RIMS: Generation Module

Resource Interconnection Management System (RIMS) Functional Enhancements

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Training and Readiness

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Agenda

• Project overview

• New resource implementation
  – Starting a new project
  – Navigation and screens

• Sorting and filtering data

• Discussion
PROJECT OVERVIEW
Project background

Since 2008, the ISO’s interconnection management processes have evolved to support the growing number of requests throughout the western interconnection, and changing FERC regulations.
Currently, the ISO uses two processes to manage these requests:

**Resource Interconnection Management System (RIMS) Application**
- New Interconnection Requests
- Application and Study Process

**Email based system via NRI@caiso.com**
- New Resource Interconnection (NRI) process
- Market Participant Asset Implementation (MPAI) process
Project background – new features

RIMS + New Features

- New Interconnection Requests
- Application and Study Process
- Add new and existing generator resources (NRI)
- ISO polled meter maintenance and replacement
- Real-time devices
- Transmission topology changes as it affects the ISO controlled grid (MPAI)
RIMS is used to manage these processes

This session focuses on the New Resource Implementation process
RIMS facilitates the New Resource Implementation (NRI) Process

• The NRI process assists new or Qualifying Facility (QF) interconnection customers from build to bid into the ISO markets

• The [NRI webpage](#) provides an overview of this process
Starting a new project
Navigation and screens

NEW RESOURCE IMPLEMENTATION MODULE
Starting a new resource interconnection project within RIMS

1. Request a new project registration code
2. Obtain a registration code
3. Complete and upload project details form using registration code
4. Obtain NRI project code after successful upload and validation of project details form
5. NRI project code is used to gain access to RIMS project
Request a new project registration code via the RIMS public site

Requested Project Name cannot include special characters: ~ ' # % & @ * : ; <> ? / | ( ) [ ] - _

Request Type should be set to NRI Project Details Form
Notes re: validation of project details form

- **Requested Project Name** is a temporary project name, it does not have to be the resource name listed on the project details form.

- After you register, receive a code and upload the project details form, it will validate.
Obtain project registration code via email

- Project Details Form is located under the “Getting Started” section of this page.
- Always use the most recent form from the ISO website to ensure that your file is accepted.
Use registration code to access upload page

- Copy the registration code from the email to this field and click Submit.
Complete and upload project details form

- Click on **Upload Project Files** to browse for the completed project details form on your computer.
- Click the **refresh** icon on the top menu if your file is not visible when you return to this screen.
Complete and upload project details form

RIMS will parse the data from the form
The file will show up on the list of uploaded files
When uploaded status is complete it is ready to submit
Click **Submit Registration for Validation** to initiate process
A project code is created - this code is used in all documentation and is needed in order to obtain access to this project in RIMS
Obtain NRI project code via email

Thank you for starting a project with the CAISO New Resource Implementation (NRI) process. The next steps are to submit project required documents in accordance to your project type. Please download and review the New Resource Implementation guide and checklist from the following link: http://www.caiso.com/participate/Pages/NewResourceImplementation/Default.aspx

**Important links for the NRI process
New Resource Implementation Website:

Business Practice Manuals for Metering and Direct Telemetry:

Thank you,
New Resource Implementation

- Forward this email to your User Access Administrator
What is the role of the User Access Administrator?

• Each organization may have one or more user access administrators (UAAs) who manage access to ISO systems

• Access to RIMS projects is managed at the individual project level

• UAA must be given the project code for each new RIMS project

• UAA must add the new RIMS project to your organization in the Access and Identity Management (AIM) tool

• The UAA provisions user access to individual users
How to gain access to a RIMS project

1. User forwards NRI project code email to UAA
2. UAA attaches email to UAA agreement when registering new project code in AIM
3. UAA grants user access to new RIMS project in AIM
4. User is now able to view new project in RIMS
Important note about Internet Explorer browser compatibility settings and RIMS

• RIMS should **not** be run using Internet Explorer’s Compatibility View
  – feature is already built into the user interface

• Checking the boxes (in Internet Explorer) confuses the interface and prevents certain functions from working properly
  – Example: file uploads will freeze
Important note about IE browser compatibility settings and RIMS

• Check your settings by doing to the following:
Ensure that Compatibility View settings are **not** checked

**Select Compatibility View Settings from the menu:**

- Print
- File
- Zoom (100%)
- Safety
- Add site to Start menu
- View downloads
- Manage add-ons
- F12 Developer Tools
- Go to pinned sites
- **Compatibility View settings**
- Report website problems
- Internet options
- About Internet Explorer

