DT DCC and DSO EG

Meeting 04.11.2011
Brussels

4 November 2012

entsoe

Reliable Sustainable Connected

Agenda

4th November

09:00-09:05hrs	Approve Agenda
09:05-09:30hrs	Approve minutes from meeting 14th
Sept 2011	
09:30-10:30hrs	Completion of previous discussion on
drafted text:	

Compliance;

What is tested

How testing takes place

Stages of Compliance testing

Derogation;

What it is

Whom it applies to

How it is applied

Exemptions

Enforcement period

No longer than 3 years

10:30-10:45hrs	Coffee break
10:45-12:30hrs	Discussion on drafted text (continued)

12:30-13:00hrs	Lunch break
13:00-14:30hrs	Principles discussion on:

Balancing capabilities and provision of ancillary services;

Equipment requirements at connection point;

Instructions provide by TSO/DSO to user;

Manual/Auto

How they are provided/received

14:30-14:45hrs	Coffee break
14:45-15:45hrs	Discussion on drafted text
(continued):	
15:45-16:00hrs	Review and Set Actions

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1. **Approve Agenda**

2. Approve minutes from meeting 14th Sept 2011

3. Completion of previous discussion on drafted text from Sept meeting

4. Discussion on drafted text from draft sent last week

5. Principles discussion

6. Discussion on drafted text from draft sent last week

7. Review and Set Actions

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Principles for next meeting on:

1. Balancing capabilities and provision of ancillary services
2. Equipment requirements at connection point
3. Instructions provide by TSO/DSO to user
   Manual/Auto
   How they are provided/received

Principles for Balancing capabilities and provision of ancillary services

Not mandatory to offer dynamic demand response – exclude binary freq/voltage response and appliances

If offered:

Requirements should be similar to generators, i.e. Mainly voltage and frequency regulation

Harmonised requirements are likely to involve Europe range and system operator specified within this range

Issues requiring services are Frequency, voltage, constraints

Do we include DSO constraints issues and/or daily response curve issues?

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Principles for Balancing capabilities and provision of ancillary services

We believe there are a number of services that will be required/offered these:

1. System reserve
2. Frequency Response (LFDD i.e. binary on/off)
3. Frequency Response (Active power modulation control autonomous)
4. Frequency Response (Active power control SO controlled)
5. Very fast Frequency Response {Broadly comparable to inertia} (Active power controlled SO controlled)
6. Voltage Control (LVDD i.e. binary on/off)
7. Voltage Control (Reactive power modulation control autonomous)
8. Voltage Control (Reactive power control SO controlled)

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- Standard of connection not included i.e. 1 or 2 circuits, capacity of circuits, etc – Left to relevant SO and national standards/ regulation/procedures

- Equipment specified not separate section but as part of each requirement, i.e.
  - Need for communications equipment within signals section
  - Automatic disconnection under controls
  - Relays within protection
  - Monitoring equipment within monitoring requirements
  - etc

- Equipment specified at highest functional level allowing most technological variation

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Principles for Instructions provided to end user

- Instructions themselves will be covered in Operation Code

- DCC Code will specify capabilities to provide/receive instruction and as a consequence some of the principles/rights for instructions i.e.
  - Set points for voltage control
  - Disconnection/Reconnection
  - Compliance – tests/procedural steps
  - Monitoring

- Not exclude manual operation only specify response times

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