate provided by the following European Regulations:

Article 8 Paragraph 3(a) of Regulation 715/2009 states that ENTSO for Gas shall adopt common network operation tools to ensure coordination of network operation in normal and emergency conditions, including a common incidents classification scale and research plans.

Article 24 Paragraph 1 of the Regulation 2015/703 NC on Interoperability and Data Exchange Rules states that for each data exchange requirement under Article 20(2), ENTSO shall develop a common network operation tool in accordance with Article 8(3)(a) of Regulation (EC) No 715/2009 and shall publish it on its website. A common network operation tool shall specify the common data exchange solution relevant for the respective data exchange requirement. A common network operation tool may also include business requirement specifications, release management and implementation guidelines.

In line with the mandate given by these provisions ENTSOG has provided clarification on the Common Data Exchange Solution for each Data Exchange identified in the BRS NOM&MAT [LINK] and BRS CAM&CMP [LINK].

ENTSOG welcomes all stakeholders’ feedback on the proposed updates to the BRS Nomination and Matching, BRS Capacity Allocation Management and Congestion Management Procedures.

Link to consultation page on ENTSOG webpage
Data Exchange – Public Consultation

- **BRS documents**
  - Common solution inserted in the process description
  - Balancing and INT NC: BAL0453_160412_BRS on nominations
  - CAM/CMP NC: CAP0554_160412_BRS_CAM+CMP

- **Overview table (under public consultation)**
  - Overview table with all identified communications
  - Public Consultation Questionnaire
    - Table contains a reference to the BRS (document name, chapter, line number) where each interchange is described.
    - Column I contains the proposed common solution
    - Columns K,L,M are used for participants feedback
    - All communication FROM and TO Network users are under consultation
### Overview table (under public consultation)

<table>
<thead>
<tr>
<th>Process Area Value</th>
<th>EPR</th>
<th>Document Chapter</th>
<th>Document Line Number</th>
<th>Information Flow</th>
<th>From Party Role Value</th>
<th>To Party Role Value</th>
<th>Activity Level</th>
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<tbody>
<tr>
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<td>Capacities Trading Processes</td>
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<td>C:05.01;K:01;L:01;S:02;M:01;U:01;R:01;C:05.01;K:01;L:01;S:02;M:01;U:01;R:01;C:05.01;K:01;L:01;S:02;M:01;U:01;R:01;C:05.01;K:01;L:01;S:02;M:01;U:01;R:01;C:05.01;K:01;L:01;S:02;M:01;U:01;R:01</td>
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<td>Network User Registration</td>
<td>Network User</td>
<td>Transmission System Operator/Policy</td>
<td>Recommendation - interaction</td>
</tr>
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<tr>
<td>Initiation and Matching Processes</td>
<td>6:05.01;5:01;4:01;3:01;2:01;1:01;6:05.01;5:01;4:01;3:01;2:01;1:01;6:05.01;5:01;4:01;3:01;2:01;1:01;6:05.01;5:01;4:01;3:01;2:01;1:01;6:05.01;5:01;4:01;3:01;2:01;1:01</td>
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</tr>
</tbody>
</table>

The common data exchange solution table can be downloaded from the consultation page on the ENTSOG website and saved off-line for completion.

Please send your response to Interoperability@entsog.eu
Consultation Question Example:

<table>
<thead>
<tr>
<th>Process Area Value</th>
<th>BRS</th>
<th>Document Chapter</th>
<th>Document Line Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Trading Processes</td>
<td>CAP0554_160412_BRS_CAM+CMP_V18.docx</td>
<td>3.3.1.2</td>
<td>509</td>
</tr>
</tbody>
</table>

The common data exchange solution table can be downloaded from the consultation page on the ENTSOG website and saved off-line for completion. Please send your response to Interoperability@entsog.eu
The BRS CAM+CMP V18 can be found on the consultation page on the ENTSOG website.
Consultation Question Example:

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Next steps – Sept-Dec 2016

**ENTSOG:**
Adjustment of CNOTs based on results of PC

**Wed 7 Sep**
Start public consultation

**Mon 30 Sep**
End of consultation period

**13th October (TBC)**
INT WG outcome of PC and approval of CNOT

**21 October**
ENTSOG: Final approval of CNOT

**31 December**
Expected MIG update from EASEE-gas

**Tue 6 Sep**
Stakeholder Workshop

**14th October**
Board Written Procedure

**End of October**
CNOT delivery & publication on ACER & ENTSOG website
How to respond to the public consultation?

Instructions:

- To assess the overall response we need at least the name of responding organisation, therefore anonymous responses cannot be taken into account (does not preclude anonymous publication).

- Contact details necessary in case clarification are needed should be included in the spreadsheet.

- Confidentiality: ENTSOG reserves the right to publish all of the individual responses to the public consultation (with exception of personal information) unless you indicate otherwise in the questionnaire.
Deadlines for Public Consultation

Public Consultation:
7 September – 30 September 2016

Deadline for taking part in the Public Consultation:
30 September 2016

Link to Public Consultation
Please submit your response until 30 September 2016!
Thank You for Your Attention

Jef De Keyser / Jackie Manning
System Operations
ENTSOG -- European Network of Transmission System Operators for Gas
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  Jef.dekeyser@entsog.eu; Jackie.Manning@entsog.eu
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WWW: www.entsog.eu