

# Member Impacting Project Overview

Markets Release 1.23  
V1.34

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**Version Control**

| Version             | Date                     | Author                       | Change Description  |
|---------------------|--------------------------|------------------------------|---|
| 1.0                 | 06-23-17                 | Ginny Watson                 | Initial Version   |
| 1.1                 | 08-01-17                 | Ginny Watson<br>Leann Poteet | Adjustments in scope of Markets Release 1.23<br>Added a column in the table of enhancements indicating which MPs are affected and should test |
| 1.2                 | 09-08-17                 | Tennille Tims                | Changed the Production Date<br>Added summary of technical specifications<br>Updated Enhancements and Defects table                            |
| 1.3                 | 09-20-17                 | Leann Poteet                 | Updated Business Impact A. Miscellaneous Enhancements and Defect Fixes<br>Updated Testing section   |
| <a href="#">1.4</a> | <a href="#">11-06-17</a> | <a href="#">Leann Poteet</a> | <a href="#">Add 02-5508 to Testing information</a>  |

## Executive Summary

This Markets release will include enhancements and defect fixes.

When Markets Release was originally scoped, it included the Quick Start functionality (RR116, RR137, RR142). In July 2017, a scope reduction was required so those RRs and other planned member facing or impacting updates had to be removed from the scope of the release.

### Miscellaneous Enhancements and Defect Fixes

This release includes several updates to the Markets UI/API 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. 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 items as well. There are no system changes to be made on the "Facing" items, but they might impact MP processes.

| Issue ID # | Enhancement Description   | MP Impact    | MP Type for Testing                             | Associated ID |
|------------|---|--------------|---|---------------|
| 02-1487    | XML Download functionality needs to support both CSV and XML formats<br>Summary: XML Download (Reports) functionality in the Markets UI needs to support both CSV and XML formats. Currently, the UI only supports XML file format.<br>Requires MP Code Changes: No   | MP Facing    | Load<br>Financial/Virtual<br>Resource<br>Owning |               |
| 02-2766    | Updated notification of Virtual Bids or Offers deletes resulting from Credit Default<br>Summary: An update to the existing XML notification to inform participants their Virtual Bids or Offers have been deleted from the Markets system as the result of Credit Default or Market Monitoring Virtual Block event.<br>Requires MP Code Changes: No. This would be a new, optional Notification that will not require MP code changes.  | MP Facing    | Virtual   |               |
| 02-5474    | GetVirtualBidSetByDay has marshalling error if not a complete days worth of data<br>If there is a day with only some of the hours populated for bids a marshalling error is returned Marshalling Error: cvc-complex-type.2.4.b: The content of element 'ns2:Bid' is not complete. One of '{http://api.spp.org/schema/mui/Virtual/v1.0:Point}' is expected.</faultstring><br>API call is successful if all 24 hours are populated.<br>GetVirtualOfferSetBy Day works for both partial and full day | MP Facing    | Virtual   |               |
| 02-3354    | MUI>Commitments add timeline of commitments<br>Summary: In the Markets UI, provide members with a visual timeline of their commitments.<br>Requires MP Code Changes: No.  | MP Facing    | Resource<br>Owning                              |               |
| 02-4448    | GetMarketBindingLimitSetByDay – Add ConstraintType and ContingentFacility<br>Summary: Add ConstraintType and ContingentFacility to the Binding Limits APIs and Markets UI screens to have it match public data.   | MP Impacting | Resource<br>Owning                              | 17416         |
| 02-5483    | MCR Transition Mitigated Offer Price allows negative prices to be submitted. The UI/API allows for the MCR transition mitigated price to be negative. An update will be made to not allow negative price entry.   | MP Impacting | MCR   |               |

