

Smart Metering Entity (SME) Licence Order Working Group

Meeting # 8

September 8th, 2016

Call-In Numbers:

Local: (416) 915-8942

Toll Free: 1 855 244-8680

Agenda

- Review and approval of the minutes from Meeting # 7
- SME Synchronization Testing Update
- LDC Implementation Plans –Survey Results
- Third Party Access Implementation Plan Update
- Communications Calendar and Project Timelines Update
- Sept 9th LDC Event “Enhancing the Value of Data”
- Meeting Conclusions and Next Meeting Planning

Review and Approval of Minutes from Meeting #7

SME Synchronization Testing Update

SME Synchronization Testing Update

- Deployment of the new code to the MDM/R Sandbox was completed on August 2nd, 2016
- A number of LDCs have started their testing
- Based on Service Desk feedback tickets opened by LDCs, the SME will be implementing a change to modify the MDM/R code that handles Occupant Change end date rules
- The objective of this change is to allow LDCs to crush records (where end date equals start date) when a correction of an occupant change is required
- Deployment of the modified code to the MDM/R Sandbox environment is targeted for September 8th, 2016.

SME Synchronization Testing Update

Scenario 1: Correcting a “backdated” Occupant Change

- If an LDC has an existing record in the system:
 - USDP1 20150101000000-20151231000000
- The LDC needs to correct the year of the Occupant Change to 2016; the LDC will be able to submit the following transactions:
 - USDP1 20150101000000 - 20150101000000
 - USDP1 20160101000000 – 20161231000000
- Resulting in a “crush” of the 2015 record, where end date equals to start end.

SME Synchronization Testing Update

Scenario 2: Correcting a “future dated” Occupant Change

- If an LDC has an existing record in the system:
 - USDP2 20160101000000-20161231000000
- The LDC needs to correct the year of the occupant change to 2015; the LDC could submit the following transactions:
 - USDP2 20150101000000 – 20151231000000
 - USDP2 20160101000000 – 20160101000000
- or
- USDP2 20150101000000 – 20151231000000
- The MDM/R does not process the 20160101000000 - 20160101000000 record, it processes the 20150101000000 - 20151231000000 record and crushes the 2016 record

SME Synchronization Testing Update

- Making this change will allow LDCs to intuitively correct the identified scenarios and also to consistently handle crushes across all data elements.
 - For details, refer to RFC0020791
- A new redline version of the TIS has been attached to RFC0027091.
- LDCs are encouraged to add this scenario to their testing.
- A notification with the details related to the deployment in Sandbox has been sent to MDM/R users.

LDC Implementation Plans - Survey Results

Survey Results

- Received responses from all of the LDCs via the EDA survey and MDM/R Service Desk tickets opened by the SME
- 51 LDCs will be submitting their Incremental Synchronizations with the Full Population
- 16 LDCs will be submitting their Incremental Synchronizations with the New Elements only

Survey Results

- LDCs Incremental Synchronizations of the new data elements to MDM/R Production by Month is as follows:
 - 7 LDCs in October
 - 40 LDCs in November
 - 20 LDCs in December

Submission of Synchronizations	October	November	December
New Elements only	1 ½ hours	44 hours	10 hours
Full Population	20 hours	70 hours	37 hours

NOTE: The hours are estimates as a result of SME synchronization analysis

Third Party Access Implementation Plan Update

Development of the SME's Implementation Plan

- The **Third Party Access Implementation Plan** development is guided by:
 - Best Practices in Third Party Access from other industries, as applicable
 - Input from stakeholders
 - Recommendations from the Privacy Consultant and the Office of the Information Privacy Commissioner
- Will be filed with the Licence renewal application submitted to the OEB this fall

Key Elements of the SME's Implementation Plan

- The **Implementation Plan** will contain:
 - Introduction and background
 - Privacy by Design
 - Third Party Access Framework
 - Guiding principles
 - Governance Framework
 - Risk Assessment
 - Process Maps
 - Measuring success
 - Third Party Access Implementation
 - Implementation timeline
 - Cost considerations

Privacy Analysis Stage 2

- During this stage, the Privacy Consultant will:
 - a. complete a one-time Re-identification Risk Determination (RRD) Service of the smart meter data, using 6-months of the enhanced data set once it has been collected, and
 - b. review and provide feedback on the IESO's Third Party Access Framework to provide a de-identification strategy for each of the Recipient Scenarios which would need to be applied to the Dataset to ensure that the re-identification risk is acceptable for each intended class of recipient.
- The completion of Stage 2 is targeted for September 2017.

