

### Market Results Interface – Settlements User Interface 2017 Metering Enhancements

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#### Agenda

- Objective
- Terms and acronyms
- Market Results Interface Settlements (MRI-S)
  - User access/roles
  - Enhanced Functionality
- Review of settlements timelines



#### Objective

Given an overview of the Market Results Interface – Settlements User Interface (MRI-S UI) metering enhancements, be able to:

- Describe user roles and how to provision for them
- Submit, view and export Settlement Quality Meter Data (SQMD)
- Identify MRI-S UI enhancements
- Adhere to settlements timelines





### **Terms and Acronyms**



### Terms & Acronyms

Acronym	Description					
AIM	Access and Identity Manag	ement				
API	Application Programming Interface					
Authorized ACL Group	The Authorized ACL Group section displays a list of the Access Control List/Level (ACL) groups that isolate and grant access to a single asset (or group of assets). <i>This group only has read only access</i> .					
CIM	Common Information Model					
СМА	Common Multiple Application					
CSV	Comma Separated Value					
ECN	Electronic Communication Network					
Flowgate	Any schedule flow between space, an intertie and/or cit Physical path between BA(	two substations. In the metering igate is referred to as a flow gate. s) (i.e. Intertie)				
FTP	File Transfer Protocol	In the MRI-S application, flowgate is				
GMT	Greenwich Mean Time	synonymous with intertie				
ISOME	ISO Metered Entity					



### Terms & Acronyms

Acronym	Description				
LDAP	Lightweight Directory Access Protocol				
MDEF	Veter Data Exchange Format				
MPP	Market Participant Portal				
mRID	Market Resource. Resource ID as defined in the CAISO Master File.				
MRI-S	Market Results Interface - Settlements				
NMS	New Metering Solution				
OMAR	Operational Meter Analysis and Reporting				
PDT	Pacific Daylight Time				
РРТ	Pacific Prevailing Time				
PST	Pacific Standard Time				
RQMD	Revenue Quality Meter Data				
SC	Scheduling Coordinator				
SCID	Scheduling Coordinator ID				
California ISO	ISO PUBLIC © 2017 CAISO	Slide 6			

### Terms & Acronyms

Acronym	Description					
SCME	Scheduling Coordinator Metered Entity					
SQMD	Settlement Quality Meter Data					
UAA	User Access Administrator. This terminology replaces the term Point of Contact (POC) to better reflect the role of the person responsible for administering the user access for their organization. The UAA will have to sign the UAA agreement through DocuSign. The agreement is sent to the signer and to the UAA Requests mailbox at UAARequests@caiso.com.					
UI	User Interface					
XML	Extensible Markup Language					
XSD	XML Schema Definition					





# Market Results Interface – Settlements User Interface (MRI-S UI) ... what is it?



#### **MRI-S** purpose

**MRI-S** for Settlements

 Web-based application that allows users to locate and export settlement files, such as bill determinants, invoices and configuration output

#### MRI-S for Metering

- Enhancement to this web-based application that allows users to upload, filter, view and export settlement quality meter data (SQMD)
  - Meter data screens in MRI-S used for settlements purposes according to the settlements timeline





### What has changed?



#### Change reminder - 2016 Fall Release

- ✓ Two user roles
- ✓ Utilize CMA certificate separate certificate is not required
- ✓ Two screens Meter Data and Batch Status
- ✓ Versioning
- ✓ Timeline: no longer submitting late meter data forms
- ✓ Error codes
- ✓ Submission methodologies
  - ✓ API vs UI
  - ✓ FTP no longer being used (replaced by API)
- ✓ Submission formats
  - ✓ GMT instead of PPT (PPT = PDT/PST)
  - ✓ CSV or XML
  - ✓ mRID vs. MSID



Current enhancements - 2017 Independent Release

- Updated Acceptable Use Policy
  - Max meter data submission  $10MB \rightarrow 15MB$  uncompressed
  - Max meter data retrieval from 100,000 records to 200,000
- Two new columns to specify Interval End Time
   GMT & PPT times
- Additional filtering capability:
  - Interval Length, Unit of Measurement, etc.
- Settlement Data displayed on separate grid
- SCID/ACL group specified for the 'receive request' ensured to be provisioned to the user
- Batch status sequence updates
  - Pending, Warning, Error, Success





