

EU Network Codes



Energy Networks Association

DCRP Issues and
Update

26 October 2017

DCRP_17_05_03

Agenda

1. TSOG Update
 - a) KORRR
2. RfG Developments
 - a) Timeline etc
 - b) Stakeholder workshops
 - c) Structure of G98/G99
 - d) Type Testing
 - e) Other RfG Issues
3. Other Codes update
4. Issues to note

- No TSOG update from previous meeting
- Entry into force - 14 September 2017
- Very little activity in GB – but will be discussed on 2/11 GCRP WG day. GC0106 raised to replace GC0095. Assume that development of GB response is best done jointly between DCRP and GCRP.
- “Key Organizational Requirements, Roles and Responsibilities” (KORRR) document on data exchange as required by Article 40(6) of TSOG – new 2/10 version emerged recently
- New version has included a lot of TSOG requirements that should be agreed nationally but are being imposed. This seems to be beyond the scope of what KORRR should be addressing; in fact KORRR as drafted doesn’t actually deal with organizational requirements at all.
- Consultation open from 31/10/17 until 01/12/17 and there is a public meeting in Brussels on 14/11/17

- WG consultation published 19/10
- Consultation agreed to be 15 days
- Draft final report to be to GCRP on 15/12
- Code Admin Consultation starting 18/12
- Modification Report to Ofgem Feb 18
- In order to ensure stakeholders understand and can comment meaningfully on the draft, two workshops focussing on distribution legal text were held on 6 and 10 October
- Two more planned for 6 & 7 November.
- Alternatives have been raised in relation to “more stringent” GB implementation and banding threshold.

- 19/10 102 consultation open for public consultation – both D Code and G Code text
- 24/10 100/101 formal alternative vote
- 25/10 100/101 draft final WG report for WG comment
- 30/10 100/101 deadline for final comments
- 02/11 100/101 WG meeting
- 06/11 Two days G99 stakeholder workshops
- 07/11 100/101 WG report to GCRP
- 14/11 102 consultation closes
- 14/11 102 WG meeting
- 20/11 102 alternative vote webex
- 28/11 102 formal alternative vote
- 29/11 102 circulate WG report
- 06/12 102 final comments
- 07/12 102 WG report to GCRP
- 20/12 GCRP
- 20/12 102 CA consultation
- 20/12 DCRP consultation on complete D Code, G98 and G99 text

Stakeholder Workshops – Summary 1

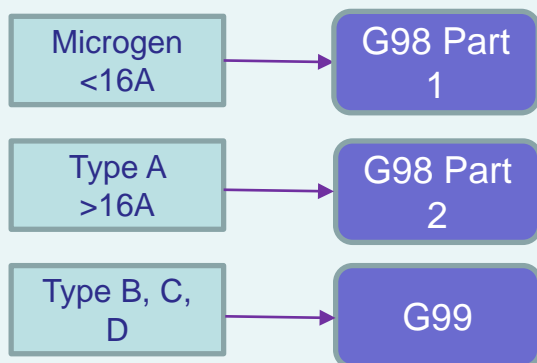
- Discussed
 - structure of D Code, G98 and G99 versus existing structure, and relationship with Grid Code
 - Use of Equipment Certificates v Manufacturers' Information
 - Possibility of including the non-type-tested Type A in G98-2, ie making G99 for B, C and D with no Type A.
 - Possibility of dropping the power quality related verification testing (assuming it is covered in other extant standards)
 - Need to ensure that <800W and storage exclusions are properly handled and signposted
 - Need for single phase power balance
 - Need to ensure new and old LEEMPS captured correctly
 - What unit size is appropriate to test for RoCoF withstand and frequency range capability
 - Need for clarity on licence derogation versus RfG derogation processes
 - Need for arbitration as well as derogations
 - Need to revisit the approach to use of solid state switching devices for isolation
 - Whether there should be tests and/or simulations for PPMs on falling frequency
 - Whether there is an emerging standard for power modulation, such as might be being driven by the growth of active network management
 - Structure of G98 and G99 – proposal is that G98 is solely microgeneration <16A and that G99 is everything else – only with all the A, B, C and D requirements laid out in separate chapters, each complete in itself in relation to the differing RfG requirements.

