
Creation of Work Groups

The MAMCoP subgroup and the MOCOPA[®] subgroup have been working on a number of operation and safety related issues which affect today's metering activity. These issues are generally unclear and require debate and resolution otherwise the threefold increase in metering activity associated with smart metering they will cause considerable extra cost and disruption to customers and industry stakeholders.

These groups have each given an initial view of many issues. Some can be taken forward independently, but others require further consideration in a smaller more focused debate. For the next phase of work it is proposed to create working groups to focus on these related issues. Tom Chevalier (AMO) and Paul Smith (ENA) in discussion with Ofgem representatives have considered the breadth and priority of issues leading to the proposal to create the following working groups.

The working groups are expected to use any material already in existence, including existing company specific guidance as well as drawing on expertise outside the group as appropriate. The groups should be focused on **delivering solutions**, whether they be proposals to publish 'best practice guidance' or changes to formal governance or regulation.

It is anticipated that each group will meet at least four times over a four month period (Mar-Jun 2011) with email exchanges in between. The first meeting for the two gas groups is proposed for **28th March**, at SBG's offices at Kenilworth and for the two electricity groups on the **17th March**, at Gemserv's offices. It is intended that the groups will meet separately but in parallel.

1.1. Gas metering electrical issues

At the Dec 2010 MAMCoP sub-group meeting a number of issues were discussed associated with electrical aspects of gas meter installation. The discussion demonstrated a lack of understanding of some issues and a significant variance in practice across participants.

The aspects considered to be included in this group are:

- Gas/electricity pipe/cable proximity
- Insulated inserts in gas services
- Temporary earth strapping (when changing meters)
- Use of 'volt sticks'
- Disconnection/re-connection of customer bonds
- Extension (or not) of electrical bonding cables as result of gas meter moves
- Bonding arrangements in multi-occupier premises (IGEM G/5 working group)

It is proposed that the group should be no more than 6-8 members, including representatives from:

- Meter Asset Managers
- Gas Transporters
- IGEM and/or G/5 working group
- The IET (wiring regulations) and/or Electrical Safety Council
- HSE

1.2. Gas meter accessibility

A number of the issues are related to access to the meter:

- Meter heights
- Meter inaccessible, e.g. back of kitchen cupboard
- Flat meter in shop below
- Access to communal meter cupboards
- Permal meter boxes (although being resolved through unsafe sits panel)

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- Other meter installation issues, e.g. outlet flexes

It is proposed that the group should be no more than 6-8 members, including representatives from:

- Meter Asset Managers
- Gas Transporters
- Gas suppliers
- IGEM and/or G/5 working group
- Ofgem

Although this group is designed to be focused on gas, the solutions can be expected have a 'cross over' into electricity.

1.3. Meter Operator to electricity distributor fault reporting

To move forward the proposals to:

- Define a replacement (or enhancement) to the existing DTC dataflow D0135 with a flow which would actually meet the business needs
- Define a new response/update flow from Distributor to reporting party (meter operator/supplier/DC) to confirm existing report when reported by phone, and provide information of completion of the rectification
- Work in conjunction with DCUSA, obtaining feedback from their information request
- Raise appropriate change within the MRA through IREG to refine the proposed flow
- Subsequent work to document examples of problems which need reporting under each group, expect this to be a guidance document under MOCOPA[®] governance

It is proposed that the group should be no more than 6-8 members, including representatives from:

- Meter Operators
- Distribution Businesses
- ERA supplier
- MRA IREG
- DCUSA

1.4. Meter Tails

To move forward the proposals to develop national guidance for the:

- sizing of meter tails
- cut-out fuse sizing

It is proposed that the group should be no more than 6-8 members, including representatives from:

- Meter Operators
- Distribution Businesses
- Electrical Safety Council or IET

1.5. Existing working groups

MOCOPA[®] has already established two working groups:

- Outcomes from the ESFRS report, such as the proposal for a label located near the electrical intake position. Consideration of a meter positions in the communal areas of buildings in multiple occupancy.
- Issues surrounding the inspections of customers intake equipment.

These issues were discussed at the stakeholder workshop on the 8th Feb which has informed the groups on how to take the issues forward.

As result of the stakeholder workshop the damaged meter box consideration will be next progressed with suppliers.

1.6. Further groups

Other groups may include gas structured non-urgent communication, need to de-energise multiple customers to work safely. Without more resource coming forward, then realistically these aspects may follow on when the above work completes.

Attached is a spreadsheet which lists all the issues which are under consideration. Some are being more actively considered than others. If there any further items or you feel the priorities are incorrect, then please contact us.

