



Member Impacting Project Overview

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Version Control

| Version | Date | Author | Change Description |
|---------------------|-------------------------|----------------------------------|--|
| 1.0 | 11-13-17 | Tennille Tims | Initial Version |
| 1.1 | 12-13-17 | Tennille Tims Michael Hodges | Updated training information, corrected issues list, updated dates, addition of RR 243 |
| 1.2 | 1-12-18 | Tennille Tims Michael Hodges | Scope revision for Markets 1.24 Updated list of Member Facing items available for testing |
| 1.3 | 2-13-18 | Dena Giessmann Michael Hodges | Updated to reflect no testing materials for unstructured testing |
| 2.0 | 2-23-18 | Michael Hodges | Update to MP Defect/Enhancement testing issues list |
| 2.1 | 3-13-18 | Michael Hodges | Added/Updated Web Service version numbering |

Executive Summary

This Markets release will include several Revision Requests (RRs) which have been passed by the membership as well as some enhancements and defect fixes.

Note: In late December, SPP received notice from FERC related to Quick Start (QSR). Because of on-going discussions and ~~forthcoming~~ decisions, SPP has decided to remove QSR-related RRs from MOS 1.24 with a later implementation date TBD.

A. RR243 – Mitigated Energy Offer for Regulation Deployment Adjustment Settlements

This Revision Request will use the lesser of a Resource's as-dispatched energy offer curve and Mitigated Energy Offer Curve for Regulation-Up. For Regulation-Down, the adjustment will now apply to the greater of a Resource's as-dispatched Energy Offer Curve and Mitigated Energy Offer Curve. This RR eliminates the potential gaming opportunity.

This revision request changes the Integrated Market protocols and the SPP Tariff. The RR is posted [here](#). RR243 was approved by MWG on 9-8-2017 and approved by BOD on 10-31-2017.

B. Miscellaneous Enhancements and Defect Fixes

This release includes several updates to the Markets UI, API, and XML Notifications that are member impacting or member-facing. A detailed explanation of each change is listed in the Business Impact section of this MIPO.

Business Impact

A. RR243 – Mitigated Energy Offer for Regulation Deployment Adjustment Settlements

The current Protocol language allows regulating resources to “game” the market through the Regulation Deployment Adjustment charge type with their as-dispatched energy offer curve. A resource can “fix” its regulation offer, or structure its energy offer curve in such a way as to maximize its uneconomic position related to deployed regulation-up, and/or maximize its lost revenue related to deployed regulation-down.

This revision closes the “gaming” opportunity related to Regulation Deployment Adjustment. It will minimize the credits and maximize the charges related to the charge type by using either the as-dispatched energy offer curve or the cost-based energy offer curve. It will reduce the total cost of the market by lowering the total net credits of the Regulation Deployment Adjustment.

For regulation-up, the adjustment will be the difference between what the resource was paid through LMP for deployed/delivered regulation-up and the lesser of the as-dispatched offer curve and cost-based offer curve for the same deployed/delivered regulation-up.

For regulation-down, the adjustment will be the difference between the greater of the as-dispatched offer curve and cost-based offer curve for deployed/delivered regulation-down

and what the resource would have been paid through LMP had it not been deployed for regulation-down.

B. Miscellaneous Enhancements and Defect Fixes

MPs will need to make updates to their systems to adhere to the API changes for the MP Impacting items. Please take note of the MP Facing issues as well - there are no system changes to be made on these items but they could impact MP business or technical processes.

| Issue ID # | Issue Description | MP Impact | Associated ID |
|------------|--|--------------|-----------------|
| 02-1556 | Summary: Clearly highlight the type of Market case (RTBM, DA, or Mitigation) for which the Market Participant is entering offer curve data so as to be readily visible to the user. | MP Facing | RMS Issue 2379 |
| 02-5276 | This fix will allow MPs to set termination time in Markets UI to 12:00 on URL Manager page | MP Facing | N/A |
| 02-5616 | This enhancement will provide MPs icing forecast data with traditional wind forecast data for each VER anytime that an icing forecast is created | MP Impacting | RMS Issue 33017 |
| 02-5622 | This fix addresses the performance issues (ever increasing execution times) with the GetTransaction and GetTransactionSummarySetByDay operations. | MP Facing | RMS Issue 33126 |
| 02-5709 | This fix will address the issue of users being unable to update effective time when setting up new listener. Currently the 'save' option is available even with the error but when it is saved the effective time is set back to the default date. | MP Facing | RMS Issue 35169 |
| 02-5715 | This will be an update to the schema so that UP/DOWN is accepted and MIN/MAX is not for GetMarketVrISetByDay, GetMarketVRLByIntervalSet, GetMarketVRLByIntervalSetByDay, and MUI Violation Relaxation DAMKT/RTBM screens which currently return 'Internal System Error' when VRL CapacityViolationLimit records are read in with the UP and Down values. | MP Impacting | N/A |
| 02-5760 | This enhancement will add Plan Update Time in the Commitment CSV report. At present, this column can only be seen on the XML download. | MP Facing | N/A |
| 02-5935 | Allows Designated Owner of a JOU to have access to dispatches to all shares | MP Facing | N/A |

Technical Impact

The included RRs and enhancements affect all Market Participants who use the Web Services functions that are being changed. See section below for list of Web Services affected.

