

# Stakeholder's Workshop

## ENTSOG European Data Exchange Harmonisation Workshop

**Hendrik Pollex**

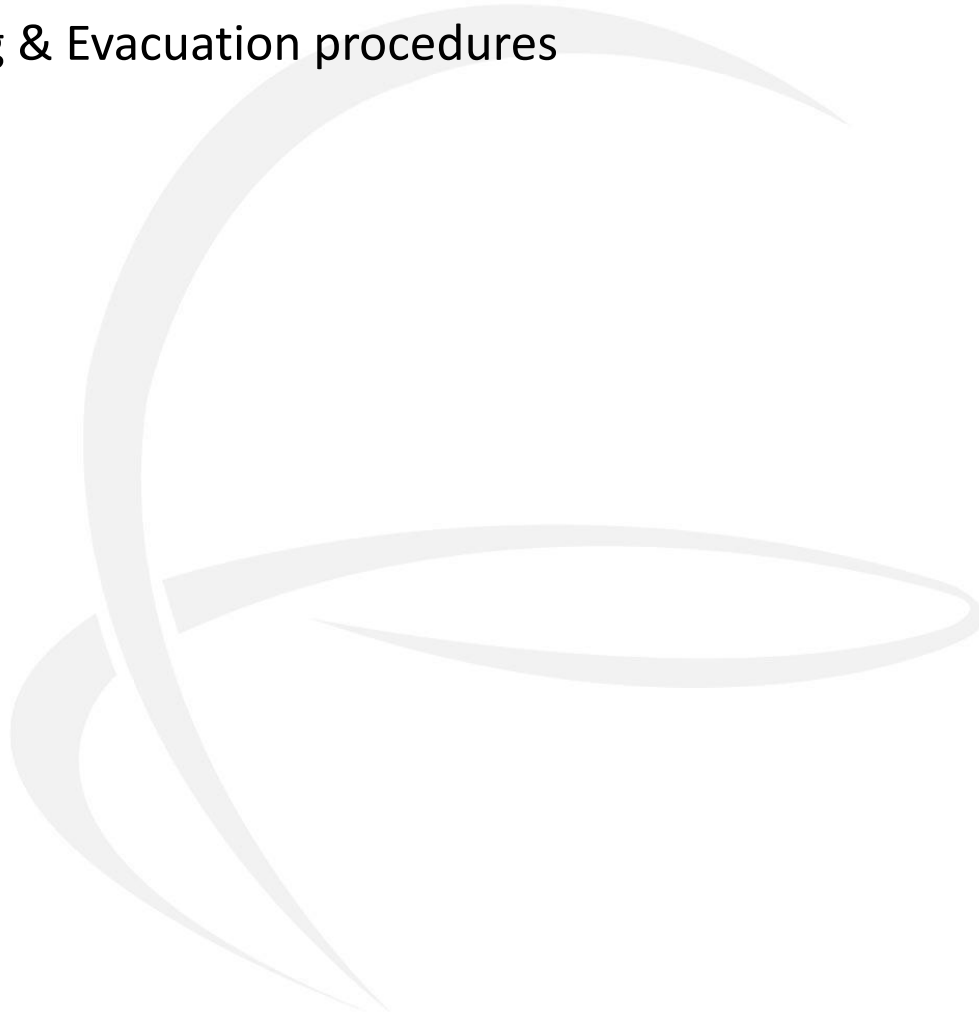
**Business Area Manager System Operation**



# Emergency Evacuation



- > Safety briefing & Evacuation procedures



# Agenda for today

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

No	Description	Time
1	<b>Morning Coffee and Registration</b>	10:00 – 10:30
2	<b>Opening (ENTSOG) (Hendrik Pollex)</b> <ul style="list-style-type: none"> <li>➤ Welcome/Introduction/History/Structure of Event</li> <li>➤ Objectives</li> </ul>	10:30 - 10:45
3	<b>Introduction to Network Code INT&amp;DE &amp; Common Data Exchange Solutions (Jef De Keyser)</b> <ul style="list-style-type: none"> <li>➤ Legal Background</li> <li>➤ CNOT Process</li> <li>➤ Types of Data Exchanges</li> <li>➤ Questions and Answers (All)</li> </ul>	10:45 – 11:45
	<b>Coffee Break</b>	<b>11:45 – 12:00</b>
4	<b>Business Requirement Specification CAM &amp; CMP</b> <ul style="list-style-type: none"> <li>➤ Business Process Explained</li> <li>➤ Common Data Exchange Proposals</li> <li>➤ Questions and Answers (All)</li> </ul>	12:00 – 13:00
	<b>Lunch</b>	<b>13:00– 14:00</b>
5	<b>Business Requirement Specification NOM &amp; MAT</b> <ul style="list-style-type: none"> <li>➤ Business Process Explained</li> <li>➤ Common Data Exchange Proposals</li> </ul>	14:00 – 15:00
	➤ Questions and Answers (All)	
	<b>Coffee Break</b>	<b>15:00 – 15:15</b>
6	<b>Public Consultation</b> <ul style="list-style-type: none"> <li>➤ Next Steps</li> <li>➤ Invitation to reply to public consultation</li> <li>➤ Questions and Answers (All)</li> </ul>	15:15 – 16:15
7	<b>Closing</b>	16:15 – 16:30



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



1	Opening	10:30-10:45
2	Introduction to Network Code INT&DE & Common Data Exchange Solutions	10:45-11:45
	Coffee Break	11:45-12:00
3	Business Requirement Specifications CAM & CMP	12:00-13:00
	Lunch Break	13:00-14:00
4	Business Requirement Specifications Nomination & Matching	14:00-15:00
	Coffee break	15:00-15:15
5	Public Consultation	15:15-16:15
6	Closing Remarks	16:15-16:30



# Common Network Operation Tools

## Introduction - Legal background

**Jef De Keyser**

**Subject Manager, System Operation**

**Brussels 6 September 2016**

Image Courtesy of Thyssengas

## REGULATION (EC) No 715/2009 - Conditions for access to the natural gas transmission networks -

### *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;

## 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), Entsog 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. Entsog shall establish a transparent process for the development of all common network operation tools. Entsog shall conduct a consultation for each common network operation tool.



# Introduction - Regulation

## COMMISSION REGULATION (EU) 2015/703 - Network code on interoperability and data exchange rules - *Article 20-21 – Who, What and How*

### 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.

2. The data exchange requirements foreseen by point 2.2 of Annex I to Regulation (EC) No 715/2009, Commission Regulation (EU) No 984/2013, Commission Regulation (EU) No 312/2014, Commission Regulation (EU) No 1227/2011 and this Regulation between transmission system operators and from transmission system operators to their counterparties shall be fulfilled by common data exchange solutions set out in Article 21.

### 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.

## 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.

## COMMISSION REGULATION (EU) No 984/2013 – Network Code on Capacity Allocation Mechanisms in Gas Transmission Systems - *Article 5 – Standardisation of communication*

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**

##### *Article 13*

##### **Information regarding nominations and re-nominations at interconnection points**

Nominations and re-nominations provided by network users to the transmission system operators with regard to interconnection points shall contain at least the following information:

- (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.

## 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)



# Common Network Operation Tools

**Types of data exchanges**

**Common data exchange solution**

**Jef De Keyser**

**Brussels 6 September 2016**

Image Courtesy of Thyssengas



# 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:**

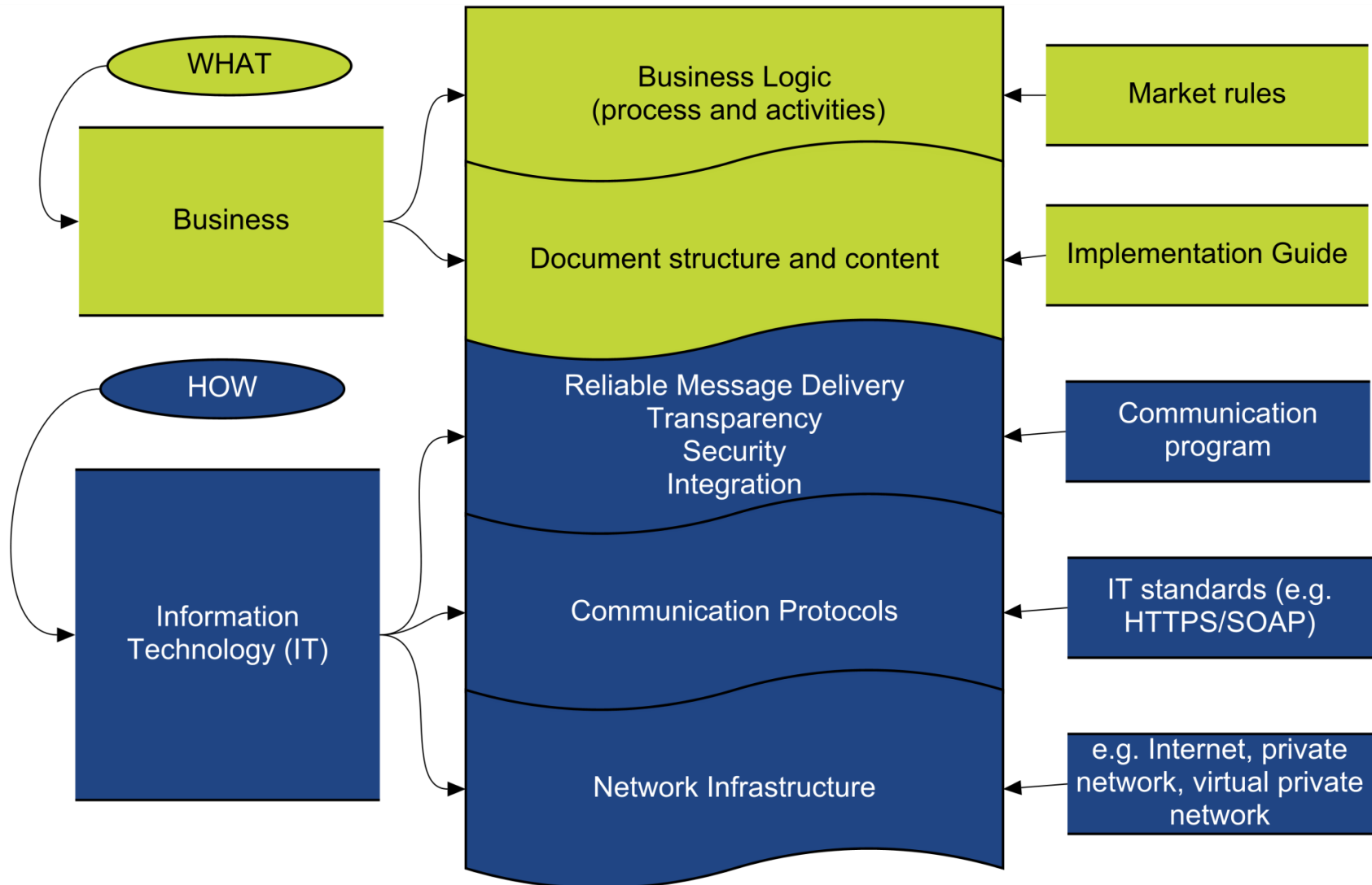


- Informational, public data
- Non-Time critical communications
- Client-Server (uni-directional) communication
- Low volume and low frequency queryable data
- Very good accessibility (laptop, smart phone,...)
- Use of standard browser, no specific software required
- Fast user set-up/configuration
-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





# Data Exchange - WHAT and HOW





# 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

The screenshot displays the ENTSOG website interface. At the top, there is a navigation bar with a 'Secure Area' link, a 'Menu' button (circled in red), the ENTSOG logo, and a 'transparency PLATFORM' link. Below the navigation bar is a grid of menu items organized into two rows and five columns. The first row includes 'ABOUT US', 'GENERAL', 'MARKET', 'SYSTEM DEVELOPMENT', and 'SYSTEM OPERATION'. The second row includes 'EVENTS', 'MAPS', 'EIC CODES', 'CONTACT', and 'COMMON NETWORK OPERATION TOOLS (CNOTS)'. The 'COMMON NETWORK OPERATION TOOLS (CNOTS)' section is circled in red and lists 'AS4', 'Nomination and Matching', 'Capacity Allocation (CAM) and Congestion Management (CMP)', and 'CNOT Change Request Management'. Below the grid, there is a 'Read more' link. At the bottom, there are sections for 'ANNOUNCEMENTS / IN THE SPOTLIGHT' and 'PRESS RELEASES'.

ABOUT US	GENERAL	MARKET	SYSTEM DEVELOPMENT	SYSTEM OPERATION
Mission Members Management Structure Business Areas Who is who Careers at ENTSOG	New publications Statutes Press Releases Annual Work Programme (AWP) & Annual Reports Implementation Monitoring Procedures	Capacity Allocation (CAM) Congestion Management (CMP) Incremental Capacity Balancing Tariffs Joint Functionality Process	Ten-Year Network Development Plan (TYNDP) Open Seasons & Market Surveys Outlooks & Reviews Gas Regional Investment Plan (GRIPs) CBA Methodology	Interoperability Transparency Data Exchange
EVENTS All events Upcoming events Past events	MAPS System Development Transmission Capacity	EIC CODES Approved EIC codes Application forms Manual of Procedures Relevant links Downloads Q&A	CONTACT Contact us Location Travel Information Subscription	COMMON NETWORK OPERATION TOOLS (CNOTS) AS4 Nomination and Matching Capacity Allocation (CAM) and Congestion Management (CMP) CNOT Change Request Management

Read more

ANNOUNCEMENTS / IN THE SPOTLIGHT

ACER and ENTSOG launch Gas Network Codes Functionality

Winter Supply Outlook 2015/2016 and Winter Review

ENTSOG Re-Submits the TAR NC to ACER

PRESS RELEASES

12 May 2016

\* PRFSS RFI FASE \* ENTSOG and ENTSO-F launch



# Common Network Operation Tools

**Development Process**

**Business Requirements Specifications**

**(Message) Implementation Guidelines**

**Jef De Keyser**

**Brussels 6 September 2016**

Image Courtesy of Thyssengas



# Introduction - CNOT process objective



## WHAT?

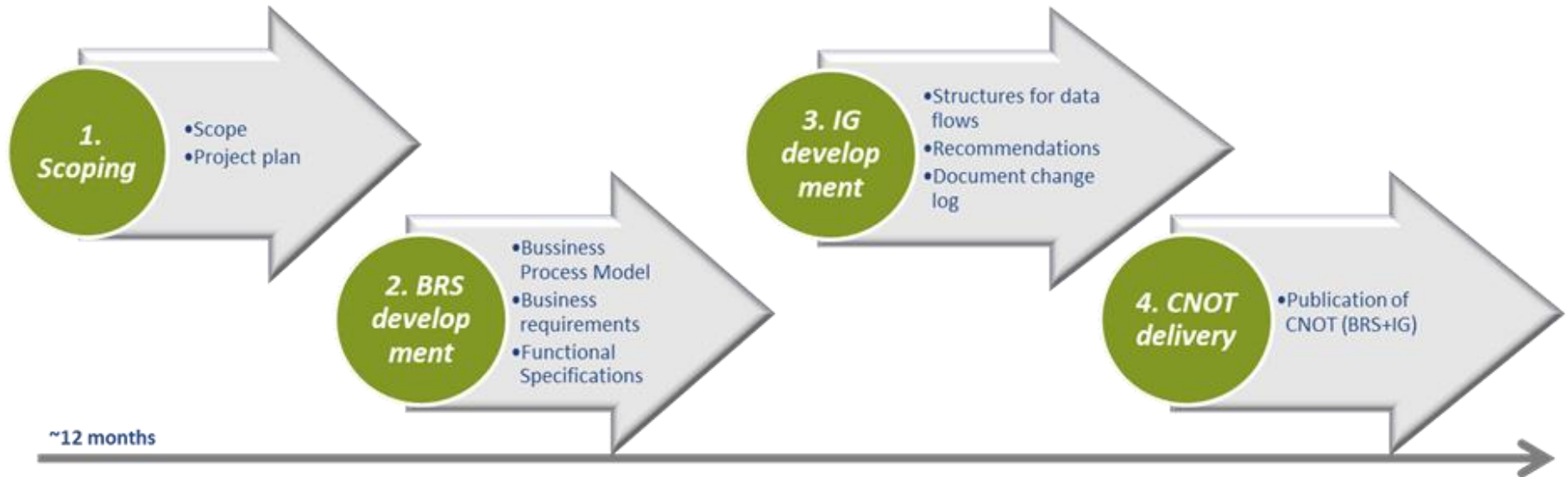
- CNOT → Translate Network Codes into implementable solutions
- CNOT (may) consist of Business Requirements Specifications, Release Management and Implementation Guidelines

