ofgem

Minutes

18th MAMCoP Board Meeting

The MAMCoP Board meets quarterly to discuss issues arising from the MAMCoP and also to discuss industry developments.	From	nunnb	17 June 2009
	Date and time of Meeting	16 June 2009, 10:30	
	Location	Ofgem	

1. Present

Steve Rowe	Ofgem
Ben Nunn	Ofgem
Belinda Littleton	Ofgem
Nicola Wade	HSE
Andy Ritchie	UK Meter Exchange
John Meehan	OnStream
Jim Sibley	GL Industrial Services
Roland Burke	National Grid Metering
Mike Buss	SBGI/Itron
Kelly Sherwood	Siemens
Steve Brand	United Utilities
David Perriam	Wales & West Utilities
Jim Dry	Scotia Gas Networks
Scott Agar	EDF Energy
Steve Hayden	Lloyds Register
Terry Mundy	Lloyds Register
Trevor Smallpeice	Gas Safe Register
Phil Daniels	Gas Safe Register (seconded to EUS)
Peter Hurst	IGEM
Bob Murray	AIGT
Steve Gandy	E.ON
Tom Chevalier	AMO

2. Apologies

Chic Dalrymple, Dave Thorley, Ian Aldridge, Ian Smith, John Heyburn, Steve Hogarth and Russel Gibson.

3. Review of Minutes from 17th MAMCoP Board Meeting

3.1. It was agreed that several amendments needed to be made to the minutes. The appropriate amendments will be made and then published to the website.

4. Review of Action Log

Action	Person- by
Action (1)- Review MAMCoP and CoP 1a/b/c	
SR gave an update on looking for a service provider for OAMI, saying that guidance notes had been updated and are available on Ofgem's website. SR also advised that there are temporary arrangements for OAMI for six months and that procurement for a new service provider would be launched shortly through the government procurement site. There was also some discussion regarding when the new CoPs would be released; SR noted that there was no new obligations and	SR

that the document had been refreshed to make it easier to read and more logical. Document is currently out for comment.	
Action (2)- Appeals Process for MAMCoP/AIGT	
SR- there is confirmation that a standard licence condition would be needed and needs to be directed by the Secretary of State, HSE and Ofgem- SR noted that there are checks and balances within the existing system **but** the mechanism for appeal that is proposed would be the process that happens beyond the attempted reconciliation between the MAM and Lloyds Register.	Ofgem
Action (3)- Commissioning & Auditing	
This action was closed	CLOSED
Action (4)- Moving Domestic Meters and OAMI CoPs	
This item was on the agenda for the meeting.	
Action (5)- I&C Meter Obligation	
SR issued a hand-out to the board listing all the supply companies who are voluntarily compliant with ICoP; he noted that several companies were not compliant. The ICoP is available on the internet to be reviewed. NW raised the issue that clarification is required from those who are not listed as to whether they are following MAMCoP, TC asked whether letters can be obtained from the non-compliants to see if they are using MAM's who are compliant with MAMCoP. SR made it clear that MAMCoP is voluntary for I&C suppliers although the board felt that it required this information. **Action:** SR to ask obtain information from forum on whether the three non-compliant companies use MAMCoP following MAMs.	SR
Action (6)- Update on missing ECVH	
This item was on the agenda for the meeting.	
Action (7)- PEMs Workshop	
This item was on the agenda for the meeting.	
Action (8)- Capita and HSE	
SR noted that all that was outstanding now was OAMI related; the item will remain as an action.	SR
Action (9)- Meter Mimic	
RB gave an update: Barry Cook has informed trading standards Newport, and the devices had been removed. It was agreed that this item could be closed.	CLOSED
Action (10)- CORGI/GSR Numbering	
TS- The technical bulletin will list both the GSR and CORGI numbers, bearing in mind that there is a complete review of the technical bulletins it would take a while for them to appear on the GSR website. PD added that 20 were available on the website, NW added that the focus on these 20 were on unsafe gas situations as these were seen as most important. TC asked whether there was a cross reference table. PD agreed that it would be useful to have. **Action:** PD to enquire about cross-reference table and update board	PD
Action (12)- Two Flexes on Meters	
TS started on this point by highlighting that when a meter is installed/exchanged that it should be brought up to current standards. If the flex connect is within 600mm then it should be compliant with 6400 and installed on a bracket attached to the	

fabric of the building. AR noted that this was raised in relation to commercial installation- flexi pipes on the meter and outlet meant that a considerable amount of time had to be spent bringing the pipework up to standard. He asked whether the consumer should be expected to bring the pipeline up to standard with a warning issued to the installation. TS said that it was not clear whether this could be done. AR noted that if he was sure about the ownership boundaries then it could be OK to issue a not up to standard notice to the relevant pipeline owner, further, he would like confirmation on this. NW added that perhaps this should be raised initially through a GIUSP example, rather than a new technical bulletin. **Action- TS to report back on any Technical Bulletins relating to flexes** **Action- AR to raise at Unsafe 6 if the situation remains unresolved**	
Action (13) – In Service Testing workgroup	
SR- IMAG are developing standards for mid-meters which will be consulted on. NMO (National Measurement Office) is responsible for the consultation document which is reaching completion. David Moorhouse is leading on the consultation and SR has suggested that the consultation is published on a website and sent to MAMs. It was decided to close the action as the responsibility for legal metrology had passed to NMO from Ofgem.	CLOSED
Action (14) Lloyds Register MAMCoP Audit	
This item was on the agenda for the meeting.	

