

SE-113 Updates to Meter Data Distribution

August 7, 2014



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The stakeholder engagement will focus on three project phases:

1. **Design** (October 2013 – July 2014)
 - Stage 1: Viewing/retrieving information (reopened)
 - Stage 2: Application of losses and estimation
 - Stage 3: Design for viewing/retrieving information
2. **Testing** (June 2014 – February 2015)
 - Market Participant Readiness test plan TBD
3. **Implementation** (Q2 - 2015)
 - In service



- Replacement of MV-WEB: Method of Retrieving Data
 - The MV-WEB system will be replaced with the Meter Data Distribution for MPs solution.
 - MV-WEB requires that participants submit a request to pull data from the system.
 - The IESO has proposed to instead automatically push the data in report form in the new system, similar to the current presentation of documents such as settlement statements in the IESO Confidential Reports site.
 - The reports could be retrieved by the participant at any time.
 - The proposed method would maintain current MV-WEB data access rights.

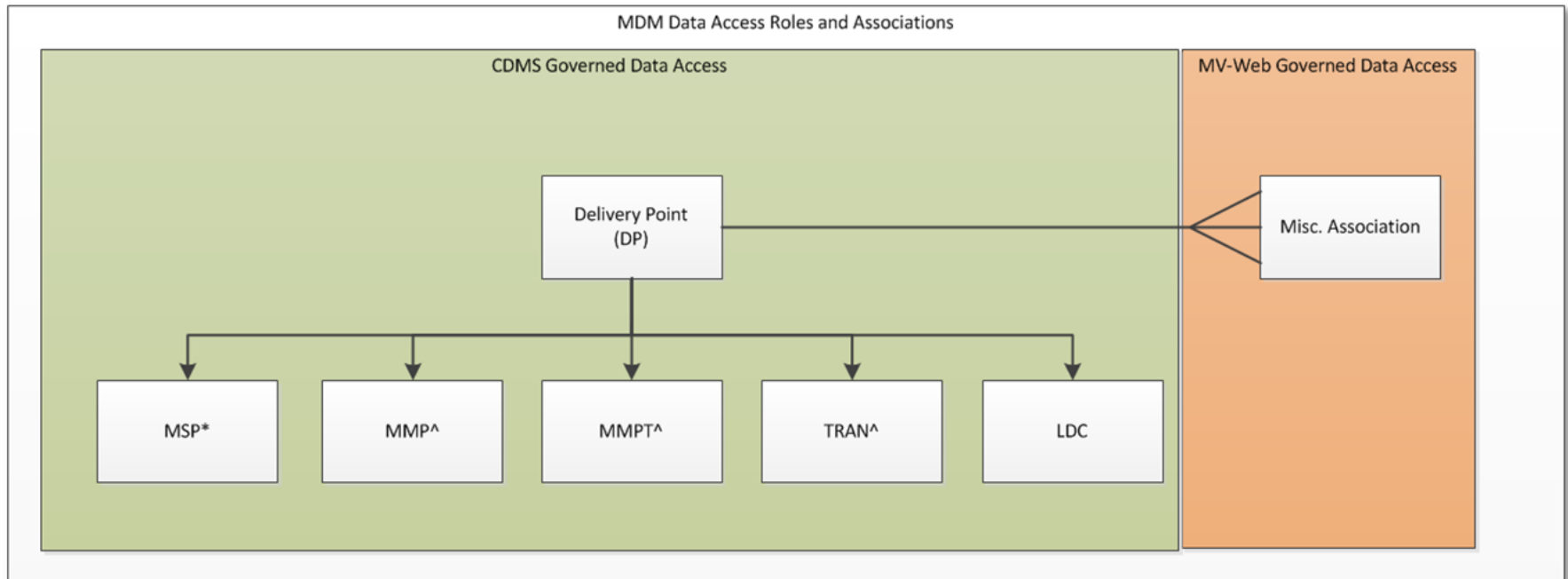
- Replacement of MV-WEB: Method of Retrieving Data (Continued)
 - The IESO intends to continue providing the existing EDI format for all data and reports (CSV will not be provided).
 - Some stakeholders expressed concern that the proposed “push” approach might impact LDCs’ ability to submit monthly embedded generation data (“form 1598”) to the IESO on time. The IESO will create a new monthly AQEW AQEI report to alleviate this concern.