## HOW?

- Transparent process 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 ENTSG's website



# Introduction - CNOT process overview





# Introduction - CNOT process overview

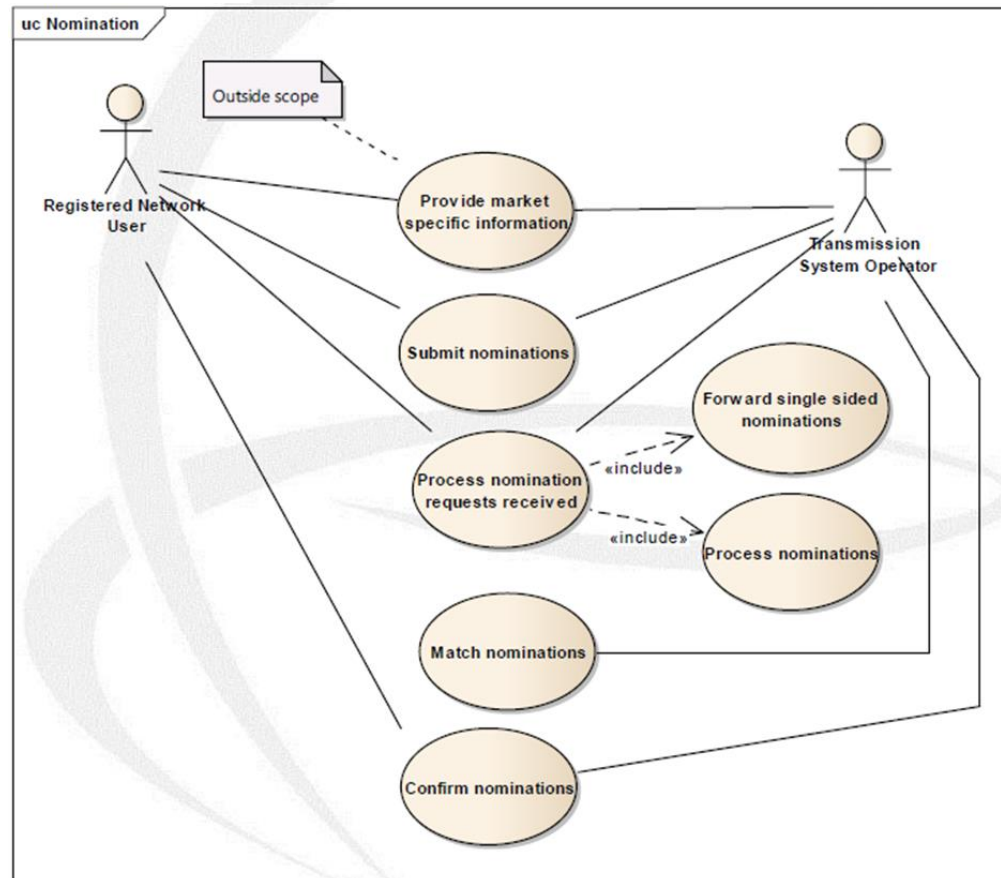
CNOT (common network operation tool) – For Data Exchange = Business Requirement Specifications + Implementation Guidelines + Release management

- 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

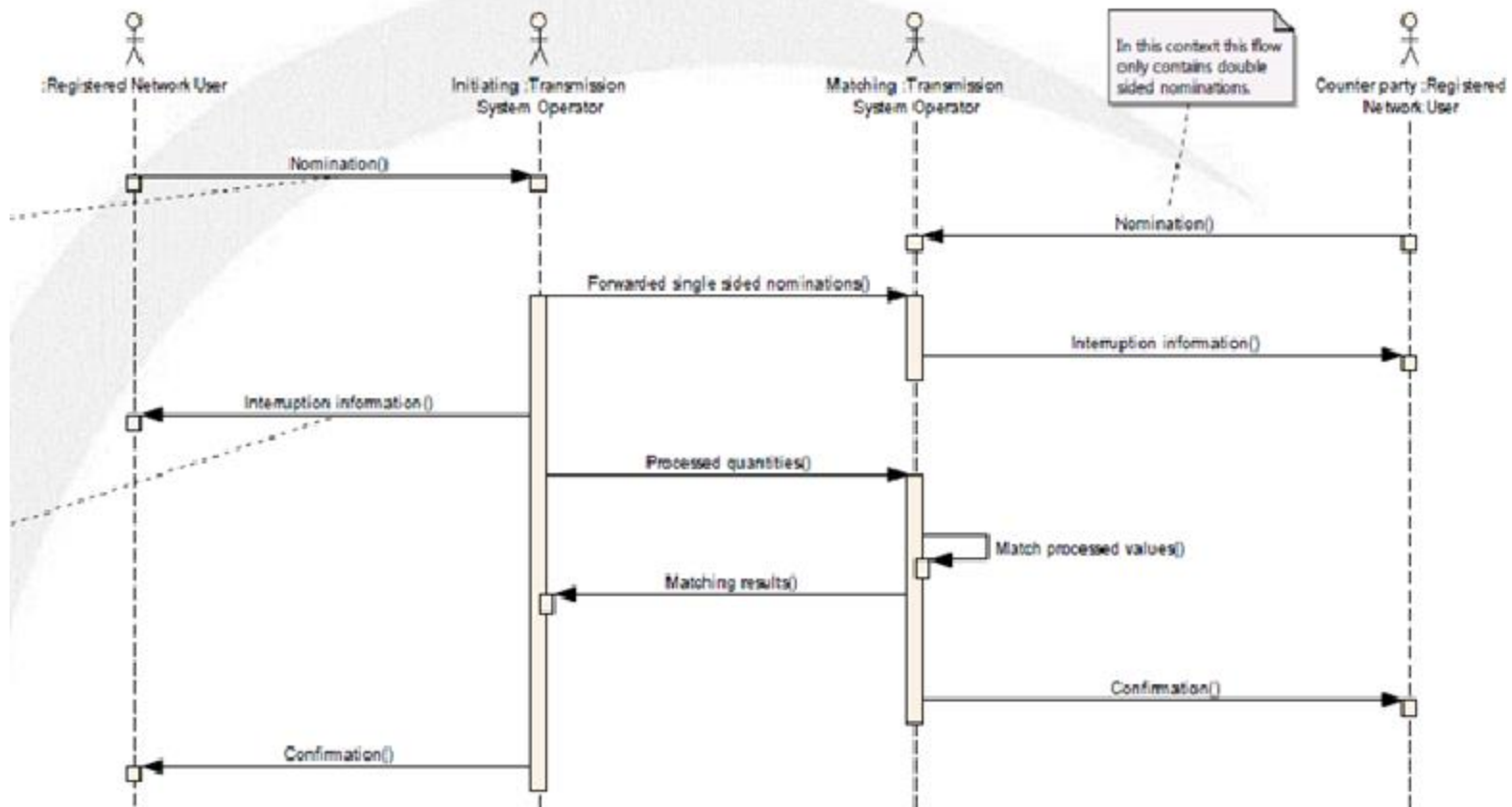




# Introduction – CNOT BRS

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

## 2. Identify operational sequences with sequence diagrams



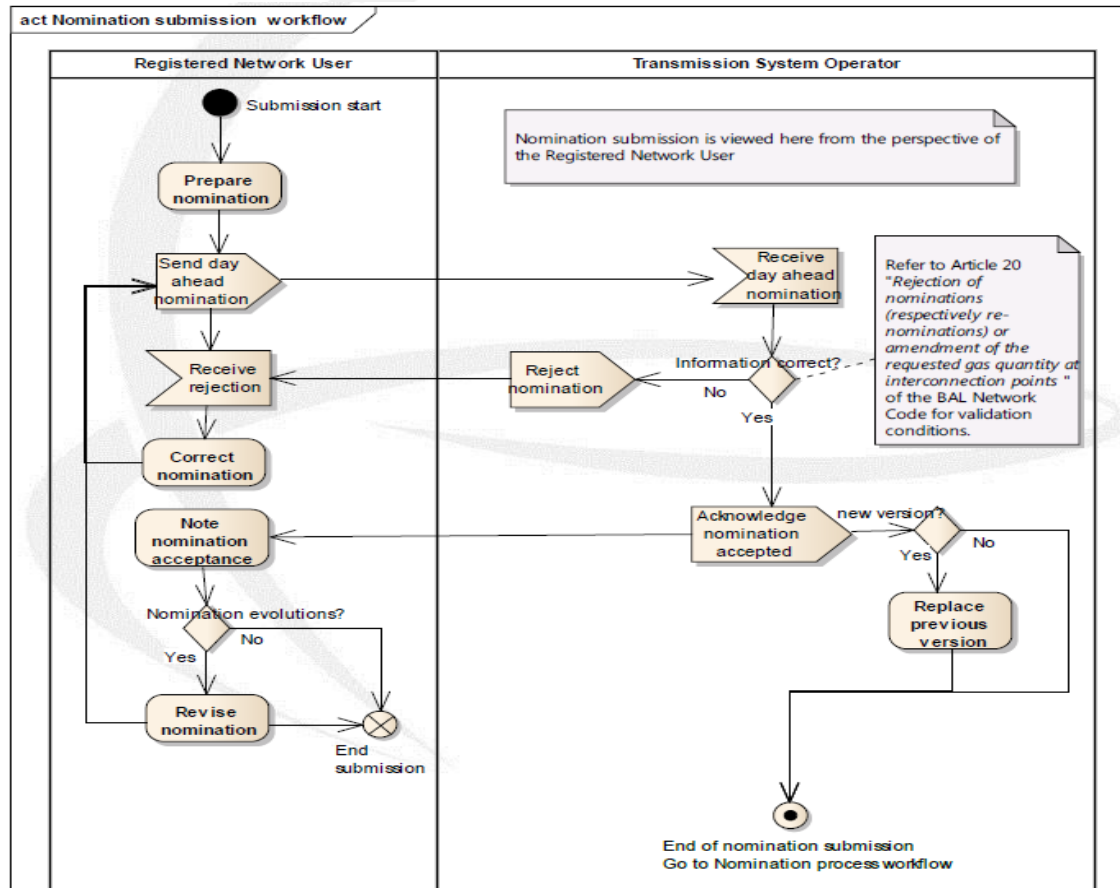




# Introduction – CNOT BRS

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

## 3. Establish workflow with activity diagrams - Example

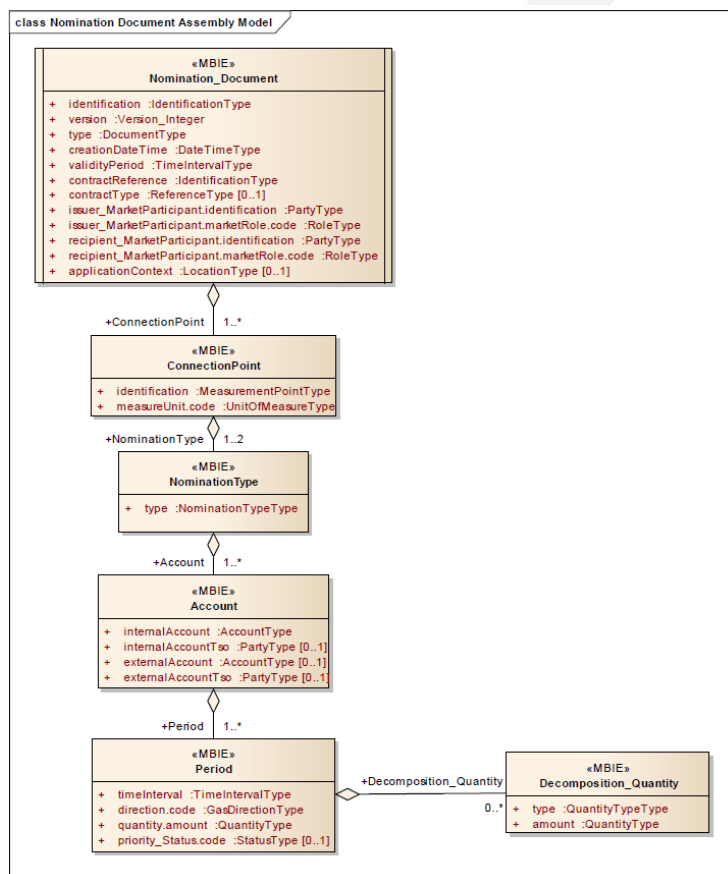




# Introduction – CNOT (M)IG (EASEE-gas)

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

ACTION	DESCRIPTION
<b>Definition of element</b>	Identification of the document describing the Nomination Document.
<b>Description</b>	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.
<b>Size</b>	The identification of a Nomination Document may not exceed 35 alphanumeric characters.
<b>Applicability</b>	This information is mandatory.
<b>Dependence requirements</b>	None.

#### 3.3.3.2 VERSION

ACTION	DESCRIPTION
<b>Definition of element</b>	Version of the document being sent.
<b>Description</b>	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.
<b>Size</b>	A version number may not exceed 3 numeric characters.
<b>Applicability</b>	This information is mandatory.
<b>Dependence requirements</b>	None.