1.7. What next?

We already have some volunteers for these groups (see spreadsheet). If you would like to participate in any of these working groups or discuss this work, please contact Tom Chevalier (01525 862870) Tom.Chevalier@PowerDataAssociates.com or Paul Smith (07717 433472) paul.smith@energynetworks.org.

Issues under consideration by MAMCoP MOCOPA

Issue	Title	Brief description	Source	Forum for debate	current status	state	Priority	Timescale	Grouping
Gas1	Flat meter in shop below	Access to meters inaccessible to customer	Gas Old Chestnut 2.2	MAMCoP sub-group	debated	develop through working group	M	2	meter accessibility
Gas2	Communal Cupboards	Access to communal metering cupboards	Gas Old Chestnut 2.3	MAMCoP sub-group	debated	develop through working group	L	3	meter accessibility
Gas3	Meter Height	Location of new meter installations	Gas Old Chestnut 2.3	MAMCoP sub-group	Debated - consider proposal to introduce change into MAMCoP - but how to capture GT?	develop through working group	M	1	meter accessibility
Gas4	Meter inaccessible	Meter fitted in premises, but in an inaccessible location	Gas Old Chestnut 2.4	MAMCoP sub-group	under consideration - hard	develop through working group	M	2	meter accessibility
Gas5	Damaged meter boxes	MAM or GT find damaged customers' meter box	Gas Old Chestnut 2.5	MAMCoP sub-group	Discussion paper prepared - workshop scheduled in Feb 11	Action AMO	M	2	x
Gas6	Suitability of semi-concealed meter	Are semi-concealed meter boxes appropriate for use? Consider water ingress, electronics, radio reception	Gas Old Chestnut 2.6	MAMCoP sub-group	MAMCoP sub-group not keen on them, but smart meters are being fitted in them. Could the industry stop new ones?		L	3	
Gas7	Meter box size	Meter box not of appropriate size for meter	Gas Old Chestnut 2.7	MAMCoP sub-group	BS determines size for new boxes. Existing boxes either OK or may need changing		L	3	
Gas8	Meter in asbestos box	Meter box of asbestos construction	Gas Old Chestnut 2.8	MAMCoP sub-group	under consideration		L	3	
Gas9	Other meter installation concerns	Other issues, incl meter in concrete floor, outlet flexes	Gas Old Chestnut 2.9	MAMCoP sub-group	under consideration	develop through working group	L	3	meter accessibility
Gas10	Two yearly inspections	Issues associated with desire to remove global requirement for two year safety checks	Gas Old Chestnut 2.10	MAMCoP sub-group	See Ofgem consultation as result of BG request	pending Ofgem consult	M	3	
Gas11	Legacy Metering Arrangements	Review of G-1 to define the 'end of the network'	Gas Old Chestnut 2.11	MAMCoP sub-group	under consideration through IGEM - but need to consider MAM impact not just 'technical'		L	3	
Gas12	Identify new connections with MPRN	Use of label on all new connections	Gas Old Chestnut 2.12	MAMCoP sub-group	Occurring, remind MAMs not to remove label when changing meters	Action AMO	L	3	
Gas13	Permail meter boxes	Concern about suitability of Permail meter boxes	Gas Old Chestnut 2.13	MAMCoP sub-group	NGG developing approach with gas un-safe silt panel	Action NGG	H	1	meter accessibility
Gas14	Insulation joints	Clarity on the provision of insulation joints and metal service pipes in advance of ECV	Gas Old Chestnut 2.14	MAMCoP sub-group	ENA SMOG reviewing requirements	Action NGG Develop through working group	M	2	gas/electrical issue