# Manage User Authentication and Authorization & Application Configuration



#### **Application Access**

 Users must be provisioned for access to Market Participant Portal page in order to participate in market simulation



#### Request authorization for access

 Request application access from designated User Access Administrator (UAA)

http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx



 Access to MRI-S is managed using the Access and Identity Management (AIM) application



Digital Certificates – Common Multiple Application (CMA)

- Before the MRI-S UI application can be displayed, user is required to select the respective CMA digital certificate for authentication.
  - Does the user already have a CMA certificate?
    - Yes user does not need to request access to MPP
    - No UAA requests access for MPP & MRI-S

(refer to AIM User Guide & AIM training on ISO website)

**OMAR certificates are not transferable to MRI-S** 

#### OMAR:

SC limited to 10 users 3<sup>rd</sup> party entities limited to 5 users UI:

Unlimited users – request for as many users as you like



Benefit!

Manage application configuration

- Internet Explorer 11 (IE11) is recommended for support purposes
- Check compatibility to ensure successful uploads:
  - Tools → Compatibility View settings → Uncheck Display internet sites in Compatibility View box → Close → Re-open application

Delete browsing history	Ctrl+Shift+Del	Compatibility View Settings
InPrivate Browsing	Ctrl+Shift+P	
Turn on Tracking Protection		Change Compatibility View Settings
ActiveX Filtering		
Fix connection problems		
Reopen last browsing session		Add this website:
Add site to Start menu		
View downloads	Ctrl+J	
Pop-up Blocker	•	Websites you've added to Compatibility View:
SmartScreen Filter	•	
Manage add-ons		
Compatibility View settings		
Subscribe to this feed	45	
Feed discovery	►	
Windows Update		-
Performance dashboard	Ctrl+Shift+U	
F12 Developer Tools		
Fiddler2		
OneNote Linked Notes		Display intranet sites in Compatibility View
Lync Click to Call		Use Microsoft compatibility lists
Send to OneNote		Loop percent and the Internet Evaluation and
Edit with Altova XMLSpy		Learn more by reading the <u>internet explorer privacy sta</u>
Sun Java Console		
Report website problems		
Internet options		





# **User Roles**



#### Manage user roles

- Two user roles:
  - -Meter Write
  - -Meter Read

Two screens:
 – Meter Data
 – Batch Status





#### **User Roles in MRI-S**

#### View is dependent upon user role



#### Manage user roles

#### Meter Data

- View, filter and export page contents from grid views\*
  - Meter Data & Settlement Data
- Use Manage User Filters functionality

**Batch Status** 

Meter\_Read users **cannot** see this screen

- Upload file, view sort and filter Batch IDs
- Export content from Batch ID(s) & Batch Error from grid views
- Upload batch files via API or UI

\*Meter Read users will not be able to export meter data from the grid view & will not be able to see batch status information screen



#### Two screens

alifornia 🥝	ISO Market Results Interface - Settlements 👝 📾 📾 🔿 🗵 🔿 🗛 🛶	
Meter Data Batch Status		
Date From: 03/14/2 Measurement Typ: [ALL]	1017       11       To:       03/14/2017       11       SCID/ACL Group:       [ALL] ♥ E Resource:       [ALL] ♥ UOM:       MWH ♥ Interval Length:       [ALL]         ▼       Resource Type:       [ALL] ♥       User Filter:       [ALL] ♥       User Filter Resource:       [ALL] ♥       Update SinceDateTime:       11	Apply Reset
Manage User Filters		
Meter Data ≫ ⊑	Rows 25 V Figure Current Previous Trade Date V Trade Date V	I <b>ent Data</b> /ersion
X No Data found		
	Select the tab to access screens	
	<ul> <li>Defaults to Meter Data screen if you only have Meter Data and Batch Status screens</li> </ul>	





