

Member Impacting Project Overview:

TCR Release 3.1

Version 3.3

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Version Control

Version	Date	Author	Change Description
1.0	01/17/2018	Erica Brooks	Initial Draft
2.0	02/22/2018	Micha Bailey	Updated MIPO to inform MPs that once 3.1 goes into PROD, the APIs for getCandidateArns and postNominations will no longer be used
3.0	07/16/2018	Erica Brooks	Made updates to clarify enhancements within the document, updated the training course name, corrected the testing kickoff date to be a work day, changed the PRD date, and added FAQs.
3.1	08/8/2018	Micha Bailey	Added TCR Release 3.1.7 to MIPO
3.2	08/31/2018	Micha Bailey	Changed 3.1 PROD date from 09/04/2018 to 09/25/2018
3.3	11/27/2018	Micha Bailey	Updated language to LTCR Nominations to reflect MWG decision to change 6 months to 14 months

1. Executive Summary

In this document the term “members” refers to any and all stakeholders which could include Market Participants, Members, Customers, Transmission Owners, Vendors, etc.

TCR Release 3.1 is a Member Impacting release that will include updates to address two member impacting enhancements and one member facing defect, which will include API changes.

- **RR203 – Adding a Second Step to the Monthly ARR Allocation**
MPs will have the opportunity to add a second set of nominations in each monthly ARR Allocation.
- **LTCR Nominations publically posted to TCR MUI**
SPP will begin posting all LTCR/iLTCR nominations to the TCR MUI in the public download portion of the TCR MUI 14 months after the respective market.
- **The Secondary Market Date field is not handling format errors**
When a MP uploads an incorrect date format into the TCR MUI, the system will error out and will not display a message indicating the correct error.

2. Business Impact

TCR Release 3.1 is a Member Impacting/ release that will include updates to address RR203 – Adding Second Step to Monthly ARR Allocation as well as system enhancements and defects. The Member Impacting changes included in this release are listed below:

ID	Member Impacting/ Facing	Issue Type: Enhancement/ Defect	Synopsis
729	Impacting	RR (Enhancement)	RR203 - Adding Second Step to Monthly ARR Allocation
759	Impacting	Enhancement	LTCR Nomination available in TCR MUI public download
777	Facing	Defect	The Secondary Market Date field is not handling format errors
864	Impacting	Defect	Second Iteration Awards do not show up in the Existing ARR file on the TCR MUI

- **RR203 – Adding a Second Step to the Monthly ARR Allocation (#729)**
MPs will have the opportunity to add a second set of nominations in each monthly ARR Allocation. The MP will submit both sets of nominations during one nomination window. SPP will take the first set of nominations and run the allocation process as usual. SPP will then take the second set of nominations and run the allocation process again. This will be known as step 1 and step 2 in a single round monthly allocation. The first set of nominations does not change from today's practice. Each MP will nominate on their own Source/Sink paths up to the nomination cap in 0.1 MW increments. The second set of nominations will be a percentage of the MP's residual nomination cap after step 1 for any Source/Sink path. The MP may nominate any combination of Sources/Sinks up to 100%. In addition, the MP may also elect to submit a MW limit

cap on each Source/Sink path if desired. SPP will post all awarded ARR MWs as usual after the single round nomination window closes.

- **LTCR Nominations publically posted to TCR MUI (#759)**
SPP will begin posting all LTCR/iLTCR nominations to the TCR MUI in the public download portion of the TCR MUI 14 months after the awards of the respective market are posted. SPP currently has the ability to post all ARR nominations to the TCR MUI. It was decided at an MWG meeting to not post ARR nominations. The MWG has now decided to post all LTCRs, iLTCRs and ARR nominations 14 months after the awards of the respective market are posted. The LTCR/iLTCR nominations format will be modeled after the ARR nominations posting.
- **The Secondary Market Date field is not handling format errors (#777)**
When a MP uploads an incorrect date format into the TCR MUI, the system will error out and will not display a message indicating the correct error. The correct date format for upload is M/D/YYYY.
- **Second Iteration Awards do not show up in the Existing ARR file on the TCR MUI (#864)**
When a MP downloads the current Existing ARR file from the private section of the TCR MUI, the second iteration awards are not in the file. TCR Release 3.1.7 will fix this issue.