| Issue ID #              | Enhancement Description   | MP Impact                 | MP Type for Testing                    | Associated ID         |
|-------------------------|---|---------------------------|--|-----------------------|
| 02-5387                 | MUI: MQS Limit Validation is only validating the CR ramp rate submittal In the MUI there is a validation at Contingency Reserve Offer>Ramp Rate that ensures that the submitted ramp rate is greater than or equal to the submitted Max QS Limit in the Parameters (Hourly) / 10. However, there is no validation in the Parameters (Hourly) table that requires that the Max QS Limit be greater than or equal to the submitted CR Ramp Rate * 10. This validation needs to be added to the Parameters (Hourly) for both MCRs and Non-MCRs. **This validation should not be added to the "(Transition)"-type offer's Max QS Limit for Transitional Offline Supp. | MP Impacting              | Quick Start                            |                       |
| 02-5388                 | MUI: MQS Limit Validation for Transition offers need validated against Eco Max Validation needed for MCR transition type offers to ensure that the Max QS Limit is less than or equal to the FROM configuration's Eco Max   | MP Impacting              | MCR which is QS qualified              |                       |
| 02-5456                 | PostNotifyServiceEndpointSet -err when eff time is excluded, term time included When Market Participants register using the XML Listeners, the system returns an Internal System Error when an Effective Time is not specified even though the Notify XSD indicates it is not required. In 3575 if you did not include effective time we had an Internal System Error. Now it will work if BOTH effective time and termination time are removed. It will not work if just effective time is removed and termination time is left  | MP Facing                 | SPP Testing Only                       |                       |
| 02-5657                 | GetEnergyJOUPhysicalResourceOfferSetByDay does not report Share JOU resources related desg resource info GetEnergyJOUPhysicalResourceOfferSetByDay does not report Share JOU resources related designated resource information. When it executes it only produces information for the Designated JOU resources. The related GetEnergyJOUPhysicalResourceOfferSet will report both Designated JOU resource information and Share JOU resources related designated resource information.  | MP Facing                 | JOU                                    |                       |
| 02-5691                 | JOU Designated Owner Real Time results should include all associated JOU information The Real Time results in the UI for a JOU Designated Owner should include information for all share JOU resource information.  | MP Facing                 | JOU                                    |                       |
| 02-852                  | ENH: Advanced filters or "quick pick" list for frequently used operations Summary: Add Advanced filters or "quick pick" list in the Markets UI for frequently used operations. This is needed to reduce the amount of mouse clicks required to navigate to various pages in the UI.<br><br>Requires MP Code Changes: No.  | MP Facing                 | Load Financial/Virtual Resource Owning |                       |
| 02-5750                 | Energy service XML upload UI functionality returning error When trying to submit XML through the XML upload for the Energy service a No Service Found error is being returned.  | MP Facing                 | Resource Owning                        |                       |
| 02-5781                 | Add Physical Min Operating Limit and Physical Min Regulation Limit to the Parameters Hrly Mitigation UI screen RR127/RR205 included two new parameter offers Physical Min Operating and Physical Min Regulation Limit. These new parameters should be available via the Resources>Characteristics>Mitigation Parameters and the API via the GetEnergyMitigatedParameterSet and GetEnergyMitigatedParameterSetByDay operations.  | MP Impacting              | JOU                                    |                       |
| <a href="#">02-5508</a> | <a href="#">Change the Max Daily Starts and Max Weekly Starts MCR Offer parameters to only count a start each time a configuration moves from a lower state (e.g. offline, 1X1) to a higher state (e.g. 2X1). This enhancement will prevent the unnecessary counting of transitions that currently exist with counting starts for bi-directional transitions.</a>   | <a href="#">MP Facing</a> | <a href="#">MCR Resource Owning</a>    | <a href="#">32082</a> |

## Technical Impact

The included 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.

A revised draft version of the MOS 1.23 API specifications is posted (Removal of Quick Start changes) has been posted in the [Future Marketplace Tech Specs](#) folder (a sub-folder of the [Marketplace Tech Specs](#) folder). The purpose of this version is to provide participants with a preview of the changes that will be introduced as part of the implementation of MOS 1.23, and MPs could begin coding using this draft version. A more finalized version of these specifications was published on September 1.

### ***SPP Systems/Processes Impacted***

Markets UI  
Markets API

### ***Anticipated Member Systems/Processes Impacted***

The following Web Services functions are affected.

Energy Service  
Market 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:

- 
- Add ConstraintType and ContingentFacility to the GetMarketBindingLimitSetByDay operation – 02-4448
- Add timeline of commitments to Commitments page in Markets UI – 02-3354
- CSV XML download functionality in Markets UI – 02-1487

Update:

- Remove the ability to submit negative prices for MCR Transition mitigated offer price – 02-5483
- Update PostTransactionStateSet notification to notify participants when a virtual bid or offer is deleted due to Credit Default or Market Monitoring Virtual Block – 02-2766

Summary of Technical Specification Changes

**Markets Release 1.23 Summary of Changes -- APPLIES TO ALL MPs (who use the Energy or Market web services)**

The following is a summary of changes made to the Web Services for the implementation of Markets Release 1.23.