- In the proposed new system, participants would add and manage their own contacts through the Online IESO tool.
- The IESO launched this tool in September 2013 to automate certain registration requests, including:
 - Registering and updating contacts online
 - Requesting system access
 - Updating and viewing information for each company
- In the near future, Online IESO will allow participants to maintain meter and facility registrations.
- More information on Online IESO can be found at <http://www.ieso.ca/Pages/Participate/Registration/Registration-System.aspx>

In Online IESO, an organization's:

- **Applicant Representative** is responsible for managing participation contacts at your organization using the 'Update Organization' action on Online IESO.
- **Revenue Meter Data** contact will be a new participation contact role that will be automatically granted access to the IESO Reports site to view and download metering data. The Applicant Representative will assign persons to the Revenue Meter Data contact role.
- **Rights Administrator** will continue to be responsible for managing machine (API) accounts for your organization. They will use the 'Manage System Access' action on Online IESO to register API accounts and assign the appropriate access role(s).

- Currently, MV-WEB gives participants the ability to grant other participants access to specific Delivery Points (DPs) for a user-defined time period (a.k.a. MV-WEB Associations).
- Customer Data Management System (CDMS) manages Participant and DP relationships such as MMP, MMPT, MSP, TRAN, LDC.
- The figure on the next slide illustrates the IESO systems managing these access privileges.



Transfer of MV-WEB Associations

- The existing MV-WEB Associations will be migrated to CDMS when the proposed new MDM system goes live.
- They will be carried over as a new relationship in Online IESO called “Meter Data Associate” (MDA).
- MMPs will be able to assign MDA relationships for Energy DPs.
- MMPTs will be able to assign MDA relationships for Transmission DPs.
- Organizations that intend to be assigned as an MDA for a DP must go through the “Manage Participation” process. This will be discussed in a subsequent SE-113 session.

- In the future, an organization's Applicant Representative(s) will be able to manage MDA relationships through Online IESO as part of the Facility Registration Automation project.
- Participants must submit requests to add/change MDA relationships to the IESO during the transition period until corresponding Online IESO functionality is available. This will be discussed in a subsequent SE-113 session.

- Meter data profiles (MDPs) allow participants to personalize the data they receive through the IESO Reports site, including:
 - Totalized Delivery Point Data (with Losses or without Losses)
 - Totalized Summary Meter Data (with Losses or without Losses)
 - Totalized Meter Point Data (with Losses or without Losses)
 - Validated Meter Point Data
- One MDP will be provided for each participation (formerly known as role).
 - E.g. Power Corp is both an MMP and an MMPT. Power Corp has two MDPs, one for the MMP participation and one for the MMPT participation

- Applicant Representatives will be able to manage MDPs through Online IESO in the future.
- The following MDPs will be assigned by default:
 - Participants with MMP participation: The latest “CURRENT” version of totalized energy DP meter data with losses will be published.
 - Participants with MMPT participation : The latest “CURRENT” version of totalized transmission DP meter data with losses will be published.
- Participants will be able to test Meter Data Profiles through Online IESO during Market Participant Readiness Testing.

- Instead of replicating the MV-WEB reports, the IESO would publish the following Meter Data Reports as Confidential Reports on the IESO Reports site:
 - Monthly LDC AQEW AQEI
 - Validated Meter Data
 - Totalized Meter Data (with or without losses)
- We request your feedback regarding the proposal to publish only the reports identified above; the MV-WEB graphical reports will not be published with the new solution.
- The three reports would be made available on the site based on the assigned participation(s) of each organization (i.e. MMP/MMPT/LDC/TRAN/MSP/MDA role).