A list of specific web service operations that are being modified will be available when the final technical specifications are available in mid-September.

All MPs are potentially impacted: non-resource owning, resource owning, wind, virtual bidders, API users, MUI users, etc. Anyone who uses the web services or operations that are being modified or anyone who needs to access the data associated with these RRs will be impacted by this release.

SPP Systems/Processes Impacted

- Markets UI
- Markets API
- XML Notifications

Anticipated Member Systems/Processes Impacted

The following Notification Web Services will have new version numbers:

- [Energy Notify Service v11](#)
- [Market Notify Service v9](#)

The following Web Service functions are affected:

- [Get Market VRL Service \(Energy Service v11\)](#)
- [Get Energy Wind Forecast Service \(Market Service v9\)](#)

~~The following Web Service function(s) are affected:~~

~~[Get Market VRL Service](#)~~
~~[Get Energy Wind Forecast Service](#)~~

Member Requirements

Markets UI, API, XML Notifications - The Markets UI, APIs, and XML Notifications will be modified to add/update the following functionality:

Add:

- Icing forecast data for VERs (02-5616)
- Horizontal scroll bar to the Markets UI Notifications page (02-5641)
- Plan Update Time to the Commitment CSV report (02-5760)

Update:

- Enable the Markets system to handle unit/load contingency constraints (02-4953)
- Decrease execution times for GetTransaction operations (02-5622)
- User ability to update effective time when enabling a new listener (02-5709)
- Schema to allow UP/DOWN for the GetMarketVRL operations (02-5715)

Testing

Market Participant testing will be February 23 – April 3 in the Member Testing Environment (MTE).

Testing for this release will be un-structured – this means there will be no scheduled scenario execution days, scorecards, or test cases. MPs are encouraged to take note of the Member Impacting and/or Facing issues listed above and verify those changes accordingly.

Market Participants can use the Request Management System (RMS) – Request Type: Project Inquiries, Subtype 1: Markets 1.24 – to submit questions relating to testing.

Testing Assumptions:

- All MPs should have already conducted connectivity testing to the MP-Facing Integrated Test Environment (MTE). This project timeline will not include connectivity testing.
- MP's staff members who are participating in the testing are trained on the systems they are testing.

Training

Summary of Timeline

| Date | Responsible Party | Action |
|-------------------|-------------------|-------------------------------------|
| Complete | SPP | Post Draft technical specifications |
| Mid-January | SPP | Post Final technical specifications |
| 2-8-18 -> 2-22-18 | MPs & MP Vendors | Vendor and MP testing in MTE |
| 2-23-18 -> 4-3-18 | MPs | MP Testing Phase in MTE |
| 4-19-18 | SPP | Markets Release 1.24 to production |

Project Assumptions

None at this time.

Risks

None at this time.

Additional Documentation

None

Communication Plan

Monthly updates will be provided via written status report or presentation to CWG.

MIPO and Project Documentation

All project communication and information will be posted to the SPP Change Working Group Project Documentation folder, Markets Release 1.24 subfolder. You will find it on spp.org by clicking on ORG Groups, Change Working Group, Reference Documents, CWG Project Documentation, and finally, Markets Release 1.24.

This MIPO will be updated upon change or with any new information. With any update, a redline version is posted to the project documentation folder, and the CWG is notified.

Next Steps

| Action | Assignee | Status & Due Date |
|---|----------|-------------------|
| MPs become familiar with miscellaneous fixes | MPs | Now |
| Schedule resources to make modifications December-January timeframe | MPs | Now |

| | | |
|--|-----|---------|
| Schedule resources to Test in February and March timeframe | MPs | 2-15-18 |
|--|-----|---------|

FAQs

Frequently asked questions will be added to the document as identified or necessary:
https://spprms.issuetrak.com/Kb_ListByCategory.asp

More Information

At any time, Members can ask questions or get more information by completing an RMS ticket using "Project Inquiries" and Subtype 1: "Markets Release 1.24".

* Request Type:

* Subtype 1:

RMS link: <https://spprms.issuetrak.com/login.asp>

If a new user ID is needed for RMS, click on that link and follow the directions for "Register Now".