Issues under consideration by MAMCoP MOCOPA

Issue	Title	Brief description	Source	Forum for debate	current status	state	Priority	Timescale	Grouping
Gas15	Electricity/gas proximity	Gas requirements are to keep a distance from electric equipment. The requirements are not reflect in electricity documents. Need to clarify the actual requirement	Gas Old Chestnut 2.15	MAMCoP sub-group	Jim Sibley to write - which can be reviewed by MOCOPA	Action NCG Develop through working group	L	3	gas/electrical issue
Gas16	Prime & sub-deduct metering	These are not currently allowed for new installations, the responsibilities need review as part of Ofgem consultation	Gas Old Chestnut 2.16	MAMCoP sub-group	await Ofgem consultation	pending Ofgem consult	L	3	
Gas17	Water Ingress incidents	Concern that the current competitive market does not support the rapid restoration of metering equipment following a major incident	Gas Old Chestnut 2.17	MAMCoP sub-group	Needs views from ENA SMOG as to what they would like MAMs to provide	Action SMOG	L	3	
Gas18	ECV Inoperable or missing	A protocol between GT/MAMs was agreed last year, need to confirm it is operating successfully	Gas Old Chestnut 2.18	MAMCoP sub-group	NGG to check their approach WWU reported no MAM has approached	Action NGG	L	3	
Gas19	iGT data flows	Exchanging data for iGT installed meters add complexity	Gas Old Chestnut 2.19	MAMCoP sub-group	under consideration	Parked	L	3	
Gas20	I&C Issues	A range of I&C issues have been identified, although these are low priority/for consideration	Gas Old Chestnut 2.20	MAMCoP sub-group	later consideration	Parked	L	3	
Gas21	Chargeable items	Resolving issues may cost money, how much and where does the cost fall?	MAMCoP sub-group	MAMCoP sub-group	matrix created, needs populating. ENA SMOG completed gas, electricity to be completed. Certain items need MO input	Action ENA, Action AMO	H	1	
Gas22	Bonding arrangements in flats	clarify requirements of bonding for IGEN G5	Igem G/5	MAMCoP sub-group	questions raised as result of sub-group work	clarify understanding/requirement	M	2	gas/electrical issue
Gas23	meter change temporary bonds	Concern raised at sub-group about use/purpose of 'volt sticks'	MAMCoP sub-group	MAMCoP sub-group	Varying views	develop 'best practice' through workgroup	M	2	gas/electrical issue
Gas24	use of volt sticks	Concern raised at sub-group about use/purpose of temporary bonding	MAMCoP sub-group	MAMCoP sub-group	Varying views	develop 'best practice' through workgroup	M	2	gas/electrical issue
Gas25	Disconnection/re-connection of cusic	The skills/ability of gas meter operative to disconnect/re-connect customer earth bonding when found in wrong place, or needs moving to allow pipework changes	MAMCoP sub-group	MAMCoP sub-group	Varying views	develop 'best practice' through workgroup	M	3	gas/electrical issue
Gas26	Extension (or not) of customer earth	The correct approach to be adopted when customer earth bonding needs extending as result of meter moves	MAMCoP sub-group	MAMCoP sub-group	Varying views	develop 'best practice' through workgroup	M	4	gas/electrical issue
Gas27	Reporting of non-urgent issues	Reporting by MAM to GT of urgent issues occurs by phone. However there are some less urgent issues that could be more effectively communicated in a dataflow	MAMCoP sub-group	MAMCoP sub-group	raised		M	2	
Elect1	not used						X	X	