- E.g. if Power Corp is both an MMP and an MMPT, then Power Corp would have two Meter Data folders, one for their MMP participation and one for their MMPT participation:



<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory		-	
 Monthly-LDC-AQEW-AQEI/	02-Jul-2014 17:56	-	Monthly LDC AQEW and AQEI Report
 TMD-MMP/	04-Jul-2014 09:46	-	Totalized Meter Data File
 TMD-MMPT/	04-Jul-2014 09:46	-	Totalized Meter Data File
 VMD-MMP/	04-Jul-2014 09:46	-	Validated Meter Data File
 VMD-MMPT/	04-Jul-2014 09:47	-	Validated Meter Data File

- The monthly AQEW AQEI report will provide LDCs with DP meter data for use in their monthly embedded generation data submissions, using the CURRENT version with losses.
- Report Details:
 - Document Identifier (Also the folder name on the IESO Reports Site): Monthly-LDC-AQEW-AQEI
 - Format: XML
 - Naming: *CNF-MP SHORT NAME_Monthly-LDC-AQEW-AQEI_YYYYMM_v1.xml*
 - Versioning: one version per month
 - Publishing Frequency: Monthly on the 2nd calendar day after the end of the previous month
 - Retention Period: 90 days

Created at May 2, 2014 07:00:00
For April 2014
MP999999 - XYZ Corp

For the Period April 1, 2014 to April 30, 2014

Delivery Point	Allocated Quantity of Energy Withdrawn (kWh)	Allocated Quantity of Energy Injected (kWh)
123456	17000	
123457		19000
123458	20000	
123459	14000	
123460	17000	10000

* This report is not meant to replace the information currently found through the market participant settlement statements and invoices. In the event of any disagreement between this report and the established settlements process, the settlements process results will prevail.

- The most recent validated meter point interval data will be made available.
- Report Details: Document Identifier (Also the folder name on the IESO Reports Site): VMD- Contract Role
 - Format: EDI867
 - Naming: CNF-MP SHORT NAME_VMD-MMP_YYYYMMDD_v1.edi
 - Versioning: TBD – more information will be provided in subsequent SE-113 sessions
 - Publishing Frequency: Daily containing data for yesterday's Trade Date
 - Retention Period: 90 Days

- Sample Report:

```

ISA*00*                *00*                *ZZ*0                *ZZ*999999          *140704*0837*U*00401*8888888 *0*P*
GS*PT*0*999999*20140704*0837*8888888*X*0040101
ST*867*0001
BPT*00*8888888*20140704*C1*****XYZ_VMD-MMP_20140326
N1*8S*Independent Electricity system Operator*ZZ*0**41
N1*SJ*XYZ*ZZ*999999**40
REF*LU*1000099999
PTD*PM***OZ*EL
REF*6W*1*
REF*LU*1000099999*
REF*MG*000002*
REF*MT*KH005*
QTY*QD*490.57*KH
MEA**MU*24000.0*KH***22
DTM*150****DT*201406260000
DTM*151****DT*201406260005
QTY*QD*487.3*KH
QTY*QD*485.74*KH
QTY*QD*490.73*KH
QTY*QD*490.49*KH
QTY*QD*487.41*KH
QTY*QD*486.99*KH
QTY*QD*488.31*KH
QTY*QD*486.19*KH
QTY*QD*479.14*KH
QTY*QD*482.24*KH
QTY*QD*479.05*KH
QTY*QD*480.24*KH
QTY*QD*486.56*KH
QTY*QD*476.9*KH
QTY*QD*480.58*KH
QTY*QD*472.21*KH
QTY*QD*477.84*KH
QTY*QD*480.71*KH
QTY*QD*480.41*KH
QTY*QD*484.23*KH
QTY*QD*485.34*KH
QTY*QD*485.33*KH
QTY*QD*484.4*KH
QTY*QD*484.82*KH
QTY*QD*485.68*KH
QTY*QD*490.62*KH
QTY*QD*498.72*KH
QTY*QD*487.98*KH
QTY*QD*486.16*KH
QTY*QD*487.15*KH
QTY*QD*487.70*KH

