Multi-Stage Generation

Code Only Software Deployment Plan and Schedule
Version 3.1
November 1, 2010
## Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
<th>Author</th>
</tr>
</thead>
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<tr>
<td>10/19/2010</td>
<td>1.0</td>
<td>DRAFT Code Only Deployment Plan</td>
<td>J Fruit/Project Management Office</td>
</tr>
<tr>
<td>10/25/2010</td>
<td>2.0</td>
<td>Updated (redline) DRAFT to reflect changed deployment dates</td>
<td>J Fruit/Project Management Office</td>
</tr>
<tr>
<td>10/29/2010</td>
<td>3.0</td>
<td>Final version reflecting go-live dates</td>
<td>J Fruit/Project Management Office</td>
</tr>
<tr>
<td>11/1/2010</td>
<td>3.1</td>
<td>Fixed Typo – removed text “(the same number and pass code for both calls)” from section 4.1 Cutover Support and Conference Bridge. Removed “DRAFT” watermark.</td>
<td>J Fruit/Project Management Office</td>
</tr>
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1. Introduction

1.1 Executive Summary

This document is intended to provide California ISO (ISO) Market Participants with a description of the timeline and activities for the deployment of the Code Only Multi-Stage Generation (Code Only MSG) software on November 2 and 3, 2010.

1.2 Code Only Multi-Stage Generation Software Deployment

The Code Only Multi-Stage Generation deployment includes the software changes for the Multi-Stage Generation Project, but does NOT include MSG Resources in the Master File. This deployment consists of the following application updates:

- CMRI
- OASIS
- RAAM
- SIBR
- Market Application (Day Ahead and Real Time)
- Post process Energy Accounting Application
- ADS – Updated Client software and Backend Application
- SLIC – MSG Project Software Updates

The technical details for these software changes can be found on the Multi-Stage Generating (MSG) Unit Modeling external webpage located at: [http://caiso.com/2078/2078908392d0.html](http://caiso.com/2078/2078908392d0.html).

1.3 Document Content and Organization

The document includes: 1) General comments regarding the deployment, 2) A detailed list of activities and tasks that will occur before, during, and after the deployments, and 3) Details of communication and support options available during the cutover.

2. General Cutover Comments

The Code Only MSG deployment will occur in two code “drops”. The code drops will occur independently of each other over a 2-day period. The current DROP 1 and DROP 2 deployment contents and dates are as follows:

- DROP 1 – planned for 11/2/2010
  - CMRI
  - OASIS (CAISO Internal Only)
  - RAAM (CAISO Internal Only)
  - Web Services (CAISO Internal Only)

- DROP 2 – planned for 11/3/2010
  - SIBR
  - Market Applications Day Ahead and Real Time
  - Post process Energy Accounting application
  - ADS – Updated Client software and Backend Application
  - SLIC – MSG Project Software Updates
2.1 Special Deployment Considerations

**ADS Client deployment by Market Participants**

The ISO’s DROP 2 deployment of the ADS 5.0 application backend requires Market Participants to upgrade their ADS Client software to version 5.1.8. Market Participants should update their Production computers to the new ADS 5.1.8 Client in parallel with the ISO’s deployment of the ADS 5.0 backend application. [This Participant step is called out in the detailed deployment plan below.]

**ADS Client: Backing-up version 4.14.5.899 & installation of the new version 5.1.8**

It is recommended that Market Participants preserve/backup the older version of the ADS Client v4.14.5.899, prior to installing the new ADS v5.1.8 on the workstation, as a precaution in case code reversion becomes necessary. Please consider the following:

- Create a backup copy of the existing default ADS client software location folder & all of its contents. Copy from “C:\Program Files\California ISO\ADS” to “C:\Program Files\California ISO\ADSv4.14.5.899”
- If the user’s workstation has an existing ADS shortcut on their desktop called “ADS”, rename the shortcut to “ADS v4.14.5.899”. [The ADS install process will overwrite the existing shortcut if the existing shortcut is not renamed.]
- Upgrade to the new client software v5.1.8, pointing to the ADS default location folder “C:\Program Files\California ISO\ADS”. Please refer to the installation steps at: [http://www.caiso.com/docs/09003a6080/15/cf/09003a608015cf7f.pdf](http://www.caiso.com/docs/09003a6080/15/cf/09003a608015cf7f.pdf)

**SIBR Pro-active Bid Submission for HE 16 and HE 17**

The ISO recommends market participants submit real-time transactions for bid and trade markets prior to 1 p.m. (Pacific Time) for hour ending (HE) 16 and 17. This is a proactive measure in the event that SIBR processing is not restored prior to the closing of those markets.

