

SME License Order Working Group Update - Webinar #3

Call in number:

- Canada Local: +1-416-915-8942
- Canada Toll Free: +1-855-244-8680
- Event Number: 662 298 966
- Attendee ID: *check your WebEx session under Audio Connection*

Smart Metering Entity (SME) Licence Order Working Group

LDC Webinar #3

July 28th, 2016

Agenda

- SME Synchronization Update
- Third Party Access Implementation Plan
- Communications Calendar Update
- Project Timelines Update

SME Synchronization Update

Synchronization Code Changes Update

- The OSP (IBM) completed development and testing of the code changes required for the synchronization of the 4 new elements.
- SME testing of the code changes is in progress
- Deployment of the new code to the MDM/R Sandbox Environment is targeted for Friday August 5th, 2016 .

SME Synchronization Testing Update

- The SME submitted synchronization file sets:
 - With only the required four new elements.
 - ORGID 1 – approximately 150,000 SDPs
 - ORGID 2 – approximately 340,000 SDPs
 - ORGID 3 – approximately 1,140,000 SDPs
 - With all elements (full population)
 - ORGID 4 – approximately 330,000 SDPs
- Processing times were tracked with the following considerations:
 - Synchronization processing run time, Report (IR06, IR07 and IR14) run times and total time.

SME Synchronization Testing Update

- Results of synchronization file set submissions of only the required new elements are shown in the table below:

# of SDPs	Sync Processing Run Time	IR14 Run Time	IR07 Run Time	IR06 Run Time	Total Time (Sync + IR06)
150,000	01:45:18	00:16:29	00:00:37	02:50:53	04:36:11
340,000	03:25:37	00:30:09	00:00:04	06:10:32	09:36:09
1,140,000	11:54:54	01:39:21	00:02:53	21:08:34	33:03:28

SME Synchronization Testing Update

- Results of synchronization file set submission of a full population are shown in the table below:

# of SDPs	Sync Processing Run Time	IR14 Run Time	IR07 Run Time	IR06 Run Time	Total Time (Sync + IR06)
330,000	13:07:32	02:53:43	00:07:49	06:04:32	19:12:04

SME Synchronization Recommendations

Preferred Approach:

LDCs to submit Incremental Synchronizations with only the 4 required elements for the update to all your existing SDP's
The maximum number of SDP's that can be synchronized in one file with only the 4 required elements is 350,000.

- If your Customer Information System (CIS) cannot accommodate the preferred approach, a Full Population I-Sync containing all new, changed and current attributes of the SDP can be submitted

The maximum number of SDP's that can be synchronized in one file of a full population sync is 100,000.

SME Synchronization Recommendations

- To minimize impact to regular MDM/R operations and ensure compliance with the OEB Order on January 1st,2017, Incremental Synchronization is the only approved method to submit the new or updated elements to the MDM/R for your SDPs.
- Periodic Audit Synchronization is intended to be an audit mechanism and processing times are also considerably larger than that of Incremental Synchronizations hence this is not the method to create new elements for the existing SDPs.

SME Synchronization General Guidelines

- Plan to submit your Incremental Synchronization after 10:00 am to avoid the peak meter read data files processing window.
- For a full population Incremental Synchronization your files can contain any other updates required on your SDP attributes as part of your regular business process, the limit of 100,000 still applies.
- Ensure that you have received the successful IR06 and IR07 reports before a new synchronization file set is submitted to the MDM/R.

Next Steps

- The SME will send a communication August 3rd to provide a status update and confirm the targeted deployment schedule.
- On Friday July 29th, the SME will publish a Quick Take, which will include guidelines for the LDC transition to compliance with the OEB Order and testing recommendations: preparation tasks and sample scenarios.
- The SME has engaged the EDA to coordinate a survey of the LDCs to determine
 1. When will your organization be ready to submit the Incremental Synchronizations with the 4 required fields?
 2. What type of Incremental Synchronization will you be submitting?
- If required, the SME will log -LDC specific- tickets to confirm or arrange your transition plan.

Third Party Access Implementation Plan

Background

- OEB Order EB-2015-0297 requires the SME to prepare an **Implementation Plan**, to be included with its next application for a licence renewal, with respect to third party access to **the enhanced SME data**, including an assessment of the cost implications.

SME Guiding Principles for Third Party Access

Purpose and Governance

- Overarching objective of adding **value to the electricity Customer and the System**
- Maintain perspective and define the project with the **long term in mind**
- Use a **phased-approach** to implementation

No impact to Core Functions

- No impact to current **MDM/R billing** functions
- No impact to current MDM/R **operational reporting**

Privacy by Design

Operational Effectiveness

- Leverage use of **existing systems** as much as possible before building new
- Add **resiliency** to systems as needed
- Create **efficiencies** and **minimize costs**

Data Stewardship

- Commitment to **data quality**
- Commitment to **high service standards**
- Effective **oversight** of the data processes
- **Lifecycle approach** to data management

Development of SME's Implementation Plan

- The **Implementation Plan** will be informed by:
 - Best Practices in Third Party Access from other industries, as applicable
 - Input from stakeholders
 - Recommendations from privacy consultant and the Office of the Information and 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:
 - Guiding principles
 - Governance framework, project scope
 - Processing / adjudication processes, service agreements
 - Types of 3rd party access requests with business processes
 - Project plan, implementation phases, activities & timelines
 - Draft Legal Agreement(s)
 - Post implementation evaluation
 - Costing considerations

