



California ISO

Outage Management System Customer Partnership Group (OMS CPG)

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CPG Scope and Objective

- Created in response to customer's request to have more involvement in the planning, design and usability validation phases of ISO application development
- Provide an open interactive partnership forum to identify potential opportunities to improve the overall customer experience
- Share ideas, opinions and provide feedback
- Discuss issues and concerns, and answer customer questions
- All ideas are welcome and will be considered based upon feasibility, prioritization and timeline constraints. Not all ideas may be feasible to implement
- Meetings vary in frequency to review progress, provide feedback on design and usability and discuss implementation approaches
- Active participation is critical to the CPG success and to improve our customer's experience interacting with ISO applications

Agenda

- Functional Changes deployed in Production since last CPG Meeting
- Planned Functional Changes in Future Releases
- Recapitulating from Last CPG

Functional Changes Deployed to Production Since Last CPG Meeting

Decommissioned V1 Services

- Following 16 V1 services were disabled
- Retrieves:
 - RetrieveResourceOutage_OMSv1_AP
 - RetrieveResourceOutage_OMSv1_DocAttach_AP
 - RetrieveResourceOutageChangeRequest_OMSv1_AP
 - RetrieveResourceOutageChangeRequest_OMSv1_DocAttach_AP
 - RetrieveTransmissionOutage_OMSv1_AP
 - RetrieveTransmissionOutage_OMSv1_DocAttach_AP
 - RetrieveTransmissionOutageChangeRequest_OMSv1_AP
 - RetrieveTransmissionOutageChangeRequest_OMSv1_DocAttach_AP

Decommissioned v1 Services (continued...)

- Submits:
 - SubmitResourceOutage_OMSv1_AP
 - SubmitResourceOutage_OMSv1_DocAttach_AP
 - SubmitResourceOutageChangeRequest_OMSv1_AP
 - SubmitResourceOutageChangeRequest_OMSv1_DocAttach_AP
 - SubmitTransmissionOutage_OMSv1_AP
 - SubmitTransmissionOutage_OMSv1_DocAttach_AP
 - SubmitTransmissionOutageChangeRequest_OMSv1_AP
 - SubmitTransmissionOutageChangeRequest_OMSv1_DocAttach_AP

AMBIENT_DUE_TO_TEMP Outages Process Change

The following workflow changes were made to the RC_CAISO & EIM Customers:

- <Add MW Threshold>
- Auto- approve outages with nature of work as AMBIENT_DUE_TO_TEMP
- Auto-accept all change requests on approved AMBIENT_DUE_TO_TEMP outages
- Auto-accept all cancellations of AMBIENT_DUE_TO_TEMP outages

Planned Functional Changes for Future Releases

TransmissionOutageResults_v3 Service

- Fix to include all pending requests is ready
- XSD version not incremented but new XSD has to be consumed by participants

- **Developer.caiso.com** –

<https://developer.caiso.com/pages/application.aspx?app=OMS>

- XSD is modified to allow including multiple pending requests in the response.
- Change will be deployed to Map_Stage on 06/01/2020
- Change will be deployed to production tentatively on 07/15/20

Aggregate Resource Outage Submission

- Current process requires submission of all child resources, even though there is no impact to them.
- Going forward, submit de-rate for parent resource (required) and only the impacted child resources
- Retrieve results will not include (for both v2 and v3 services) child resources that have no curtailment
- Parent resource availability points need not match with child resources' but will remain within the overall outage start and end date span
- Child resource outages can be added to existing outage if the outage has not commenced
- UI display and retrieve results for historical outages will be modified to support this model
- Changes are being done to enhance webOMS performance

Remedial Action Scheme (RAS) Changes

Modeling for 4 RAS Flags will be modified from check-boxes to drop-down boxes in the UI : (Y)es, (N)o and N/A (Undefined or Null)

- RAS/SPS Out of Service
- RAS/SPS Reduced Redundancy
- Protection Zone
- EMS/ICCP Outage



The image shows a screenshot of a user interface with four drop-down menus arranged in a 2x2 grid. The top-left menu is labeled 'RAS/SPS Out of Service', the top-right is 'RAS/SPS Reduced Redundancy', the bottom-left is 'Protection Zone', and the bottom-right is 'EMS/ICCP Outage'. Each menu has a small downward-pointing arrow on its right side, indicating it is a drop-down list.

- API validation changes are to require the submission of these flags for Nature of Work 'COMMUNICATION' or 'RELAY WORK'.
 - API submission will continue to take in a 'Y' or 'N' for these flags.
 - Changes will be made to validate to only v3 services (submit and retrieves)
 - No changes to v2 services
- No Changes to historical outages

Significant Change Determination & Workflow Efficiency

- Improvements to workflow engine in webOMS planned for faster processing of the outage cards
- Especially applicable to non BES equipment
- Workflow is for new and changes to existing outages
- Workflow improvements will be based on rules in the Outage Management BPM

Changes Expected in July 2020

RC Priority Date Logic

- RC Priority date will not reset or re-calculate when you check/ uncheck BA/TOP confirmed flag

Nature of Work (NOW) = COMMUNICATION or PATH LIMITATION

- webOMS will not check pending requests on overlapping outages for COMMUNICATION & PATH LIMITATION NOW
- To allow participant to submit multiple changes on the same communication equipment

Changes Expected in July 2020 (Continued..)