5. Moving Meters - Progress Update

5.1. PH presented a hand-out to the board and said that a report was to be issued on 5th September.

6. Smart Metering Skills/Competence Developments (Phil Daniels)

6.1. PD provided a hand-out and commented that meter removals were occurring where a person is capable but not qualified to do so. PD indicated that it may be worth producing an assessment to voice safety aspects- GDNs and EUS are currently discussing this.

6.2. SR commented on smart metering and whether EUS have been pointed in the direction of MAMCoP- there are six months to develop smart metering standards. PD said that there were a whole spectrum of qualifications and that PD was happy to take names in the development of appropriate assessment(s) for smart meters.

Action: PD to provide update on discussions between GDNs and EUS on safety assessments for meter removals.

7. MAMCoP Audit Summary Findings

7.1. TM gave a presentation to the board on the results from the MAMCoP Audits. It was noted that three MAMs in particular had 55 major faults and 57 minor faults between them. TM said that there was a 'rule of thumb' and it was up to an individual assessor

to assign the severity of the fault. Commonly found faults were being resolved through re-designated MAMCoP-specific standards. The audit found several examples of best practice, for example, producing competency certificates on site.

7.2. TM said that the current audit system was being replaced with a full audit every 3 years and "dip-checks" would occur in between.

7.3. In response to a question from NW, TM made it clear that where deficiencies have been found they have to be closed-out under an action plan, and that one MAM has already completed the process.

7.4. BM discussed the consistency of audits and he felt that MAMs had to accept deficiencies (whether or not they agreed) as there was no appeals process, TM said that any issues can be raised with Ofgem, and SR made clear that there was an existing mechanism in place.

7.5. There was also discussion regarding the clarification of MAMCoP. At present the board was told only the OAMI CoP was being reviewed, but TC said that there is some ambiguity, and added that it is a living document and should be evolved. SR made it clear that if the industry felt that it wanted to comment on MAMCoP there was already a process to do so, and in areas where Lloyds Register felt that there was ambiguity then they were free to feed-back any comments.

Action: Lloyds Register to inform Steve Rowe of any comments regarding ambiguity of MAMCoP.

8. Smart Metering Specification Update (Steve Rowe)

8.1. At 17th meeting, MB gave a presentation on smart meter. SR also issued a hand-out on presentations from the Director General of Enterprise and Trade which indicated main timescales for the development of pan-European smart metering specifications, a chair for the group had been designated. SR/MB/TC are happy to receive comments.

8.2. JS: the European group is made up of European bodies and the UK group can only co-ordinate the UK end. The concerns that have been raised are related software updates, definitions for certain terms and also differences between the gas and electricity sides. A meeting will be held on 15th September for co-ordination of the specifications and on the 30th another meeting will be held to finalise the specifications. Then a mandate will have to be accepted. David Johnson from Centrica is representing EUGas. JS added that the communications set-up so that CENELEC is available at home level and currently looks as if the comms will be set-up at a national level. The timescales appear optimistic but are dependent on whether the European Commission wants a European Standard or a 'should' basis for the specifications- the commission is concerned that each member state will prescribe their own specifications and prevent the free movement of goods.

8.3. BM discussed DECC's smart metering plans and highlighted that DECC is currently consulting on smart meter proposals. DECC have indicated that this would be a retail-driven roll out- there was some concerns between board members over whether MAMCoP standards would be adhered to. This point led to some discussion amongst the board; BM said that he was concerned that DNOs have not been brought into the consultation despite their responsibilities in regard to gas safety. TC said that the Energy Networks Association had been very active in the consultation and the SBGI has said that 25% of meters can be retro-fitted. The group felt that the MAMCoP Board needed to represent itself as part of the DECC-lead smart metering consultation; SR felt that Ofgem and indeed members of the board could have conflicts of interest and also Ofgem was preparing its own response to the consultation. After some discussion

amongst board members it was decided that Ofgem would accept views but would not necessarily include them in its own response.

MAMCoP Board members to respond to the smart metering consultation individually and/or give views to Ofgem for consideration. [Note: the deadline for this has passed; all views received were sent to Ofgem's Smart Metering team for consideration]

9. Reports/Updates

Gas Safe Register

9.1. TS said that nothing has significantly changed and that the number of registrations had increased. TS asked for patience as the division of responsibilities between GSR and CORGI was made clear.

9.2. PD gave a hand-out to the board highlighting an increase in NVQ qualifications but otherwise a mixed bag. MET1 represented the biggest group.

IGEM

9.3. PH gave a handout.

BSI

9.4. MB a sub-group is currently working in standards, particularly specific standards in relation to communications in gas, heat and water meters which is working in parallel with the electricity side. MG sits on the co-ordination group for UK- EGMA.

9.5. JS- BSI has a forthcoming standard for meter boxes- BS8449, which may influence G5E25 and therefore gas smart meter specification.

9.6. MB added that technical report for GSM is in an embryonic stage and he can circulate it if need be.

Action: MB to update board on smart metering progress.

AMO

9.7. TC has updated Board on ECV handles, and on PEMS.

9.8. On MPU agreement there was a desire to revise a standard MPU agreement across the industry- the agreement must be reviewed legally.

10. AOB

10.1. Permali box- the service enters the cavity- which can lead to additional pipework, was there a technical bulletin that specifically dealt with this?

Action: TS to circulate technical bulletin [Note TS has since sent this technical bulletin to the MAMCoP Board].