- Add PhysicalMinOperatingLimit and PhysicalMinRegulationLimit elements to the following operations:
  - GetEnergyMitigatedParameterSet
  - GetEnergyMitigatedParameterSetByDay
- Update MCR Transition Mitigated Offer Price to only allow positive prices to be submitted for the following operations:
  - PostEnergyMCRTransitionMitigatedOfferSet
  - GetEnergyMCRTransitionMitigatedOfferSetByDay
- Add ConstraintType and ContingentFacilityName elements in order to match what is included as part of the Real-Time Binding Constraint public data report for the following operations:
  - GetMarketBindingLimitSetByDay
  - GetMarketBindingLimitByIntervalSet
  - GetMarketBindingLimitByIntervalSetByDay
- Add Market to Market as a valid ConstraintType in order to match what is included as part of the Real-Time Binding Constraint public data report for the following operations:
  - GetMarketBindingLimitByIntervalSet
  - GetMarketBindingLimitByIntervalSetByDay

## Registration

With Quick Start changes removed from scope, there are no registration changes by MPs that must be made for Markets Release 1.23.

## Testing

There will be a designated time period during which the MP-facing test environment (MTE) will be opened to the MPs for their testing efforts on this release. (See timeline section of this document).

MOS 1.23 MP testing will be unstructured testing. A testing kick-off call is not planned for this release. Vendor testing begins on 10/02/2017 for two weeks. MP testing begins on 10/16/2017 thru 11/13/2017. Testing by the MPs is encouraged since there are system changes to be made by the MPs.

SPP will issue high-level test cases for issues and enhancements included in MOS 1.23. See the list of issues and enhancements under Business Impact section of this document. (Section A. Miscellaneous Enhancements and Defect Fixes.) The testing will be limited to testing the Markets system changes; it is not intended to test through Settlements as these changes do not affect any Settlements systems.

### **The testing for this release will NOT be BID-TO-BILL testing.**

SPP will post testing materials around two weeks before testing begins. (See timeline section of this document). There is no current plan for formal liaison engagement.

#### 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.

During MP testing SPP will commit Resources in MTE in order to verify enhancements 02-3354 and 02-5691.

Constraints will be added in MTE in order to verify 02-4448.

Issue 02-2766 is an enhancement to an existing notification for Virtual Bids and Offers when there is a credit default. If you wish to test the updated notification, please submit a RMS ticket by 11/08/2017 so this test can be coordinated and scheduled.

## Training

Training will likely be needed for Markets Release 1.23 contents. Customer Training is currently analyzing the scope and appropriate training solution for Members and Market Participants. A future update of the MIPO will have more detail about how training will be provided for this project.

Markets UI User Guide will be updated.

## Summary of Timeline

| Date                           | Responsible Party | Action  |
|--------------------------------|-------------------|---|
| 06/15 /17 – Complete           | SPP               | Post Draft technical specifications   |
| 06/20/17 – Complete            | SPP               | Post registration details and timetable for MTE and production (see Registration section above) |
| <b>06/19/17 –&gt; 10/02/17</b> | <b>MPs</b>        | <b>Make API coding changes</b>  |
| 9/1/17 – Complete              | SPP               | Post Final technical specifications   |
| Mid September                  | SPP               | Post Testing details and test cases   |
| 10/02/17 -> 10/13/17           | MPs & MP Vendors  | Vendor and MP testing in MTE  |
| 10/16/17 -> 11/13/17           | MPs               | MP Testing Phase in MTE   |
| 11/28/17                       | SPP               | Markets Release 1.23 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 1.23 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 1.23.

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 |
|--|----------|-------------------|
| <ul style="list-style-type: none"> <li>MPs become familiar with release content Schedule resources to make modifications June-September timeframe</li> <li>Schedule resources to Test in October and November timeframe</li> </ul> | MPs      | Now               |
| SPP publish draft technical specifications Complete  | SPP      | 06/15/17          |
| Post revised draft specifications with Quick Start changes removed Complete  | SPP      | July 31           |
| SPP publish final technical specifications Complete  | SPP      | September 1       |
| Make system modifications  | MPs      | Now               |


## FAQs

Frequently asked questions will be added to the document as identified or necessary.

## 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 1.23".

\* 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".