# 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 version="1.0" encoding="utf-8"?>
<xs:schema xmlns:sawSDL="http://www.w3.org/ns/sawSDL" xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1" xmlns:cimp="
http://www.iec.ch/cimp/profile" xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="
urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1" elementFormDefault="qualified" attributeFormDefault="unqualified">
  <!-- INCLUDE code lists as well as restricted codelists -->
  <xs:include schemaLocation="urn-easee-gas-eu-edigas-nominationandmatching-nominationdocument-5-1-restricted-codes.xsd"/>
  <!-- END INCLUDE -->
  <xs:element name="Nomination_Document" type="Nomination_Document"/>
  <xs:simpleType name="AccountType-base" sawSDL:modelReference="http://easee-gas/edigas#String">
    <xs:restriction base="xs:string">
      <xs:maxLength value="35"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="AccountType" sawSDL:modelReference="http://easee-gas/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" sawSDL:modelReference="http://easee-gas/edigas#String">
    <xs:restriction base="xs:string">
      <xs:maxLength value="16"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="PartyType" sawSDL:modelReference="http://easee-gas/edigas#String">
    <xs:simpleContent>
      <xs:extension base="PartyType-base">
        <xs:attribute name="codingScheme" type="EicCodingSchemeTypeList" use="required"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
  <xs:complexType name="Account" sawSDL:modelReference="http://easee-gas/edigas#Account">
    <xs:sequence>
      <xs:element name="internalAccount" type="AccountType" sawSDL:modelReference="http://easee-gas/edigas#Account.internalAccount"/>
      <xs:element name="internalAccountTso" type="PartyType" minOccurs="0" sawSDL:modelReference="http://easee-gas/edigas#Account.internalAccountTso"/>
      <xs:element name="externalAccount" type="AccountType" minOccurs="0" sawSDL:modelReference="http://easee-gas/edigas#Account.externalAccount"/>
      <xs:element name="externalAccountTso" type="PartyType" minOccurs="0" sawSDL:modelReference="http://easee-gas/edigas#Account.externalAccountTso"/>
      <xs:element name="Period" type="Period" maxOccurs="unbounded" sawSDL:modelReference="http://easee-gas/edigas#Account.Period"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```





# Questions and Answers



# Agenda for today

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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

## Business Requirement Specification for the Capacity Allocation and Congestion Management Procedures, based on three Network Codes/Guidelines

### 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

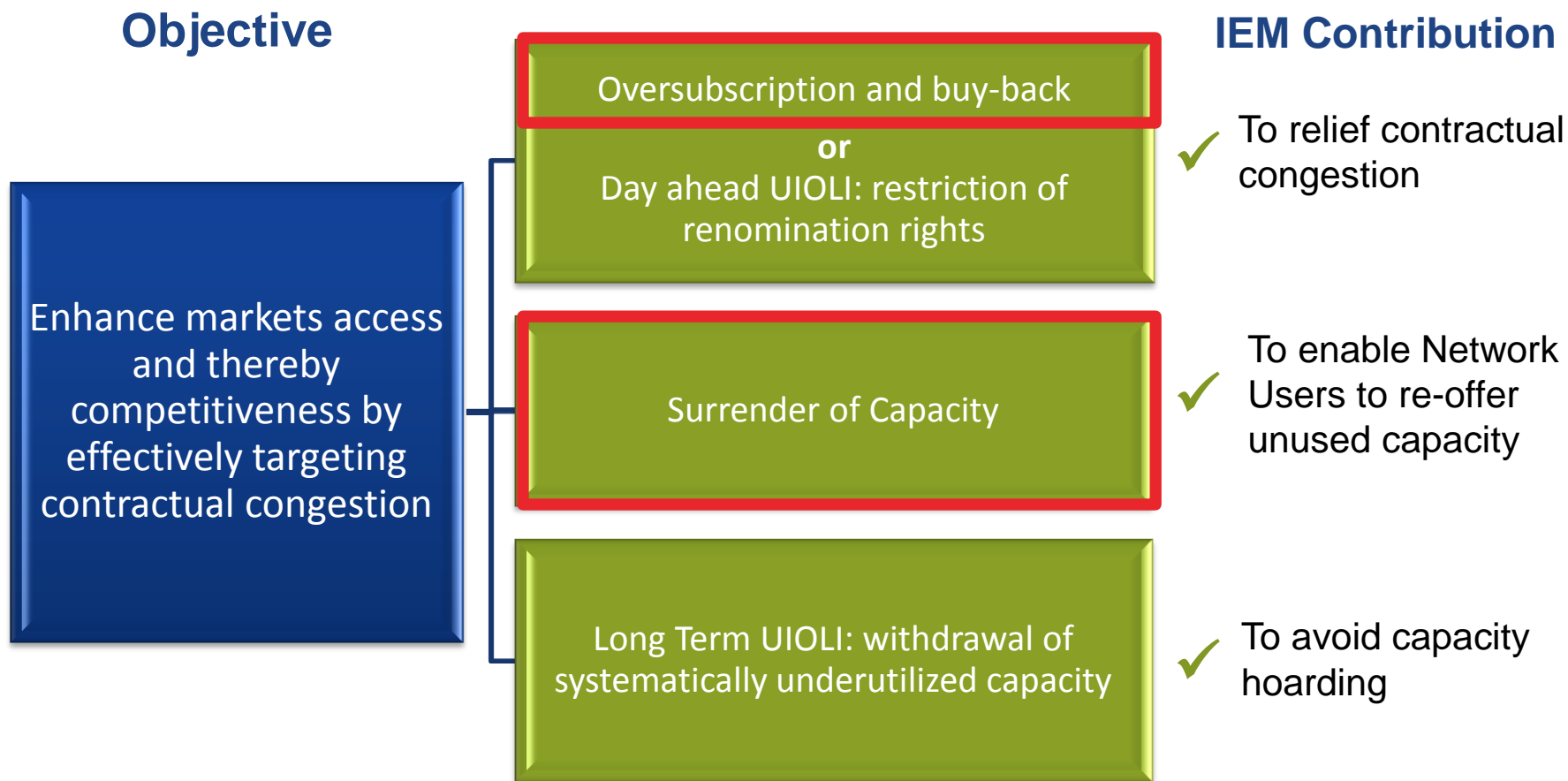


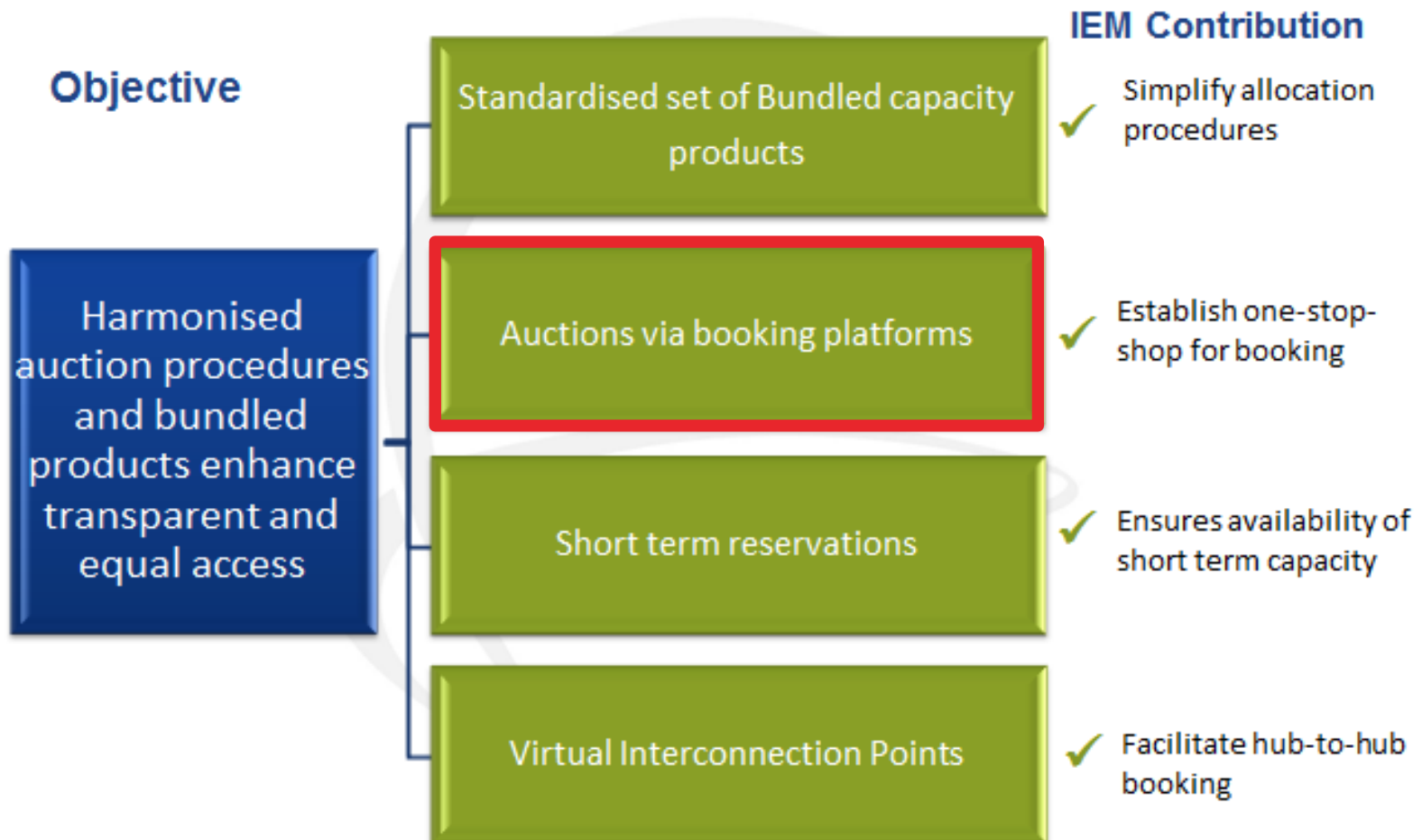
Network Code on Capacity Allocation Mechanism (NC CAM) defines:

- 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







# 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

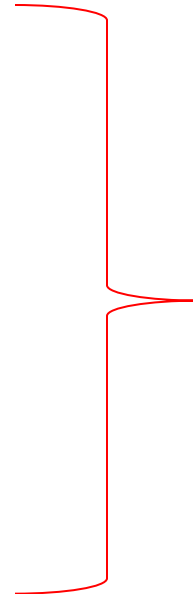




# BRS CAM & CMP – covered processes



- 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

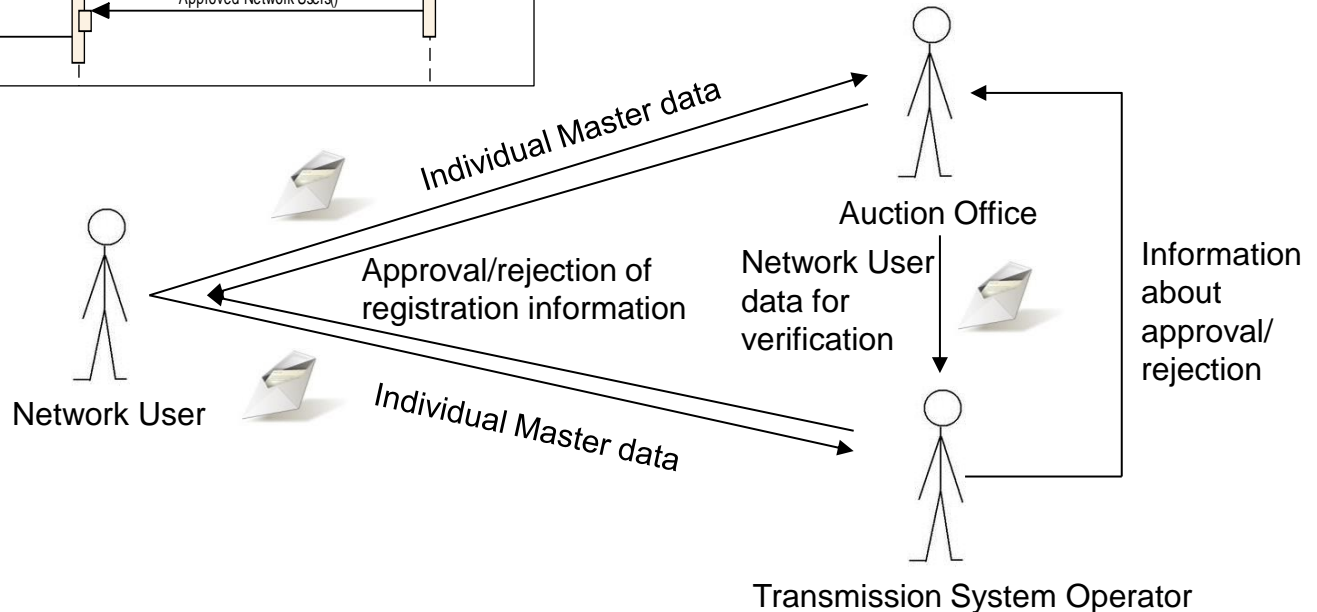
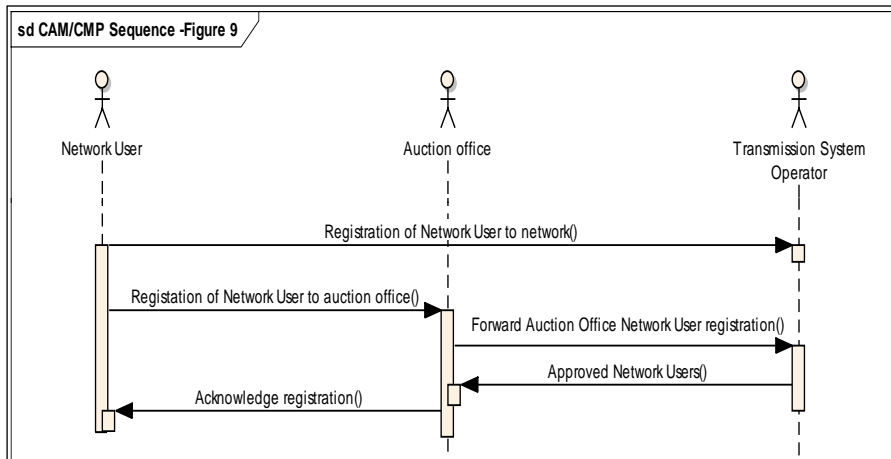
- Auction Office
- Network User
- Transmission System Operator