Examples of Third Party Data Access

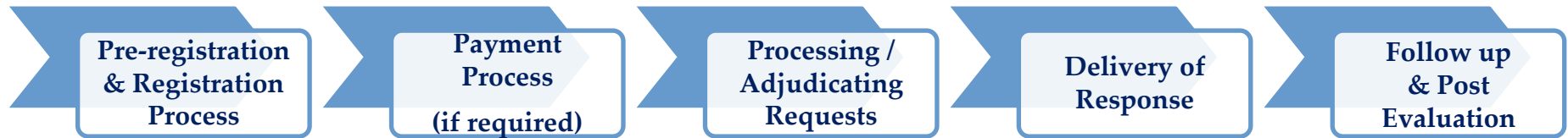
STANDARD

CUSTOM



Reports	<ul style="list-style-type: none"> • Pre-defined data points • Current & historical • Downloadable 	<ul style="list-style-type: none"> • Pre-defined data points • Locations as per user request • Historical timeframe pre-set 	<ul style="list-style-type: none"> • Pre-defined and extensive number of data points • Current & historical
Access	<ul style="list-style-type: none"> • Public reports available through web based access to aggregated data 	<ul style="list-style-type: none"> • Privately shared information with specific users /use (municipalities for community energy planning) 	<ul style="list-style-type: none"> • Public reports • Privately shared information with registered users
Legal	<ul style="list-style-type: none"> • No legal agreements required 	<ul style="list-style-type: none"> • Legal agreements signed (data licensing agreement) 	<ul style="list-style-type: none"> • Legal agreements signed as needed
Cost	<ul style="list-style-type: none"> • No cost to users 	<ul style="list-style-type: none"> • No cost to users 	<ul style="list-style-type: none"> • No cost to users for public reports • Cost recovery per request types
Staffing	<ul style="list-style-type: none"> • Limited organizational structure to support processes 	<ul style="list-style-type: none"> • Minimal organizational structure to support processes 	<ul style="list-style-type: none"> • Evolved organizational structure in place to support processes

Third Party Access Key Operational Processes



- 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

Draft Stages for Project Implementation

Jan 1st 2017 – Start the collection of the additional Data Fields

2017

2018

2019+

STAGE 1

Q1/ Q2 Privacy consultant to validate risk profiles and finalize recommendations, by running “real-data” scenarios

STAGE 2

Q3/Q4 Select third party access pilots to refine processes

STAGE 3

Opening broader access to Electricity Consumption Data for Third Parties

The Enhanced SME Data Set

Data Element	Comments
Consumption Data	Hourly data; aggregated as required
Location by Postal Code	6 or less characters based on risk assessment
Distributor Rate Class	As specified in a data request
Commodity Rate Class	As specified in a data request
Validation of Occupant Status	Consumption of premises with an occupant change for a specific year to be excluded or included as specified in a data request
Number of Premises	Number of premises used to fulfill the data request. Data may not be provided if a data request involves <X number of premises
Other data elements may be used to retrieve the requested data but would not be part of a response (e.g. ORG_ID)	

Examples of valid Data Requests

- Aggregated daily consumption of all Residential-Regular service locations with TOU pricing in Forward Sortation Area “M5H” during the year 2015.
- Individual daily consumption of Residential-Seasonal service locations in Forward Sortation Area “P1P” for the months of June, July, August and December, January, February during the year 2015.*
- Aggregated hourly consumption of all Small General Service locations with Tiered pricing throughout the province for the months of July 2015 and July 2016 with no occupancy change in 2015 and 2016.

* Assumption: There are more than 5 Residential Seasonal locations in P1P

Examples of invalid Data Requests

- Hourly consumption of each Residential-Regular service location on Toronto's Bridle Path with TOU pricing during the year 2015.
- Hourly consumption of each Small General Service location, in Postal Code "M5H 1T1", which had an occupancy change in 2015.*
- Hourly consumption of the premise at 111 Wellesley St W, Toronto
- Hourly consumption of each Residential-Regular service location with a demand > 15kW in Postal Code "M5H 1T1"

* Assumption: There are only 2 Small General Service locations in M5H 1T1

Next Steps

- Continue discussions with other organizations to learn about access models and implementation best practices
- LDCs in WG to provide the SME with examples of 3rd Party data requests that they currently receive
- Finalize Statement of Work details for Phase II of the privacy analysis
- Further stakeholder input and development of the implementation plan with more detailed processes, draft legal agreements (mid to end August)
- Plan refinement and IPC review (by mid September)
- SME to file Licence Renewal application by October 1st

Communications Calendar 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	✓	✓	✓	✓	✓	-	Sept 8	Oct 6	Nov 8	Dec 15	Jan 19
IESO Stakeholder Engagement Website		✓	✓	✓	✓						
IESO Stakeholder Advisory Committee			✓								
IESO Webinars			✓	✓	✓						
IESO LDC Event							NEW – 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

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 & 3 rd Party Access Plan	Documentation & Training		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				

Thank You!