Retrieve Change Request Services

- Implementing 50 outages limit for change request services

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For various API services, watch for:

- Guidance on usage patterns
- Sample XMLs
- XSDs
- End-points
- Common errors & warnings
- Active versus retired services

Customer Service Communications

Releases

- For each release we are providing release notes.

System Maintenance

- Bronto Messages
- ISO system portal

Issues/Questions/Clarifications

- CIDI Tickets
- Contact Customer Service
 - Ph: 916-608-7320
 - Email: isoclientrepresentatives@caiso.com

Questions?



Recapitulating from Last CPG

Discovery Date Changes – Moved to Q3-Q4

- Per tariff section 9.3.10.3(a &b), in anticipation of a forced outage, the CAISO control center must be notified as soon as feasible if:
 - Generating Unit or Resource specific system resource has a reduction of current availability >10MW
 - Eligible intermittent resource of Pmax >10MW has reduction in current availability >1MW
- If prior notice is not possible,
 - Transmission facilities must notify the ISO through OMS within 30 minutes of the outage occurring.
 - Generating units and resource specific system resources and Eligible intermittent resources with Pmax >10MW must notify through OMS within 60 minutes of discovery of outage with the discovery time of the issue.
- WebOMS system will not default the discovery date
- Refer section 7.2.1 of the Outage Management (OM) BPM

WebOMS Usage Guidelines

Topic	Do:	Don't:
Outage event	<ul style="list-style-type: none"> ✓ Create a separate outage for each event 	<ul style="list-style-type: none"> ✗ Span an outage across months when the resource comes back into service
Availability	<ul style="list-style-type: none"> ✓ Consolidate availability and split the outage points only when availability changes 	<ul style="list-style-type: none"> ✗ Split outage points on an hourly or daily basis if the availability has not changed
Span	<ul style="list-style-type: none"> ✓ Limit outage period to a: <ul style="list-style-type: none"> • Week for hourly changes • Month for daily changes 	<ul style="list-style-type: none"> ✗ Create an outage with several break-points spanning 1 or more months
Outage Updates	<ul style="list-style-type: none"> ✓ Submit changes to outage when the availability changes by 1 MW or more ✓ Limit the change submission to once every 12 hours, when the outage start time is more than 48 hours from current time 	<ul style="list-style-type: none"> ✗ Submit changes when the availability changes are < 1 MW ✗ Frequently submission of changes to outages that have a start time well into the future

WebOMS Usage Guidelines

Topic	Do:	Don't:
API queries	<ul style="list-style-type: none"> ✓ Spread API requests over a few minutes between submits & retrieves ✓ Read CAISO's Acceptable Use Policy (AUP) 	<ul style="list-style-type: none"> ✗ Submit multiple requests at or around the same time
Retrieve volume	<ul style="list-style-type: none"> ✓ Retrieve over a near term interval for studies using the UPDATE parameter to pull only changes since the last pull ✓ Retrieve each day to keep data current & within 24 hours of outage changes 	<ul style="list-style-type: none"> ✗ Retrieve without UPDATE parameter ✗ Frequently query (within 5 minutes) ✗ Query for large time periods (several future months/ years) ✗ Pull large volumes of data for a total refresh of your records
Retrieve Resource/ Transmission Outage	<ul style="list-style-type: none"> ✓ Use v3 version of the service ✓ Check for warnings & errors to correct the outage under (OutageValidation) 	<ul style="list-style-type: none"> ✗ Use the 'Change Request' service frequently to sync data (as it pulls all outage versions) ✗ Use v2 or v1 service
Retrieve Availability	<ul style="list-style-type: none"> ✓ Use v2 version of the service 	<ul style="list-style-type: none"> ✗ Use v1 service

WebOMS Acceptable Use Policy (AUP)

Criteria	Value
Enforcement of the AUP	<ul style="list-style-type: none">• Applied per service per user certificate in production and Map_Stage• No non-production use in production
Expected size of payload (average & maximum)	Variable (1KB to 1MB+)
Expected frequency (average & maximum)	<ul style="list-style-type: none">• On demand (50/day –1,000/day)• A service shall be invoked no more than once every 5 seconds
Longest unavailable time for a service	<ul style="list-style-type: none">• 30 minutes unless planned WebOMS maintenance• Outage Coordinators can call ISO directly with critical near-term outages
Expected response time for a service	Variable (.1 sec –30 sec)
Expected time to exchange	Variable (.1 sec –30 sec)
Service time out	Request-to-Response 5 minutes

Questions?

For follow-up questions or to suggest future topics please contact your client representative or submit a CIDI ticket.