

Initial Response (Part B) to Change Analysis Request

for

Advanced Meters

*This document is Xoserve's initial response to the above Analysis Request.
The response is intended to support the Proposers involvement in the development of industry changes.*

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Please note that a part A was delivered in advance of the change being raised as a UNC Modification has been previously delivered and this Part B is delivered following preliminary industry discussions.

Xoserve's Initial Analysis of the Proposal

Xoserve's analysis of the benefit case

The Problem / Opportunity

There are two parts to the problem. Assuming that all non-domestic sites will have Advanced Meter Reading (AMR) equipment installed by 2016, up until that time there is a requirement to know if AMR asset is at site and which ASP is contracted. After 2016, all that should be required is which Advanced Metering Service Provider (ASP) is contracted. Therefore the solution should communicate the presence of advanced mode meters (AMR) at sites.

Assumptions

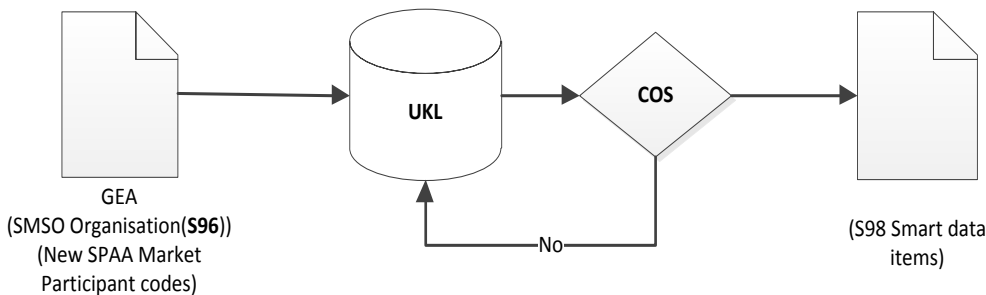
- After 2016, all non-domestic sites will have AMR equipment installed.
- The relevant data permissions exist around the identity of the ASP and the presence of AMR equipment, and an incoming Shipper is allowed access to this information.
- Permissions to view Meter Mechanism and / or SMSO on DE already exist for the Registered and Incoming User.
- SMSO / ASP Providers are mutually exclusive at a meter point.

Analysis of the Proposer's desired Objectives, Benefits and Outcomes

Solution Options

- A.** This option proposes to use the Smart Metering System Operator (SMSO) Organisation Type in S96 record with a new SPAA market participant codes for ASP Organisations. This would NOT create a new Organisation Type or use the ASP Organisation in MDD. Output would be via the S98 record using the SMSO_ID field.

The explicit presence of AMR equipment would not be recorded on UK Link Systems.
Changes to S98 trigger would be required.

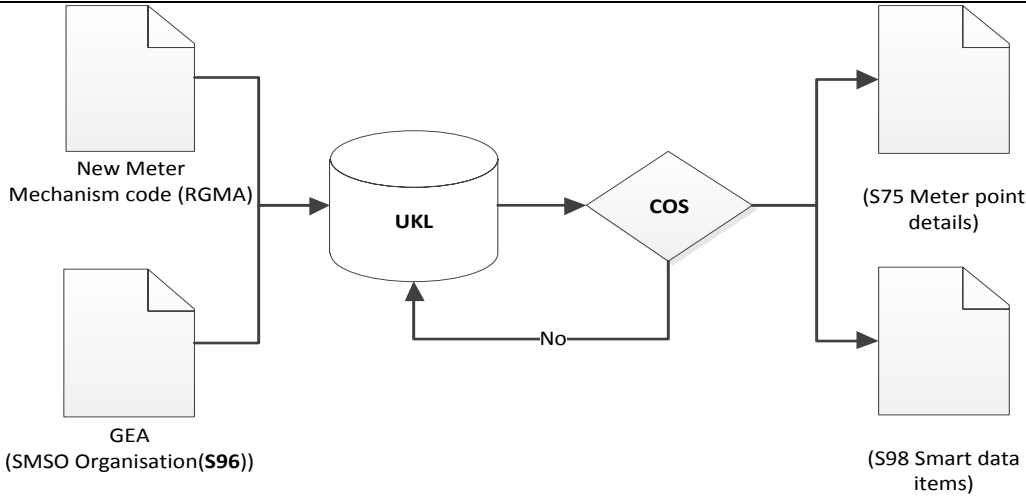


Option A Context Diagram

- B.** This option uses RGMA functionality to capture Meter Mechanism and the S96 record for the Service provider Organisation (SMSO).

