

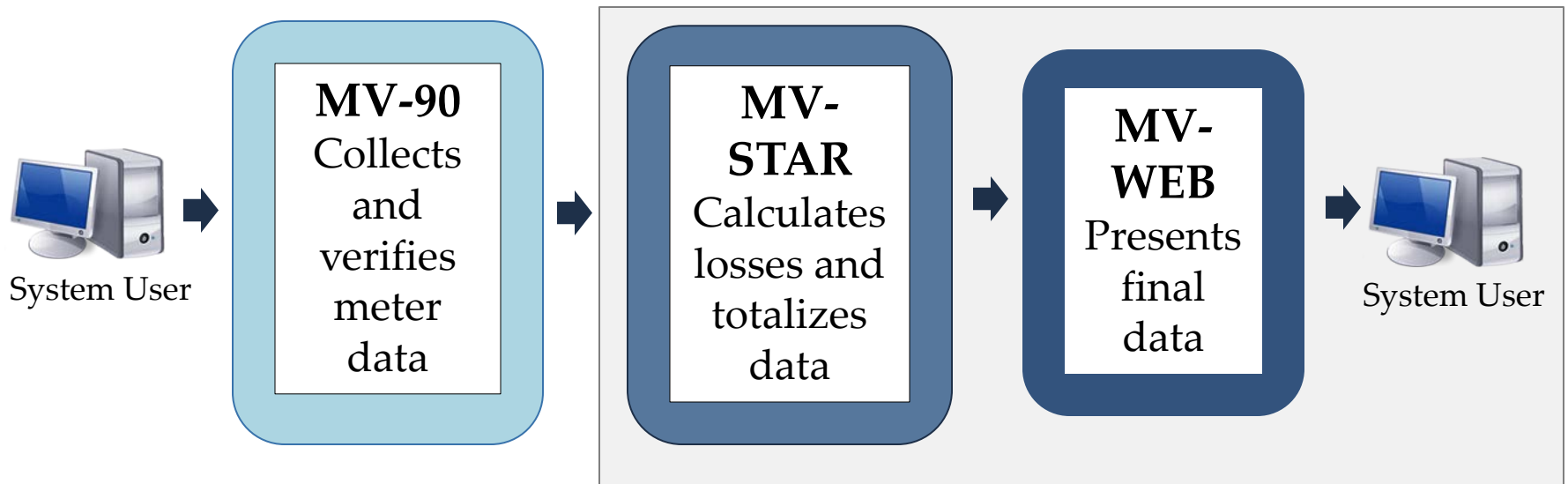
Settlement Meter Data Applications Working Group (SE-113)