*“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.**”*



# CAM & CMP processes & data exchange

## Network User registration process

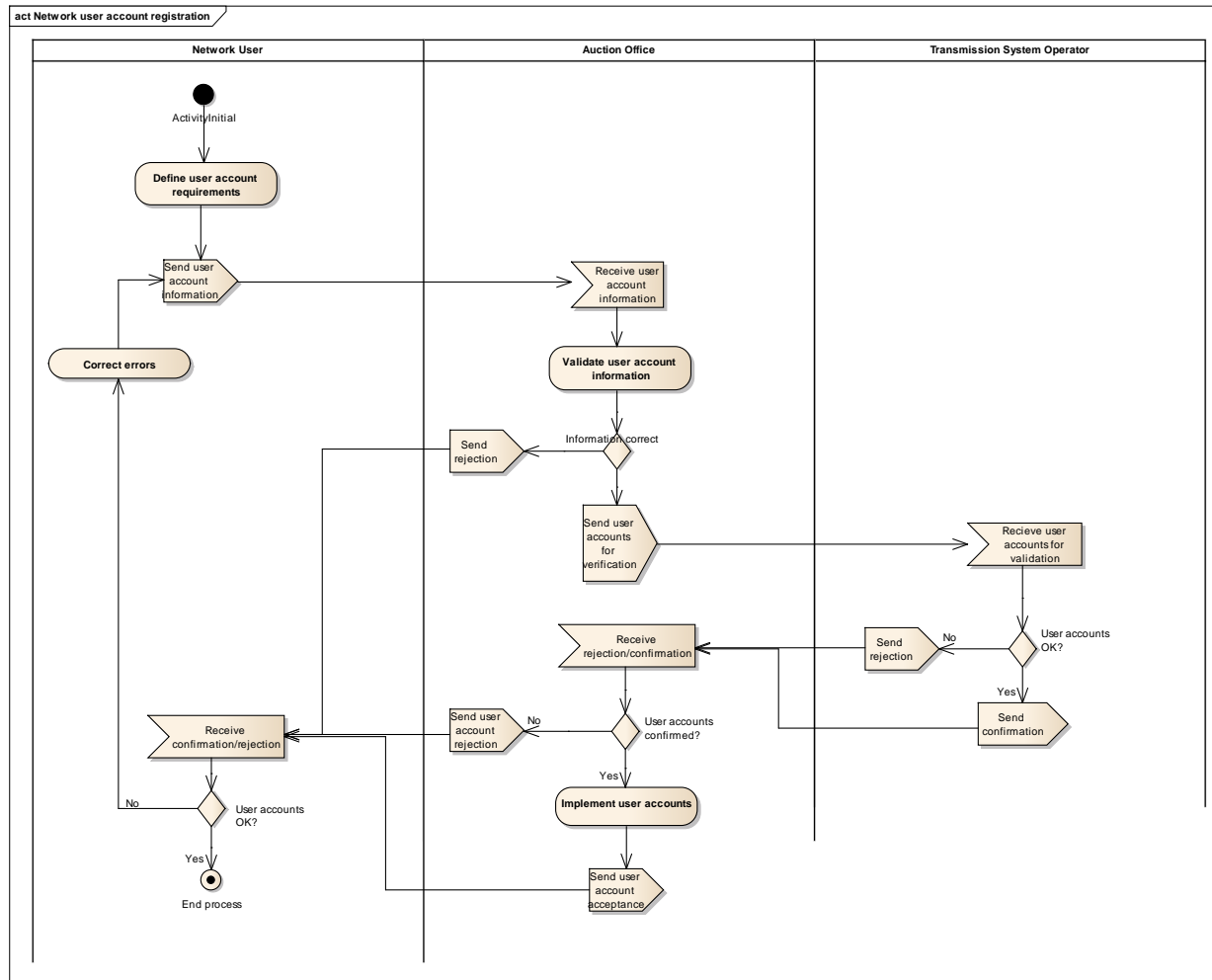




# CAM & CMP processes & data exchange



## Network User registration process





# CAM & CMP processes & data exchange



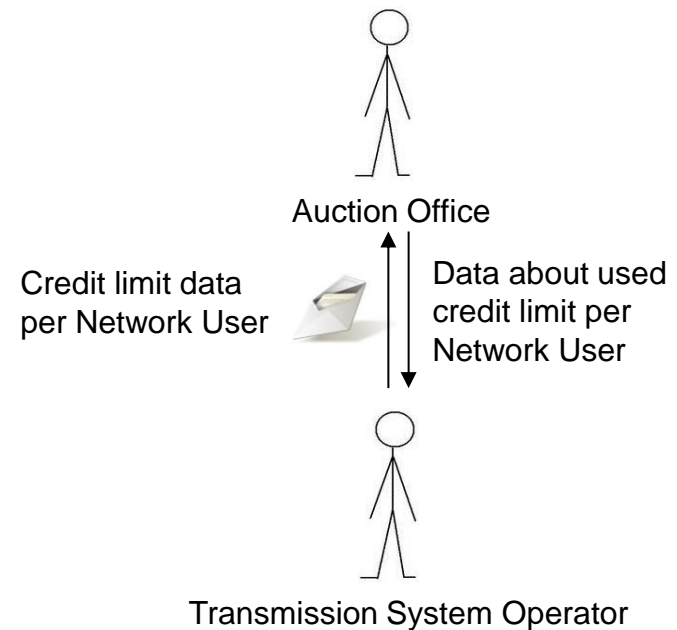
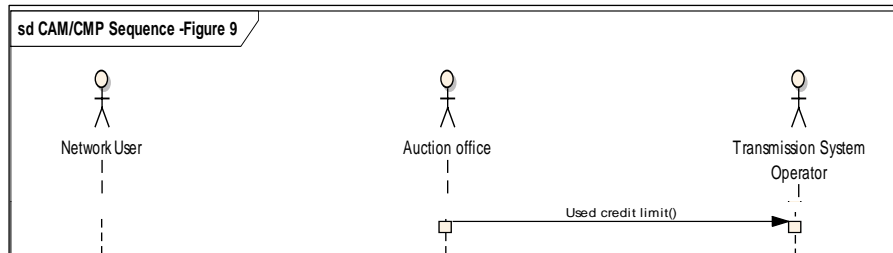
## Network User registration

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Network User Registration to TSO	Network User	Transmission System Operator	Private	Recommendation - Interactive
Network User Registration to Auction Office	Network User	Auction Office	Private	Recommendation - Interactive
Approved Network User	Auction Office	Transmission System Operator	Private	Recommendation – Document Based
Approved Network User	Transmission System Operator	Auction Office	Private	Recommendation - Interactive
Approved Network User	Auction Office	Registered Network User	Private	Recommendation - Interactive



# CAM & CMP processes & data exchange

## Credit limit management process





# CAM & CMP processes & data exchange



## Credit limit management

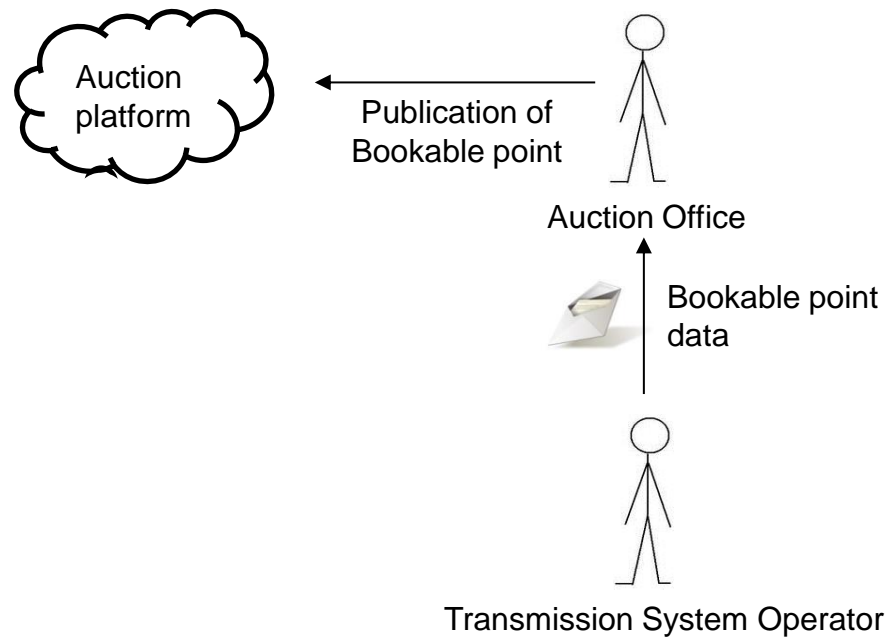
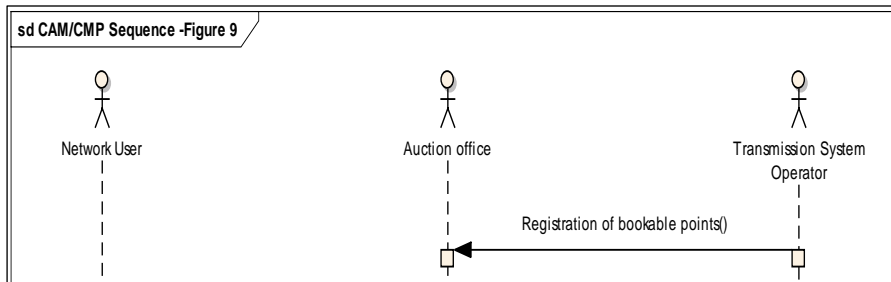
Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Credit Limit	Transmission System Operator	Auction Office	Private	Recommendation - Document Based
Credit Limit	Auction Office	Transmission System Operator	Private	Recommendation - Document Based





# CAM & CMP processes & data exchange

## Bookable point registration process

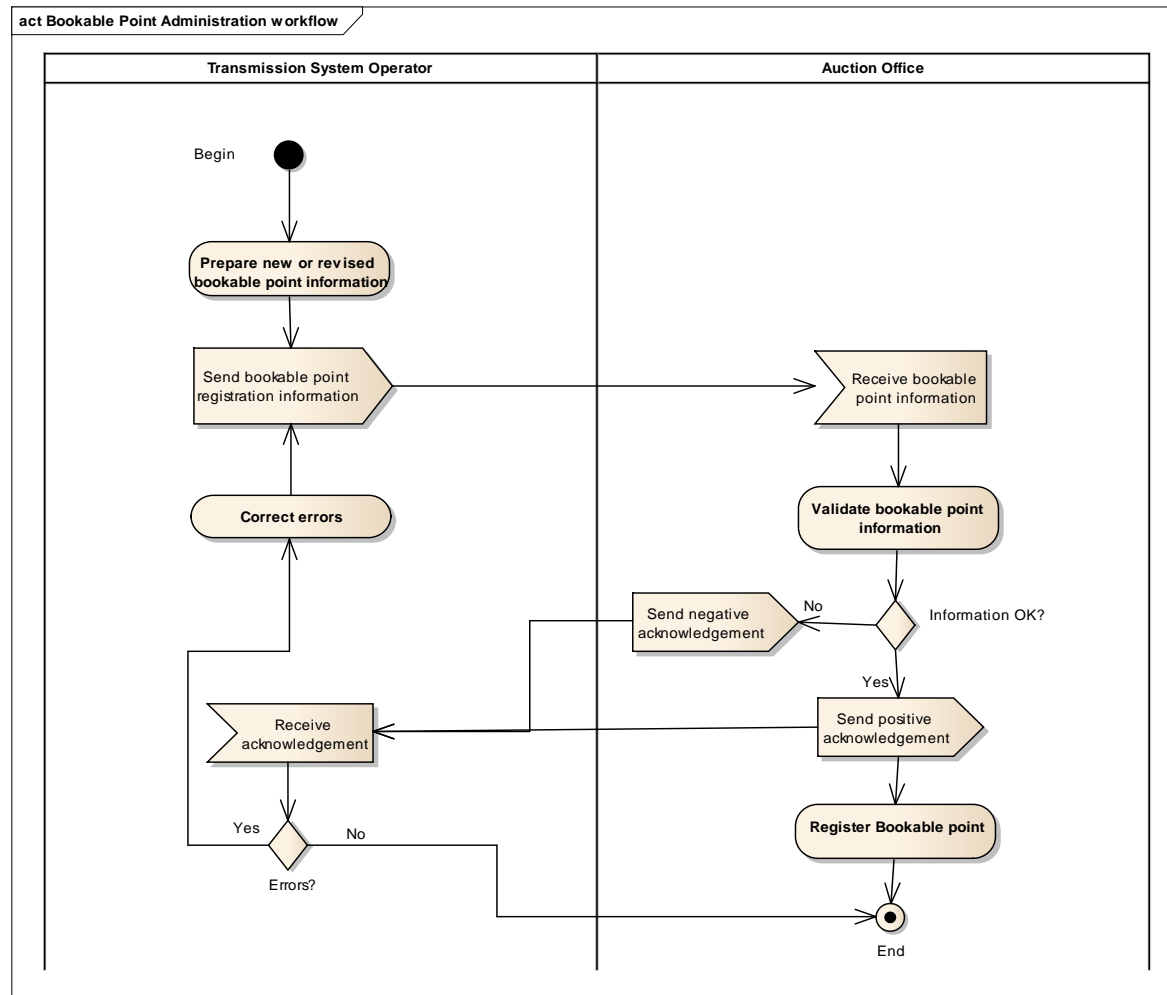




# CAM & CMP processes & data exchange



## Bookable point registration process



# CAM & CMP processes & data exchange

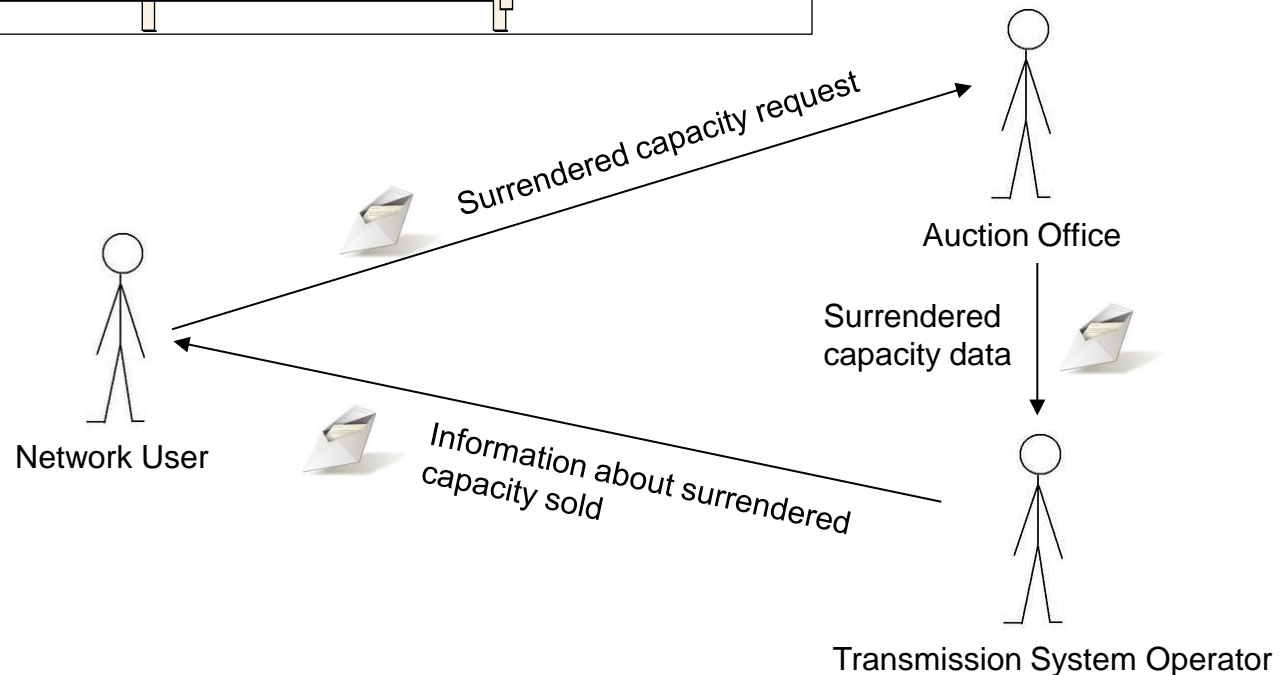
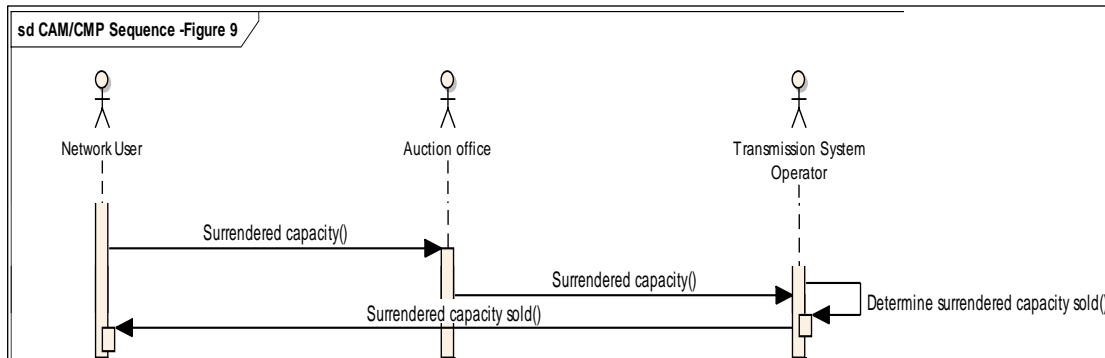
## Bookable point registration