11. Date of next meeting

11.1. The next meetings are as follows;

- 8th September at IGEM
- 15th December at Ofgem
- Q1 2010 at Ofgem (Dates to follow)
- Q2 2010 at Ofgem (Dates to follow)

ACTION LOG

Action Ref	Issue	Date when originally raised	Action	Owner
1	**Review MAMCoP and CoP 1a/b**	18/10/2006	•	All
2	**Appeals Process for MAMCoP/AIGT**	17/01/2007	• SR to keep everyone posted	All
3	**Moving Domestic Meters and OAMI CoPs**	16/10/2007	• IS/IGEM to keep everyone posted on report/progress.	IGEM
4	**I&C Meter Obligation**	22/01/2008	• SR to check whether the non-compliant I&C MAMs follow MAMCoP	SR
5	**Update on missing ECVH**	16/10/2008	• TC to continue to update board on progress	TC
6	**PEMs workshop**		•	
7	**Capita and HSE**	28/08/2008	• SR to update the board on OAMI progress	SR
8	**CORGI/GSR Numbering**	27/03/2009	• TS to provide update to board on a cross-reference table	TS
9	**Two flexes on meters**	27/03/2009	• TS to check for technical bulletins • AR to report to Gas Safe on issue	TS/AR
10	**Lloyds Register MAMCoP Audit**	27/03/2009	• Lloyds to provide comments to SR on any ambiguities in MAMCoP.	SH
11	**Meter Removals**	16/06/2009	• PD to provide update on discussions on safety assessment regarding meter removal.	PD
12	**Smart Metering Specifications**	16/06/2009	• First priority for MAMs is to respond to smart metering consultation. • Interested parties can provide comments to Ofgem on smart metering consultation, but may not be included in Ofgem response.	All
13	**Smart Metering**	16/06/2009	• MB to provide update at next meeting on smart metering progress.	MB
14	**Permali Meter Boxes**	16/06/2009	• TS to circulate technical bulletin on when service enters through cavity.	TS

Attached: Supporting Materials

SM-CG Update

Daniel Hec has been nominated chair of the SM_CG. DG ENTR gave a presentation (see attached) on progress and the main timescales / points were :-

9 months - Presentation of the European standard for communication
30 Deliverables identified - I'm not clear on the detail at this stage.
11 months - to complete the harmonised solutions for additional functions (European standards)
ESOs shall provide a combined progress report on the mandated work by the end of October 2010

The SM_CG has decided to create two ad-hoc groups on "communication stds" and on "additional functionalities" whose main scopes are below described in order to better prepare the following part of the SM_CG work and meet the first step of the mandate within 3 months after the acceptance of the mandate.

Scope of the ad-hoc group on "communication stds" group (document ready by 15 September; possible dates of the first meeting: 8 or 10 or 22 June at Cenelec - Convenor, ESMIG - R.Hofmann)

- to provide benchmarks/mapping of existing standard and initiatives
- to provide overall architecture of the communication elements
- to prepare a report on the availability on standardized meter protocols in use in Europe and to identify possible gaps
- to identify criteria for communication aspects of smart meters (question of interface)
- to make recommendation for interoperability and openness

Scope of the ad-hoc "additional functionalities" group (document ready by 15 September; proposing dates by David Johnson, convenor of the group, asap.; the idea is to have the same dates for the two groups, at Cenelec)

- definition of functionality
- to define list of additional functionalities
- data/definition/quantity/format/frequency
- mapping with existing standards, identify the gaps
- define work programme
- defining minimum list
- metrological function or not?

SMART METERS

Standardisation mandate M/441

Lucia Palmegiani
Policy Officer, DG ENTR I.5

CENELEC, Brussels, 25 May 2009

European Commission
Enterprise and Industry

Points to cover

- The Issue
- The Objective
- The Background
- The Description of the standardisation mandate
- What´s next
- The Deliverables

The issue

Mandate for standardisation to ESOs in the field of measuring instruments for the development of an open architecture for utility meters involving communication protocols enabling interoperability

The Objective

The general objective of this mandate is to create European standards that will enable interoperability of utility meters (water, gas, electricity, heat), which can then improve the means by which customers' awareness of actual consumption can be raised in order to allow timely adaptation to their demands ('SMART METERING')

The Background

- Competitiveness Council Conclusions on standardisation and innovation (Council on 25 September 2008)

- Directive 2006/32/EC on energy end-use efficiency and energy services (art.13)

- Directive 2004/22/EC on measuring instruments (MID) concerns full harmonisation of utility meters

- Mandate M/374 of 20 October 2005 as base for to developing standards for utility meters

Description of the mandated work (I)

ESOs are requested to develop a European standard comprising:

- a software and hardware open architecture for utility meters

that

- supports secure bidirectional communication

and

- allows advanced information and management and control systems for consumers and service suppliers.

Description of the mandated work (II)

The architecture must:

- be scalable
- Take into account the state of the art be adaptable for future communication media.

The communication standard of the open architecture must allow the secure interfacing for data exchanges with the protected metrological block.

Description of the mandated work (III)

European standards should:

- contain harmonised solutions for additional functionalities within an interoperable framework
- foreseen standardised solutions to achieve full interoperability
- be performance-based and permit innovation in the protocols that enable remote reading of utility meters and advanced information and management services for consumers and suppliers
- permit fully integrated instruments, modular and multi-part solutions.

Description of the mandated work (IV)

ESOs should take into account: international, European and national standards.

International standards would be the preferable reference point for the European standards because they would allow a world-wide level playing field

What's next?

- Mandate: issued on 12/03/2009
- Acceptance by the relevant Boards (6-8 weeks)
- +3 months for the working programme

Deliverables

- **+ 9 months**

Presentation of the European standard for communication

- **+ 30 months**

The harmonised solutions for additional functions (European standards) shall be completed

ESOs shall provide a combined progress report on the mandated work by the end of October 2010

European Commission
Enterprise and Industry

Thank you!

