

Operational Planning and Scheduling

Network Code

Edition 2

16 September 2013
Stakeholders Information Meeting

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Scope of Edition 2

ACER Opinion summary

Main revisions of the Network Code

Conclusion

Scope of Edition 2



Motivations for a second Edition of OPS

- **ACER issued its Opinion on OPS first edition, on June 19th**
 - Despite that the NC is broadly in line with the Framework Guidelines+
 - ACER stated that improvements were required before the Agency could recommend its adoption to the Commission
- **ENTSO-E has informed ACER that it will resubmit a second Edition for ACER Opinion**

Objectives

- **Improve (i) clarity, (ii) readability of the NC**
- **Improve (iii) consistency with other NCs**
- **Without changing fundamental choices (principles and processes) described in edition 1 of the NC**
 - Address every point of ACER Opinion
 - Address over legal/wording remarks provided by EC or stakeholders



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Scope of ACER Opinion

National scrutiny

legal wording for explicit role of national authorities

Transparency

request for additional indicators on accuracy of forecasted variables

Coherence and compatibility with other NCs

request for improving coherence with OS

Performance indicators and forecasting obligations

concerns about the TSOs roles and responsibilities regarding forecast use and checking of adequate accuracy

Scope and application

concerns about Self-Planned Interconnector concept and responsibilities when multiple TSOs + isolated systems

Drafting quality

2 pages



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Transversal changes

In order to improve consistency with other codes

- Usage of %**Transmission System**+ in all the NC; no more use of %Transmission Network+
- Systematic usage of **definitions provided in Demand Connection NC** (mainly for %Transmission Connected (Closed) Distribution Networks+)
- Additional references to **CACM** articles
- Improvement of %when applicable+ or %when relevant+ clauses by a description of the conditions of applicability
- Replacement of %best endeavours+ formulation by
%use all available economically efficient and feasible means under its control“

Recitals and Chapter 1 “General provisions”

Revision of definitions (Article 2)

- review of definition of **Scheduling Area**

Scheduling Area means the Bidding Zone except if there is more than one Responsibility Area within this Bidding Zone. In the latter case, the Scheduling Area equals Responsibility Area or a group of Responsibility Areas

- slight improvement of definition of **Adequacy**

Adequacy means the ability of in-feeds into an area to meet the demand in this area

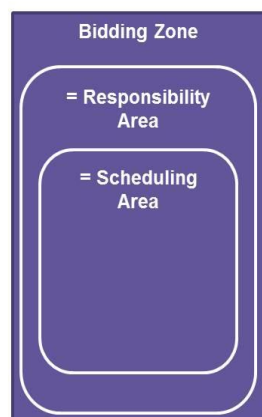
- new definition of **Outage Coordinating TSO** for Chapter 4

Recitals and Chapter 1 “General provisions”

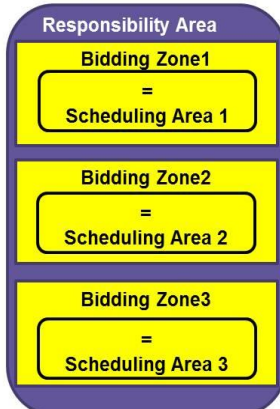


Relations between Scheduling Area, Responsibility Area and Bidding Zone

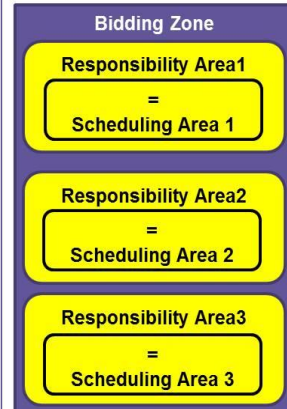
1. Responsibility Area
= Bidding Zone
= Scheduling Area



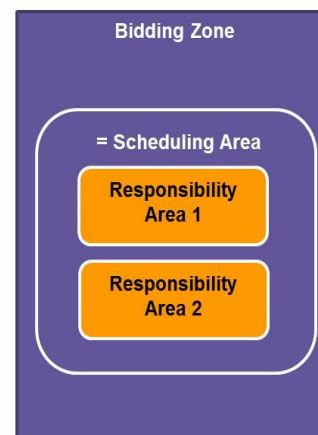
2. Responsibility Area
contains more than
one Bidding Zone then
Scheduling Area =
Bidding Zone



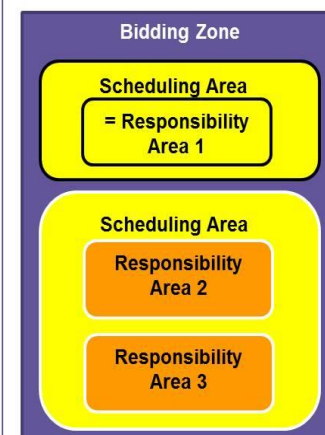
3. Bidding Zone
contains more than one
Responsibility Area then
Scheduling Area =
Responsibility Area



4. Two Responsibility Areas
establish one Scheduling Area
(Bidding Zone = Scheduling Area)



5. Bidding Zone contains more than
one Responsibility Area and two
Responsibility Areas establish one
Scheduling Area



Cases 1 to 3 were covered by the previous definition

Case 1 is the regular case (ex: France, Belgium...)