**Make sure the following boxes are NOT checked:**

- Display intranet sites in Compatibility View
- Use Microsoft compatibility lists

Be sure that these boxes are not checked
How do you get to RIMS?

https://portal.caiso.com/
Navigate to the MPAI Dashboard (Market Participation Asset Implementation)

- Today’s focus is the MPAI Dashboard
- Accessible from the MPAI menu
Market Participation Asset Implementation (MPAI) tabs

- **All Active**
  - The default option is the *All Active* tab where you will see all active projects
MPAI Project Dashboard – All Active

- Click the View button to view an individual project
Project View (top section)

- Shows all of the details for an individual project

- Fields that can be edited have a box around them, all others are read-only
  - For example, these fields can be edited
This section contains notes from ISO staff related to:

- general project comments,
- documents that are not accepted, or
- documents that have been conditionally accepted

Example:
- If a document was conditionally accepted, you’d see an explanation in the comments field
The ISO uses a bucket date system that is derived from a project’s estimated sync date, QF conversion, Pseudo or Dynamic complete date.

1. Full Network Model Preparation
2. Regulatory Contracts, Model Testing, and Forecast Preparation
3. Market Preparation
4. Trial Operations Approval
5. Trial Operations
6. Commercial Operation
Bucket Items

• The documents necessary to complete project phases are called bucket items

• Submit bucket items based on those that are required for your project
Bucket Items

- Bucket dates will change anytime the implementation, conversion, pseudo or dynamic complete date is moved.
- Items can be completed early and out of order, but **must** be accepted by the ISO by the bucket date.
Submit documentation in advance of the bucket approval dates and track approval status to keep project on schedule

- These dates should be viewed as ISO acceptance dates not the last day to submit information, forms or details required to move the project forward

- If a bucket is not completed by its approval deadline a new synchronization/QF conversion/completion date needs to be submitted in order to move the approval deadline into the future

- The New Resource Implementation Guide explains each step along the way
Bucket Notes

<table>
<thead>
<tr>
<th>Bucket Item Name</th>
<th>Bucket Notes</th>
<th>Updated By</th>
<th>Updated Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC Request</td>
<td>Initial Synchronization Approval Completed</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>Ops Readiness Dir-SYNC ACCEPTED 11/14/2017</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>Ops Readiness-SYNC ACCEPTED 11/14/2017</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>QM-SYNC ACCEPTED 11/14/2017</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>MCI-SYNC ACCEPTED 11/14/2017</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>COC-SYNC ACCEPTED 11/14/2017</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>EDAS-SYNC ACCEPTED 11/14/2017</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>IC Request SYNC - Sent To All Internal BU Tue Nov 14 21:11:59 UTC 2017***</td>
<td>RTES05X3588</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>IC Request</td>
<td>The Request of SYNC is projected to be completed by Fri Nov 24 21:11:59 UTC 2017</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC Request</td>
<td>IC Request SYNC - Sent To All Internal BU Tue Nov 14 21:11:59 UTC 2017</td>
<td>RTES05X3588</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>PSLF</td>
<td>Accepted 11/13/2017 17AS2494 PSLF VER1.docx</td>
<td>TFRANYOVICH</td>
<td>11/13/2017</td>
</tr>
</tbody>
</table>

• This section contains system generated notes on what documents have been:
  – received,
  – accepted,
  – not accepted, or
  – conditionally accepted

• The most recent item appears at the top of the list
Project View (bottom section)

• The bottom of the screen is separated into a series of sections that expand/collapse when you click on the caret icon
• Use this area to edit or update contact information for your regulatory contracts

• This section is populated when the Project Details Form is loaded into RIMS

• It is important to ensure that you have set up a primary, secondary, and signatory contact for the regulatory contracts
Use the Documents section to upload documents to the various buckets

![Uploaded Files](image)

- Both Read-Only and Write users can upload documents

Files must follow the naming convention specified in the [NRI Guide](#) as this is used to identify the files and link them to the respective bucket item.
Special note regarding SharePoint Link in Documents section

- Click on the icon in the SharePoint link field to download the file for viewing
- Changes to the file must be uploaded to RIMS again
- Only documents that have been uploaded to RIMS can be reviewed by the ISO
Project View: Buttons at the top of the screen vary based on project type and status of project

- Examples of the buttons you’ll see based on project type:
- These buttons start off greyed out
Project View: Buttons at the top of the screen vary based on project type and status of project

- When the project has reached the point where you can request to sync or enter the market, the button will turn green

- In this example, click on the **Dynamic** button when you are ready to move forward and it will initiate the approval process
- The button will stay green and you will see a list of approvers in the **Monitor Approval Process** section
Monitor Internal Sync/COD/COM/QF/Conversion or Completion approval process (Read Only)