Stakeholder Workshops– Summary 2

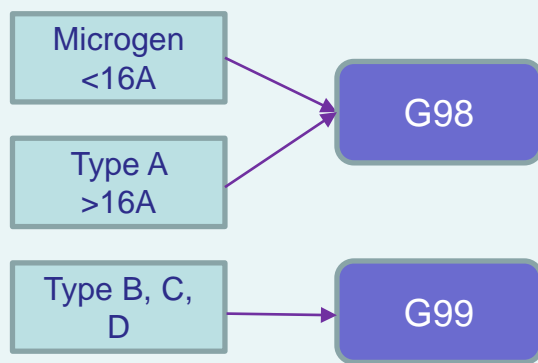
- Accepted (for now) modifications to the text:
 - Mods to compliance forms for clarity of who they apply to (all G9X documents)
 - Need to update the common application form (not in these documents)
 - Charges for witness testing to be line with regulated prices (as opposed to “commercial” rates)
 - G98-2 needs to cater for parallel, occasional parallel and standby operation
 - RoCoF withstand needs to be measure over 500ms
 - Corrections to terminology (Grid Code to be replaced with D Code references) in G99 12.5.9.1
 - To clarify that type tested equipment that is separable or separate can still considered to be type tested provided it is only connectable in a singular/unambiguous way so that functionality is assured, and which must still be function tested following assembly.
 - Need for clarity in relation to testing where the plant is designed to trip to island mode.
 - Manufacturers’ Information definition modified to ensure the authority of equipment certificates is recognized
 - Correct the applicability of LoM protection to Type C
 - Add the example of additional generating units crossing a banding threshold
 - Requirements for connexion/reconnexion stated more clearly
 - Remove CCGT specific requirements from G99; retain generic requirements
 - Ensure definition and usage of “droop” is consistent internally with both GB practice and RfG requirements
 - Make clear the concept of full and partial/component type testing
 - Ensure Art 13.2(f) fully captured in G99

