

# Rough Order of Magnitude (ROM) Analysis

for

## Initial Registration Changes to Facilitate Smart Metering

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## 1. Change Driver / Origin

The Smart Metering Implementation Programme (SMIP) has identified changes that will be required to facilitate the Foundation Stage phase of the Programme.

High Level objective: To better facilitate the Change of Supplier process at sites where a SMART meter has been installed the objective is to provide information to enable the potential incoming supplier to undertake effective Supplier switching.

The SMIP Foundation stage has been defined. The following three data items have been identified as required to support the Foundation stage objective...

- Installing Supplier.
- Meter Mechanism code<sup>1</sup>.
- Smart Metering System Operator (SMSO).

## 2. Analysis

FIOM (Foundation Interim Operating Model Group.) in developing their requirements for the Foundation Stage have put forward a solution utilising existing reporting systems (Data Enquiry system) and file flows (SPA & RGMA). FIOM also reached the conclusion that the provision of the SMSO data item was not imperative at least in the early stages of development.

This led to the group making a two pronged recommendation for the development . First the Installing Supplier and Meter Type (Meter Mechanism code) would be held on the Xoserve Data Enquiry (DE) system. Later the SMSO would be added to DE and all three items reported to Shippers via SPA file flow (i.e. Enquiries, Nominations, Offers and Confirmations).

The solution options used for costing by Xoserve does not include the use of the RGMA flows in order to update the SMSO Organisation data as this data may be updated in a number of circumstances outside of meter exchange, including Change of Supplier and contract change. The approach to update this data item via SPA flows is consistent with that of MAM Organisation data.

### **Option definitions**

To help understanding of how the different aspects of the change affect cost the following options have been costed for:

#### Options excluding SMSO

Option 1a – Display installing Supplier & Meter mechanism code in Data Enquiry (DE) only

Option 1b – Display Installing Supplier & Meter Mechanism code in DE & send via SPA files.

#### Options including SMSO

Option 2a – To receive SMSO via SPA input files and display SMSO, installing Supplier & Meter mechanism code in Data Enquiry DE.