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Bookable Point Registration	Transmission System Operator	Auction Office	Private	Recommendation - Interactive



# CAM & CMP processes & data exchange

## Capacity right surrender

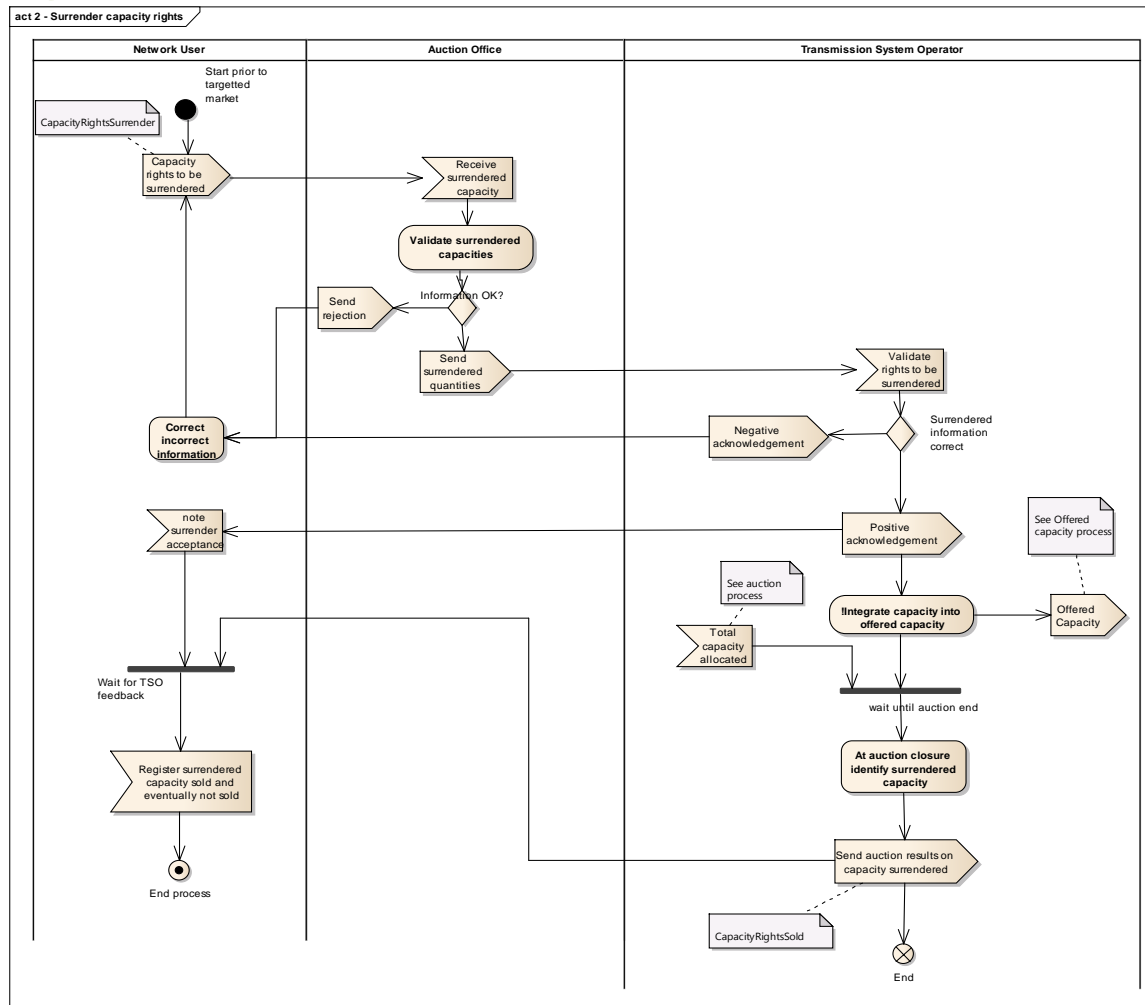




# CAM & CMP processes & data exchange



## Capacity right surrender process





# CAM & CMP processes & data exchange



## Capacity right surrender

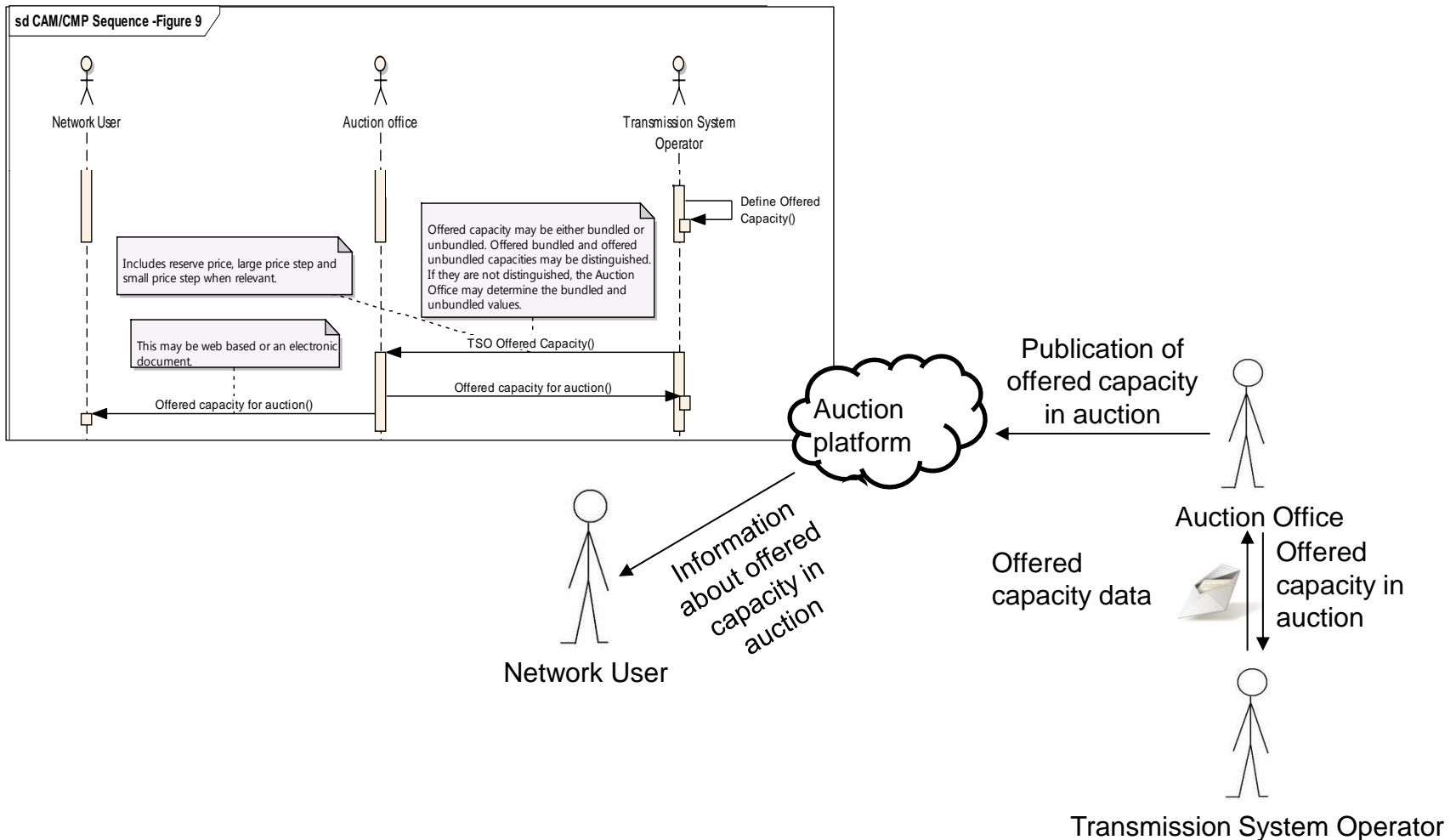
Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Surrender Capacity Rights	Registered Network User	Auction Office	Private	Interactive
Surrender Capacity Rights	Auction Office	Transmission System Operator	Private	Recommendation – Document Based
Surrendered Capacity Sold	Transmission System Operator	Registered Network User	Private	Document Based



# CAM & CMP processes & data exchange



## Offered capacity determination







# CAM & CMP processes & data exchange



## Offered capacity determination

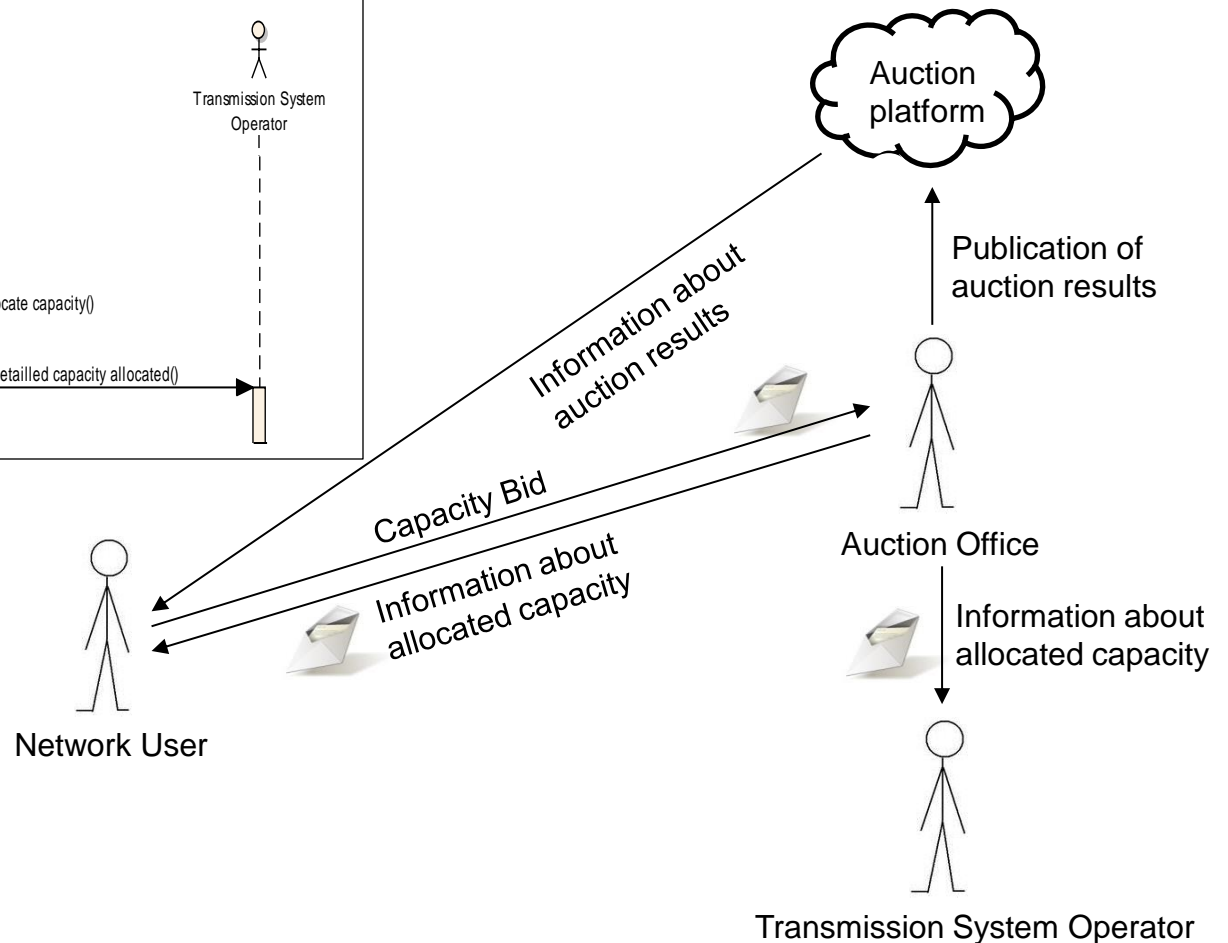
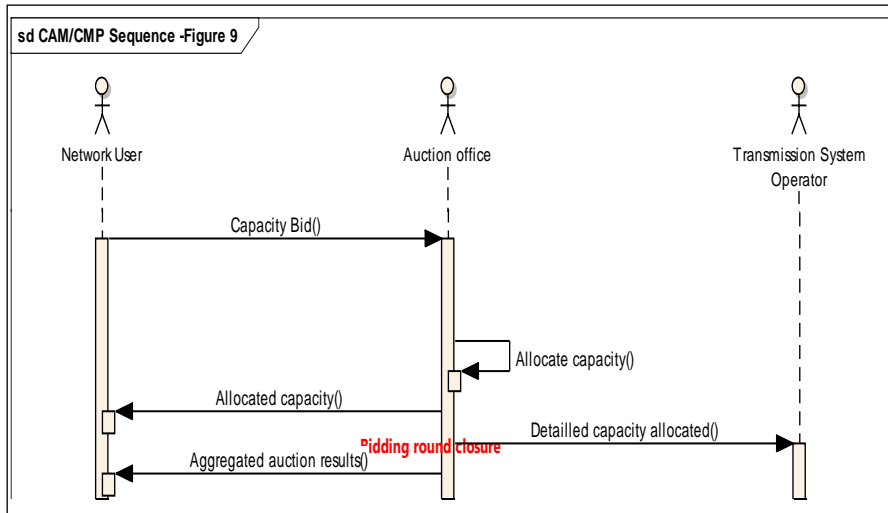
Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Offered Capacity	Transmission System Operator	Auction Office	Private	Recommendation – Document Based
Offered Capacity	Auction Office	Transmission System Operator	Private	Recommendation – Document Based
Offered Capacity	Auction Office	Registered Network User	Public	Interactive