# Managing Meter Data

Meter Data Screen



Two screens – Meter Data	Refer to MRI-S Metering User's Guide for more information on functionality
🍣 California ISO 🛛 Market Results Interface - Settlements 🛛 🛖 🖶 🕾 🕫 🖉 🚽	
Meter Data Batch Status	
Date From:       03/14/2017       II       To:       03/14/2017       II       SCID/ACL Group:       [ALL]       II       Resource:       [ALL]       UOM:       MWH         Measurement Type:       [ALL]       Resource Type:       [ALL]       User Filter:       [ALL]       User Filter Resource:       [ALL]       Update SinceDateTime:	Interval Length: [ALL] V Apply Reset
Manage User Filters	
Meter Data	Settlement Data
* 🗉 Row	/S 25 🔽 🖈 🔚
Current Pre	vious Trade Date Version A Value Quality
Trade Date 🔋 Interval End Time GMT Interval End Time PPT Interval Length Interval ID 🥱 Resource ID 🍷 SCID Measurement Type Resource type Value Quality Batch Id Value Qua	lity Batch Id
X No Data found	
Note: Settlement data is populated only when meter interval length is specified as 5 minutes.	

### **Meter Data**

- Filter data
- Retrieve SQMD (includes versioning)
  - Export page contents
  - Manage User Filters





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Market Results Interface - Settlements 🛛 🛖 👼 🤁 🖉 🔿

Meter Data	Batch Status										
Date From:	03/14/2017	31 To:	03/14/2017 31	SCID/ACL Group	: [ALL] 🔽 🗄	Resource:	[ALL] VOM:	]	MWH V Interval	Length: [ALL] 🗸	Apply Reset
Measurement	t Type: [ALL] 🗸	Resource Type:	[ALL] 🗸	User Filter:	[ALL] 🗸	User Filter Resource:	[ALL] VDdat	te SinceDateTime:	31		
Manage U	ser Filters										
Meter Da	ata									Settlement D	ata
* 5									Rows 25 🗸	* 8	
								Current	Previous	Trade Date Version	Value Quality
Trade Date	Interval End Time G	GMT Interval End Time	PPT Interval Lengt	h Interval ID 🛛 👇	Resource ID	SCID Measurement Ty	pe Resource type	Value Quality Batch	n Id Value Quality Batch Id		
× No Data fo	und										

Note: Settlement data is populated only when meter interval length is specified as 5 minutes.

Enhancement: MRI-S will maintain 2 versions for a given data set:

- Current (default if no version is specified)
- Previous
  - MRI-S <u>WILL NOT</u> maintain all versions

Users can submit as many versions as they like until T+172B, however SC are subject to Rules of Conduct if data is submitted after T+48B



#### Settlement Data grid

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Market Results Interface - Settlements 🛛 🛖 👼 🤁 🖉 🚽

Meter Data Batch Status	
Date From:       03/14/2017       To:       03/14/2017       SCID/ACL Group:       [ALL]       E Resource:       [ALL]       UOM:       MWH       Importance         Measurement Type:       [ALL]       Resource Type:       [ALL]       User Filter:       [ALL]       User Filter Resource:       [ALL]       UpdateSinceDateTime:       [August 1]	terval Length: [ALL] V Apply Reset
Manage User Filters	
Meter Data	Settlement Data
x E Rows 2	
Current Previous	Trade Date Version 🐣 Value Quality
Trade Date Interval End Time GMT Interval End Time PPT Interval Length Interval ID 💠 Resource ID 💠 SCID Measurement Type Resource type Value Quality Batch Id Value Quality Ba	tch le
X No Data found	

Note: Settlement data is populated only when meter interval length is specified as 5 minutes.

#### **Enhancement:**

This grid shall display the settlement values that were published according to the settlement timelines for the respective resource



#### Settlement Data grid

California ISO Market Populte Interface - Settlemente

Meter Data Batch Status	
Date From:       03/14/2017       To:       03/14/2017       SCID/ACL Group:       [ALL] V I:       Resource:       [ALL] V UOM:       MWH V       Interval         Measurement Type:       [ALL] V       Resource Type:       [ALL] V       User Filter:       [ALL] V       User Filter Resource:       [ALL] V       Update SinceDateTime:       [ALL] V	I Length: [ALL] V Apply Reset
Manage User Filters	
Meter Data	Settlement Data
🖈 🖻 Rows 💵	* 2
Current Previous	Trade Date Version 🔺 Value Quality
Trade Date Interval End Time GMT Interval End Time PPT Interval Length Interval ID 🥎 Resource ID 🤹 SCID Measurement Type Resource type Value Quality Batch Id Value Quality Batch Id	
X No Data found	
Note: Settlement data is populated only when meter interval length is specified as 5 minutes.	-