SME Data Governance – Definitions

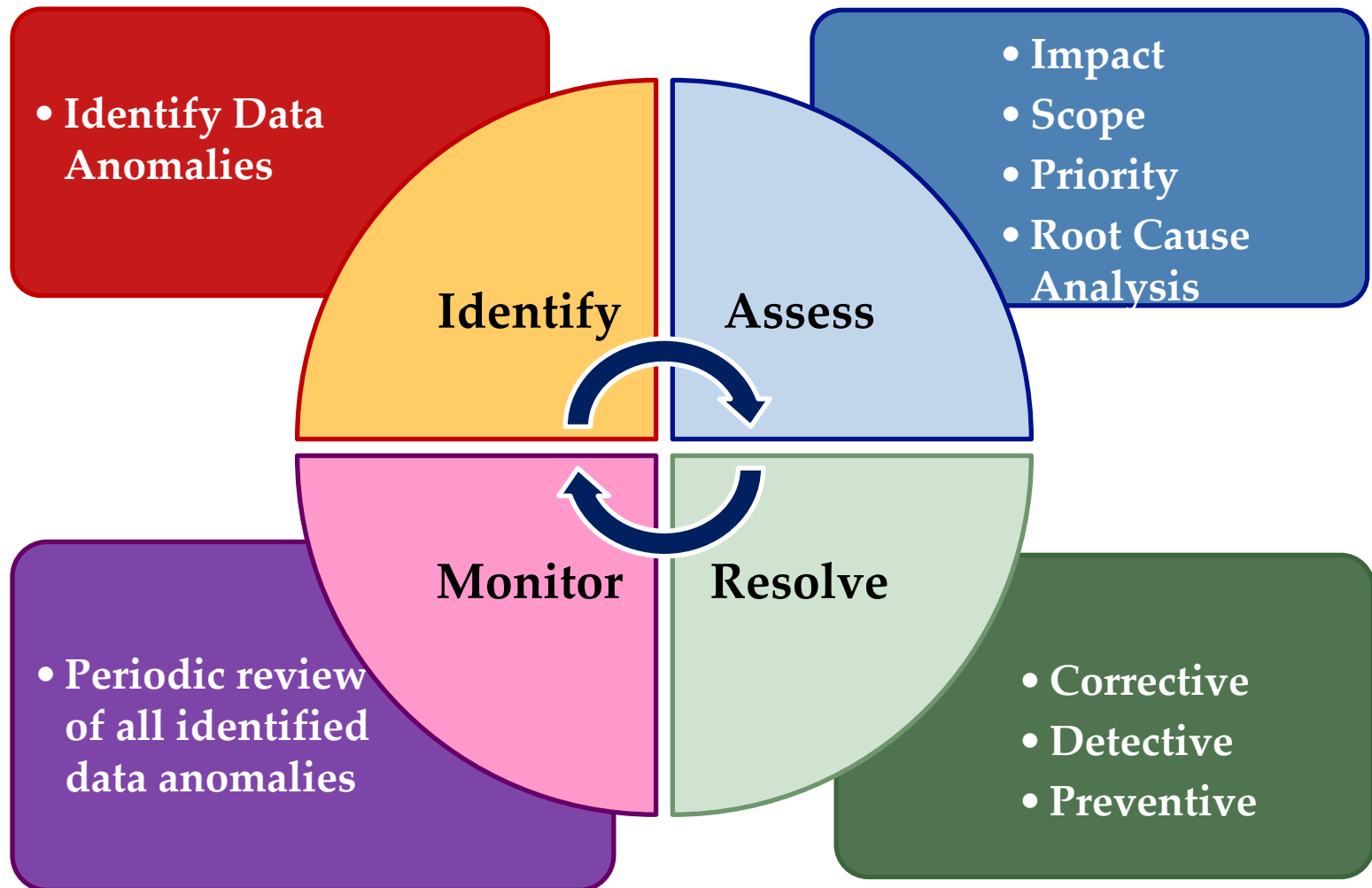
- The Data Governance Institute (DGI) defines *Data Governance* as:
“a system of decision rights and accountabilities for information-related processes, executed according to agreed-upon models which describe who can take what actions with what information, and when, under what circumstances, using what methods.”
- Who is a *Data Stakeholder*? Any individual or group that could affect or be affected by the data under discussion.