For additional information
European Commission:

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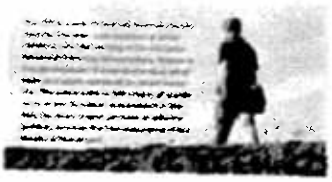
- Daniel.Hanekuyk@ec.europa.eu

European Commission
Enterprise and Industry

OPEN meter
Open Public Extended Network metering



OPEN meter

Open Public Extended Network metering

7TH FRAMEWORK PROGRAMME

Project overview

Brussels, Smart Meter Co-ordination Group
CEN/CENELEC meeting centre

Author: Nicolas Arcauz nico.arcauz@iberdrola.es
Date: 25th May 2009

OPEN meter
Open Public Extended Network metering

Official Journal
of the European Union

The OPEN meter project is an official initiative by the European Commission

OJ Reference: OJ C288 of 30 November 2007

Identifier: FP7-ENERGY-2008-1

Topic called: Open Access Standard for Smart Multi-Metering Services

OPEN meter
Open Public Extended Network metering

ENERGY 2008.7.1.1

The problem (as defined by the Commmission)

the large scale adoption of smart metering is today **hampered by the lack of widely accepted open standards** capable of **guaranteeing the interoperability** of systems and devices produced by different manufacturers

Expected impact by the Commmission

after pre-normative research, adoption of these standards will **open up the metering market, enabling active customer participation** to energy markets, and at the same time **allowing EU-industry to take world leadership**

OPEN meter
Open Public Extended Network metering

ENERGY 2008.7.1.1

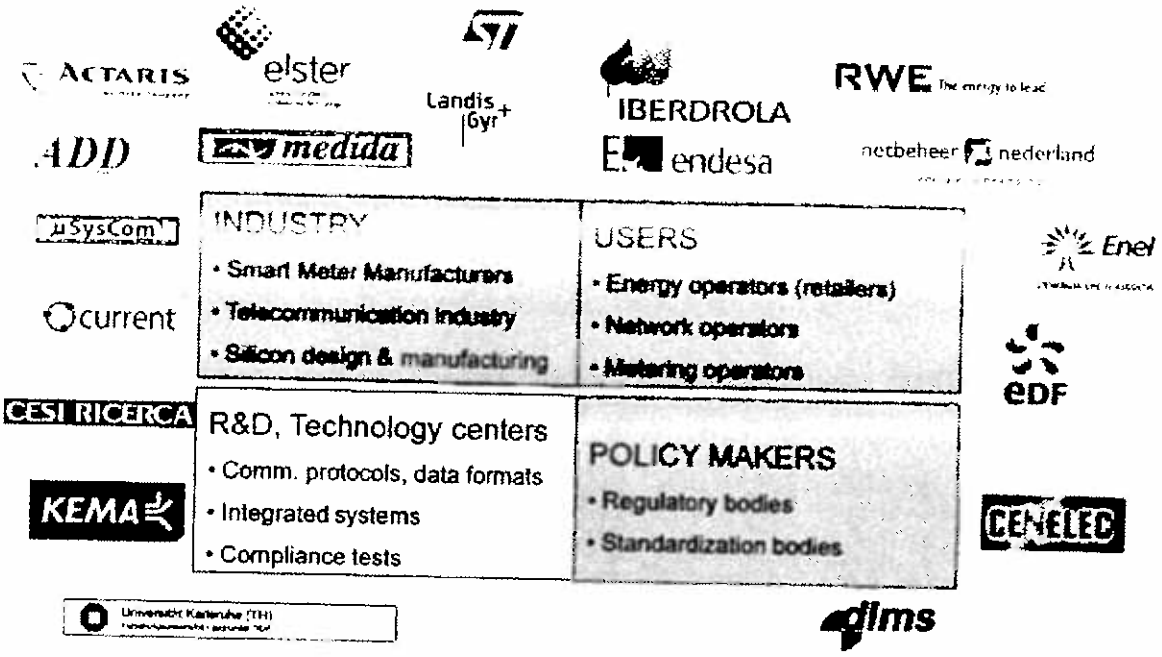
Other information facilitated by the Commmission

the typical consortium should be **a well balanced partnership** between network industries, equipment suppliers, research centres and regulatory and standardisation bodies. **A maximum of one project will be funded under this topic**

The OPEN meter project proposal was defined and selected by the Commission, among all other applicants, to meet these ambitious objectives

OPEN meter
Open Public Extended Network metering

OPEN meter consortium



OPEN meter
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OPEN meter panel of users and stakeholders

- CEN European Committee for Standardization
- ERA Energy Retail Association (UK)
- ESMIG European Smart Metering Industry Group
- EUROGAS European Union of the Natural Gas Industry
- EUTC European Utilities Telecom Council
- other interested stakeholders are in the process of joining the Panel (e.g. organisations of energy end-users)

The Panel will serve as a consultancy body to the OPEN meter project

OPEN meter
Open Public Extended Network metering

Why OPEN meter?

- Open
  - based on open standards and non-proprietary solutions, result is a set of open standards
- Public
  - results will be made freely available to all stakeholders
- Extended
  - goes beyond utility metering and allows for providing new energy services
- Network
  - metering devices become nodes of telecom networks