Data will only be displayed if the following conditions are met:

- SQMD has already been published according to settlement timelines
- 5-minute Interval Length option is selected



#### Settlement Data grid

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Meter Data Batch Status	
Date From:       03/14/2017       To:       03/14/2017       SCID/ACL Group:       [ALL]       E Resource:       [ALL]       UOM:       MWH       MWH       MWH         Measurement Type:       [ALL]       Resource Type:       [ALL]       User Filter:       [ALL]       User Filter Resource:       [ALL]       Update SinceDateTime:       [MWH       [MWH	nterval Length: [ALL] V Apply Reset
Manage User Filters	
Meter Data	Settlement Data
🖈 🖻 Rows 🗠	
Current Previous	Trade
Trade Date Interval End Time GMT Interval End Time PPT Interval Length Interval ID 🛧 Resource ID 🛧 SCID Measurement Type Resource type Value Quality Batch Id Value Quality Bat	atch lo
× No Data found	Trade Date
Note: Settlement data is populated only when meter interval length is specified as 5 minutes.	V Version V Value V Quality
	OK Cancel

### **Settlement Data fields**

- Trade Date date of applicable settlement
- Version file that was actually used for settlement
- Value used for interval on the given trade date
- Quality "A" for actual SQMD, "E" for estimated SQMD



#### Meter data – manage user filters

#### 🥝 California ISO 🛛 Market Results Interface - Settlements 🛛 🖕 🖶 🧒 🤣 🍠 Meter Data Batch Status 31 SCID/ACL Group: [ALL] V UOM: MWH 🗸 Reset Date From 03/14/2017 31 To: 03/14/2017 [ALL] ✓ E Resource: Interval Length: [ALL] V Apply Measurement Type: [ALL] 🗸 Resource Type: [ALL] 🗸 User Filter: [ALL] $\sim$ User Filter Resource: [ALL] V Update SinceDateTime: Manage User Filters Meter Data Settlement Data (金) (四) **i**= Rows 25 V Trade Date Version 🛛 📥 Value Quality Previous Current Trade Date Interval EnuTime PPT Interval Length Interval ID Resource ID 🍨 SCID Measurement Type Resource type Value Quality Batch Id Value Quality Batch Id × No Data found Note: Settlement data is populated only when meter interval length is specified as 5 minutes.

#### Manage User Filters

- Click Manage User Filters button to create/edit
- Acts as a "favorites" for filtering meter data:
  - Accessible by creator only
  - Cannot delete a filter
  - Can edit an existing filter



#### Meter data – manage user filters

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Meter Data Batch St	tatus									
Date From: Measurement Type:	03/14/2017 8 To: [ALL] V Resourc	03/14/2017	SCID/ACL Group User Filter:	: [ALL] ♥  Res [ALL] ♥ Use	ource: r Filter R	[ALL] ✓ UOM: esource: [ALL] ✓ UpdateSinc	Mv eDateTime:	MH V Interval L	ength: [ALL] 🗸	Apply Reset
Manage User Filte	rs									
Meter Data									Settlement D	ata
¢ E								Rows 25 🗸	* 🗉	
Trade Date Inter	eval End	and Time PPT Interval Len	ath Interval ID		Monsur	ement Type Recourse type Value	Current	Previous Value Quality Ratch Id	Trade Date Version	Value Quality
×No Data found			gui intervarito 3	Resource ID 2 Solt	measur	ement Type Resource type value	e quality batch it	value quality batch lu		
Note: Settlement da				- Doculto In	torf	see Settleme				
			/v\arke	r Kesuits In	itert	ace - Sememe	ents	•••••••••••••••••••••••••••••••••••••••	<i>P</i> Ø →	
	Meter Data Batch St	atus Administration	1							
	User Filters	Vpdated Date	of 2	Action		Selected Resou	IFCES 1 - 1 source	of 1 🕨 🕅 🗌		
	TST1	03/08/2017 18:59	HCARDER	Edit		AB	GC123_1_GEN			