SME Data Governance – Context

- The SME will develop a **Data Governance Framework** as a guide to:
 - Identify and investigate potential data anomalies in the MDM/R and the Data Mart.
 - Establish ongoing data validation processes to inspect incoming data, identify anomalies, and take appropriate actions.
 - Collaborate with Data Stakeholders to build awareness on best practices that will maximize data quality and enhance its value for analytics

SME Data Governance – Model



SME Third Party Access Processes – Overview

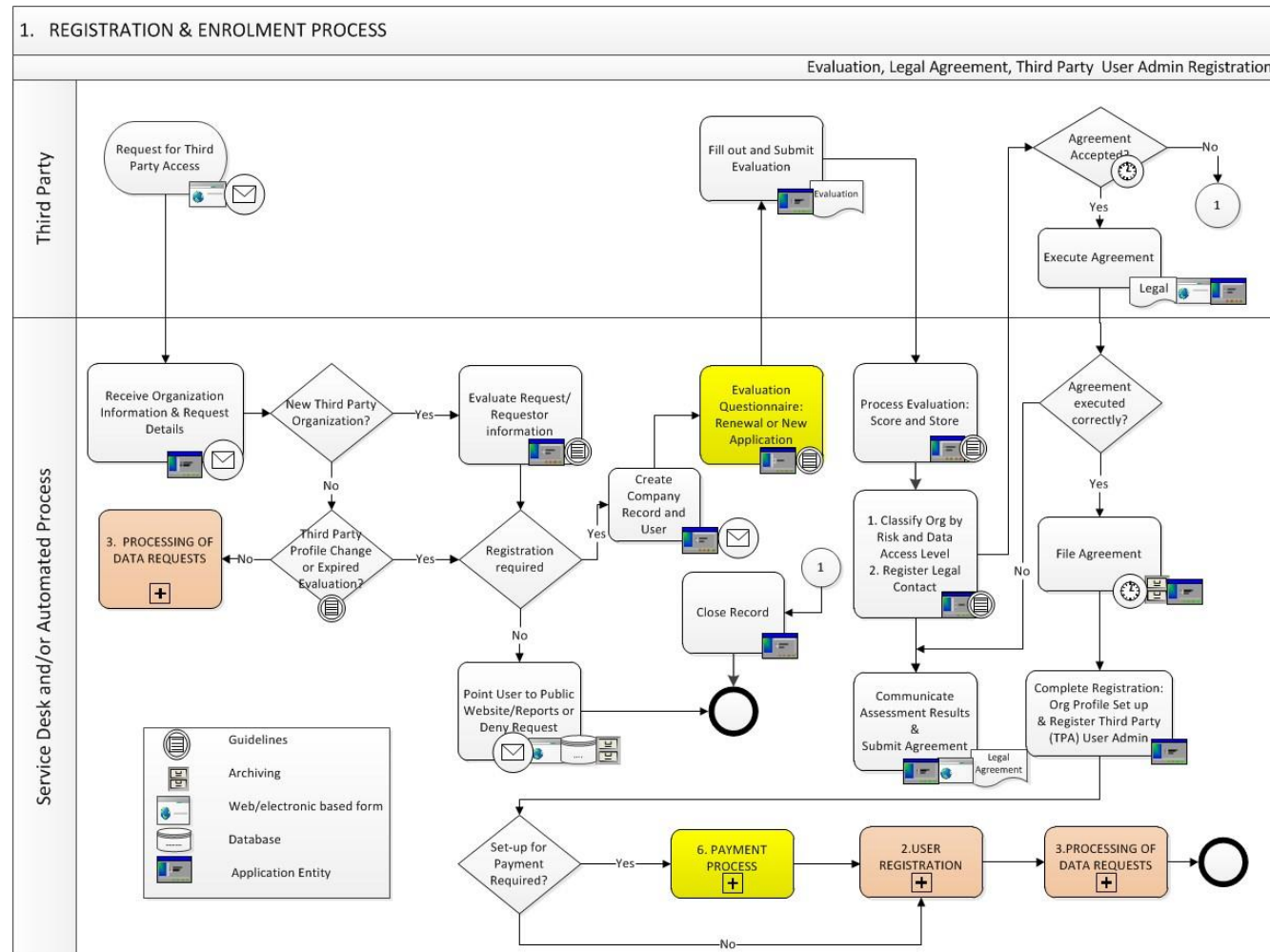


- Key considerations when designing each of the processes:
 - Complies with the privacy recommendations provided by the consultant
 - Designed to protect the security of the data
 - Automated & manual controls are in place
 - Traceable and auditable
 - Balance between user benefits/requirements and implementation costs

SME Processes – Registration & Enrolment

Includes:

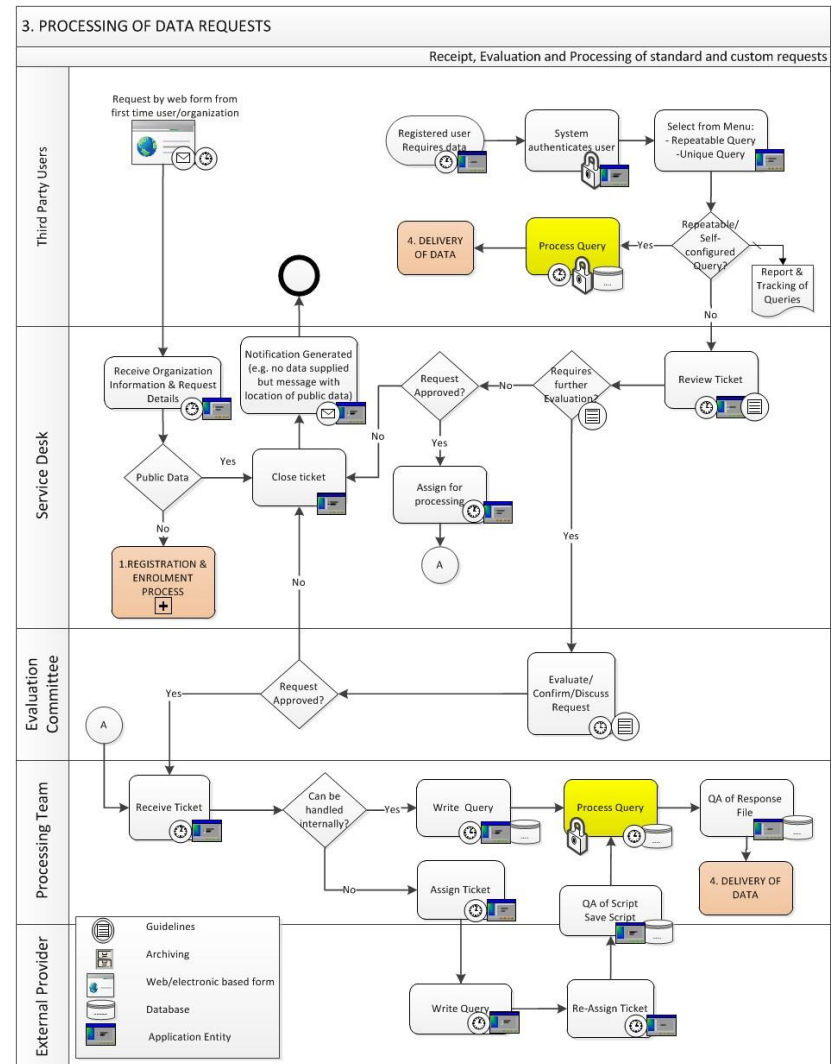
- Pre-registration
- Receipt of Third Party Access Requests
- Evaluation/Risk Assessment of Third Parties
- Legal Agreements & Organization Profile Set up
- User Enrolment
- Communication & Training of requestors