# CAM & CMP processes & data exchange



## Auction Process

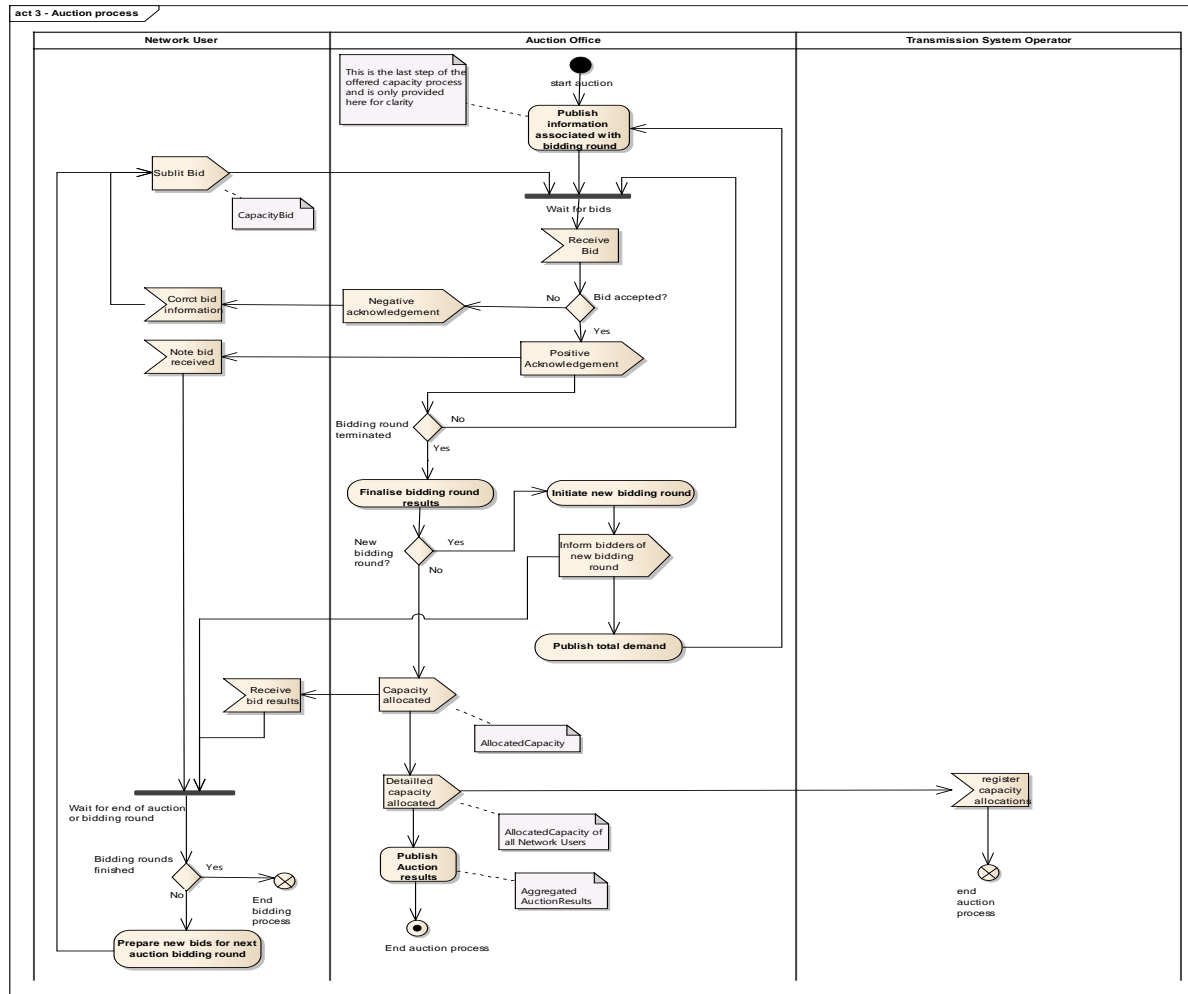




# CAM & CMP processes & data exchange



## Auction Process





# CAM & CMP processes & data exchange



## Auction Process

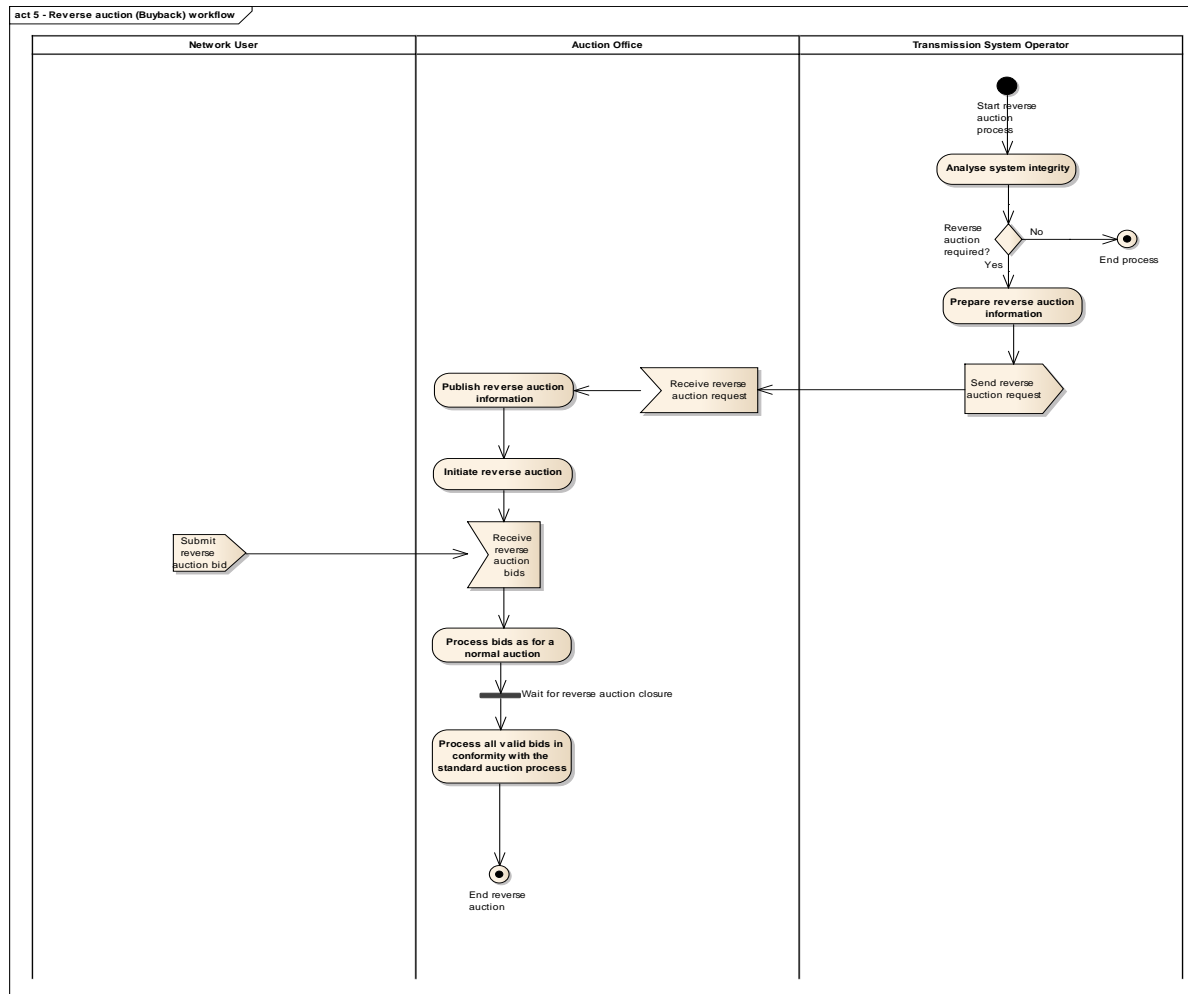
Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Capacity Bid	Registered Network User	Auction Office	Private	Interactive
Allocated Capacity	Auction Office	Registered Network User	Private	Interactive
Detailed Capacity Allocated	Auction Office	Transmission System Operator	Private	Recommendation - Document Based
Aggregated Auction Results	Auction Office	All	Public	Interactive



# CAM & CMP processes & data exchange



## Buyback (Reverse) Auction Process





# CAM & CMP processes & data exchange



## Buyback (Reverse) Auction Process

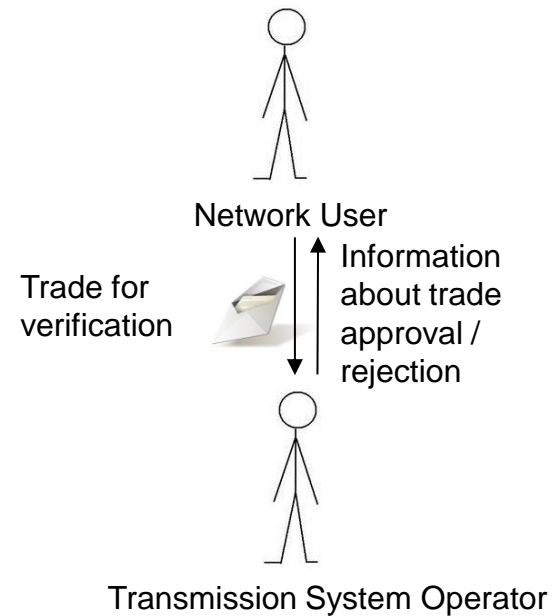
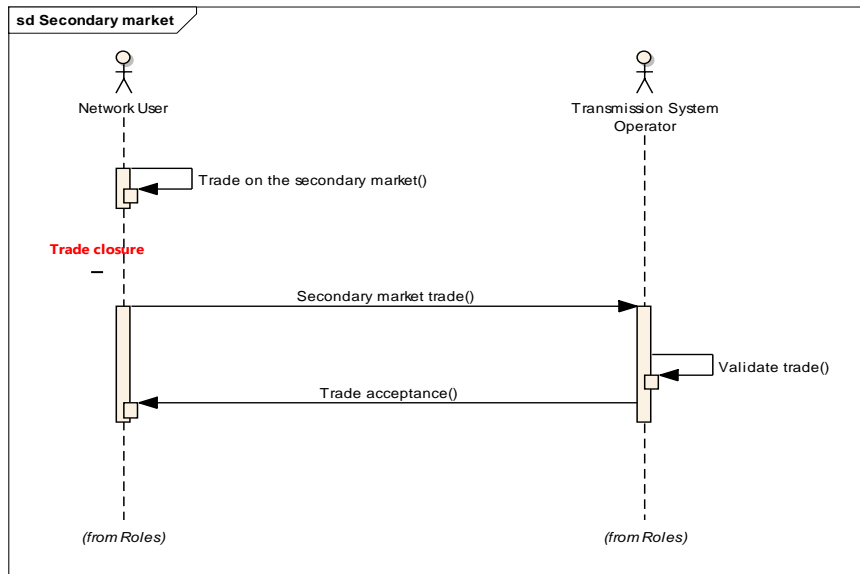
Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Reverse Auction Requirements	Transmission System Operator	Auction Office	Private	Recommendation - Document Based
Reverse Auction Bid	Registered Network User	Auction Office	Private	Interactive
Allocate Reverse Auction Results	Auction Office	Transmission System Operator	Private	Recommendation - Document Based
Allocate Reverse Auction Results	Auction Office	Registered Network User	Private	Interactive



# CAM & CMP processes & data exchange



## Secondary Market Trade Process



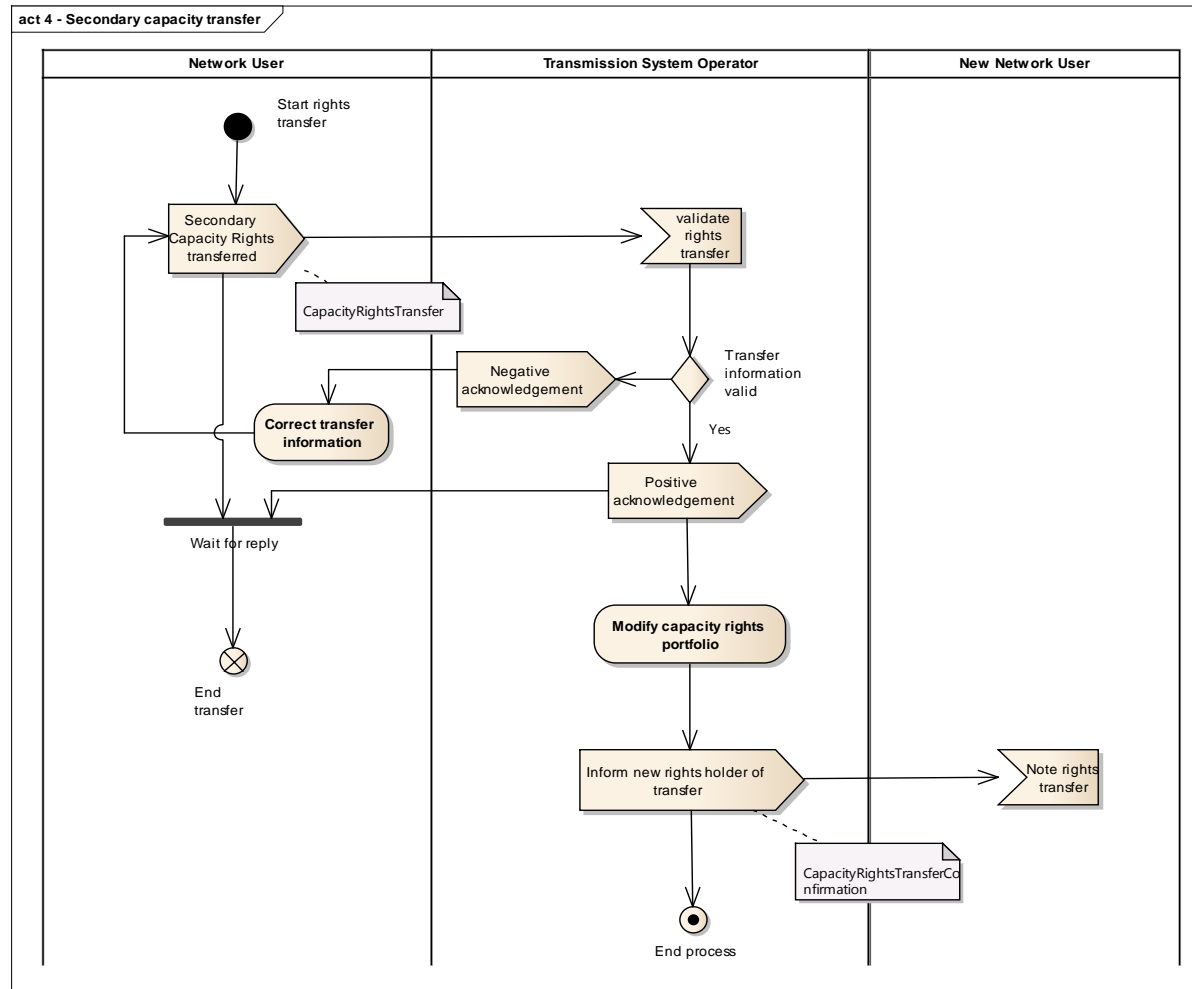




# CAM & CMP processes & data exchange



## Secondary Market Trade Process





# CAM & CMP processes & data exchange



## Secondary Market Trade Process

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Secondary Market Sales	Registered Network User (or Auction Office)	Transmission System Operator	Private	Interactive
Secondary Market Sales	Transmission System Operator	Registered Network User (or Auction Office)	Private	Interactive



# Thank You for Your Attention

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# Agenda for today



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# Common Data Exchange Solution for Nomination and Matching Procedures

**Mihai Goage**  
**Advise, Market**

- 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**



# CNOT on Nomination and Matching



Secure Area

Menu

entsog  
European network  
of transmission system operators  
for gas

Common Network  
Operation Tools  
(CNOTs)

Home - Common Network Operation Tools (CNOTs) - Nomination and Matching

NOMINATION AND MATCHING

31 | 2015 | All

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.