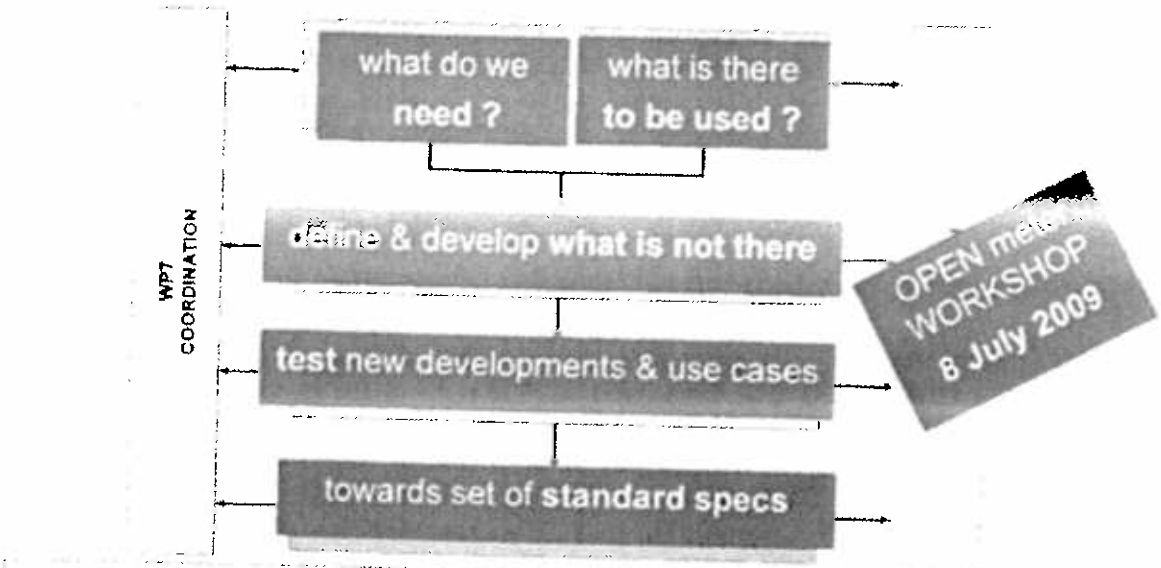
OPEN meter
Open Public Extended Network metering

OPEN meter factsheet

- European collaborative project
- 7th Framework Programme
  - Topic Energy.2008.7.1.1
  - Project Number 226369
- Estimated project duration 30 months: Jan 2009 - June 2011
- Project cost: € 4,2 MM, EC funding: € 2,4 MM
- Consortium with 19 participants
- Total effort committed: 339 person-months
- Project co-ordinator: IBERDROLA
- Project Technical co-ordinator: KEMA
- Official website is http://www.openmeter.com

OPEN meter
Open Public Extended Network metering

OPEN meter working packages



A holistic approach from requirements to standardisation

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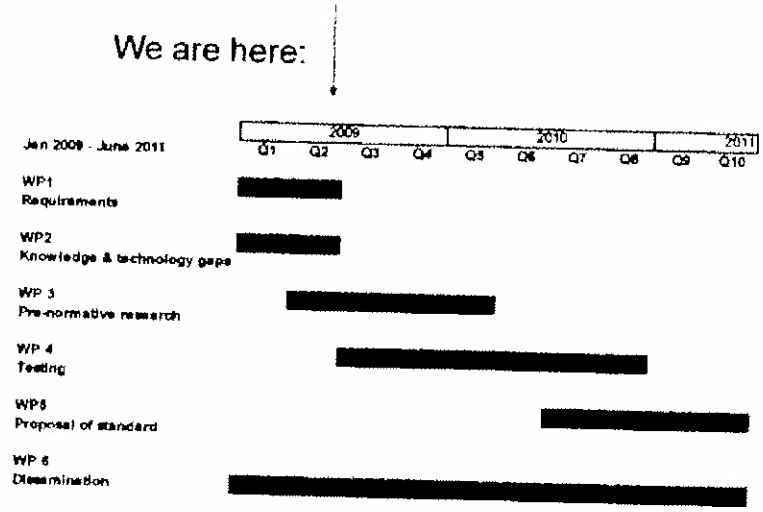
Project timeline



First deliverables (WP1 on market requeriments and WP2 on technology gaps) are currently being reviewed for publication

OPEN meter
Open Public Extended Network metering

Summary

- The OPEN meter project is an **official initiative** by the European Commission
- **Objectives and timelines** are very much aligned with those established in M/441
- Partners have the technical expertise needed for success

- The Panel of Users & Stakeholders will provide the project with **valuable input and feedback**
- The OPEN meter project is delighted to offer an **active participation** in the M/441 coordination group and in the technical advisory groups that will be established

ACS METERING ASSESSMENTS MAY 2009
GAS SAFE REGISTER

Assessment Code		Holding Valid Certificate	ACS from NVQ	Certificates Held ACS & NVQ	Assessment Title (Abbreviated)
CMA1	*1	331	54	385	Meter Installer Full Core (Emergency Service Provider (ESP) can be used [illegible] [illegible]tive)
CMA2LS		447		447	Meter Installer Limited Scope Core
CMET1		930		930	Install Exchange Remove & Commission Low Pressure Diaphragm and RPD [illegible]ers
CMET2		782		768	Install Exchange Remove & Commission Diaphragm, RPD and Turbine Mete[illegible] [illegible]p to 16 mbar.
CMIT1		136		108	Limited Scope Safety Assessment for Gas Meter Instrumentation Operative.
MET1	*2	15565	2884	18449	Install Exchange Remove and Commission Domestic Gas Meters (up to 6 m[illegible] [illegible]) (Primary & Secondary)
MET2		198		198	Install Exchange Remove and Commission Domestic Gas Meters (up to 6 m[illegible] [illegible]) (Secondary only)
MET3LS		450		450	Limited Scope Primary Meters up to U6 (6m³) (Requires pre requisite Core CMA[illegible] [illegible]S)
MET4	*3	1462	3658	5120	Install Exchange Remove & Commision Diaphragm Gas Meters up to 1[illegible] m³) (NB Holders do not need to hold Met1 or Met 2)
REGT1		1231		1231	Installation, Testing & Commissioning Domestic Medium Pressure Regulator[illegible] [illegible] Controls.
REGT2		15	-	15	Installation, Testing & Commissioning Commercial Medium Pressure (Single [illegible] Twin Stream) Medium Pressure Regulators and Controls.
TOTAL		21547	6596	28101	

