



Outage Management System Customer Partnership Group

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Customer Partnership Group

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 Planned
- Improving WebOMS Usage & Enforcing Guidelines
- Data Retention in WebOMS

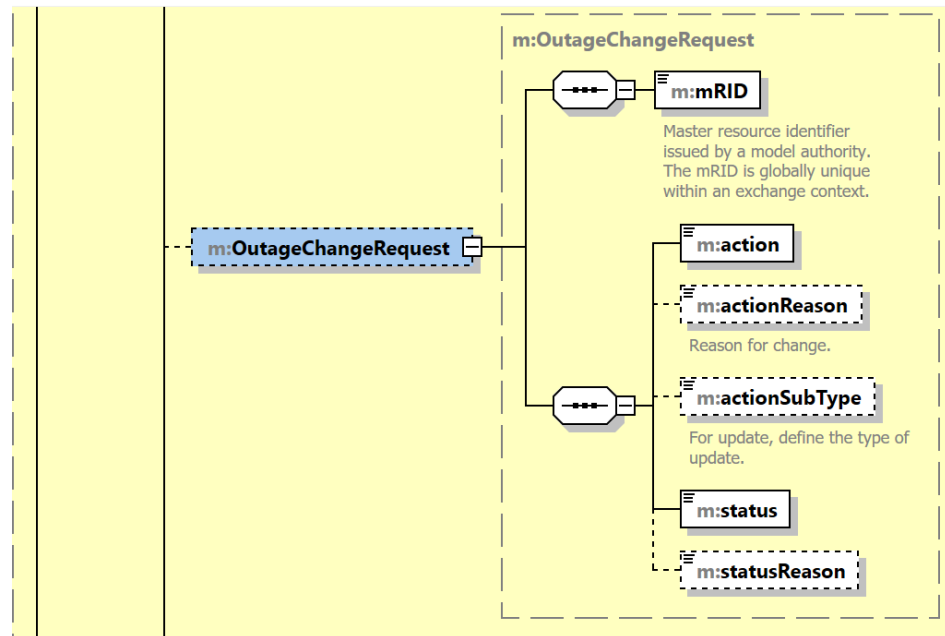
Functional Changes Planned in WebOMS

Discovery Date Changes – targeted for Q1 2020

- 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

TransmissionOutageResults_v3 Service – Q1 2020

- Fix to include all pending requests
- No XSD version change
- XSD will be modified to allow including multiple pending requests in the response. (MessagePayload -> TransmissionOutage -> OutageChangeRequest)



Improving WebOMS System Usage

Plan to Improve WebOMS Usage

- Raise awareness – effort started in 2019
- Publish detailed guidelines/ requirements – Q1 2020
- Enforce guidelines – 10/01/2020

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

Performance Improvements in the Pipeline for 2020

- WebOMS UI:
 - Rewrite with browser compatibility
- WebOMS API:
 - Broadcast Outage Updates

Aggregate Resources with Several Child Resources

- Too many break-points causes performance issues
- Solution options:
 - a. Submit outages for child resources on a separate outage card
 - b. Select child resource that have a curtailment and submit on the parent outage card
 - Requires XSD changes
 - Parent and child curtailment points will not be kept in sync in OMS

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

Plan to Improve WebOMS Usage

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- Publish detailed guidelines/ requirements – Q1 2020
- Enforce guidelines – 10/01/2020

WebOMS Data Retention

Data Retention & Purging in WebOMS

- Access to on-line outage data is for a 6 year period from the actual end date of the outage
- Outages that are older than this period will be purged from the WebOMS system, starting in October 2020 and will be an ongoing process

Questions

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