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▼ BRS NOMINATION AND MATCHING

► [Business Requirements Specification for the Nomination and Matching Procedures In Gas Transmission Systems \(NOM BRS\)](#) 12 Oct 2015

▼ MIG NOMINATION AND MATCHING

► [Nomination and Matching Process](#) 12 Oct 2015  
(external link)

current version

current version

# BRS for Nomination and Matching



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



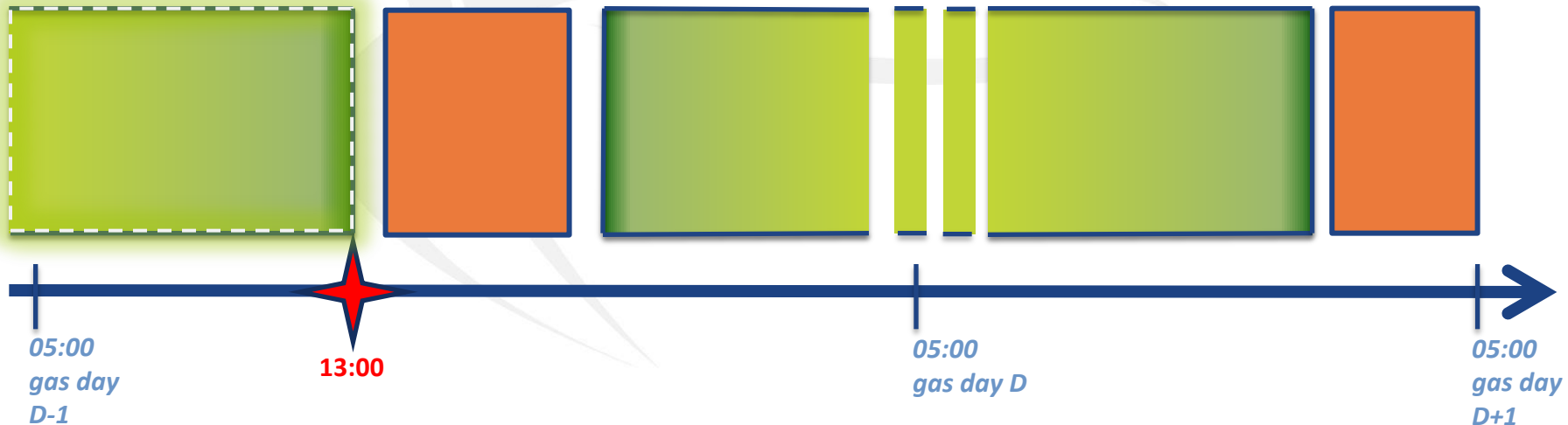
**The processes defined in the BRS document are only referring to Nominations at interconnection points.**



# 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)

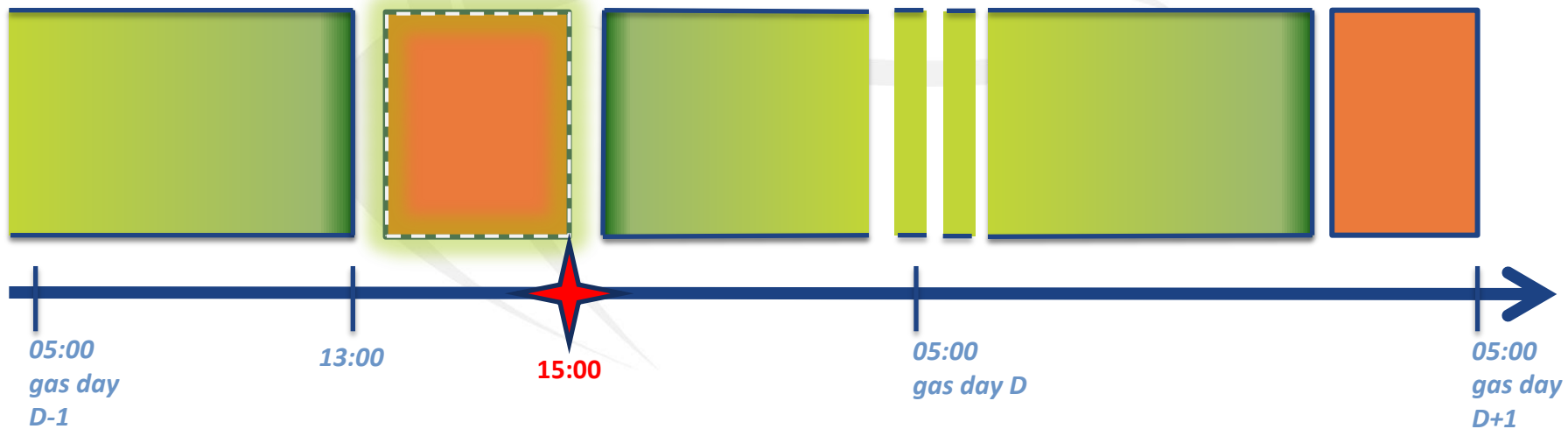






# Nominations process (at IPs) in BAL NC

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)**:

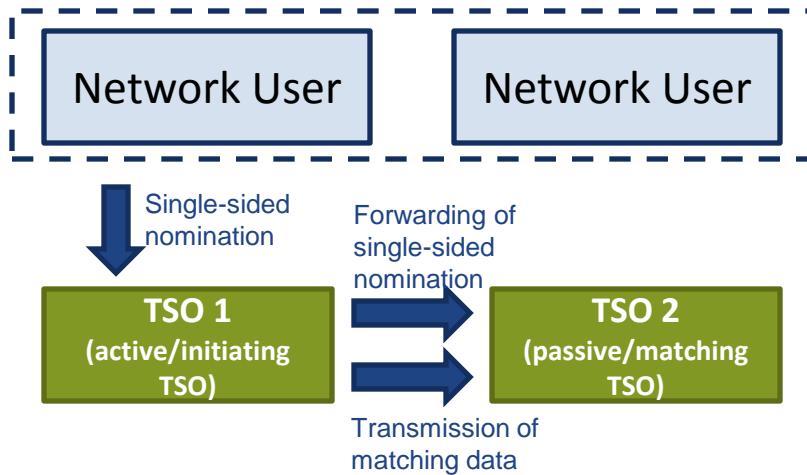
- One TSO initiates the matching process by sending all necessary matching data to the adjacent TSO to conduct the matching. This TSO is deemed **initiating TSO**.
- The adjacent TSO conducts the matching based on the data provided by the initiating TSO. This TSO is deemed **matching TSO**.



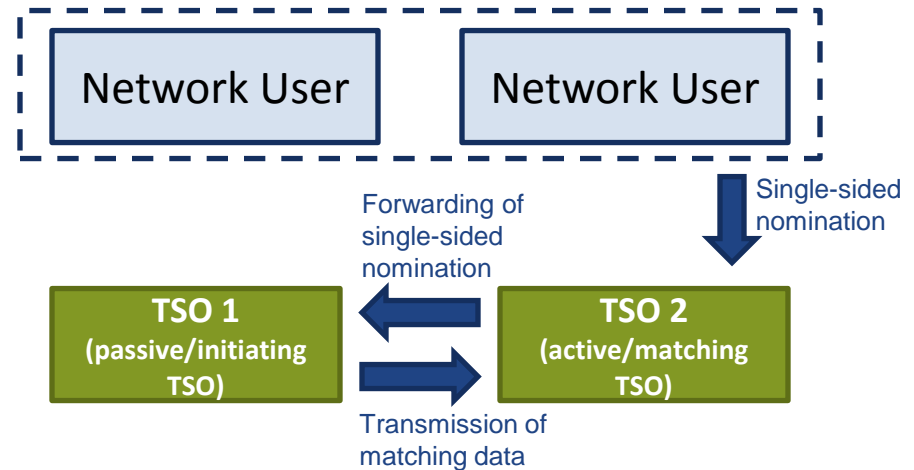
# Active/Passive vs. Initiating/Matching

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

Case 1: Passive TSO as matching TSO



Case 2: active TSO as matching TSO



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

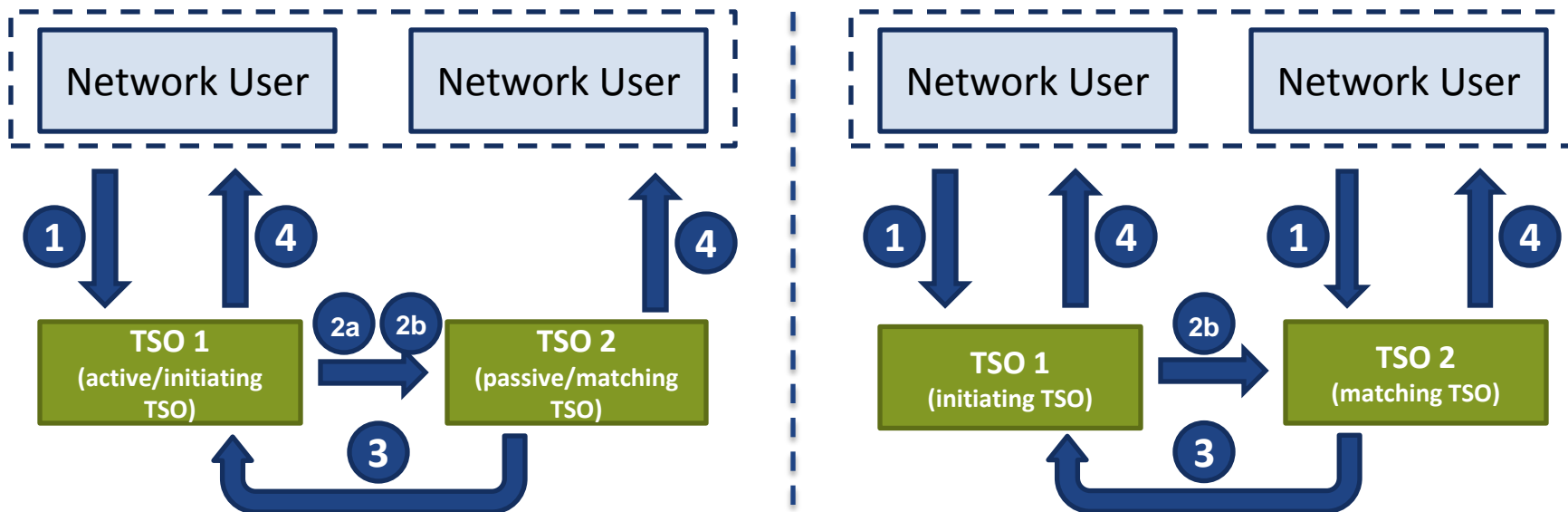
- Only submitted to one TSO at the IP
- Submitted only by one NU
- No distinction between bundled and unbundled capacity products
- No distinction between firm and interruptible capacity products

## 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



	Single-Sided Nomination	Double-Sided Nomination
<b>1</b>	Nomination of transport at IP from NU to active/initiating TSO.	Nomination of transport at IP from NUs to both respective TSOs at the IP.
<b>2</b>	<b>(a)</b> Forwarding of single-sided nomination and <b>(b)</b> Information on processed quantities to passive/matching TSO.	<b>(a)</b> ----- <b>(b)</b> Information on processed quantities to matching TSO.
<b>3</b>	Information about matching results from passive/matching TSO to active/initiating TSO.	Information about matching results from matching TSO to initiating TSO.
<b>4</b>	Confirmation of transport from both TSOs to respective NU.	Confirmation of transport from both TSOs to respective NU.

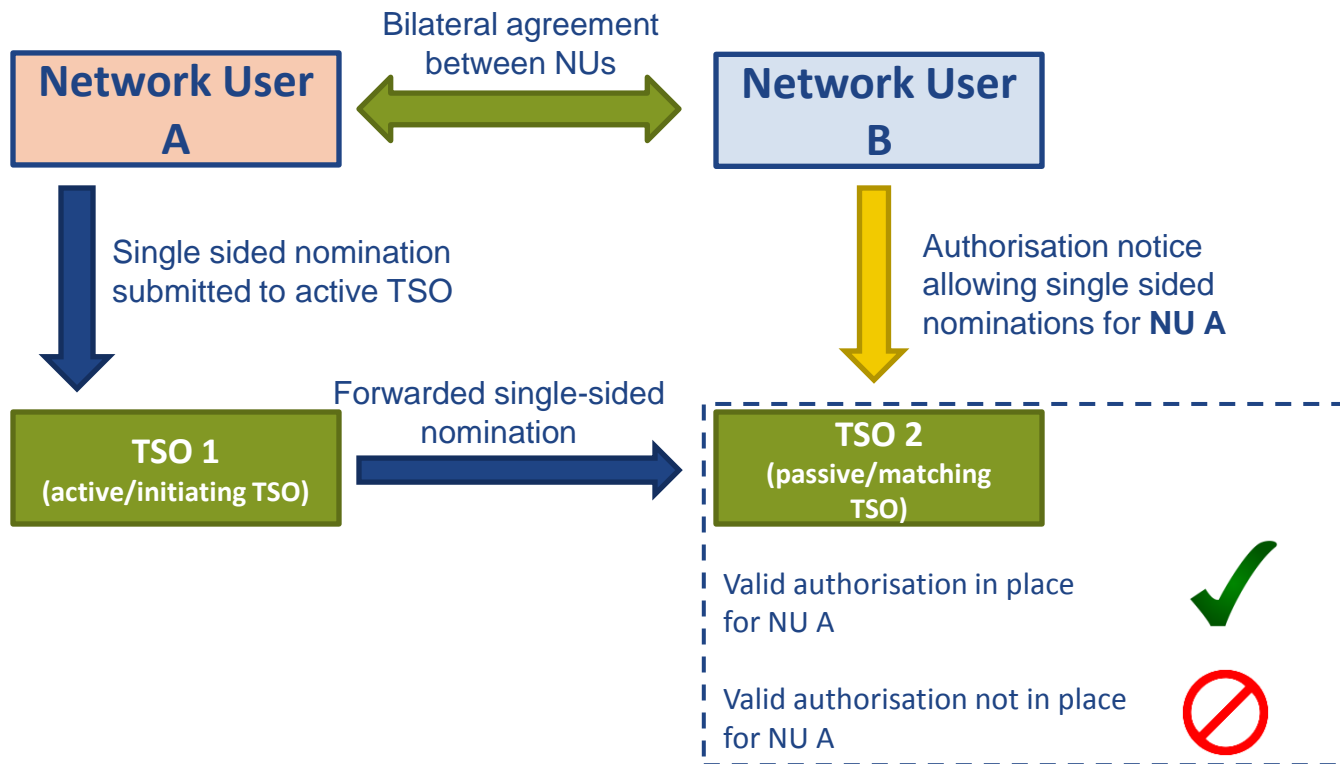


### **3. Common Data Exchange Solution for Nomination authorisation process**



# 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.



# Common Data Exchange Solution for the Nomination authorisation process



Information Flow	From Role	To Role	Confidentiality level	Common Data Exchange Solution
Nomination authorisation	Registered Network User	Transmission System Operator	Private*	Recommendation: Document Based