Issues under consideration by MAMCOP MOCOPA

Issue	Title	Brief description	Source	Forum for debate	current status	state	Priority	Timescale	Grouping
Elect2	Inadequate Meter Boards	How customer replaces a rotten or otherwise inadequate 'meter board'	Elect Old Chestnut 2.1	MOCOPA®	Principle agreed, if cut-out attached must be Distributor, if meter only then MO AMO to document	Draft CP discussed at MOCOPA RP (Mar'11). Action AMO/MOCOPA to revise	L	1	
Elect3	Metal clad cut-outs	Agree safe methods of working and/or replacement clarify ESQCR reporting and reiterate current practices	Elect Old Chestnut 2.2	MOCOPA®	Principle agreed. AMO/ENA to document	Action AMO/ENA	M	1	
Elect4	Fused neutrals		Elect Old Chestnut 2.3	MOCOPA®	Current practices of replacement confirmed. No ESQCR reporting currently required - closed	Closed	x	x	
Elect5	Earth Connection - new connections	Clarify roles/responsibilities for provision of earth connections at new connections	Elect Old Chestnut 2.4	MOCOPA®	CP rejected. Reasons for rejection being considered and will review in Jan 2011 mtg	Action UKPN/RRP	M	1	review panel
Elect6	Earthing - existing connections	Clarify roles/responsibilities for provision of earth connections at existing connections	Elect Old Chestnut 2.5	MOCOPA®	CP rejected. Reasons for rejection being considered and will review in Jan 2011 mtg	Action UKPN/RRP	M	1	review panel
Elect7	Rising & Lateral services	Clarify of responsibility between Distributor and building owner	Elect Old Chestnut 2.6	MOCOPA®	Principle accepted that Distributor and building owner will review each case individually. UKPN http://epr.orgem.gov.uk/index.php?pk=doc600733 may provide guidance to others AMO considered further on 17Feb11	Action AMO to circulate concerns	M	2	
Elect8	Flat meter in shop below	Access to meters inaccessible to customer	Elect Old Chestnut 2.7	MOCOPA®	under consideration. CE Electric preparing straw man	Action CE Electric	M	2	
Elect9	Communal Cupboards	Access to communal metering cupboards	Elect Old Chestnut 2.8	MOCOPA®	under consideration		L	3	
Elect10	Meter Height	Location of new meter installations	Elect Old Chestnut 2.9	MOCOPA®	CP rejected. Reasons for rejection being considered and will review in Jan 2011 mtg	Action AMO to redraft CP with words acceptable after previous rejection	M	1	review panel
Elect11	Cage terminals	Concern over use of cage terminal to securely capture cables	Elect Old Chestnut 2.10	MOCOPA®	under consideration for adding into BS7856	Action BSI	L	3	
Elect12	UK meter design conventions	Concern over terminal order	Elect Old Chestnut 2.11	MOCOPA®	under consideration for adding into BS7856	Action BSI	L	3	
Elect13	MOCOPA® safety information	Not all safety and operational information is being provided by Distributors under MOCOPA®	Elect Old Chestnut 2.12	MOCOPA®	Enhanced the website, broadened requirement through ENA and considering a Distributor audit regime	Action Genserv & Distributors	H	1	review panel
Elect14	MOCOPA® operational information	Not all operational information (e.g. VT/CT casts) is being provided by Distributors under MOCOPA®	Elect Old Chestnut 2.13	MOCOPA®	Enhanced the website, broadened requirement through ENA and considering a Distributor audit regime	Action Genserv & Distributors	L	2	review panel
Elect15	MO reporting issues to Distributors	Improve the reporting and logging of issues identified by MOs	Elect Old Chestnut 2.14	MOCOPA®	Developing hierarchy of issues and reviewing reporting/logging mechanisms	Develop in workgroup	H	1	reporting
Elect16	Cross polarities and ESQCR reportin	HSE concern that not all issues are registered and reported through ESQCR EID system	Elect Old Chestnut 2.15	MOCOPA®	Chasing remaining MOs to register and report regularly MOCOPA® developing CP to add requirements into MOCOPA®	Action MOCOPA® CP approved for May'11 release AMO members circulated Oct-Dec10 report	M	1	review panel

Issue	Title	Brief description	Source	Forum for debate	current status	state	Priority	Timescale	Grouping
Elect17	Damaged meter boxes	MO or Distributor find damaged meter box - how is it resolved?	Elect Old Chestnut 2.16	MOCOPA®	Discussion paper prepared - workshop scheduled in Feb11	Action AMO to discuss with suppliers	M	2	x
Elect18	Meter box size	There is no BS for electricity meter boxes, therefore smaller boxes can be fitted.	Elect Old Chestnut 2.17	MOCOPA®	MOCOPA® approached BSI about developing new BS8567 to compliment existing gas BS, BSI setting group up. Members being obtained. See Ofgem consultation as result of BG request	BSI called forst drafting mty on 23mar11	L	3	x
Elect19	Two yearly inspections	Issues associated with desire to remove global requirement for two year safety checks	Elect Old Chestnut 2.18	MOCOPA®		pending Ofgem consult	M	3	x
Elect20	Electricians breaking seals	Discussed at DCUSA in 2009. Promote the FAQ document. Consider mandating DPls	Elect Old Chestnut 2.19	MOCOPA®	under consideration. ESC wrote to Ofgem about knife switch	pending Ofgem	L	2	
Elect21	Identify new connections with MPAN	Label all new connections with MPAN to assist all parties to know correct premises	Elect Old Chestnut 2.20	MOCOPA®	under consideration	Action ENA	L	3	
Elect22	Access to meters in substations	Ensure new meter locations are accessible to MO and customer	Elect Old Chestnut 2.21	MOCOPA®	agreed, but need to embed in Distributor design documents		L	3	
Elect23	Label CT/VT details	Distributor to provide an accessible label on all new/changed CT/VT metering arrangements	MOCOPA® RP	MOCOPA®	Proposal for label to be fitted being developed	MOCOPA® CP approved for May11 release	L	3	review panel
Elect24	Colour of meter tails	Raised by MOCOPA® Auditor particular issue in multi-customer installations	MOCOPA® RP	MOCOPA®	CP confirmed, incorporated into MOCOPA®in Oct10	Closed	x	x	
Elect25	Varying Distributor requirements	Distributors have differing requirements prior to approving meter operatives in their area	MOCOPA® RP	MOCOPA®	Reviewing and seeking to remove or consider inclusion as generic requirement in MOCOPA®	Action ENA	H	1	
Elect26	Fuse sizes	Clarify required over the size of cut-out fuses	MOCOPA® RP	MOCOPA®	Draft CP to clarify obligation on Distributor to advise and change fuses if required. ENA SMOG considering	Develop in workgroup	M	2	fuse/tail sizes
Elect27	Meter tail sizes	Clarify required over the size of meter tails, and whether these are changed when not already 25mm2, particularly between cut-out to meter	MOCOPA® RP	MOCOPA®	Under consideration	Develop in workgroup	M	2	fuse/tail sizes
Elect28	Multi-way cut-outs	The special locking of multi-way cut-outs should be reviewed as to whether it is necessary	MOCOPA® RP	MOCOPA®	Review as part of guidance about 'unsuitable cut-out designs		M	3	fuse/tail sizes
Elect29	Looped Neutrals	Safety issue identified where neutrals are looped for more than one customer	MOCOPA® RP	MOCOPA®	Discussed 13Jan11. Initial approach agreed. Combine with Elect30	Action AMO	M	2	
Elect30	Multiple customer isolation	Replacing a single meter may require interruption of supply to another customer(s). Several customer fed from one cut-out. What are the practical and legal issues?	MOCOPA® RP	MOCOPA®	Discussed 13Jan11. Initial approach agreed. Combine with Elect29	Action AMO	M	2	