G98 & G99 applicability

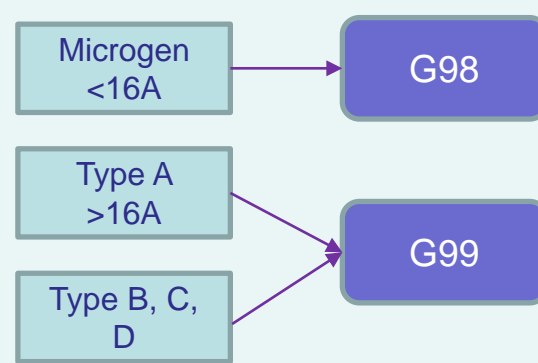
Option 1



Option 2

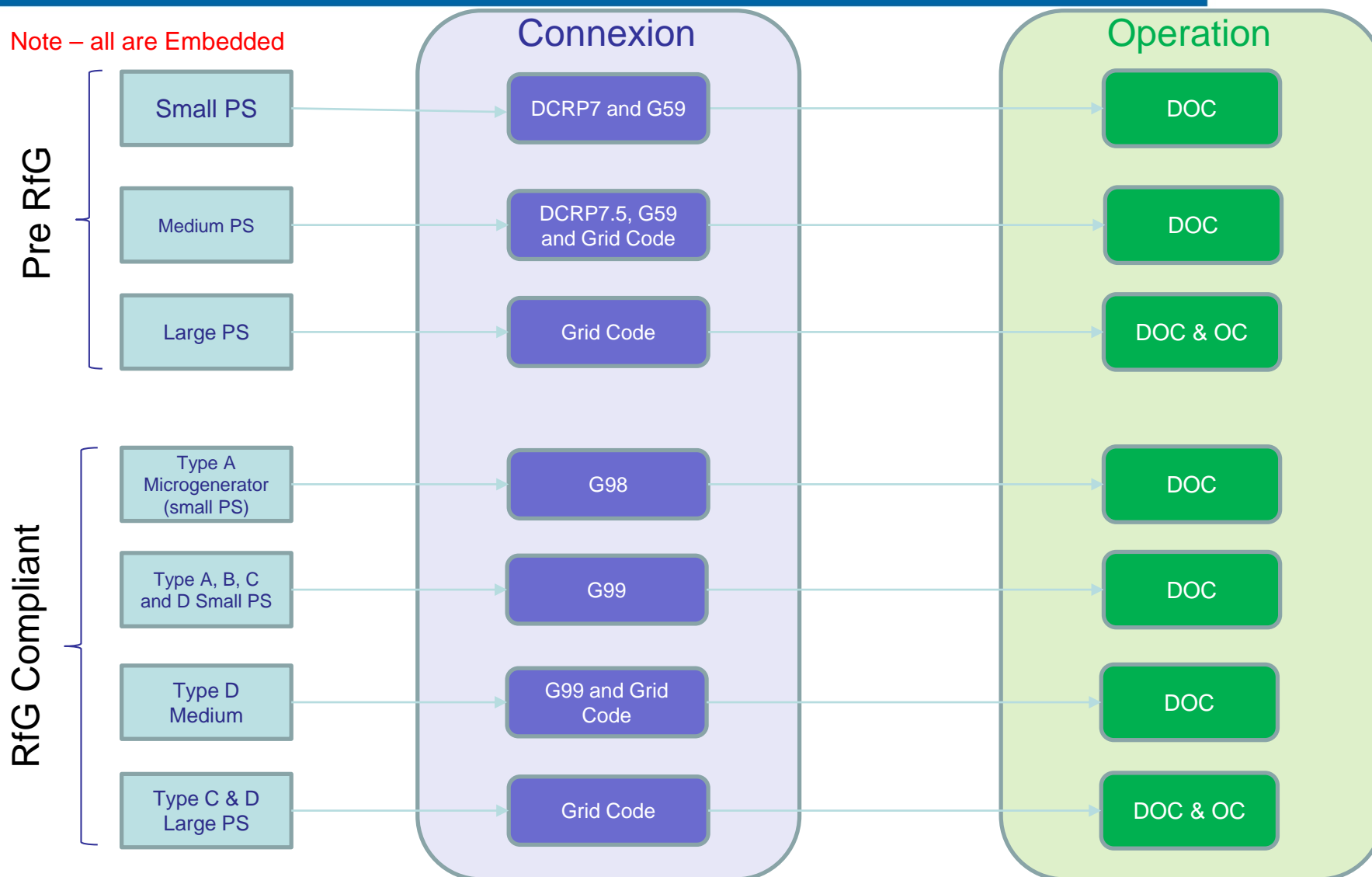


Option 3

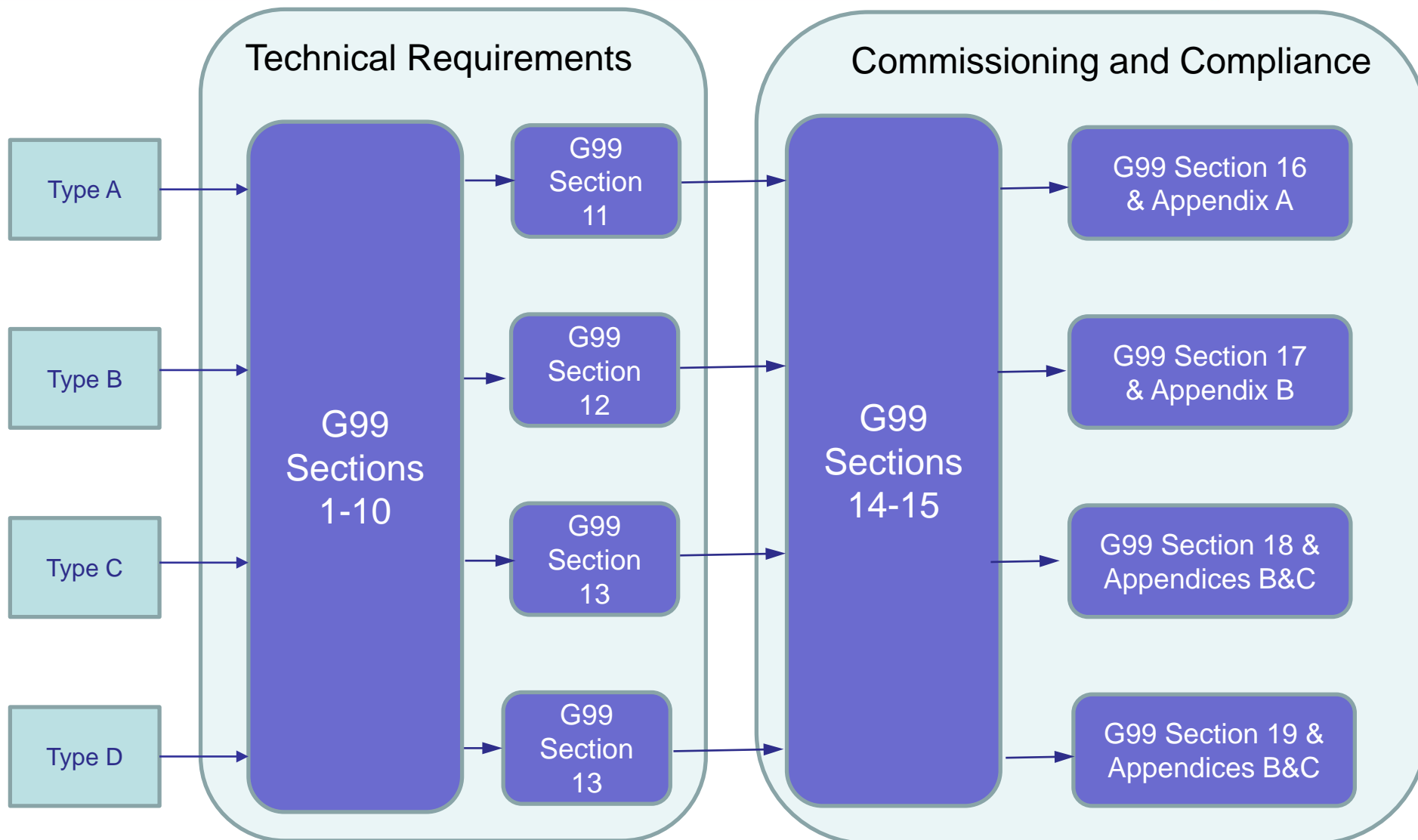


Drafting now done assuming Option 3

G98/G99 applicability



G99 Structure



Type Testing – Proposed approach

	Manufacturers' Information	Site Tests
Fully Type Tested (assumed Type A only)	Registered as Fully Type Tested information on ENA website via the Compliance Verification Report (G99 Appendix A.4)	Only installation checks required – as on the Installation Document (G99 Appendix A.3)
Partially Type Tested (Type A)	<ul style="list-style-type: none"> (i) Registered as product or component Type Test information on ENA Website using applicable parts of Compliance Verification Report (G99 Appendix A.4); and/or (ii) Supplied by the Generator using applicable parts of Compliance Verification Report (G99 Appendix A.4) 	<p>Demonstration of technical requirements not covered by Manufacturers' Information. (G99 Appendix A.4)</p> <p>Standard installation checks also required (G99 Appendix A.3)</p>
Partially Type Tested (B, C, D)	<ul style="list-style-type: none"> (i) Registered as product or component Type Test information on ENA Website; and/or (ii) Supplied by the Generator 	<p>Demonstration of technical requirements not covered by Manufacturers' Information. (G99 Appendix B.2)</p> <p>Standard installation checks also required (G99 Appendix B.3)</p>
One off installation	To be provided by the Generator for those aspects that cannot be demonstrated on site (including simulations etc)	<p>Demonstration of technical requirements not covered by Manufacturers' Information. (G99 Appendix B.2)</p> <p>Standard installation checks also required (G99 Appendix B.3)</p>

- Implementation Date – Ofgem confirmed that the effective date for compliance is May 2019 – although all GB documentation should be compliant by May 2018.
- Storage and <800W
 - Drafting will include both the above
 - Drafting will exclude applying RfG requirements to them
 - Ofgem have indicated that they cannot approve D Documents if RfG requirements applied to storage
 - Similar exclusion for short term paralleling is being included as RfG does not apply

- Operational Metering
 - Draft DNO spec created
 - Will apply for all type B (ie down to 1MW) and above
 - More detailed development yet to be done
- Fault recorders
 - mandatory for Type C and Type D (Art 15.6(b))
 - DNO requirements included in the draft spec referred to above

Stakeholder Workshops – next steps