*1. Includes NVQ 6012 - 12

*2. Includes NVQ 6012 - 02 & 6012 - 22

*3. Includes NVQ 6012 - 32, 6012 - 04 & 6012 - 44

Technical Bulletin 084

Title: The prohibition of two pliable connectors on a domestic gas meter installation

Date issued: 1 April 2009 Formerly TB 175

This Technical Bulletin provides guidance to Gas Safe registered business/engineers on why it is not acceptable to install two pliable connectors on a single domestic gas meter installation

Introduction

The BS 6400 suite of Standards (BS 6400-1[1], BS 6400-2[2] and BS 6400-3[3]) specify the requirements for the installation, exchange, relocation and removal of credit or prepayment diaphragm and ultrasonic gas meters with a maximum capacity not exceeding 6m³/h.

The use of pliable connectors

Pliable connectors (sometimes referred to as semi-rigid connectors) are manufactured to the PRS 6/E[4] Standard from stainless steel tube formed with annular corrugations and having factory fitted end connections.

Only **one** pliable connection can be used within the meter installation. This is to restrict movement and reduce the likelihood of tampering. The reasoning behind the decision to allow the fitting of only one pliable connector per meter installation is as follows.

If two pliable connectors are used:

- there is an unacceptable risk of theft of gas;
- the gas meter can be reversed particularly where there is no means of restraining the meter or it could be bridged out;
- the gas meter can easily be tilted, which can affect the accuracy of the gas meter.

The requirements of Gas Industry Unsafe Situations Procedure (GIUSP)

Where an existing meter installation is encountered with two pliable connections fitted, the installation should be classified as "Not to Current Standards" (NCS) in accordance with the procedure detailed in the current GIUSP (TB 001). The gas user/responsible person should be advised to contact their gas supplier in order to rectify the matter.

Note 1: *The GIUSP (TB 001) can be viewed at: https://engineers.gassaferegister.co.uk - login and visit the Technical Information area.*

Note 2: *Also see TB 059 - Potential gas escapes on the stainless steel pliable or semi rigid gas meter connections. TB 059 can be viewed at: https://engineers.gassaferegister.co.uk - login and visit the Technical Information area.*

Bibliography

(1) BS 6400 - 1 - Specification for the installation of domestic-sized gas meters maximum rated capacity not exceeding 6m³/h (2nd and 3rd family gases) - Part 1 Low pressure (2nd family gases)

(2) BS 6400 - 2 - Specification for the installation of domestic-sized gas meters maximum rated capacity not exceeding 6m³/h (2nd and 3rd family gases) - Part 2 Medium pressure (2nd family gases)

(3) BS 6400 - 3 - Specification for the installation of domestic-sized gas meters maximum rated capacity not exceeding 6m³/h (2nd and 3rd family gases) - Part 3 Low and medium pressure (3rd family gases)

(4) Institution of Gas Engineers and Managers PRS 6/E - Semi-rigid and flexible meter connectors

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Gas Safe Register Technical Bulletin Index

Issue number 001 **1 April** 2009

TB No.	Formerly	Subject	Publication Date	Status
TB 001*	-	The Gas Industry Unsafe Situations Procedure 6th edition	01.04.09	Current
TB 002	TB 204	Reporting of dangerous gas fittings – Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) – Regulation 6(2)	01.04.09	Current
TB 003	-	Built-over existing polyethylene (PE) gas services/service pipework – Safety concern	01.04.09	Current (Under review)
TB 004	-	Managing risks from inappropriately installed medium pressure-fed domestic sized meter installations located in built-in or surface-mounted boxes	01.04.09	Current
TB 005*	TB 184	Gas cookers in internal kitchens – Ventilation requirements	01.04.09	Current
TB 006	TB 127	Industry guidance for the checking of case seals and general integrity of room-sealed fan assisted positive pressure gas appliances	01.04.09	Current
TB 007*	TB 150	Room-sealed (natural/fanned draught) and open-flued (fanned draught) appliance flues terminating within covered passageways (ginnells)	01.04.09	Current
TB 008*	TB 200	Room-sealed fanned draught flue systems concealed within voids	01.04.09	Current
TB 009	TB 224	Sealing of extraneous pipe/cable entries to back boiler/circulator enclosures	01.04.09	Current
TB 010	TB 210	LPG regulator blockages	01.04.09	Current
TB 011	TB 233	The use of clips to secure vapour phase LPG hose and tubing to end fittings (UKLPG UIS 017)	01.04.09	Current
TB 012*	TB 168	Visual risk assessment of gas appliances	01.04.09	Current
TB 013*	TB 189	Air/Gas ratio valves	01.04.09	Current
TB 014*	TB 214	Gas Work	01.04.09	Current
TB 015*	TB 218	The requirement to install gas appliances (including cooking appliances) with flame supervision on all burners in flats and other multi-dwelling buildings	01.04.09	Current

* Included in Gas Safe Register's top ten Technical Bulletins on website.