#### Meter data – create and edit user filters







# Managing Meter Data

Batch Status - for those with Meter Write access only



Two screens – Batch Sta	User's Guide for more information on						
California ISO Market Results Interface - Settlements 👘 🛊 🐵 🗞 🔎 🖉 🚽 functionality							
Meter Data Batch Status	Meter Data Batch Status						
Batch ID Batilh Status [ALL] Vser ID Fil	e Type [ALL] 🗸 Apply Re	eset					
Upload File							
Batch Status			Pouro []				
			Time Elapsed (sec)				
Batch ID Status User ID File Type File Name	Download File Size	Created Date Updated Date	Current Total Marker				
15571 SUCCESS hcarder CSV Meter_Data_GEN 030817.csv	📑 .296 КВ 0	03/13/2017 09:47 03/13/2017 09:50	0 136 < 5MIN				
Batch Status	Batch ID: 15571	ype Measurement Type Interval End	Rows 25 V Date Error Message Created Date				

- Filter batch data
  - Upload files
- Export Batch IDs
- View Batch ID errors



#### Batch Status – upload SQMD



### Submission methodology: API vs UI

- API
  - SQMD must be in an XML format
  - SQMD must be in GMT
  - Must contain the required header attributes

#### • UI

- SQMD must be in XML or CSV\*
- SQMD must be in GMT
- Must contain the required header attributes
- Can have the meter submitted in either MWh or kWh

Maximum acceptable attachment size **15MB** (uncompressed) Enhancement: increased from  $10MB \rightarrow 15MB$ 



### Batch Status – upload meter data screen

<i> </i> Upload l	Meter Data File 1 - Internet Explorer	
Close		
Upload Me	ter Data File	
Select File		Browse
File Name:		
File Size:		
User Id:		
Batch Id:		
Submit	Cancel	



#### Batch Status – upload meter data screen

Upload Me	ter Data File	
Select File	\\myfiles\home\hcarder\profile\Desktop\Meter_Data_GEN 030817.	
File Name:	Meter_Data_GEN 030817.csv	
ile Size:	303	Once file is
lser Id:	HCARDER	
Batch Id:	15572	

- Files can be uploaded using one of the following formats:
  - XML
  - CSV
- If the fields <u>do not</u> auto populate, check your file to resolve issues and resubmit
- Click the 'Close' button to complete the submission



#### **Batch submission status**

Potential batch status sequences once you have uploaded your data:



#### Upload status

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Meter Data Batch Status Batch Status [ALL] V User ID File Type [ALL] 🗸 Batch ID Apply Reset Upload File **Batch Status** B) (2 M 0 1 - 25 of 6961 🕨 Batch ID Status User ID File Type File Name Download File Size Created Date Updated Date 15575 PENDING hcarder CSV Meter\_Data\_GEN 030817.csv .297 KB 03/14/2017 20:30 03/14/2017 20:30 15513 WARNING hcarder CSV Meter\_Data\_15479.CSV 301 KB 03/08/2017 15:21 03/08/2017 17:11 15530 ERROR 030917 MeterData.csv 272 KB CSV 03/09/2017 16:03 03/09/2017 16:05 hcarder 15571 SUCCESS CSV Meter Data GEN 030817.csv .296 KB 03/13/2017 09:47 03/13/2017 09:50 hcarder

PENDING Status displayed while upload is processing

WARNING Alert that the Pmax value has been exceeded ERROR Notice that there is a discrepancy in the data submitted

SUCCESS File has been submitted successfully



 $\rightarrow$ 

#### Upload status

Meter Data Batch Status Batch Status [ALL] V User ID File Type [ALL] 🗸 Batch ID Apply Reset Upload File Batch Status B) (2 1 - 25 of 6961 🕨 M 0 File Type File Name Batch ID Status User ID Download File Size Created Date Updated Date Meter Data\_GEN 030817.csv 15575 PENDING CSV .297 KB 03/14/2017 20:30 03/14/2017 20:30 hcarder 15513 WARNING hcarder CSV Meter Data 15479.CSV 301 KB 03/08/2017 15:21 03/08/2017 17:11 15530 ERROR 030917 MeterData.csv 272 KB CSV 03/09/2017 16:03 03/09/2017 16:05 hcarder 15571 SUCCESS CSV Meter Data GEN 030817.csv .296 KB 03/13/2017 09:47 03/13/2017 09:50 hcarder ERROR PENDING WARNING SUCCESS Notice that there is a File has been submitted Status displayed while Alert that the Pmax value discrepancy in the data upload is processing successfully has been exceeded submitted

California ISO Market Results Interface - Settlements

It is highly recommended that once you have uploaded a file that you check back for status results. Dependent upon file size, this may take a few seconds or minutes. Ensuring that your data has been successfully uploaded can help alleviate risk of Rules of Conduct penalties due to inaccurate or missing data.