3. Technical Impact

SPP and Member Systems/Processes Impacted

- iHedge TCR application including the TCR MUI
- ARR Nomination API will change
 - Once 3.1 is installed into PROD, APIs `getCandidateArns` and `postNominations` will no longer be used for a monthly allocation. If API `getCandidateArns` or API `postNominations` are used for a monthly allocation, the response will be returned with an error.

4. Member Requirements

Market Participants will need to update their systems and processes to account for the changes associated with the system enhancements. They will have the opportunity to test changes to the TCR APIs and MUI in the MP-facing test environment (MTE). For more details on testing, reference the Testing section of this document, below.

Anticipated Member Systems/Processes Impacted

- MUI
 - The TCR MUI will be updated to allow MPs:
 - to submit a second set of nominations
 - to retrieve LTCRs/iLTCRs/ARRs nominations 14 months after the awards of the respective market are posted
 - to indicate errors in date submissions
- API
 - XSD changes
 - Second set of nominations
 - Access to retrieve LTCRs/iLTCRs/ARRs
 - Existing ARR
 - XML changes
 - Second set of nominations
 - Access to retrieve LTCRs/iLTCRs/ARRs

- Existing ARR
- RAW File
 - No changes to the RAW file

5. Testing

TCR Release 3.1 will be installed to MTE for testing on 07/13/18. Structured Member testing will be conducted starting 07/16/18 to 08/24/18. Testing materials will be published on 06/06/18 with a testing kick-off meeting on 06/20/18.

MPs that hold TSRs will be required to submit two stages of nominations for a single round monthly ARR Allocation. The MP will submit, verify the submission and download results from the submission.

MPs will be able to download nominations for LTCRs/iLTCRs/ARRs. The MP will verify that the data will have a timestamp for 6 months before the current date of testing.

Members will be responsible for submitting the name and contact information for TCR liaisons for their respective companies and those liaisons will be expected to coordinate testing. During testing, Members will submit testing results, questions or issues via RMS using the TCR 3.1 Release quick pick. Members are encouraged to raise any issues during the testing window.

Unstructured testing for TCR Release 3.1.7 in MTE will open up on 08/27/2018 and go through 09/07/2018 with a production date of 09/25/2018.

6. Training

Updated training materials will be provided for this release. The specific materials slated for updates are:

- Acquiring TCRs in the Monthly TCR Auction (an eLearning course in the [SPP Learning Center](#))
- Transmission Congestion Rights (TCR) Market User Interface (MUI) Quick Reference Guide (available in the [SPP Learning Center](#))

The eLearning course, Acquiring TCRs in the Monthly TCR Auction will be updated to reflect the additional iteration of the Monthly ARR Allocation process. The course will be updated by the production implementation date for this release.

The TCR MUI Quick Reference Guide will be edited to add additional tasks and step actions under the Monthly ARR Allocation Task Overview section. These additional tasks and step actions will guide users that choose to participate in the second iteration of the Monthly ARR Allocation. Preliminary documentation will be available as testing kicks off. A final updated User Guide will be available by the production implementation date for this release.

To help Members and Market Participants successfully test this release, SPP Customer Training will conduct a brief overview of this additional feature during the testing kick-off meeting.

7. Implementation/Back-out Plan

Implementation of this release will require a brief outage while the application is restarted. Should this release adversely affect the iHedge software, the application will be reverted back to the previous version.

8. Summary of Timeline

Date	Responsible Party	Action
01/17/2018	SPP	Publish MIPO
02/01/2018	Member	Begin Submitting Liaison contact information (Primary/Backup) to the project RMS Quick. Select "Project Inquiries" from the Quick Pick dropdown menu, then select "TCR Release 3.1" from the Subtype 1 dropdown menu.
02/23/2018	SPP/Member	Publish/Review Draft API specifications
04/30/2018	SPP/Member	Publish/Review Final API specification
06/06/2018	SPP	Publish Testing Materials for Structured Testing
06/20/2018	SPP/Member	Testing Kick-off Meeting
07/16/2018-08/24/2018	Member	Conduct Structured MP Testing in MTE
09/25/2018	Project Team/Member	Production Implementation
08/10/2018	SPP	Update MIPO to include TCR Release 3.1.7
08/27/2018 – 09/7/2018	Member	Unstructured Member Testing
09/25/2018	Project Team/Member	Production Implementation of TCR Release 3.1.7

9. Project Assumptions

MPs testing the ARR Allocation enhancements will be those MPs who currently have Transmission Service Rights. Financial only MPs who do not have TSRs will not have to test RR203.