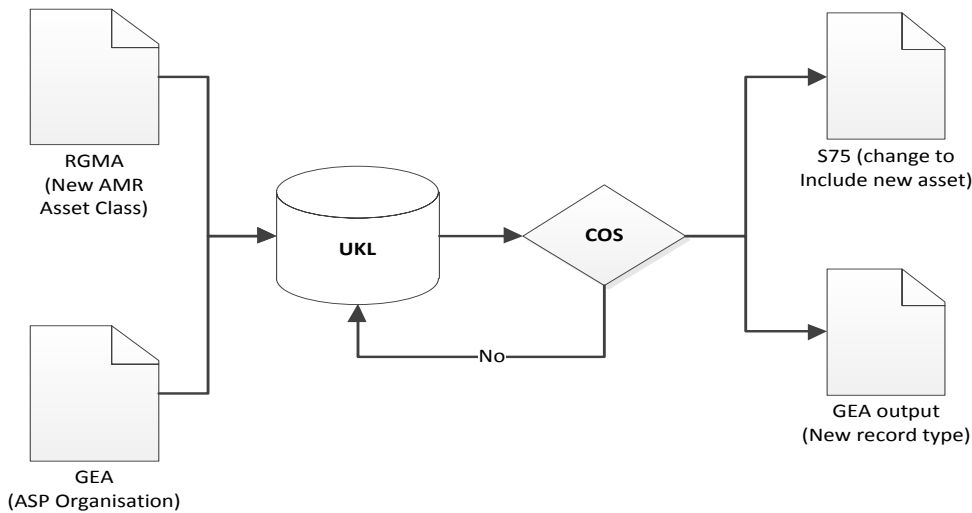
New Meter Mechanism values would need to be created to denote AMR equipment. But output would be via the TRF file (S75 for Meter Mechanism) and S98 (Smart) for the SMSO.

This would NOT create a new Organisation Type or use the ASP Organisation in MDD.
Changes to S98 trigger would be required.



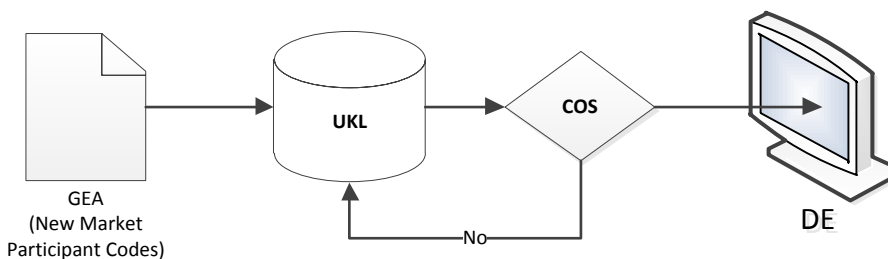
Option B Context Diagram

C. This option utilises a specific organisation type and explicitly records AMR Equipment is at site without data being derived or assumed. This is done by creating a new Asset class in RGMA for AMR equipment and creating a new Organisation type for ASP / AMO and finally a new GEO output record that would be sent at Shipper transfer. However, it is assumed that ASP that features in SPAA’s Market Domain Data will be populated in the future.



Option C Context Diagram

- Ø. Where an ASP organisation is required to communicate their presence at a site, they do this as an SMSO Organisation type and use new SPAA Market Participant Short codes to identify Automatic reading equipment Service providers (AMO / ASP). With the output via the SMSO field on DE. This option is not expected to need system changes as existing input files and DE would not need changing. It is assumed that Meter Mechanism and SMSO can be viewed via Data Enquiry by incumbent and incoming Shippers.



