

## Smart Meter Design Sub Group 1 (SMDSG1) – Meeting Note

Note of discussion and actions from SMDSG1 Meeting No. 6	From	Paul Newman (Technical secretariat)
	Date and time of Meeting	20 October 2010 10:00-16:00
	Location	BIS Conference Centre, London SW1

### 1. Present

1.1. Ofgem – Peter Morgan, David Fletcher, Chandra Taylor, Shaun Scullion.

1.2. SMDSG1 members:

AMO	James Evans
BEAMA	Dave Robinson
British Gas	Gareth Williams
EDF Energy	Bob Gibbs
ENA	Alan Creighton
Engage-consulting (ERA)	Simon Harrison
Eon-UK	Geoff Huckerby
ESTA	David Spalding
ICoSS	Andrew Green
Intellect UK	Chris Shire
RWE Npower	Gary Coverson
SBGI	Jeff Cooper
Scottish Power	Grahame Weir
SSE	Neil Green
Utilita	Phil Ketless

### 2. Apologies

2.1. SMDSG1 members:

Consumer Focus	
First Utility	
Gemserv	
Good Energy	
Ofcom	

### 3. Introductions

3.1. Round table introductions from each member.

### 4. Review of actions

Circulate ERA paper on HAN use cases	Completed.
Find out when consultation response information can be	SMDG will be getting

discussed with SMDG	high-level feedback on responses to SoDR on 21 Oct.
Data storage –SP – coordination and summary Data storage – ENA – data storage size Data storage – BEAMA - Costs Data storage - SBGI – HAN transfer rates Data storage – BG – security Data storage – SBGI – Issues e.g. Gas exceptions	On Meeting 6 agenda.
Clarification of what happens in France around load limiting	On Meeting 6 agenda.
Load limiting - Produce a paper for discussion at SMDG	On Meeting 6 agenda.
Circulate tech spec questionnaires when received	3 received to date. On Meeting 6 agenda. Deadline for receipt is 22 Oct.
Circulate HAN workshop agenda	Not yet done. On Meeting 6 agenda.
Make sure DCG are aware that SMDG would like to attend meetings that will affect SM design.	DCG have been informed.
Get DCG briefing from prepayment workshop at next SMDSG1 meeting	Ofgem (PM) will distribute minutes and key messages.
Load limiting on a key pad meter presentation (possible feed into ERA paper)	On Meeting 6 agenda.
Summary of the functionality spreadsheet	Complete.
SMDG AOB – Can we bring HAN workshop forward	On Meeting 6 agenda.

## 5. Review of previous action items

5.1. **DCG PPM workshop feedback.** Ofgem (PM) will distribute minutes including the (3) key messages from the Workshop.

5.2. **Last gasp update.** BG had submitted a paper to Ofgem that morning and would distribute to the Group. In summary, BGs' opinion is:

- There are alternative solutions to last gasp 'in the meter' with differing levels of effectiveness.
- Last gasp in the meter is an expensive option and the benefits are difficult to quantify, but there is as yet no cost/benefit analysis for alternative solutions.
- SG1's recommendation is that SMDG ask the Consumer side to quantify the consumer benefits of last gasp at the meter and a parallel exercise to perform CBA on alternative solutions be carried out.

5.3. **Data storage update** - SBGI/SP gave a presentation, with contributions from ENA, BEAMA and others on Data Storage Requirements supported by a short paper on HAN Speed Assessment to support location of 12 months data requirement.

- BG confirmed that their current SM offering provides for 4 months worth of data storage.
- BEAMA confirmed their (£43) SM specification, in line with the SoDR, was based on 3 months' worth of data storage (import and export. kWh at half-hourly intervals) and the Group proposed that that the baseline for that (£43) meter is the SRSM spec.
- BG shared the top 4 recommendations of their internal Security Experts (contained in their previous paper).

5.4. **IHD messaging update** - RWE npower presented the "Cost Benefit Analysis of 2-Way Messaging to the In Home Display". The group consensus was that messaging could not be accommodated within the £15 IHD price guideline in the SM Prospectus (which did not include Pre-Pay or messaging functionality anyhow).

5.5. **HAN use cases** - ERA presented a paper on "GB SMART METERING HAN SERVICE REQUIREMENTS". The paper was a 'first pass' and needed more work but the Group acknowledged that more collective work was needed in this area and that there was very little if any outside experience (in the same context) to draw upon. All proposed that convening an early (before the HAN workshop) extraordinary meeting of SG1 (hosted by ERA possibly) to discuss this particular area would be useful.