TB No.	Formerly	Gas Safe Register Technical Bulletin Index Subject	Publication Date	Status
TB 016*	TB 231	Room-sealed flue/chimney terminations – Possible nuisance from fumes and the use of plume management kits	01.04.09	Current
TB 017*	TB 235	HSE issues safety alert on gas appliance flues in ceiling voids	01.04.09	Current
TB 018	-	Glow-worm 'xi' range of boilers – Product modification and servicing reminder	27.04.09	Current
TB 019	TB 170	British Standard 7967 Carbon monoxide in dwellings and the combustion performance of gas-fired appliances	01.04.09	Current
TB 020	TB 211	ACS combustion performance assessment (CPA1)	01.04.09	Current
TB 021	TB 228	The Gas Safety (Installation and Use) Regulations 1998 - Certificate of Exemption No. 1 of 2008	01.04.09	Current
TB 022	TB 185	Installation of previously used domestic gas cooking appliances	01.04.09	Current
TB 023	TB 154	Condensing boiler installation assessment procedure – England and Wales	01.04.09	Current
TB 024	TB 199	Condensing Boiler Installation Assessment Procedure – Scotland	01.04.09	Current
TB 025	TB 229	Contractor responsibilities when disconnecting and reconnecting gas cooking appliances fitted with a bayonet fitting, or other self-sealing connectors	01.04.09	Current
TB 026	TB 220	Effect of fans on open-flued gas appliances – Advice for non-gas operatives	01.04.09	Current
TB 027	TB 173	Domestic heating compliance guide & non-domestic heating, cooling and ventilation compliance guides	01.04.09	Current
TB 028	TB 007	Electro-osmotic damp-proofing systems	01.04.09	Current
TB 029	TB 011	Air supply from roof spaces	01.04.09	Current
TB 030	TB 022	Chimney terminations for decorative fuel effect (DFE) gas appliances	01.04.09	Current
TB 031	TB 024	Gas pipework identification – colour coding	01.04.09	Current
TB 032	TB 028	Potterton Prima 'C' compartment installation	01.04.09	Current
TB 033	TB 030	Valliant - Pressure loss through appliance gas valves	01.04.09	Current
TB 034	TB 040	Open-flued appliances in bathrooms - a "potted history"	01.04.09	Current
TB 035	-	Carrying out gas work on an waterway craft	01.04.09	Current
TB 036	TB 041	Fixed hobs and ovens – Flexible gas supplies	01.04.09	Current
TB 037	TB 042	Cannon Coleridge balanced-flue gas fire	01.04.09	Current
TB 038	TB 044	Gas fires and precast flue systems	01.04.09	Current
TB 039	TB 051	Warm Air Heaters - The history of return air arrangements for open-flued appliances	01.04.09	Current
TB 040	TB 053	Meter Box - Installation pipe sleeving	01.04.09	Current
TB 041	TB 058	Multi-appliance ventilation	01.04.09	Current
TB 042	TB 060	Repairs following reported gas escapes	01.04.09	Current
TB 043	TB 064	Electrical work on gas appliances	01.04.09	Current (Under review)
TB 044	TB 065	Retro fitting of FFDs on catering equipment	01.04.09	Current
TB 045	TB 066	Re-lighting existing gas appliances after carrying out a tightness test	01.04.09	Current
TB 046	TB 067	Gas tightness testing requirements	01.04.09	Current
TB 047	TB 068	Pre-cast chimney/flue cooler plates	01.04.09	Current

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TB No.	Formerly	Gas Safe Register Technical Bulletin Index Subject	Publication Date	Status
TB 048	TB 075	Gas Supply Rights of Entry Regulations 1996	01.04.09	Current
TB 049	TB 079	Spillage testing with decorative re-circulatory ceiling fans present	01.04.09	Current
TB 050	TB 080	Suitability of plasterboard within the builder's opening	01.04.09	Current
TB 051	TB 081	Ventilation of kitchens in catering establishments	01.04.09	Current
TB 052	TB 088	Cleaning high efficiency heat exchangers	01.04.09	Current
TB 053	TB 091	Modular boiler installations	01.04.09	Current
TB 054	TB 096	Leakage of combustion products from positive pressure fan-assisted boilers	01.04.09	Current
TB 055	TB 099	Duties of Landlords	01.04.09	Current
TB 056	TB 100	Installation of open-flued appliances in domestic garages	01.04.09	Current
TB 057	TB 101	Passive stack ventilation	01.04.09	Current
TB 058	TB 102	Painted appliance cases	01.04.09	Current
TB 059	TB 201	Potential gas escapes on the stainless steel pliable or semi rigid gas meter connections	01.04.09	Current
TB 060	TB 104	Purpose provided ventilation (Domestic)	01.04.09	Current
TB 061	TB 105	Reducing the size of builder's openings and fireplace recesses	01.04.09	Current
TB 062	TB 109	The 'Benchmark' Scheme	01.04.09	Current
TB 063	TB 110	Carrying out gas work on leisure accommodation vehicles, residential park homes and holiday accommodation	01.04.09	Current
TB 064	TB 120	Gas safety concern - Widney, Nevada and Regency gas fires	01.04.09	Current
TB 065	TB 122	LPG Cabinet space heaters and the requirements of legislation	01.04.09	Current
TB 066	TB 129	Morco Model D-61B, 61E and G111E water heaters	01.04.09	Current
TB 067	TB 131	Carfield-Geminox Boilers – Inappropriate flue materials	01.04.09	Current
TB 068	TB 134	Open-flue chimney terminations in proximity to structures	01.04.09	Current
TB 069	TB 135	HSE Press release regarding replacing ductile iron gas mains	01.04.09	Current
TB 070	TB 140	Gas and electric appliances known to contain asbestos containing materials	01.04.09	Current
TB 071	TB 143	Checking the operating pressure of the meter regulator - Natural gas	01.04.09	Current
TB 072	TB 144	Separation distances between LPG cylinders and tanks and domestic oil tanks	01.04.09	Current
TB 073	TB 151	Glow worm Micron case seal modification	01.04.09	Current
TB 074	TB 152	Use of preformed pipe insulation for protection of gas pipework in concrete floors	01.04.09	Current
TB 075	TB 153	Glow-worm Micron boiler range – Product recall	01.04.09	Current
TB 076	TB 156	Electronic records and signatures	01.04.09	Current
TB 077	TB 237	Buderus 500 series and 600 series 28kW combination boiler	01.04.09	Current (Under review)
TB 078	TB 242	Vaillant ecoMAX and ecoTEC ranges of boilers – product modification and servicing reminder	01.04.09	Current (Under review)
TB 079	TB 162	BS 5482-1:2005 LPG Installations – Additional Guidance	01.04.09	Current
TB 080	TB 163	Changes to LPG regulator Standards	01.04.09	Current