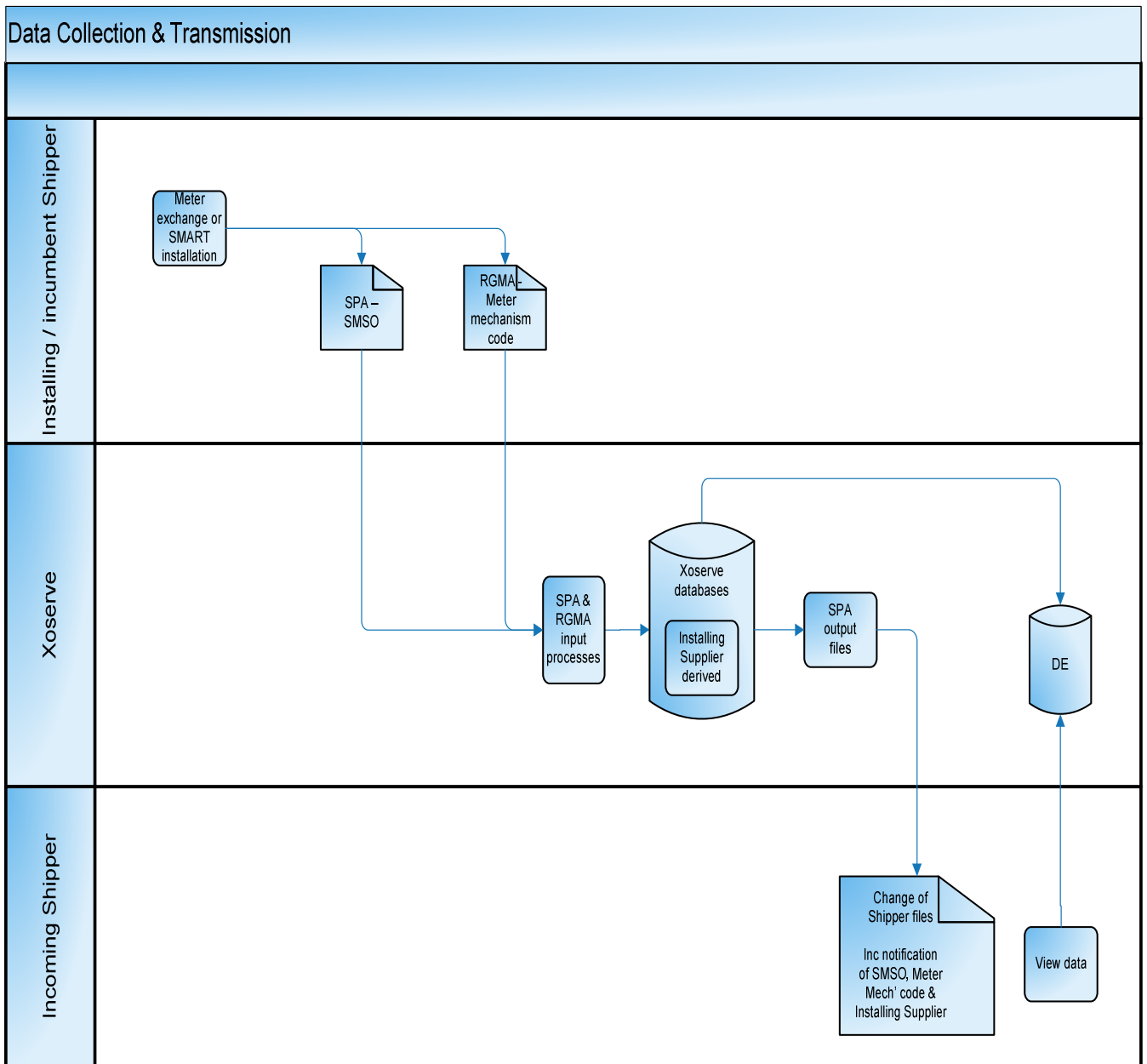
Option 2b - To receive SMSO via SPA input files and display SMSO, installing Supplier & Meter mechanism code in DE & output via SPA files.

To determine how data is input & output, please refer to context diagram.

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<sup>1</sup> The Business Process Design Group (BPDG) – Legacy system changes (Enduring) states that Meter Type indicates the type of meter installed on site. However, the Gas industry uses Meter Mechanism code for this purpose.

**Context diagram**



### Rules & Requirements:

- An enquiring Shipper is allowed to view SMART meter data (SMSO, Meter Mechanism code & Installing Supplier) specific to the incumbent Shipper before D-7 of the Transfer notification process (subject to suitable UNC modification).
- The Installing Supplier will be derived via the effective Supplier at the time of installation (including exchanges) of a Smart meter as designated by the Smart meter identification codes.
- The installing Supplier data only changes if there is a Meter installation or exchange event. However, the installing supplier may change from blank if an ONUPD flow changes the meter type from a dumb code to a SMART code in which case the installing supplier will still be the supplier effective when the modified meter was initially installed (via ONJOB flow).
- Data (variable by option) must be viewable via Xoserve Data Enquiry Service (DE).
- The SMSO will be supplied via Supply Point Administration (SPA) input files in a timely manner.
- Data (variable by option) must be provided by SPA output files.

### 3. ROM Costs & Timescales

*Note: ROM information is not based on any formal systems analysis and should be used with caution.*

#### System analysis, design, development and implementation

#### Table of options:

Option		BER duration (weeks)	Delivery duration (weeks)	PIS (weeks)	Estimated solution cost
1a	Low	8	14	2	£42,700
	High	22	16	2	£55,900
1b	Low	13	25	3	£147,000
	High	16	27	3	£184,000
2a	Low	12	20	3	£109,000
	High	15	22	3	£136,000
2b	Low	12	41	5	£228,000
	High	15	44	5	£282,000

#### Ongoing and Service costs

It is anticipated that there will be no additional operational costs associated with managing the file submissions in accordance with the business rules. At this point in the change process it is not proposed that an ongoing service charge is developed as there are still many unknowns. However, should it become apparent that costs are required to be recovered from a User Pays service charge a modification to the Agency Charging Statement will be proposed.