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#### **Error Codes**



All error codes that are associated with the selected Batch ID will be displayed on the right



#### **Error Codes**



Error codes, messages and descriptions can offer more detailed information to help you identify your file error so you can make necessary edits and then resubmit your file





# **Exporting Data**

Meter Data & Batch Status Screens



#### Exporting meter data



#### Export date- Export Wizard

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	Meter Data Batch Status							
	Batch ID Batc	h Status [ALL]	🗸 User i	D	File Type [ALL]	✓ Apply	Reset	
	Upload File							
	Batch Status ☆ ▼ ≝ ⊑ < ∢	1 - 25 of 6958	▶ H [	0			1	
	Batch ID 🐨 Status	User ID	File Type I	File Name	D	ownload File Size	Created Date	Updated Date
Export data from	thar Ma	tor	CSV	6 Frank Wood	Explorer	Fo		03/13/2017 09:50
Export data from e	anner me	ler	Car	Export Excel 🗸 🛛 Ex	port			03/13/2017 09:50
Data or Batch Sta	tus scree	ns	XML	Grid 1: Batch Status	Det al 1: Batch II	D: 15473 🗹		03/11/2017 08:16
Data of Datoff Old		115	CSV	Batch ID				03/09/2017 16:15
			CSV	Status User ID				03/09/2017 16:10
Coloct data to over	o rti		CSV	File Type			1	03/09/2017 16:05
Select data to exp	ort:		CSV	File Name File Size	<b>X</b>			03/08/2017 17:11
			CSV	Created Date				03/08/2017 14:00
Fliter options			CSV	Current	<b>1</b>			03/08/2017 13:45
			CSV	Total Marker		Original Page All Rows		03/08/2017 09:35
<ul> <li>Exports application</li> </ul>	adie tile ty	/pe:	XML					03/07/2017 08:15
			CSV					03/06/2017 17:15
- XIVIL, CSV,	vvord		CSV	neter_polo_to tr t gento				03/06/2017 17:10

Select Original Page (grid view) or All Rows (data associated with selected resource/batch ID)

#### Exporting meter data – control methods

er Filter

Meter Data	Batch Status	Adminis	tration		
Date From: Measurement	03/01 t Type: [ALL]	/2017	Tc Resource Type:	2017 [ALL] 🔽	31 SCID/ACL User Filter
Manage U	ser Filters				
Meter Da	ata				
ጵ 🍸 🗐 🖩	≅				
Ex	port All				
Trade Da Ex	port Page nd	Time GMT	Interval End Time PF	PT Interval	It is hig
03/04/20 Ex	port Wizard 7 10	0:00	03/04/2017 02:00	5	aantral
03/04/2017	03/04/2017 10	0:05	03/04/2017 02:05	5	control
03/04/2017	03/04/2017 10	0:10	03/04/2017 02:10	5	datav
03/04/2017	03/04/2017 10	D:15	03/04/2017 02:15	5	uala y

California ISO Market Results Interface

highly recommended that you put internal trols in place for exporting and storing file ta you have submitted since MRI-S only maintains 2 versions of your data -CURRENT and PREVIOUS. You will want to be sure to keep previously uploaded data to refer back to in the event that you have questions arise





# **Settlement Timelines**

For submission and resubmission



#### Meter data submission: Settlement timelines

#### \* Subject to rules of conduct

T+3B	<ul> <li>Initial Settlement Statement</li> <li>Based on all estimated data by the ISO</li> </ul>	
T+8B	<ul> <li>SC can submit Actual SQMD or Estimated SQMD</li> <li>If there is no SC submitted meter data and there is a schedule, the ISO will estimate</li> </ul>	
+12B	Recalculation Settlement Statement	
+48B	<ul> <li>SC must submit Actual SQMD. If not, SC submitted Estimated values will be used, which will be subject to Rules of Conduct</li> <li>CAISO Estimated meter data will be set to zero</li> </ul>	
+55B	Recalculation Settlement Statement	
Г+9М	Window of opportunity for resubmitted meter data, if required, for T+9M Recalculation Settlement Statement (*Subject to Rules of Conduct)	t
$\checkmark$	T = trade date; B = business days; M = mor	nthe
Co	lifornia ISO PUBLIC @ 2017 CAISO	SI