5.6. **HAN Workshop** - ERA would make the Workshop proposal to SMDG the following day. Early thoughts are:

- Provisional date 19th Nov – aligns with a major HAN technology event in Dublin.
- Attendees: *inter alia*, SMDG and SGs, Rollout Team, DCG, HAN specialists, Security Experts; SAGEM (could demo their Multi-utility Controller (MUC) architecture possibly).
- Adrian Rudd to Chair
- 80-100 attendees
- Breakout sessions incorporated into the day – Examine Requirements, are all issues covered? Strategic - evaluate options and next steps
- Capture knowledge
- Review of HAN requirements from SG1
- Review of ERA exercise of 2 yrs ago
- Review of Technical Issues from SG3
- Technical update from BEAMA on HAN current developments
- Final wrap-up and breakout feedback
- Demonstration stalls if able to accommodate
- Emphasise *not* a sales event

5.7. **Load Limiting** - EDF gave a short presentation on load limiting, describing load limiting arrangements in France where that arrangement is quite common.

## 6. Review of technical assessments submitted to date

- 6.1. Ofgem provided a presentation on the 2 Technical Spec questionnaires received up to 20<sup>th</sup> Oct.
- Echelon
  - SEN
- 6.2. BG also presented their own completed technical specification (questionnaire) to the Group on behalf of their technology partners.
- 6.3. The broad objective for the SM programme is to have a technical specification for UK Smart Meters prepared 6-9 months from starting work on the spec. Ofgem said they expected more technical specifications to arrive, with the 2 already 3 received that should be sufficient to put a paper together and take a view on the feasibility of the 6-9 month timeframe
- 6.4. The group took the view that it was safe to assume that the EU would *not* provide a suitable UK SM specification and it was for the SM programme to take the lead and then present a proposed standard UK specification to the EU for consideration as an EU-wide standard.
- 6.5. The group proposed that an important piece of work for the Technical Specification Group to do would be to evaluate all feasible solutions options for delivering the technical specification.

## 7. Any other business

- 7.1. **Welsh Language Options Update.** The group discussed and reached a proposed position on SMS Welsh language accommodation (see action.)
- 7.2. **HAN modularity CBA.** SBGI / BEAMA proposed to provide a cost analysis for next meeting (see action).
- 7.3. **Pulse output functional requirement / CBA.** The group proposed that this be passed to SG3 (Technical Issues) for consideration.
- 7.4. **Temperature sensing at Meter terminals.** EDF asked if Ofgem could confirm that temperature sensing at meter terminals was not an option being considered. Ofgem confirmed that it wasn't part of the specification and, to date, no evidence had been provided to Ofgem to support its inclusion.

## 8. Actions

<b>To distribute their paper on 'last gasp at the meter' to the SG1.</b>	<b>BG (GW)</b>	<b>22/10/10</b>
<b>Bring prepared comments to next SG1 meeting on 'last gasp at the meter' with a view to that meeting composing and proposing a narrative to support a paper to SMDG.</b>	<b>All SG1</b>	<b>27/10/10</b>

<b>BEAMA to amend the report on Data Storage requirements to add a line or two on mains power.</b>	<b>BEAMA</b>	<b>25/10/10</b>
<b>To consolidate all the SG1 comments on the Data Storage Requirements and HAN Speed papers. All SG1 to send any further comments on these papers to SP. Ofgem to provide a template for the consolidated paper to SMDG.</b>	<b>SP / All / Ofgem</b>	<b>27/10/10</b>
<b>To provide to SG1 approximations of the cost of messaging functionality in the IHD based on:  Minimum option: 160 characters and 2-way messaging and,  Enhanced option: Minimum option plus Pre-pay (i.e. replication of current Pre-pay functions).</b>	<b>BEAMA</b>	<b>27/10/10</b>
<b>BG to provide to SG1 a short paper extolling the benefits of messaging (to include Pre-pay) at the IHD.</b>	<b>BG (GW)</b>	<b>27/10/10</b>
<b>To distribute the SM Specifications received thus far to the SG1</b>	<b>Ofgem</b>	<b>22/10/10</b>
<b>To distribute to the Group their early work on why Zigbee was chosen</b>	<b>BG (GW)</b>	<b>27/10/10</b>
<b>To distribute to SG1 a short positional piece on Welsh Language accommodation. i.e., ‘...all options would add cost and it should be classed as a variant and dealt with as currently...’</b>	<b>BEAMA</b>	<b>27/10/10</b>
<b>To distribute to SG1 a cost analysis of providing incremental HAN modularity.</b>	<b>BEAMA / SBGI</b>	<b>27/10/10</b>
<b>To send a reminder to those organisations yet to submit a SM technical specification for consideration, to do so by 22 Oct.</b>	<b>Ofgem</b>	<b>22/10/10</b>

## 9. Date of next meeting

27<sup>th</sup> October 2010 – 10:00-16:00 – Location Ofgem.