#### **Estimated duration:**

*Note: durations are subject to Xoserve resources and priorities at the time that documents are received*

- Provision of a Business Evaluation Report (BER) will take at least the low duration, but probably not more than the high duration, from the time that Xoserve receives a Business Evaluation Order (BEO).
- Delivery; including user testing; will take at least the low duration, but probably not more than the

high duration from the time that Xoserve receives a Change Authorisation.

- There will be a Post Implementation Support (PIS) period following implementation for all options.

**Timescale guidance:**

- Delivery of the change will be subject to an instruction from the Gas Transporters to proceed and Xoserve resources and priorities following submission of the Change Order to Xoserve.
- For Xoserve to deliver the change as quoted in the Estimated duration, UK Link committee time constraints may need to be waived.
- The proposed new Meter Mechanism codes will require to be processed via the SPAA Ltd change proposal processes.

**Project costing assumptions:**

- The estimated costs are the full costs for implementing the changes.

**Xoserve cost estimates included:**

- Xoserve Project Team and Operations Team costs to support implementation of the solution.
- Detailed analysis and application development.
- Infrastructure service implementation costs.
- Xoserve Operational Team costs to support implementation of the solution.
- One-off cost to set-up User Pays charging (Adhoc).

**Xoserve cost estimates not included:**

- Costs to enable systems to handle an uncontrolled update of meter type (using new agreed codes) for millions of MPs where a smart meter has already been installed.
- Ongoing support costs are not seen as material; therefore, they have not been included.
- Re-Useable Organisation id changes
- Maintenance of SMSO history.

#### **4. Assumptions, concerns, risks and impacts**

**Assumptions:**

- It is assumed that a UNC Modification will be required to enable an enquiring Supplier to view SMART meter data specific to the incumbent Supplier.
- SMSO history (Effective dates) will not be captured or maintained.
- SPAA Ltd will maintain the list of authorised SMSO short codes.
- The SMSO short codes will be unique UK Link codes.
- It is anticipated that the enduring solution will require system validations; however, these have not been costed for in this ROM.

**Concerns:**

- Where the Implementation of the service is before D-7, it is anticipated a UNC Modification will be required to permit the provision of data to a potential incoming Shipper. There may be insufficient time for implementing the UNC Modification before the required implementation of January 2013.
- The Data Enquiry service is governed under the Framework Contract for the Provision of Non-Code User Pays Services. The contract provides a change process in the event the services are required to be changed. The initial assessment is that the addition of data items to the Data Enquiry facility would not require Xoserve to enact the change process within the contract. However, if

following further analysis, the nature of the changes to Data Enquiry require the Framework Contract for the Provision of Non-Code User Pays Services change process to be followed, this will be an additional activity to be completed.

- To capture full accurate history of SMSO service provision, we recommend that the effective date of SMSO appointment is provided by Supplier/Shipper to Xoserve. If not provided, Xoserve recommend it should derive effective date from date of capture.

#### **Risks:**

- There is a risk that there will be an uncontrolled data catch-up for millions of Meter points at transition. To mitigate this, agreed update rate will be required with main Shippers, consequently no performance enhancements are expected to be required.
- The process to derive the installing supplier of a Smart Meter relies heavily on timely and accurate RMGA updates. In some instances, an ONUPD file flow will create an exchange event (deemed a cosmetic exchange); in this scenario, a new installing supplier may be incorrectly derived if the update is to a Smart meter.
- There is a risk that SPAA Ltd assigns non unique SMSO codes for SMSOs, which cannot be accepted by UK Link.

#### **Impacts**

##### **xoserve:**

System changes only, no expected changes to manual processes.

##### **Networks:**

None identified at present

##### **Shippers / Suppliers**

Shippers are required to submit files flows in a timely manner to ensure the integrity of the Smart meter related data.

##### **Ofgem**

None identified at present

##### **Others e.g. DCC**

The data may be used for migration purposes for other services. Data extracts may be required. None of this has been included within the scope of this ROM.