Issues under consideration by MAMCOP MOCOPA

Issue	Title	Brief description	Source	Forum for debate	current status	state	Priority	Timescale	Grouping
Elect31	Chargeable items	Resolving issues may cost money, how much and where does the cost fall?	MOCOPA® RP	MOCOPA®	matrix created, needs populating. ENA SMCG completed gas & electricity. Certain items need MO input	AMO members considered, need to feedback to ENA/Ofgemworkshop	H	1	
Elect32	Microgeneration back feed	Increasing use of microgeneration leads to risk where cut-out fuse removed, but potential for voltage on customers side of metering	MOCOPA® RP	MOCOPA®	Under consideration		L	2	
Elect33	Customers installation poor or inadequate	When a meter operative determines customers' installation is poor, then the practical and legal issues of resolution	MOCOPA® RP	MOCOPA®	Considered paper at 8Feb11 workshop	Action to develop proposals further in workgroup	M	2	installation checkie
Elect34	Connection of non-whole current tails	Clarity has been provided by the MOCOPA® review panel that the Distributor should connect tails where the connection is not whole current	MOCOPA® RP	MOCOPA®	CP drafted - AMO need to amend to reflect comments	Action AMO to revise draft MOCOPA CP	M	2	
Elect35	Provision of CT Meter Cabinets	Some Distributors have stopped providing panels to affix metering. Clarity of approach is required	MOCOPA® RP	MOCOPA®	Discussion paper prepared. Comments - action on ENA to raise as tech issue	MOCOPA CP for RP needs revision	M	2	
Elect36	ESFRS Report into cut-out fires	Interesting report, circulated to MOCOPA® parties for comment, will be considered as trigger for change	MOCOPA® RP	MOCOPA®	Warning label considered, Onstream/ESC/ESFRS drafted. Considered on 8Feb11 workshop	Action develop further in working group AMO members considering issues	M	2	fire table
Elect37	Customer equipment in meter box	Traditionally 'customer' equipment (e.g. DP isolator) has not been allowed in the meter box, yet the practice has varied. Consider and determine some rules or guidance	MOCOPA® RP	MOCOPA®	Discussed on 13Jan11 meeting. Appears reasonable to split box into 4 quarters, one of which could be used for customer switch/fuse		L	2	x
Elect38	Meter Board requirements	Traditionally meter boards had to confirm to certain requirements, e.g. fireproof. These requirements do not	MOCOPA® RP	MOCOPA®	Await debate in BS8567 and use that as guidance for all meter/cut-out boards	pending BS8567	L	2	x
Elect39	Plastic meter boxes internal to building	Concern raised by ESFRS that meter boxes internal to buildings particularly on escape routes, should be fire resistant	MOCOPA® RP	MOCOPA®	new 23 dec 2010	ESFRS to provide guidance. Action develop further in working group	L	2	fire table
Elect40	Off peak load contactors	Lack of clarity over ownership, responsibility and liabilities	MOCOPA® RP	MOCOPA®	Paper produced by AMO not time to discuss on 17Feb11 mtg	Action AMO - discussion document prepared	M	2	x