SME Processes – Processing of Data Requests

Includes:

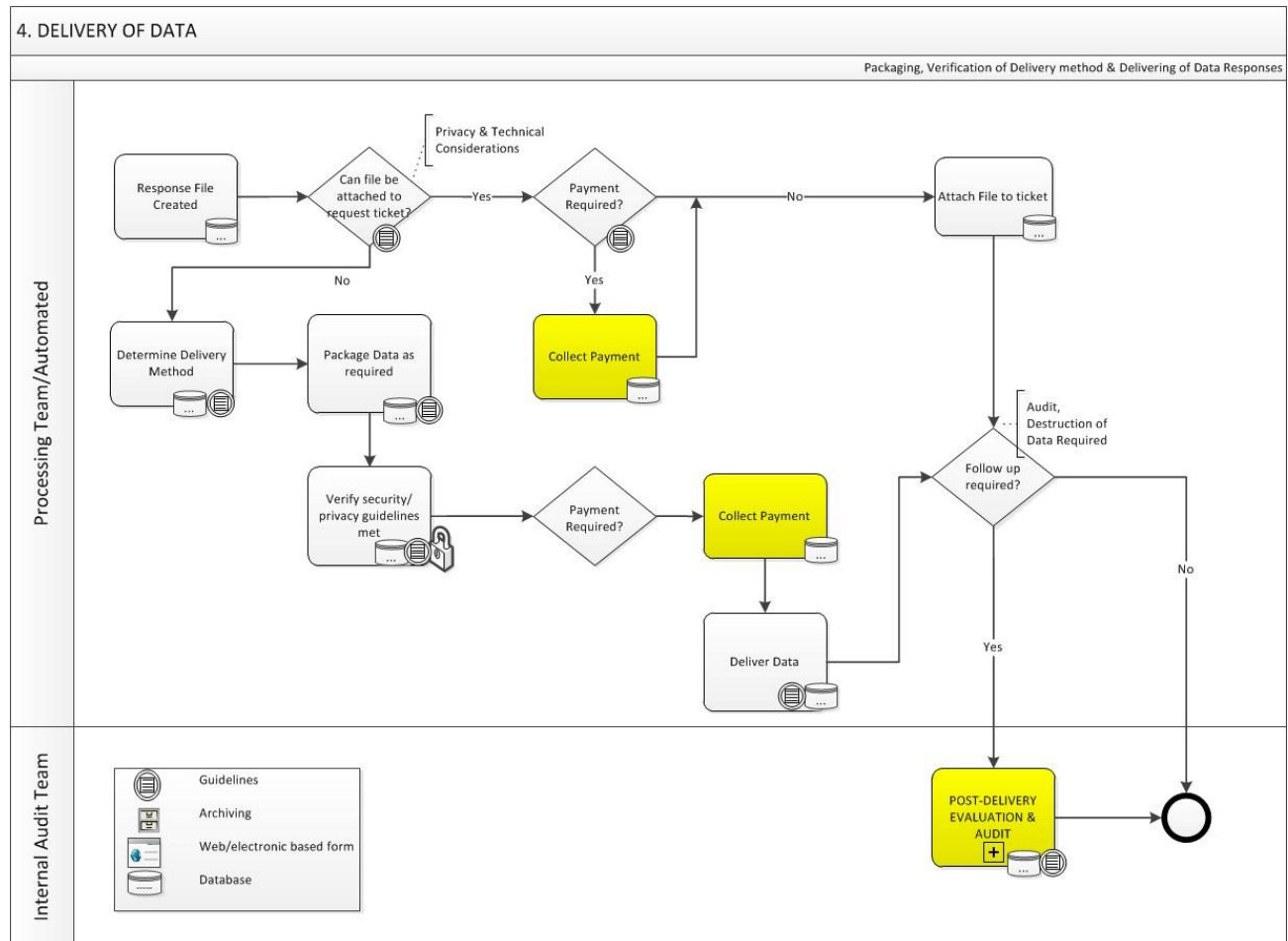
- Evaluation of requests (e.g. standard, custom, public, private, complexity level)
- Gathering of data: actual processing of requests (e.g. determination of in-house or out-source, pre-canned or set queries vs. custom queries)
- May require a process for the prioritization of requests