#### Meter data submission: Settlement timelines

- No longer applicable:
  - Window of opportunity for resubmitted meter data from T+168B to 172B
    - Can resubmit meter data at any time, but after T+48B will be subject to Rules of Conduct
  - Late/Change Status meter data resubmission form used for OMAR no longer required





# **Recap Changes**



### What has been enhanced...

- Updated Acceptable Use Policy
  - Max meter data submission 10MB  $\rightarrow$  15MB uncompressed
  - Max meter data retrieval from 100,000 records to 200,000
- Two new columns to specify Interval End Time
   GMT & PPT times
- Additional filtering capability:
   Interval Length, Unit of Measurement, etc.
- Settlement Data displayed on separate grid
- SCID/ACL group specified for the 'receive request' ensured to be provisioned to the user
- Batch status sequence updates
   Pending, Warning, Error, Success









- Scheduling coordinator's User Access Administrator (UAA)
  - SC's central point of contact, responsible for submitting new requests or modifying user's ISO application access
     Who is your UAA?
- Contact your Client Representative or call ISO Customer Services at 916-608-7320



#### Questions?

- Support during market simulation:
  - Contact the ISO Service Desk at (888) 889-0450 or servicedesk@caiso.com
  - Submit a CIDI ticket
    - select the market sim environment





### **Reference Material**

Helpful Links Features of User Interface



### Helpful links



#### 2017 Independent Release Docs (Tech Specs, User Guide, BRS)

- <u>http://www.caiso.com/Documents/MRI-SMeterDataEnhancementUserGuide.pdf</u>
- <u>http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx</u>

#### **Application Access Page**

<u>http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx</u>

Access and Identity Management (AIM) user guide & training

- <u>http://www.caiso.com/Documents/AccessandIdentityManagement\_AIM\_UserGuide.pdf</u>
- <u>http://www.caiso.com/Documents/Access\_Identity\_Management\_Training.pdf</u>

#### **Business Practice Manuals**

<u>http://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx</u>

#### Metering and Telemetry general information

<u>http://www.caiso.com/participate/Pages/MeteringTelemetry/Default.aspx</u>



Features of User Interface: Results Window

 The results window provides inline filtering and export functionality

	★ ▼ 🗐
*	Restore sort to default setting (removes user-created multiple column sorting)
Y	The Inline Filter works as a toggle. Click the icon to filter data based on the content of a particular column. Press <b>Enter</b> after inputting the filter criteria. (Note: Wildcard symbols can be used in this column, but they are not necessary. For example, searching for *lake* or lake will provide the same results.)
	Exporting (to Excel, Word, CSV)



#### Features of User Interface: Export Menu

The export menu allows the user to customize the data export

	Export All
	Export All
	Export Page
	Export Wizard
	-
Export All	All data points will be exported to Excel
Export Page	The current page will be exported to Excel
Export Wizard	The user can customize the data export



Features of User Interface: Application Toolbar

 The application toolbar contains the application or browser-based functions

	<b>◆ → ᡂ</b> € ₽ ₽ →
+	Goes to the previous display in browsing history
•	Goes to the next display in browsing history
STOP	Stops loading the current display
3	Refreshes the display in the current window
P	Zoom out
P	Zoom in
⇒]	Log out



Features of User Interface: Results Window

• The results window provides data in multiple pages

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M	Navigate to the first page of data
•	Navigate to the previous page of data
•	Navigate to the next page of data
	Navigate to the last page of data
	Go to specific line item entered in search box



#### What's next?

Course evaluation emailed from Market Training

Presentation will be posted in Training page MRI-S Metering CPG call 3/17/17 11:00am PPT



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# Thank you!!!

This concludes today's Market Results Interface – Settlements User Interface Metering Enhancements 2017 Independent Release training session.