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

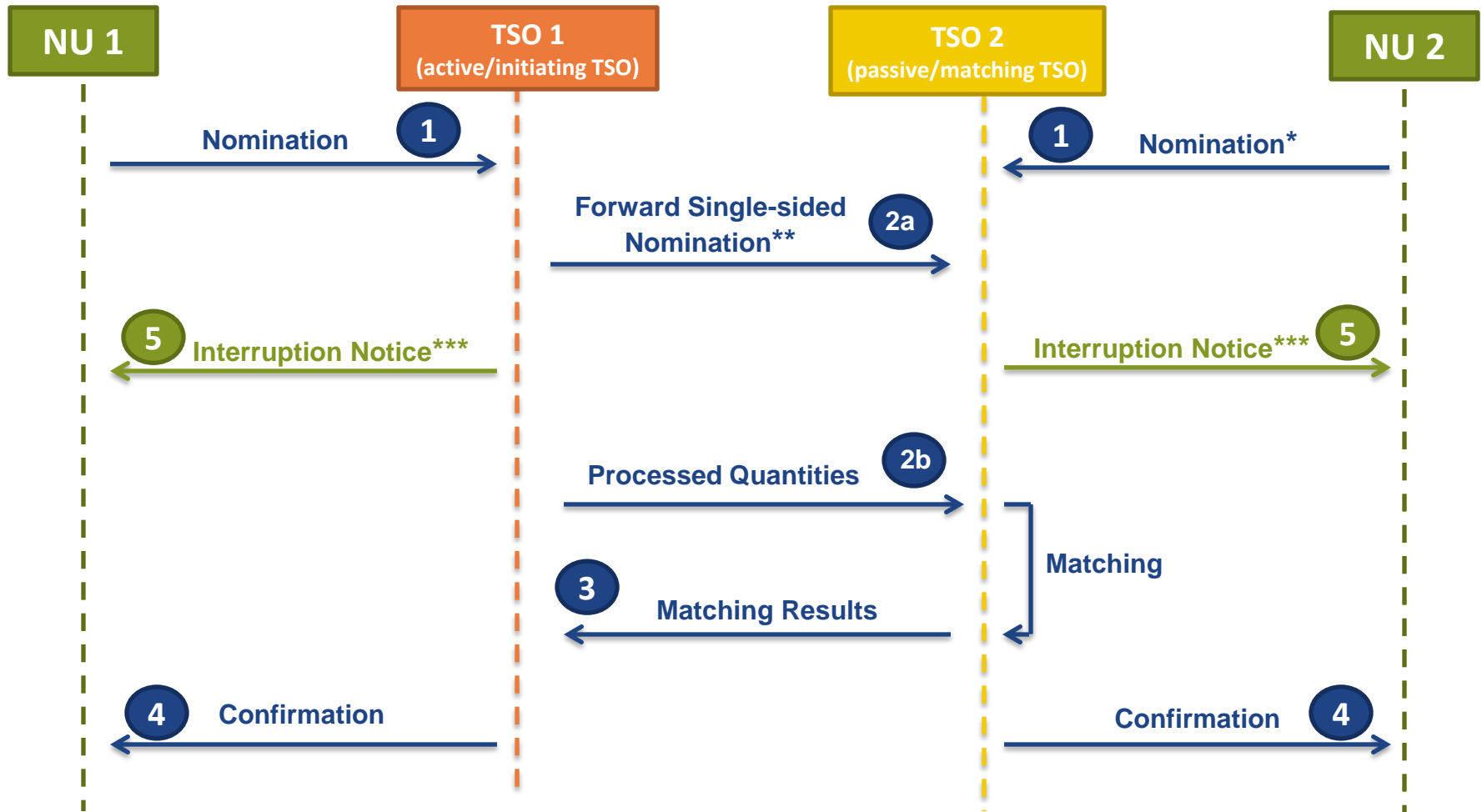




## **4. Common Data Exchange Solution for Nomination & Matching processes**

# Nomination & matching processes

## Information Flows for SSN and DSN



\* 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



	Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
1	Nomination (SSN)	Registered NU	(Initiating) TSO	Private	Document Based
1	Nomination (DSN)	Registered NU	(Matching) TSO	Private	Document Based
2a	Forward Single Sided Nomination	(Active) TSO	(Passive) TSO	Private	Document Based
2b	Processed Quantities (DSN)	(Initiating) TSO	(Matching) TSO	Private	Document Based
3	Matching Results	(Matching) TSO	(Initiating) TSO	Private	Document Based
4	Confirmation Notice	(Initiating) TSO	Registered NU	Private	Document Based
4	Confirmation Notice	(Matching) TSO	Registered NU	Private	Document Based
5	Interruption Information	(Initiating) TSO	Registered NU	Private	Document Based
5	Interruption Information	(Matching) TSO	Registered NU	Private	Document Based

**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

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Nomination authorisation *	Registered NU	TSO	Private	<b>Recommendation*</b> Document Based
Nomination	Registered NU	(Initiating) TSO	Private	Document Based
Nomination	Registered NU	(Matching) TSO	Private	Document Based
Forward Single Sided Nomination	(Active) TSO	(Passive) TSO	Private	Document Based
Processed Quantities	(Initiating) TSO	(Matching) TSO	Private	Document Based
Matching Results	(Matching) TSO	(Initiating) TSO	Private	Document Based
Confirmation Notice	(Initiating) TSO	Registered NU	Private	Document Based
Confirmation Notice	(Matching) TSO	Registered NU	Private	Document Based
Interruption Information	(Initiating) TSO	Registered NU	Private	Document Based
Interruption Information	(Matching) TSO	Registered NU	Private	Document Based

\* Data exchange solution is not mandatory but recommended and has to be negotiated between the TSO and NU.



# Thank You for Your Attention

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Adviser, Market

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# Public Consultation



Update to BRS NM\_CAMCMP and IGCAMPCMP  
Consultation Questions  
INT0827-160906  
06 September 2016

## 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), ENTSOG 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)**

	A	B	C	D	E	F	G	H	I	J	K	L	M
Date		Author name	Company name/Organisation	E-mail/ phone	Post address								
		Date											
													The different common data exchange solutions shown in column I are defined in the Interoperability Network code Art 21.
													<b>Recommendation</b> " is used in cases where communications are identified in the BRS document (business requirement specification) which are not explicitly part of the network code. As such the proposed solution is not enforceable but is to be considered as a "recommendation" to encourage harmonisation, and are to be negotiated bilaterally on a case by case basis.
													<b>"Date of Publication"</b> After a <b>lead time of 12 months</b> starting from the date of publication, the TSOs or parties "acting on behalf of TSOs" shall make the Common Data Exchange Solution available for use with their counter parties. (see also question on line 7 in the table below)
													<b>Derogations:</b> In the case of Member States which are not connected to the interconnected EU network and hold a derogation (re Art 49 of directive 2009/73/EC), the Common Data Exchange Solution should be made available not later than the time of the establishment of the connection with the interconnected EU network (see also Art1(2) Network code Interoperability)
													<b>Confidentiality:</b> 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.
Process Area Value	BRS	Document Chapter	Document Line Number	Information Flow	From Party Role Value	To Party Role Value	Initiality Level	Solution	Publication n	YES / NO	e proposal	Comments / Rationale for an alternative proposal	
Confidentiality	Please indicate whether you would like any part of the information provided to be kept confidential and be reported only in an aggregated manner												
Implementation lead time	Do you agree with the proposed lead time of 12 months for new or changed versions of the Business Requirement Specifications and CMO1-2?												
Capacity Trading Processes	CAP0554_160412_BRS_CAM+CMF_V18.doc	3.3.12	509	Network User Registration	Network User	Transmission System Operator	Private	Recommendation – interactive					
		3.3.13	515	Network User Registration to Auction Office	Network User	Auction Office	Private	Recommendation – interactive					
		3.3.14	522	Approved Network User	Auction Office	Registered Network User	Private	Recommendation – interactive					
		3.3.15	531	Surrender Capacity Rights	Registered Network User	Auction Office	Private	Interactive	11/1/2016				
		3.3.16	551	Offered Capacity	Auction Office	Registered Network User	Public	Interactive	11/1/2016				
		3.3.18	572	Capacity Bid	Registered Network User	Auction Office	Private	Interactive	11/1/2016				
		3.3.19	578	Allocated Capacity	Auction Office	Registered Network User	Private	Interactive	11/1/2016				
		3.3.111	590	Aggregated Auction Results	Auction Office	All	Public	Interactive	11/1/2016				
		3.3.112	601	Surrendered Capacity Sold	Transmission System Operator	Registered Network User	Private	Document Based	11/1/2016				
		3.3.114	614	Reverse Auction Bid	Registered Network User	Auction Office	Private	Interactive	11/1/2016				
		3.3.115	626	Allocate Reverse Auction Results	Auction Office	Registered Network User	Private	Interactive	11/1/2016				
		3.3.2	643	Secondary Market Sales	Registered Network User	Transmission System Operator	Private	Interactive	11/1/2016				
		3.3.2	651	Secondary Market Sales	Transmission System Operator	Registered Network User	Private	Interactive	11/1/2016				
		3.3.3.3	282	Nomination Authorisation	Registered Network User	Transmission System Operator	Private	Recommendation – Document Based					
Nomination and Matching Processes	AL0453_160412_BRS on nominations_V17.doc	3.4.1	338	Nomination	Registered Network User	(Initialing) Transmission System Operator	Private	Document Based	11/1/2016				
		3.4.1	338	Nomination	Registered Network User	(Matching) Transmission System Operator	Private	Document Based	11/1/2016				
		3.4.1	347	Forward single sided nomination	(Active) Transmission System Operator	(Passive) Transmission System Operator	Private	Document Based	11/1/2016				
		3.4.1	354	Processed Quantities	(Initialing) Transmission System Operator	(Matching) Transmission System Operator	Private	Document Based	11/1/2016				
		3.4.1	362	Matching Results	(Matching) Transmission System Operator	(Initialing) Transmission System Operator	Private	Document Based	11/1/2016				
		3.4.1	367	Confirmation Notice	(Initialing) Transmission System Operator	Registered Network User	Private	Document Based	11/1/2016				
		3.4.1	367	Confirmation Notice	(Matching) Transmission System Operator	Registered Network User	Private	Document Based	11/1/2016				
		3.4.1	375	Interruption Notice	(Initialing) Transmission System Operator	Registered Network User	Private	Document Based	11/1/2016				
		3.4.1	375	Interruption Notice	(Matching) Transmission System Operator	Registered Network User	Private	Document Based	11/1/2016				
		3.4.1	375	Interruption Notice	(Matching) Transmission System Operator	Registered Network User	Private	Document Based	11/1/2016				

**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](mailto:Interoperability@entsog.eu)**



# Data Exchange – Public Consultation

## ■ Consultation Question Example:

5	Process Area Value	BRS	Document Chapter	Document Line Number
6			3.3.1.2	509
7				
8				
9				
10				
11				
12	Capacity Trading Processes	CAP0554_160412_BRS_CAM+CMP_V18.docx		
13				

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

Please send your response to [Interoperability@entsog.eu](mailto:Interoperability@entsog.eu)



# Data Exchange – Public Consultation

## ■ Consultation Question Example:

### BRS CAM+CMP V18

#### 505 **3.3.1.2 Network User registration to Transmission System Operator**

506 Prior to operating on the market a Network User must register with the Transmission  
507 System Operator.

508 The data exchange solution for this data exchange is to be negotiated between the  
509 Transmission System Operator and the Network User.

Information Flow	From Role	To Role	Confidentiality Level	Common Data Exchange Solution
Network User Registration	Network User	Transmission System Operator	Private	Recommended - Interactive

The BRS CAM+CMP V18 can be found on the consultation page on the ENTSOG website.



# Data Exchange – Public Consultation

## ■ Consultation Question Example:

5	Information Flow	From Party Role Value	To Party Role Value	Confidentiality Level
6	Network User Registration	Network User	Transmission System Operator	Private

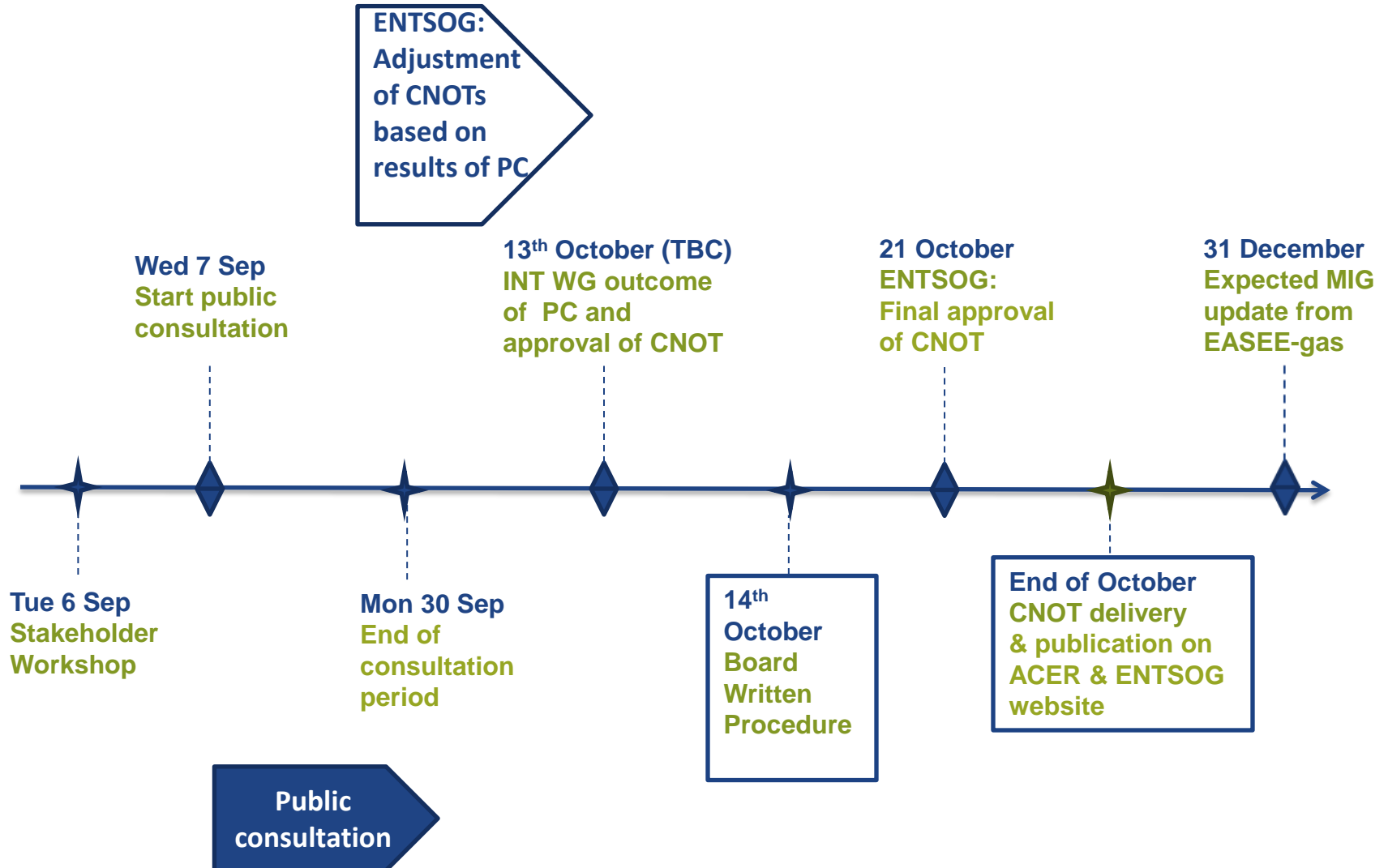
5	Common Data Exchange Solution	Date of Publication	YES / NO	Alternative proposal	Comments / Rationale for an alternative proposal
6	Recommendation - interactive				

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](mailto:Interoperability@entsog.eu)



# Next steps – Sept-Dec 2016





# 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

Author name
Company name/Organisation
Date
- 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

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