Option Ø Context Diagram

Option Costs

Note: High Level Cost estimate information is not based on any systems analysis and should be used with caution.

	Up to £20k	£20k to £100k	£100k to £300k	£300k to £500k	£500k to £1m	£1m +
Up to 3 months	Option Ø					
3 to 6 months						
6 to 12 months						
> 12 months		Option A & B	Option C			

The above Option cost timescales are not durations, but an indication as to when the change might start, any system based solution is not expected to receive prioritisation due to scale of impacts to Shipper and Transporter systems given the scale of prevailing industry change.

To indicate implementation durations, Option ‘Ø’ and ‘A’ are up to 3 months, Options B & C 3 to 6 months and Option D 6 to 12 months

Impacts

- Creating a new RGMA asset class would have wide ranging impacts on a large number of stakeholders.
- All options would require SPAA MDD changes – for example, The Options Ø, A and B would require the definition of SMSO within SPAA Market Domain Data (MDD – Market Participants) to be changed.

Concerns: (include any key issues, risks & dependencies)

- There is a concern that AMR equipment is not part of the Smart data set and to use Smart specific file flows in this way may cause confusion in the future.
- AMR equipment is not Smart.
- Meter Mechanism can only hold one value and an AMR value may overwrite valuable data.
- More than one ASP may exist at site but as only the latest Shipper notified value can be stored in all options other than Option C.
- It is not clear whether SMSO and ASP can co-exist.
- The S96 record is flexible in as much as new Organisation types can be added, however the output file (S98) is not flexible.
- It is probable that due to the UK Link Programme (following Nexus requirements) any change that impacts UK Link Systems will be delayed until after implementation of UK Link Programme.
- For all but Option C- Organisational data will be displayed by use of the SMSO id field on DE or S98. Consideration might be given by the proposer whether the id code should intuitively communicate that a ASP / AMO organisation is associated to the Meter Point (e. g. short code denoted by a prefixed value)

All the options are dependent on impact assessment by the UK Link Replacement Programme (Nexus) as to their viability for implementation.

Assumptions

- SMSO id is currently community data on DE and it is assumed that this will not change.
- The S98 is only issued where the Supply Point Register indicates that a Smart meter is present. This trigger would need to change if an option is selected where Organisational data is conveyed by file formats.
- Currently the S98 record is issued at various points around Shipper Transfer. The S98 record is sent with Nomination and Confirmation response and also the TRF at D-7. It is assumed that the trigger timings are not changed.
- The GEA options depend on Shippers / Suppliers updating the presence or otherwise of ASP organisations.

Related Industry Topics	UNC MOD 0477 – Supply Point Registration – Facilitation of Faster Switching
Potentially Impacted Processes	<ul style="list-style-type: none"> • Generic Entity Amendments • SPA • Change of Supplier • Data Enquiry • IP • SPAA (Market Domain Data)
Potentially Impacted Stakeholders	Shippers, Suppliers, ASPs, Xoserve, SPAA, UK Link Committee
Scale of Potential Benefits	Medium
Scale of Potential Impact	Medium
Xoserve view of Priority:	Low
Xoserve’s Recommended Next Steps <i>Recommend Proposer to: close / reassess / progress, i.e. submit enhanced benefit case</i> <i>Provide reasons if recommendation is not to progress.</i>	
Additional Information So far in 2014 there has been around 10,000 change of suppliers events per month for Larger Supply points	

Proposer’s Response

Benefit Case Please provide further information regarding; benefits sought; industry support; market demand volumetric, mitigation of risks; mitigation of opposition / lack of support. Please include justification to proceed if contrary to Xoserve recommended next step	
Additional Information (that may be useful for Xoserve analysis) <i>Consider posing specific questions that need to be answered to assist Xoserve analysis</i>	
Proposer’s requested next step	Close / Hold pending reassessment / Proceed to Option Analysis
Proposer Contact Details: Name e-mail address Contact Tel No.	