**SIBR WebService Deprecation**

The ISO’s DROP 2 deployment of SIBR will include the deprecation of some existing SIBR WebServices. Market Participants will no longer be able to successfully communicate with the following SIBR WebService endpoints after the SIBR Deployment in DROP 2:

- **RetrieveCleanBidSet**
  - [https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCleanBidSet_SIBR_AP](https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCleanBidSet_SIBR_AP)
  - [https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCleanBidSet_SIBR_DocAttach_AP](https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCleanBidSet_SIBR_DocAttach_AP) (with attachment)

- **RetrieveCurrentBidResults**
  - [https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCurrentBidResults_SIBR_AP](https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCurrentBidResults_SIBR_AP)
  - [https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCleanBidSet_SIBR_DocAttach_AP](https://wsstas.caiso.com:4445/sst/runtime.asvc/RetrieveCleanBidSet_SIBR_DocAttach_AP) (with attachment)

- **SubmitRawBidSet**
  - [https://wsstas.caiso.com:4445/sst/runtime.asvc/SubmitRawBidSet_SIBR_AP](https://wsstas.caiso.com:4445/sst/runtime.asvc/SubmitRawBidSet_SIBR_AP)
3. Cutover Activities and Tasks

<table>
<thead>
<tr>
<th>Task #</th>
<th>Start Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>External Impact</th>
<th>Task Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Preparation and Planning Activities</strong></td>
</tr>
<tr>
<td>1.10</td>
<td>November 1, 2010</td>
<td></td>
<td></td>
<td>Y</td>
<td>Go/No Go MSG Release Market Notice Published</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>MSG Code Drop 1</strong></td>
</tr>
<tr>
<td>2.10</td>
<td>November 2, 2010</td>
<td>4:00 PM</td>
<td>4:30 PM</td>
<td>Y</td>
<td>OASIS Upgraded (CAISO Integration – No Participant Changes)</td>
</tr>
<tr>
<td>2.20</td>
<td>4:00 PM</td>
<td>4:30 PM</td>
<td></td>
<td>Y</td>
<td>CMRI Upgraded</td>
</tr>
<tr>
<td>2.30</td>
<td>4:00 PM</td>
<td>4:30 PM</td>
<td></td>
<td>Y</td>
<td>Master File Application Upgraded</td>
</tr>
<tr>
<td>2.40</td>
<td>4:00 PM</td>
<td>4:30 PM</td>
<td></td>
<td>Y</td>
<td>RAAM Tool Upgraded</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>MSG Code Drop 2</strong></td>
</tr>
<tr>
<td>3.10</td>
<td>November 3, 2010</td>
<td>1:00 PM</td>
<td>3:00 PM</td>
<td>Y</td>
<td>Market Participant Phone Bridge Open</td>
</tr>
<tr>
<td>3.20</td>
<td>1:05 PM</td>
<td>1:45 PM</td>
<td></td>
<td>Y</td>
<td>Market Applications Upgraded after HASP Broadcasts Complete</td>
</tr>
<tr>
<td>3.30</td>
<td>1:05 PM</td>
<td>1:45 PM</td>
<td></td>
<td>Y</td>
<td>Real Time intervals will be missed and resolved via standard post process</td>
</tr>
<tr>
<td>3.40</td>
<td>1:05 PM</td>
<td>1:30 PM</td>
<td></td>
<td>Y</td>
<td>SIBR Upgraded</td>
</tr>
<tr>
<td>3.50</td>
<td>1:05 PM</td>
<td>1:45 PM</td>
<td></td>
<td>Y</td>
<td>SLIC Upgraded</td>
</tr>
<tr>
<td>3.60</td>
<td>1:05 PM</td>
<td>1:45 PM</td>
<td></td>
<td>Y</td>
<td>ADS Upgraded</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>[Participants should update to ADS Client version 5.1.8]</td>
</tr>
<tr>
<td>3.70</td>
<td>1:45 PM</td>
<td>2:15 PM</td>
<td></td>
<td>Y</td>
<td>First Hour Ahead Market post upgrade</td>
</tr>
</tbody>
</table>

**Potential for Outages:** Note that specific application deployment time periods above note the potential for Market Participant’s to experience brief outages. The ISO does not expect outages for the duration of the periods noted.

**Times:** Start and End Times are approximate and should be used as guidelines.

**Market Messages** will be sent at the start of the upgrade and once the cutover is complete from Real Time Operations through the standard Market Messaging system. Additional communication as needed will also be through standard Market Messaging.
4. Communications and Support

4.1 Cutover Support and Conference Bridge

As indicated in the cutover activities above, the ISO will have a conference bridge open for Participants to monitor cutover activities and communicate issues or questions directly to the ISO.

- The Bridge will be open from 1:00pm to 3:00pm on November 3, 2010

The conference information is listed below:

<table>
<thead>
<tr>
<th>Teleconference Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference Call-in: 866-528-2256</td>
</tr>
<tr>
<td>Pass code: 9365289</td>
</tr>
</tbody>
</table>

Conference call information can also be found on the ISO calendar: [http://www.caiso.com/meetings/index.cgi](http://www.caiso.com/meetings/index.cgi)

4.2 Routine Issues and Support

All normal support processes should be followed for support functions that are not specific to the Code Only MSG Deployment. These include: system connectivity issues, system availability issues, user account and permissions issues, etc. The ISO Help Desk can be reached at (916) 351-2309.

5. Reversion Notes

Participants should make appropriate plans to accommodate a reversion (e.g., back-up key systems and databases, ensure that personnel are prepared, etc.).

Communications from the ISO regarding a reversion (if necessary) will be via market notice. Additionally, as per the information listed above, the ISO will be hosting an open conference call during the critical hours of cutover and will make appropriate announcements on that call if necessary.