Case 2: Italy, Sweden

Case 3: Germany-Austria

Case 4 (and 5) was not covered

Case 4: Northern Ireland and Eire

Case 5: former case of city of Hamburg, which is part of 50HzT area, but was not directly connected.

Chapter 2 “Data for Operational Security analysis” and Chapter 3 “Operational Security analysis...”

Conditions for intraday IGM elaboration by TSOs

- Article 9(1) reviewed to point out **conditions when TSOs have to provide IGM for intra-day**

A reference is made to multi-party TSOs agreements on Operational Security coordination and

Art 20(2)(c) in Chapter 3 points out a corresponding item to be addressed in those agreements

Assessment of accuracy of variables used for Operational Security analysis

- Article 15(4) reviewed to link **how each TSO shall assess this accuracy** with the existing Article 19(1)(f)
which defines the methodologies to be developed by TSOs for coordination of Operational Security
- Article 15(5) made more exhaustive on actions to be engaged when accuracy is considered to be insufficient.

Chapter 2 “Data for Operational Security analysis” and Chapter 3 “Operational Security analysis...”

Conditions for performing Dynamic Security Analysis and Short-Circuit limits studies

- where applicable+conditions in Article 17 are replaced by references to appropriate Articles of NC OS

Transparency

- New Article 20(6) requires the TSOs and ENTSO-E to **publish the scope of the regions** of multi-party agreements

Others

- Article 19(1) (methodologies for coordinating Operational Security analyses) requires to provide methods for the **definition of the Observability Area**.

Chapter 4 “Outage Coordination”



Suppression of Self-Planned Interconnectors

- Introduction of **%Outage Coordinating TSO+** definition:
the TSO to which a Relevant Asset is directly connected to its Transmission System or connected via a ... Distribution Network
- Article 21(1) provides that each OC TSO is responsible for coordination process in its Responsibility Area
- **%TSO+** has been replaced by **%Outage Coordinating TSO+** everywhere in this Chapter where necessary to clarify it concerns only this function
- For every Relevant Asset, including grid elements, **an Outage Planning Agent must be identified**

Chapter 4 “Outage Coordination”

- **The process** for identifying Relevant Assets and coordinating Availability Statuses **remains unchanged**
 - First step: coordinate outages for Relevant Assets not owned by OC TSOs and DSOs*
 - Second step: take into account outages for Relevant Assets owned by OC TSOs and DSOs and solve remaining incompatibilities*

Other related changes

- If agreed, Availability Statuses can be provided with a **lower time granularity** than hour, for timeframes ahead of Scheduling (new Article 32 (2) and (3))
- Management of %Testing+status: Articles 43, 44, 45 have been merged in an unique Article 43

Chapter 5 “Adequacy”



National scrutiny

- Article 46(3) and Article 49(3): in case of absence of Adequacy, NRA **or other national authority** is informed
- Article 47: rewording to make clearer that the **methodology** for pan-European seasonal outlooks **shall be approved** by the NRAs. Conditions for reviewing the methodology have to be established
- Article 47(3) and 47(9) provide **conditions to ensure that ENTSO-E can fulfil requirement 8(3)(f)** of Reg. 714/2009, whatever the approval process of the methodology and its revisions would be

Chapter 6 “Ancillary Services”, Chapter 7 “Scheduling”, Chapter 8 “ Operational Planning Data Environment”

Covering the case (4) of Scheduling Area

- Article 52(4) has been added to precise that the involved TSOs shall agree on **which TSO operates the Scheduling Area** when this Scheduling Area covers more than one Responsibility Area.

Others

- No change in Chapter 6 (except suppression of « best endeavour » wording)
- No change in Chapter 8.

Chapter 9 “Performance Indicators” and Chapter 10 “Final Provisions”



Impacts of inaccuracies in variables

- Article 60 revised to add Performance Indicators in the Incident Classification Scale able to record cases where system security has been jeopardized in real time
because operational security analyses did not identify them, due to unexpected discrepancies of demand or generation forecasts.
- The geographical and time conditions for reporting are defined in Article 32 of OS

Applicability

- Updated but no change in principles: Articles to be applicable 18 months after entry into force except for Articles which stipulate a precise delay.



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- **All ACER Opinion points have been treated**
- **No changes in the technical and organisational concepts, roles and processes**
 - Remain the same than those resulting of informal and formal consultations and discussions held before Edition 1 release
- **Effective improvement of readability, wording, consistency**
 - Notably on legal issues