```

- The most recent version of CURRENT totalized meter interval data will be made available based on the Meter Data Profiles selected by participants.
- Report Details:
 - Document Identifier(Also the folder name on the IESO Reports Site): TMD-Contract Role
 - Format: EDI
 - Naming: CNF-MP SHORT NAME_TMD-MMP_YYYYMMDD_v1.edi
 - Versioning: Revisions to the report will be provided as data changes
 - Publishing Frequency: Daily containing data for Trade Date two calendar days ago until the Final settlement for the Trade Date
 - Retention Period: 90 Days

- Sample Report:

```

ISA*00*                *00*                *ZZ*0                *ZZ*999999          *140702*1401*U*00401*8888888 *O*P
GS*PT*0*999999*20140702*1401*8888888*X*0040101
ST*867*0001
BPT*00*8888888*20140702*C1*****XYZ_TMD-MMP_ALLDP_20140626
N1*85*Independent Electricity System Operator*ZZ*0**41
N1*SJ*XYZ*ZZ*999999**40
REF*LU*777777
PTD*PM**OZ*EL
REF*6W*1*
REF*LU*777777*
REF*MG*777777*
REF*MT*KH005*
QTY*QD*34.25*KH
MEA**MU*1.0*KH**22
DTM*150***DT*201406260000
DTM*151***DT*201406260005
QTY*QD*35.95*KH
QTY*QD*36.5*KH
QTY*QD*37.75*KH
QTY*QD*35.96*KH
QTY*QD*35.65*KH
QTY*QD*34.29*KH
QTY*QD*35.2*KH
QTY*QD*35.08*KH
QTY*QD*34.65*KH
QTY*QD*34.44*KH
QTY*QD*32.79*KH
QTY*QD*33.27*KH
QTY*QD*34.46*KH
QTY*QD*36.14*KH
QTY*QD*33.9*KH
QTY*QD*34.23*KH
QTY*QD*34.68*KH
QTY*QD*35.86*KH
QTY*QD*34.84*KH
QTY*QD*35.28*KH
QTY*QD*35.3*KH
QTY*QD*35.88*KH
QTY*QD*33.99*KH
QTY*QD*35.18*KH
QTY*QD*36.52*KH
QTY*QD*34.83*KH
QTY*QD*34.39*KH
QTY*QD*34.82*KH
QTY*QD*37.44*KH
QTY*QD*36.83*KH
QTY*QD*36.54*KH
QTY*QD*34.84*KH
QTY*QD*36.29*KH
QTY*QD*36.43*KH
QTY*QD*35.77*KH
QTY*QD*35.29*KH
QTY*QD*35.32*KH
QTY*QD*34.98*KH
QTY*QD*34.42*KH
QTY*QD*35.32*KH

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- Will your organization require guidance from the IESO to process the data received through the proposed new system to replicate the graphical reports received through MV-WEB?
 - And if so, which MV-WEB reports? (See appendix B for a complete list)
- What is your preferred format for training? (via recorded presentation, Web-Ex, on-site, etc.)
- Do you have a business need to retrieve validated or totalized meter data older than 90 days?
 - And if so, how often does this need arise? How quickly do you require the historical information to meet your business needs?
- Do you have a business need to be able to retrieve prior versioned Validated Meter Data Reports? Or do you only require the most current version of the Validated Meter Data Report for a given Trade Day?

- Please provide your questions and feedback to stakeholder.engagement@ieso.ca by Tuesday, August 12.
- For more information please see the Settlement Meter Data Applications Working Group (SE-113) web page <http://www.ieso.ca/Pages/Participate/Stakeholder-Engagement/SE-113.aspx>



API: Application Programming Interface

DP: Delivery point

EDI: Electronic Data Interchange

LDC: Local Distribution Company

MDA: Meter Data Associate (a.k.a MV-WEB Association)

MMP: Metered Market Participant – Energy Market

MMPT: Metered Market Participant – Transmission Tariff

MSP: Metering Service Provider

TRAN: Transmitter

- Peak Day
- 24-Hour Profile
- Detail Profile
- Daily Peaks
- Daily Totals
- KVA/Power Factor
- Peaks Report
- Statistics Report
- Comparison Graph