<table>
<thead>
<tr>
<th>Business Unit</th>
<th>Request Type</th>
<th>Approval Status</th>
<th>Approver</th>
<th>Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>OE South</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>OE North</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>QM</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>Ops Readiness</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>Ops Readiness Dir</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>Market Service Dir</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>COC</td>
<td>COD</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>EDAS</td>
<td>SYNC</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>MCI</td>
<td>SYNC</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>QM</td>
<td>SYNC</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
<tr>
<td>Ops Readiness</td>
<td>SYNC</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
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<td>Ops Readiness Dir</td>
<td>SYNC</td>
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<tr>
<td>COC</td>
<td>SYNC</td>
<td>ACCEPTED</td>
<td>TFRANYOVICH</td>
<td>11/14/2017</td>
</tr>
</tbody>
</table>

- This section is populated with a list of approvers and the status when you initiate a request to Sync your project, or submit a request for Commercial Operations Date (COD), Commercial Operations for Markets (COM), or QF conversion request.
- Use this section to monitor the approval process.
Phase Completion (Read Only)

Once a project sync, request for COM, or request for COD has been approved, the phase will appear on this list.

Example: A finished COM or COD notification in the Bucket Notes means the project phase is complete.
  - At that time, the Phase Status in this section will show up on the list.
Meter Device IDs (Read Only)

- This section shows the Meter Device IDs that are associated with this project
- These IDs are entered by the ISO
Related Transmission Projects (Read Only)

- If there is a transmission project related to your NRI project, it will show up on this list.
- Your NRI project cannot go operational until the related transmission projects are complete.
Review: What can I do from the Project View screen?

- Upload documents for each bucket item
- Edit/adjust dates
- Add and edit contact information
- Provide additional project information updates
Project information updates

• Moving a Sync/QF conversion/Pseudo/Dynamic date
  – When the appropriate conditions and approvals have been met, users can request approval for:
    • Project Synchronization (Sync OK)
    • Commercial Operations Date (COD)
    • Commercial Operations for Markets (COM)
    • Completion of a QF Conversion, Pseudo, Dynamic

• Note that moving dates will also move the associated Bucket dates

• Refer to section 3 of the NRI Guide for more information about moving dates
Other tabs: Operational, Meter and Real-Time Device, Canceled

- Any project with a status of On Hold, SYNC OK, COM, COD, or Complete will be under the Operational tab
- Additional tabs exist for other items:
  - Meter and Real-Time Device
  - Canceled
SORTING AND FILTERING DATA
Dashboard: Sorting and filtering

- Click on the filter icon to activate filtering options

- Use inline filtering to search for projects
- Example: Type “test” in the Project Name field and press enter to view all projects that contain that word
Dashboard: Adjust Columns

- Use the **Adjust Columns** icon to add or remove columns from the display.

- Example: Add the **Created By** column to see who created the entry.
Dashboard: Sort Ascending/Descending

- Click on a column heading to sort the data
- The caret symbol will toggle between the ascending/descending sort

<table>
<thead>
<tr>
<th>Implement Date</th>
<th>Target/COD Date</th>
<th>Previous Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/01/2018</td>
<td>08/01/2018</td>
<td></td>
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<tr>
<td>08/01/2018</td>
<td>08/01/2018</td>
<td>08/01/2018</td>
</tr>
<tr>
<td>10/01/2018</td>
<td>10/01/2018</td>
<td></td>
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<td>11/01/2018</td>
<td>11/01/2018</td>
<td>11/01/2018</td>
</tr>
</tbody>
</table>
Dashboard: Rearrange Columns

- Click on a column and drag it left or right to adjust the order of the data display
- The column will float along with your cursor movement until you place the column in the desired location
NRI and MPAI processes are changing

• All New Resource Implementation (NRI) and Market Participant Asset Implementation (MPAI) requests will be managed through the RIMS application

• After go-live, the previous process of submitting these requests via email will not be supported
Getting ready for go-live: UAA related tasks

• Ensure your company has set up a User Access Administrator (UAA) to manage access to all projects

• UAAs validate projects that are linked to their organizations to ensure they have the ability to provision access to projects in RIMS

• Ensure that future RIMS users are set up in AIM and have valid certificates installed on their machines
Where to go for more information

- Establish a User Access Administrator

- How to Grant access to RIMS

- Updated NRI Guide and RIMS user guide to be posted

- Contact [NRI@caiso.com](mailto:NRI@caiso.com) with questions regarding the NRI process
Questions?

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