- Planning two more workshops on 6 and 7 November
 - Day 1 intended to focus on Type A and B issues – particularly the compliance process
 - Day 2 similar focus on Types C and D
 - Both days can be used to pick up any significant points in the current drafting
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- Looking forward, when the D Code and G98/G99 are finalised, DNOs will look to create briefing material etc to help ensure stakeholders and DNO staff understand the implications of the changes and new process requirements.

- No update since last meeting
- It is theoretically possible that a customer will seek a HVDC connexion to a DNO's 132kV network – which would then need to be HVDC Code compliant.
- There are no HVDC requirements in the Distribution Code
- Suggested approach is to do nothing in the short term, but be prepared to create something driven by a project should one come along
- Note that internal DNO DC projects do not necessarily drive the need for D Code requirements (because do not impose requirements on Users)
- In the medium term (ie when the other EU NC pressures have abated) use DNO and NG expertise to create a light touch set of D Code requirements.

No update since previous meeting

- GC0104 proposed at GCRP to replace GC0091
- It is suggested that the bulk of new requirements for demand side capabilities be drafted into a new section (DPC 9) of the D Code

- Not obviously very active – although TERRE deadlines are approaching
- GL Electricity Balancing:
 - Has now been voted on and approved.
 - The mandatory obligation to elaborate how distribution constraints shall be settled has been changed to a national decision (old Art 16.3; new Art 15.3)
 - 15 minute imbalance settlement period will be mandatory with no exceptions by 2025
- TERRE
 - Replacement Reserves – provision from participants as small as 1.5MW
 - NG intend to extend the BSC approach to include small parties inside a simplified balancing mechanism
 - Expected to be needed to be worked up by May 18
 - Clear overlap with Open Networks Workstream 1
 - Most requirements defined etc by TSOG

- The DCRP is invited to note:
 - Progress in developing G98 and G99, with interested stakeholder input from ENA workshops
 - The uncertainty around banding thresholds pending conclusion of formal GCRP processes on this (probably 24/10)
 - The tight timelines to complete the drafting and to consult appropriately by the May 18 deadline
 - Proposals to decouple from joint GCRP process at the December GC0102 consultation (see separate DCRP paper).