

Smart Metering Entity (SME) License Order Working Group

Excerpts of Meeting No. 2

April 12th, 2016

Update on the contract with a Privacy Consultant

Methodology

- **The conceptual Re-identification Risk Determination includes the following:**
 - Documentation of the data flow
 - Assessment of the data release/sharing context. This assessment is completed using a series of checklists that help define an acceptable threshold for the risk of re-identification
 - The classification of each field in the dataset as a Direct Identifier (DI), Quasi-Identifier (QI), or non-identifier
 - A re-identification risk estimate for the QIs
 - An evaluation of the risk produced by the DIs

QIs Re-identification Risk Estimate Approach

- The estimate of the risk of re-identification will be produced by analyzing the QIs in the data and estimating the identifying power for each.
- The identifying power is estimated using the range of possible values, the level of generalization applied to the values and any known distributions.
- Using information about collection procedures, inclusion/exclusion criteria, context /application of the data flow, population sampling, publicly available information, and the identifying power of information, an estimate of the average risk of re-identification is calculated.

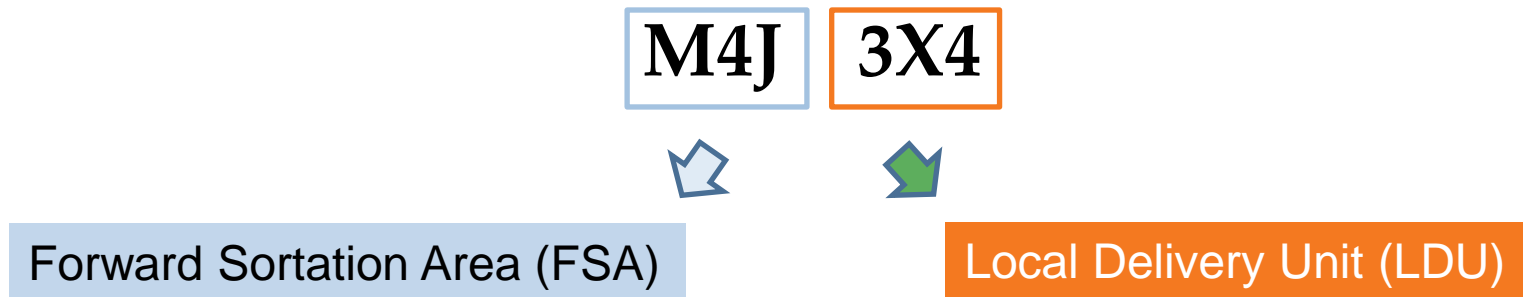
Deliverable

- IESO will provide the data schema and if available, the current dataset sampling, or similar documentation that explains the relationships between the fields and the nature of each field
- Deliverable is a Conceptual Re-identification Risk Determination Report
- The Consultant will deliver a draft of the Phase 1 Conceptual Re-identification Risk Determination Report within forty-five (45) days of execution of the contract

Update on the research related to Postal Codes

What are Postal Codes?

- Six-character alphanumeric string that forms part of a postal address in Canada



- Created by Canada Post to manage the sorting and delivery of mail
- Postal Codes do not correspond to census geography

Postal Code make-up

- A postal code may consist of
 - a single address - an apartment building
 - one or more address ranges - residential neighbourhood
 - PO Box, Lock Boxes and Rural Routes
- Residential & business (includes government and large volume receivers)
- Residential postal codes have approximately 20 households in them (average across Canada)
- Urban (>99%) or rural (<1%)
- Active and retired

Conclusions

- Canada Post and other Vendors offer a for-fee service to translate Lat/Long coordinates to Postal Codes
 - Canada Post and another Vendor are willing to perform a Test Pilot Project with LDCs.
- This can be setup as a recurring service, however the changes may be infrequent depending on the LDC's service area
- Google Maps has several APIs and one is for GeoCoding that includes Reverse Geocoding. However full matching with 6 digits may not be possible for some locations
- The IESO enlisted the help of the EDA to survey LDCs to identify those LDCs that currently only store the GPS coordinates of the service delivery location to ensure they are aware of such services

LDC to MDM/R Data Submission Method

The OEB Order – Collection of Information

- The Smart Metering Entity shall, effective January 1, 2017, collect the following information associated with each meter (modified where necessary to sufficiently render it non-personal information):
 - a. The postal code
 - b. The distributor rate class
 - c. The commodity rate class
 - d. Occupant change data

New SDP Parameter Information – Details

Three new pieces of information to be processed as MDM/R - Service Delivery Point - Parameters:

- SDP Parameter (Distributor Rate Class) + Code
- SDP Parameter (Commodity Rate Class) + Code
- SDP Parameter (Occupant Change) + Value

New SDP Parameter Information - Synchronization

- Adding new Parameter Names to the existing Synchronization Process
 - to effectively meet the information and implementation deadlines
 - to maintain continuity in file processing being done today
- The new Parameters will be related to the Service Delivery Point (not the Meter)
- The new Parameters will be date-effective records (Start Date Time and End Date Time midnight aligned)