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TB 081	TB 167	Electricity at Work Regulations 1989 (Statutory Instrument No 1988/635)	01.04.09	Current
TB 082	TB 171	Discharging condensate into cast-iron waste systems	01.04.09	Current
TB 083	TB 239	Domestic Bulk Liquefied Petroleum Gas Market Investigation Order - 2008	01.04.09	Current
TB 084	TB 175	The prohibition of two pliable connectors on a domestic gas meter installation	01.04.09	Current
TB 085	TB 240	BEKO gas cooker product range modification	01.04.09	Current
TB 086	TB 241	GDHA gas cooker product range modification	01.04.09	Current
TB 087	TB 178	Warm air heaters - change to spillage testing requirements	01.04.09	Current
TB 088	TB 183	Flueless Gas Fires – the importance of correct installation and commissioning	01.04.09	Current
TB 089	TB 186	Requesting a natural gas supply to a domestic property	01.04.09	Current
TB 090	TB 187	Loctite 55 pipe sealing cord – suitability for use on gas work	01.04.09	Current
TB 091	TB 188	Decommissioning part of a combined appliance	01.04.09	Current
TB 092	TB 190	Domestic ducted warm air heaters and systems – gas safety checks	01.04.09	Current
TB 093	TB 191	An overview of the revised Catering Information Sheet 23 *Gas safety in catering and hospitality*	01.04.09	Current
TB 094	TB 192	Tightness testing of an existing domestic natural gas MP-fed installation without an MIV	01.04.09	Current
TB 095	TB 193	Effect of extract fans on open-flued appliances	01.04.09	Current
TB 096	TB 194	Confirmation of FSD functionality for central heating boilers, water heaters and ducted warm air heaters	01.04.09	Current
TB 097	TB 195	Possible damage to backplate strapped fittings and gas escapes from self-sealing connectors (cooker bayonets)	01.04.09	Current
TB 098	TB 196	Vaillant ecoTEC range of boilers – product modification	01.04.09	Current (Under review)
TB 099	TB 197	Glow-worm Micron range of boilers – Important safety notice	01.04.09	Current
TB 100	TB 198	Dealing with damaged pre-fabricated built-in domestic gas meter boxes	01.04.09	Current
TB 101	TB 230	HSE Safety Alert – Risks from redundant solid fuel back boilers	01.04.09	Current
TB 102	TB 202	Location of Protective Equipotential Bonding on Gas Installation Pipework	01.04.09	Current
TB 103	TB 203	The application of the BS 7967 suite of Standards – The investigation of a report of fumes, smells, spillage/leakage of combustion products, or CO detector activation	01.04.09	Current
TB 104	TB 205	The installation of thermoplastic CWSC and the safety of immersion heaters	01.04.09	Current
TB 105	TB 206	Non room-sealed appliances located in sleeping accommodation	01.04.09	Current
TB 106	TB 207	Corrosion protection of gas installation pipework using grease impregnated tape	01.04.09	Current
TB 107	TB 208	Glow-worm updated combustion tolerances	01.04.09	Current
TB 108	TB 209	Ideal Boilers – Information Bulletin	01.04.09	Current
TB 109	TB 212	European Directive for the Energy Performance of Buildings – Article 8 – providing energy efficiency advice on heating and hot water systems	01.04.09	Current
TB 110	TB 213	Tightness testing domestic sized gas installations with G10/U16, G4/U6 and E6 gas meters	01.04.09	Current
TB 111	TB 215	The use of anaerobic compound as a bonding agent to join copper pipework to copper capillary fittings conveying gas	01.04.09	Current

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TB 112	TB 216	Obtaining a meter index reading on a Landis + Gyr Libra 210 meter	01.04.09	Current
TB 113	TB 217	Research into available ventilation in modern floor voids	01.04.09	Current
TB 114	TB 219	Responding to a request to attend to flood damaged gas appliances and pipework	01.04.09	Current
TB 115	TB 238	Worcester condensing boilers – Inlet gas pressures – Amendment to installation instructions	01.04.09	Current
TB 116	TB 222	Always use the appliance manufacturer's specified spare parts when replacing gas controls	01.04.09	Current
TB 117	TB 223	The dangers of cables buried in walls and partitions	01.04.09	Current
TB 118	TB 225	Safe electrical isolation of gas appliances	01.04.09	Current
TB 119	TB 226	Electrical safety requirements for gas appliances installed in rooms or spaces containing baths or showers	01.04.09	Current
TB 120	TB 227	The use of corrugated stainless steel semi-rigid gas piping in domestic and non-domestic installations	01.04.09	Current
TB 121	TB 229	Contractor responsibilities when disconnecting and reconnecting gas cooking appliances fitted with a bayonet fitting, or other self-sealing connectors	01.04.09	Current
TB 122	TB 176	Approved Document P – Electrical Safety – Dwellings	01.04.09	Current
TB 123	TB 234	Replacement room-sealed appliances for SE Duct and U Duct chimney systems	01.04.09	Current
TB 124	TB 236	LPG on boats, yachts & other vessels - Update on gas tightness testing, system pressure gauges and regulators	01.04.09	Current

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