Stakeholder Meeting #2
October 31, 2013

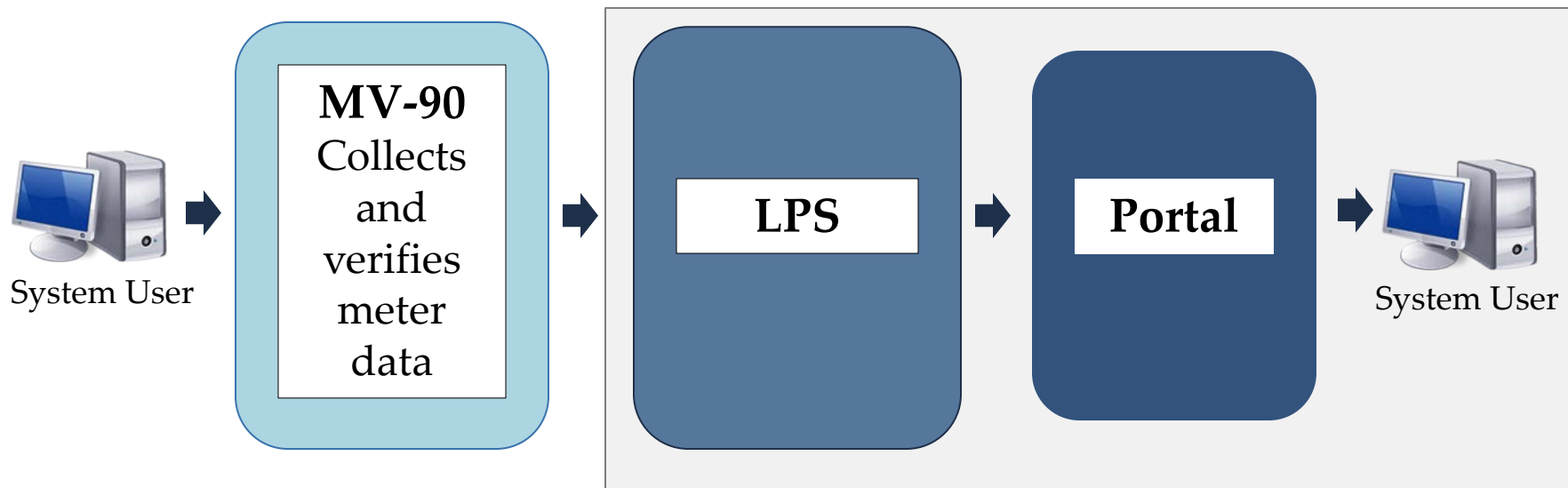


- Overview of Project
- Overview of Phase 1 Changes
- Survey Results
- Review of Approach and Timing
- Meter Data Availability
- Meter Data Versions
- Next Steps
- Questions

Currently, the IESO's Revenue Metering System consists of:



The proposed new system would consist of:



- Oracle LPS is replacing MV-Star. The IESO Portal will provide access for participants to Oracle LPS (similar to MV-Web – MV-Star data access).
- Oracle LPS provides capability to handle the increasing volume of meters, increased demand for data, and efficiencies for IESO Settlement staff in day to day work

- There were 12 survey respondents – 3 distributors, 3 service providers and 6 generators.
- All but one of the respondents had individual rather than automated retrieval program accounts.
- The data viewing settings in MV-Web were rarely used, except for the table feature, which “offers a greater level of detail”.
- The selection parameter settings are useful in identifying and filtering data related to exact delivery points, as well as “metering point data type, loss information and total usage in the selected date range”.
- Peak Day and Daily Peaks are the only MV-Web reports that respondents access regularly.

The stakeholder engagement will focus on three project phases:

1. Design (October 2013 – January 2014)

- Stage 1: Viewing/retrieving information
- Stage 2: Application of losses and estimation

2. Testing (Early 2014 – Late 2014)

- Market trial testing strategy TBD

3. Implementation (end of 2014)

- In service

Current Process:

Meter Data

- System users can access stored validated meter data from MV-STAR after 7 AM, via MV-WEB or FTP (EDI/Text File Formats) for the previous Trade Date (TD)

Calculated Delivery Point (DP) Data

- System users can access DP data calculated by MV-STAR on demand, anytime after 7 AM, via MV-WEB or FTP for the previous TD

Proposed Process:

Meter Data

- System users will be able to access stored validated meter data from LPS after 7 AM, via Portal or automated retrieval program for the previous Trade Date.
 - No impact to current process

Calculated DP Data

- System users will be able to access calculated “current” version DP data in two calendar days past the Trade Date. For example: For meter data collected on October 31st for Trade Date October 30th, calculated “current” version DP data will be available on November 1st.
 - Change to current process

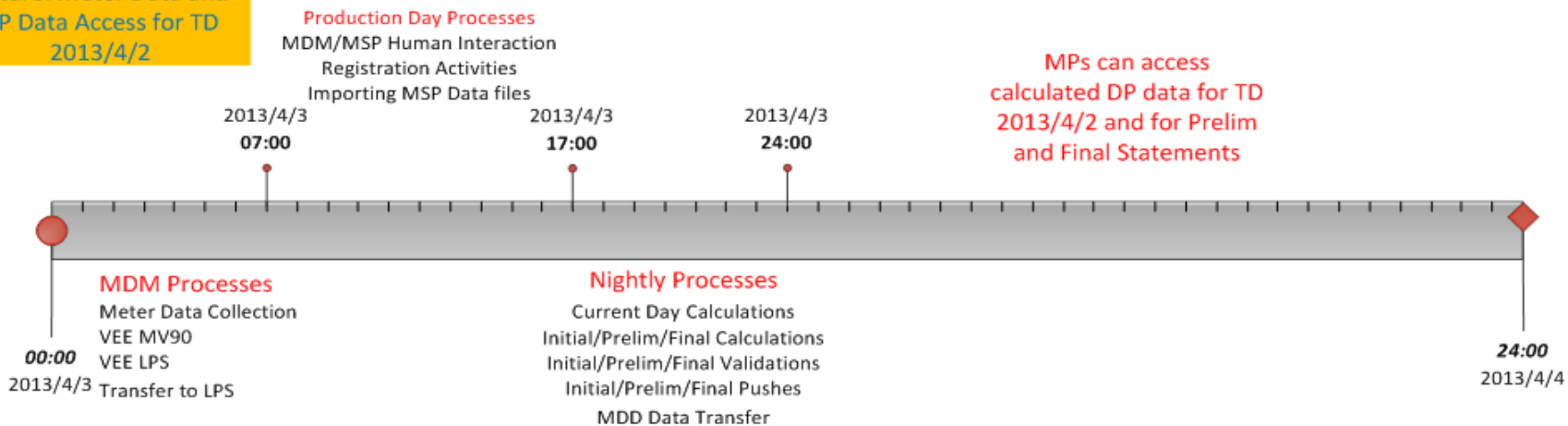
Summary of system and user processing activities for the current MDM and the future MDM system for the previous Trade Date

