# Initial high-level proposal for implementation & testing timeline for Go-Live Phase 1 iCAROS

elia

Fine-tuning workshop iCAROS

# iCAROS = Integrated Coordination of Assets for Redispatching and Operational Security



# iCAROS phased implementation

 $\rightarrow$  Phasing reflects operational prioritization and is cocreated with SGUs & DSOs  $\rightarrow$  no big bang but safeguarding operational robustness



\* CDSOs are included in cocreation for SGUs connected to their grid



### iCAROS phase 1: Interaction Scheduling Agent – Elia

1.	ID Scheduling
2.	Congestion Risk Indicator
3.	Bidding of Redispatching energy bids
4.	Activation of Redispatching energy bids



### **ID Scheduling**

#### **Current process**

- IntraDay Production Program Request (IDPCR)
- Production Program delivered on Power Plant level in intraday (on unit level in DA)

#### **Current interaction**

- BRP sends IDPCR to Elia via Probid application
- Elia update of Production Program after activation or notification of Forced Outage
- Interface: BRP System to Elia System

#### **Future process**

- Intraday Schedule amendment
- Elia can send AD HOC request to return to schedule, in case a deviation of the Schedule might cause a significant congestion risk
- Exact rules to define the level of schedule information exchange will be communicated during WS of 7/10/2020

- Scheduling Agent sends Schedule amendment to Elia via new Scheduling application (and vice versa)
- Elia sends to Scheduling Agent newly valid daily Schedule, including possible amendment after activation
- Interface: SA System to Elia System (Objective to extend with User interface in iCAROS phase 2)



### **ID Scheduling**

- Message format to be confirmed
- Possibly based on ENTSOe CIM: <u>SCHEDULE DOCUMENT</u>





### **Congestion Risk Indicator**

#### **Current process**

 Each day Elia determines the "Red Zones" as part of the management of congestion risks for the Belgian grid.

#### **Current interaction**

- Red Zones are published on Elia.be
- Elia sends Red Zone information to CIPU contract holders and BSP's with mFRR contract, via Probid application.
- Interface: Elia System to BRP system

#### **Future process**

- Elia will calculate Congestion Risk Indicator

#### **Future interaction**

To be defined





### **Bidding of Redispatching energy bids**

#### **Current process**

- Same implicit energy bid used for Redispatching and non-contracted mFRR Energy Bids DPsu.
- Redispatching energy bids on Power Plant level, calculated based on reserved energy bid (on unit level) and production program.

#### **Current interaction**

 Only explicit submission of market based prices by BRP

#### **Future process**

- Explicit bidding for redispatching energy bids
- Exact rules to define the level of redispatching energy bids exchange will be communicated during WS of 7/10/2020

- Scheduling Agent submits redispatching energy bids (volumes & prices only valid for redispatching energy bids) to Elia via existing BMAP application
- Interfaces:
  - Scheduling Agent System to Elia System
  - Scheduling Agent can connect via user interface (Similar to current situation)







### **Bidding of Redispatching energy bids**

- Message format to be confirmed
- Possibly based on ENTSOe CIM: <u>BID DOCUMENT</u>







### Activation of Redispatching energy bids

#### **Current process**

- Same implicit energy bid used for Redispatching and non-contracted mFRR Energy Bids DPsu.
- Redispatching energy bids on Power Plant level, calculated based on reserved energy bid (on unit level) and production program.

#### **Current interaction**

- Elia sends Redispatching activation request to BRP via Probid application on Power Plant level
- Interface: Elia System to BRP system

#### **Future process**

- Explicit bidding for redispatching energy bids
- Exact rules to define the level of redispatching energy bids exchange will be communicated during WS of 7/10/2020.

#### **Future interaction**

- Elia sends activation request for a redispatching to the Scheduling Agent via new Selection & Activation application
- Interface: Elia System to Scheduling Agent System



Title of presentation



### **Next steps**

- <u>16/06/'20</u>: Fine-tuning workshop iCAROS Initial presentation of timeline to MP's request for feedback
- <u>Summer period 2020</u>: Review of comments made during Fine-Tuning workshop iCAROS on planning and testing => updated implementation & testing timeline
- <u>07/10/'20</u>: Fine-tuning workshop iCAROS Second presentation of timeline to MP's request for feedback
- <u>26/02/21</u>: Presentation of timeline to MP's & manual 'bidding properties'
- Full delivery of Technical guides Mid May 2021
- <u>September 2021 February 2022</u> [ ~5 months before Go-Live] period in which demo environment will be available for MP and test sessions will be organized







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### Feedback and follow-up

Feedback, comments and suggestions on presented initial high-level proposal for implementation & testing timeline for Go-Live Phase 1 iCAROS

are kindly requested by sending it to <u>Viviane.Illegems@elia.be</u> by 1<sup>st</sup> July 2020.

Follow-up via next iCAROS taskforce on October 7<sup>th</sup> 2020.

iCAROS Program Manager **Viviane Illegems** 

Design architect outage planning, scheduling, congestion **Caroline Bosschaerts** 



# Thank you.