Distributor Rate Class Specification

SDP Parameter for 'Distributor Rate Class':

- The Parameter Name (Param Name) will be 'Distributor Rate Class'
- The parameter will be related to the Service Delivery Point – Universal_SDP_ID
- The parameter will be date-effective records (Start Date Time and End Date Time midnight aligned)
- The Parameter Value (Param Value) will be in the form of a code (refer to next slide for values)

Distributor Rate Class Specification – Parameter Value

SDP Parameter Value for Distributor Rate Class:

- For simplicity and clarity, the Parameter Value (Param Value) will be in the form of a Code:

Distributor Rate Class	Param_Value - Code
Residential - Regular	101
Residential - Condo	102
Residential - Seasonal	103
Residential – new sub-class (if requested)	e.g. 104
Small General Service (< 50 kW)	201

Commodity Rate Class Specification

SDP Parameter for 'Commodity Rate Class':

- The Parameter Name (Param Name) will be 'Commodity Rate Class'
- The parameter will be related to the Service Delivery Point – Universal_SDP_ID
- The parameter will be date-effective records (Start Date Time and End Date Time midnight aligned)
- The Parameter Value (Param Value) will be in the form of a code (refer to next slide for values)

Commodity Rate Class Specification – Parameter Value

SDP Parameter Value for Commodity Rate Class:

- For simplicity and clarity, the Parameter Value (Param Value) will be in the form of a Code:

Commodity Rate Class	Param_Value - Code
Time-of-Use (TOU)	101
Tiered	102
Retailer	103
Hourly	104
Net Metered (Future)	e.g. 105

Occupant Change Specification

SDP Parameter for 'Occupant Change':

- The Parameter Name (Param Name) will be 'Occupant Change'
- The parameter will be related to the Service Delivery Point – Universal_SDP_ID
- The parameter will be date-effective (Start Date Time and End Date Time)
- The Parameter Value (Param Value) will always be provided as 'X'. **The important aspect of the Occupant Change is the date of the change.**

Note: the Occupant Change parameter does not impact the meter read data Validation and Estimation functionality or the Billing functionality within the MDM/R.

New Premise Attribute to feed to the MDM/R

- The Postal Code requirement will be handled using the existing MDM/R Premise synchronization file.
- The Premise records are related to the Service Delivery Point – Universal_SDP_ID
- The 'Postal Code' field will be provided with the value as specified as a result of these Working Group sessions.

Meeting Conclusions, Next Meeting Planning

Agreements – Third Party Classifications

POTENTIAL CATEGORIES FOR THIRD PARTY ORGANIZATIONS		
USER GROUP A	USER GROUP B	USER GROUP C
<i>Criteria: Organizations that currently have access to this information or have/would have the legal right to collect/use it for their mandate.</i>	<i>Criteria: Federal, Provincial or Municipal organizations requiring this information to better carry their activities and/or with non-for-profit interest for the data and/or with low risk of data re-identification.</i>	<i>Criteria: Organizations with commercial interest for the data set or with access to other data that elevates the risk of re-identification or represents a significant un-known risk.</i>
Ontario Energy Board	Crown Corporations (e.g. Statistics Canada)	Vendors
Ministry of Energy	Academia/Research Institutions	Retailers
IESO (for areas outside of the SME)	Municipalities	International Organizations
LDCs (Regulated) for information pertaining to their existing customers	Regional Planners	Generators
	Municipal Property Assessment Corporation - MPAC	Transmitters
		Other Market Participants
		Other Private Organizations
		LDCs for information pertaining to other LDC's data
		Conservation Authorities

Agreements – Commodity Rate Class Parameter Values

SDP Parameter Value for Commodity Rate Class:

- For simplicity and clarity, the Parameter Value (Param Value) will be in the form of a Code:

Commodity Rate Class	Param_Value - Code
Time-of-Use (TOU)	101
Tiered	102
Retailer	103
Hourly	104
Net Metered (MicroFit & Net Metered)	105

Agreements – Distributor Rate Class Parameter Value

SDP Parameter Value for Distributor Rate Class:

- For simplicity and clarity, the Parameter Value (Param Value) will be in the form of a Code:

Distributor Rate Class	Param_Value - Code
Residential - Regular	201
Residential - Condo	202
Residential - Seasonal	203
Residential – new sub-class (if requested)	e.g. 204
Small General Service (< 50 kW)	301

Agreement – Action Items

- The SME will:
 - Finalize the minutes of Meeting #1 and post to WatchDox.
 - Publish a draft Technical Specifications for the additional fields
 - Finalize the contractual agreement with the Privacy Consultant
 - Provide the agreed upon Third Party Classification to the Consultant
 - Publish the draft minutes of Meeting #2

Agreement – Action Items

- The EDA will:
 - Distribute the approved minutes of Meeting #1 to the broader LDC community
 - Conduct a survey to identify LDCs who currently use Lat/Long as a premise location. Those LDCs will then be informed of the services available to translate Lat/Long to full Postal Codes
- The OEB will:
 - Confirm the Effective Start Date for the new fields