Process	Current Systems	Current Time	New Systems	New Time	Change
Meter Polling	MV90	12 AM – 5 AM	MV90	12 AM – 5 AM	No
VEE	MV90	12 AM – 7 AM	LPS	5 AM – 7 AM	Yes (start time only)
Meter Data Availability	MV-STAR/MV-WEB/FTP	After 7 AM (on demand)	LPS/Portal/API	After 7 AM (on demand)	No
Daily User Processing	MV90/MV-STAR/MTR	7 AM – 3:30 PM	MV90/LPS/MTR	7 AM – 5 PM	Yes (end time only)
Calculated DP Data Processes	MV-STAR	3:30 PM – Midnight	LPS	5 PM – Midnight	Yes
Calculated DP Data Availability	MV-STAR/MV-WEB/FTP	After 7 AM (on demand) for yesterday and after 3:30 PM for settlement statement push	LPS/Portal/API	Next Calendar Day	Yes

Current: Meter Data and DP Data Access for TD 2013/4/2



Future: Meter Data and DP Data Access for TD 2013/4/2



Current Process:

Meter Data

- System users can access any version of meter data present in MV-STAR (MV-STAR only has validated versions of meter data, that has passed VEE in MV90.)
- System users can also access any associated meter data flags (Ex: PO, LA, etc.), and identify the data status ('actual', 'estimated', 'edited', etc.)

DP Data

- For calculated DP data there are no versions today– only one "current" version calculated by MV-STAR on demand (not stored).

DP Data, cont'd

- Calculated data can be viewed with or without losses at the Meter/Summary Meter level, but only with losses applied at the DP level
- Post-Final data versions are calculated and stored in separate offline systems, and provided to system users manually by IESO as necessary
- Calculated DP data in MV-STAR uses a hierarchy of data "statuses" ('actual', 'estimated', 'edited', etc.), where the "lowest" contributing status is used (Ex: 'estimated' and 'actual' becomes 'estimated', etc.)

Proposed process:

Meter Data

- Only validated versions of meter data stored in LPS will be available for system users.
 - No impact to current process
- LPS will store any associated meter data flags from MV90 (e.g. PO, LA, etc.), and also store an LPS data status ('actual', 'estimated', 'edited', etc.)
 - No impact to current process

DP Data

- Up to 4 versions for 1 TD:
- “Current” DP data version (daily starting on TD+2CD until RMS Final Push; “Current” eventually becomes “Final”)
- “Initial” DP data version (for Initial RMS push)
- “Preliminary” DP data version (for Preliminary RMS push)
- “Final” DP data version (for Final RMS push)
- “Post-Final” DP data versions (available after Post-Final calculations are run; only the last “Post-Final” DP data version that is used for settlement will be available to system users
 - Change to current process

DP data, cont'd:

- Every version of calculated DP data in LPS will be stored with and without losses (at the Meter/Summary Meter/DP level).
 - Change to current process
- If the contributing Meters/Summary Meters have different data statuses (Ex: 'actual' and 'estimated'), a "Combined" status will be used.
 - Change to current process

Please send your comments to:

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