

SMB SG3 & SG4 Updates

Presented to TC100 AGS
25 October 2011



Study Group 3:
Smart Grid
Study Group 4:
LVDC Distribution
Systems

SMB SG3 Update

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Study Group 3:
Smart Grid

IEC TC100 participation to SG3 relating activities

- 2nd TC/SC Officer Smart Grid Workshop
- Use Case development in TC8 AHG4

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IEC Status of Use Case development

- SG3 (Smart Grid standardization coordination) assigns Use Case development to TC8.
- TC8 AHG4 established 11 Domain Core Teams for creating generic Use Cases of Smart Grid.
 - Started on June 10th at 2nd meeting of AHG4.
 - "Distribution Grid Management" and "Smart Home/Commercial/Industrial/DR - Customer Energy Management" have been started. Others are not started yet.
 - 2 teams had several phone conferences.
- TC8 AHG4 activity was reported at TC/SC Officers Workshop on Jun 28th.
- Latest SG3 activity including TC8 was reported to SMB on Oct. 24th. Detail report was not available yet.

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SMB SG4 Update

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Study Group 4:
LVDC
Distribution
Systems

IEC LVDC Workshop

- 29–30 September 2011
- Dresden, Germany
- 67 attendees, 10 countries  Attendee List
- Presentations and conclusions at [VDE site](#)

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LVDC Workshop Goals

- Identify the market drivers for using LVDC (e.g. E², safety, easy to install, reliability, EMC, maintenance, cost, energy availability, size factor)
- Identify challenges and available technology
- The workshop is to report market needs to SG4
- SG4 can use the report to work on its roadmap

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Workshop's Recommendations (1 of 2)

- Agreed Premises
 - Cost is neither an obstacle nor a driver
 - LVDC becomes viable when at least two of these three elements are in the system: DC generator, battery storage, DC loads
 - TCs should analyze what necessary standards exist and what must be developed
- Goals Identified
 - Energy efficiency
 - Support public policy

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Workshop's Recommendations (2 of 2)

- Scope of Standardization
 - Common voltage level(s) in the 260–400VDC range
 - Basic installation rules in the 260–400VDC range
- Target Applications
 - Highest priority
Data center & telecom central office standards
 - High priority
DC infrastructure for EV fast charging
 - Lower priority
Commercial & residential applications

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Relevant IEC Committees

- technical bodies responsible for products generating, distributing and consuming energy to analyze the impact of dc within their field

TC82	TC13	TC2
TC88	SC17B	TC34
TC105	SC17D	TC59
TC114	TC20	TC61
	TC22	TC62
	TC23	TC69
	SC32B	TC96
	SC37A	TC100
	TC64	TC108
	TC94	
 - technical bodies responsible for horizontal issues, to analyse the impact of dc within their field

SG1
SG3
TC8
TC15
TC64 (IEC61140)
TC73
TC77
TC89
TC106
TC109
TC112
- Technical bodies represented in the SG4
 Technical bodies represented in the SG4 via liaisons

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Next SG4 Meeting

- 29–30 November 2011
- EU location, specifics TBD
- Review workshop conclusions
- Develop recommendations to offer SMB

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More detail information about SG3 & SG4

- Task Group for SG3 & SG4 meeting is scheduled on the morning of Oct. 28th.
- Please attend at MCEC 104 room

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