10. Risks

If TCR Release 3.1 does not go into production, the members will not be able to submit their second set of nominations for the monthly ARR Allocations. Members will lose out on potential ARR MW awards. Also, members will not be able to see LTCRs/iLTCRs/ARRs nominations. This information could be helpful to some members when they submit their nominations.

11. Additional Documentation

Technical Specs will be posted at the time listed below.

12. Communication Plan

All project materials and information will be posted to the TCR Release 3.1 [project folder](#). Monthly updates will be provided via written status report or presentation to CWG.

13. MIPO and Project Documentation

All project communication and information will be posted to the SPP Change Working Group Project Documentation folder: TCR 3.1 Release [project folder](#).

This MIPO will be updated upon change with any new information, and according to the Member Project Touch Points and Deliverables. With any update, a redline version will be posted to the project documentation folder, and the CWG will be notified.

Action	Assignee	Status & Due Date
Publish MIPO	Project Team	01/17/2018
Publish API Draft Specifications	Project Team	02/23/2018
Publish API Final Specifications	Project Team	04/30/2018
Structured Testing Starts	MPs	07/16/2018
Structured Testing Ends	MPs	08/24/2018
Update MIPO for TCR Release 3.1.7	Project Team	08/10/2018
Publish API Final Specifications	Project Team	08/10/2018
Unstructured Testing Starts	MPs	08/27/2018
Unstructured Testing Ends	MPs	09/07/2018
Updated MIPO for TCR Release 3.1 PROD date change to 9/25/2018	Project Team	8/31/2018

14. FAQs

Question 1: When will the Stage 1 and Stage 2 Monthly ARR Allocation nominations be submitted?

Answer 1: Stage 1 and Stage 2 nominations will both be submitted at the same time during the single Monthly ARR Allocation nomination window.

- Question 2:** Do Market Participants get to see the Stage 1 results before the Stage 2 results?
Answer 2: No, all of the Monthly ARR Allocation results will be received at once.
- Question 3:** Are there separate solutions for Stage 1 and Stage 2?
Answer 3: From an internal SPP Market solution perspective, yes. For posting purposes, you will receive one award file.
- Question 4:** Which paths are available to be nominated?
Answer 4: Stage 1 nominations will be based upon valid TSRs held by MPs. Stage 2 nominations will be valid for any source-sink pair, excluding those pairs listed in the Electrically Equivalent Settlement Locations (EESL) file.
- Question 5:** Is the remaining ARR cap locked in after Stage 1 or is it recalculated after each nomination in Stage 2?
Answer 5: It is locked in after Stage 1.
- Question 6:** How many paths can be nominated in each stage?
Answers 6: Stage 1: You are limited by the count of your Asset Owners (AO) TSRs.
Stage 2: The number of paths that can be nominated is capped in two ways, first by 100%. Once your nominations sum to 100%, you not able to nominate any more paths. Second, you are capped by 2,000 nominations per Asset Owner (AO) per product period.
- Question 7:** How does Stage 2 of the Market Solution solve?
Answer 7: Like Stage 1, it uses the same Simultaneous Feasibility Test.
- Question 8:** Do the Market Participants know what the residual cap is in Stage 2 for their Asset Owner (AO) prior to the closing of the nomination window?
Answer 8: No. This residual cap is not calculated until the completion of the Stage 1 SFT, which occurs after the nomination window has already closed.
- Question 9:** Will there be changes to the private ARR award file?
Answer 9: There will be a new iteration column in the award file to indicate which iteration a path was awarded.

15. More Information

At any time, members can ask questions or get more information by completing an RMS ticket by selecting "Project Inquiries" from the **Quick Pick** dropdown menu, then select "**TCR Release 3.1**" from the **Subtype 1** dropdown menu.

* Request Type: Project Inquiries add

* Subtype 1:

Subtype 2:

Severity:

Caller:

Engineering Hub

Markets Release 1.23

Markets Release 1.24

Market Settlements System Release 2.10

Market Settlements System Release 2.11

Settlements System Replacement

CROW 5.3.0

TCR Release 3.1

add | details | history

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".