SME Processes – Delivery of Data

Includes:

- Assessment of technical requirements based on the risk assessment and the data files (size, formats, security required for the data at rest and in transit)
- Payment Processes (if required)
- Post-Delivery Processes



SME Third Party Access Implementation Plan

2017

2018

Q1 – Q3 2017

Refine Implementation Plan

- Collection of the new data elements
- Further develop business processes and functional/non-functional requirements
- Further develop the Data Governance framework and overall Project Governance
- Costing analysis / financial modeling
- Develop training & extended communication plans for LDCs and Third Parties
- Develop TPA Pilot Plan

Q2 2017 – Q2 2018

Testing, Validation and Evaluation

- Privacy Assessment – Phase 2
- Technical solutions procurement , testing and deployment
- Data Governance policies in place
- Finalize Legal Agreements
- Piloting Third Party requests
- Conduct Third Party training
- Refine and validate processes based on pilot feedback
- Finalize the Program Evaluation strategy
- Develop Audit plans (internal and external)
- Publishing of first aggregated public reports

Q1 - Q4 2018

Full Implementation

- Full launch of Third Party Access
- On-going process and operational improvements
- Implement audit plans
- Issuing of mandatory operational and financial reporting
- Continue supporting Third Party requests, and incorporate learnings
- Initiate annual Strategic Planning and Operation Enhancements cycle (2019)

Communications Calendar and Project Timeline Update

Communications Calendar Update

Communications Channel	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17
Working Group Meetings	✓	✓	✓	✓	✓	cancelled	Sept 8	Oct 6	Nov 8	Dec 15	Jan 19
IESO Stakeholder Engagement Website		✓	✓	✓	✓						
IESO Stakeholder Advisory Committee			✓			✓					
IESO Webinars			✓	✓	✓						
IESO LDC Event							Sept 9				
EDA Website / eBlast		✓	✓	✓	✓	✓					
EDA LDC Surveys		✓				✓					
SSC Meetings and LDC Open Calls	✓			✓							
MDM/R Technical Panel Meetings					✓						
GO LIVE Communication											

Project Timeline – Status Update

Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17
Early meetings with various groups	Working Group Formed and Kick off Meeting	Ongoing Working Group Meetings									
Privacy vendor selection and contract negotiations		Conceptual Re-Identification Risk Determination Analysis Report received June 2016		Development of 3 rd Party Access Framework				SME License Application & TPA Plan	LDC Support		Go Live
Technical Scoping & Requirements			Development and SME internal testing of the new MDM/R code			New MDM/R code deployed to MDM/R Sandbox environment LDCs' testing	New MDM/R code deployed to MDM/R Production environment with Validation for new SDP Parameters excluding Postal Code				

September 9th LDC Event

“Enhancing the Value of Data”

LDC Event – Enhancing the Value of Data

- LDC Event on Friday Sept 9th at the International Centre
- 70+ attendees (LDCs, EDA, MoE, OEB, IESO)
- Presentations will cover reflections and discussions on:
 - Smart Metering Opportunities
 - Smart Metering Data & Analytics
 - SME Licence Renewal Update
 - MDM/R Service Desk
 - MDM/R Data Mart
 - Q&A and discussions

Meeting Conclusions and Next Meeting Planning

Thank You!