



Release Notes – Business Rules Version 11.8X Up to Post Fall 2023 Release for SIBR/BSAP/RC-BSAP

Revision History

Date	Version	By	Description
12/01/2023	1.0	WT	Initial Draft for Post Summer set. Priority Wheel Through (PWT) and modified Export Priority.



For the Release Notes **version 1.0 this will be the Baseline Release** and is referenced in the revision history as the Initial Draft.

For modifications and adjustments of the Business Rules(BR) for SIBR/BSAP/RC-BSAP that come after the Baseline Release the revision history will **show an Incremental change** with the new BR(vX.X.x). The incremental changes will be listed on top of the baseline.

The Baseline Release will identify all the Projects associated with the SIBR/BSAP/RC-BSAP Release and if there are any changes to the UI or API web services. Changes to the UI will be documented in the SIBR SC Users Guide, BSAP Users Guide, or the RC-BSAP Users Guide. Web services changes will be documented in the Technical Specifications and posting of the related artifacts on the application pages on our Developers site.

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//////////////////////////////////// Baseline Release //////////////////////////////////////

This set of Release Notes covers the changes going forward from the Business Rules Version 11.8.



Post-Fall 2023 Release Impacts

Business Rule changes within a release may force changes to the User Interfaces or Web Services depending on the requirement changes that are needed to support new or modified functionality within system applications. The following elements defined below give a quick overview of expected changes to the systems that interface with the Business Rules.

Application	Element	Change	Comment
SIBR	<i>SIBR UI</i>	<i>NO</i>	
	<i>SIBR Web Services</i>	<i>NO</i>	
	SIBR Rules	YES	PWT and Export Priority
BSAP	<i>BSAP UI</i>	<i>NO</i>	
	<i>BSAP Web Services</i>	<i>NO</i>	
	<i>BSAP Rules</i>	<i>NO</i>	
RC-BSAP	<i>RC-BSAP UI</i>	<i>NO</i>	
	<i>RC-BSAP Web Services</i>	<i>NO</i>	
	<i>RC-BSAP Rules</i>	<i>NO</i>	

Please visit the relevant user documentation on the Release Planning page for the updates to the documents associated to a specific Release.

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>

SIBR User Guide – UI changes will be documented in this document.

SIBR Interface Specifications - all web service (wsdl, xsd, xml) changes will be documented in this document.

<https://developer.caiso.com>

BSAP User Guide – UI changes will be documented in this document.

Base Schedule Interface Specification Web Services - all web service (wsdl, xsd, xml) changes will be documented in this document. <https://developer.caiso.com>



RC-BSAP User Guide – UI changes will be documented in this document.

RC Base Schedule Interface Specification Web Services - all web service (wsdl, xsd, xml) changes will be documented in this document. <https://developer.caiso.com>

Business Rules Post Faoo 2023 Release Projects (included Independent Projects)

The **Pre Summer 2023 Release** rules capture changes associated with the following projects targeted for implementation near June 2023 timeframe. The exception to this set of release notes is this is also capturing changes for current production prior to version 11 of the SIBR rules which is in production at this time.

TSMSP2 (Transmission Service Market Priority Phase 2)

This project entails the following:

1. Calculating PWT ATC
2. Awarding PWT ATC to PWT requests;
3. Using PWT awards in market operations;
4. Settling PWT award and schedules; and

Transmission planning for PWT capacity.

For both external and internal LSEs, it is an important issue to establish market scheduling priority for wheeling-throughs. A durable wheeling priority framework will support robust inter-regional trades that benefit everyone in the Western Interconnection.

<http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx> this set may also include updates to rule modifications not tied to a release.

The full set of the Business Rules promoted to Production and for Upcoming (future) Market Simulations can be seen under the SIBR user documentation under the Application Access/ in SIBR user documentation for all rules related to SIBR/BSAP/RC-BSAP.



<http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>

Revision History for Rules:

Version 11.7

Version	Date	Changes	Reference
11.8	10/10/2023	Added 10101 for PWT effective date - 6/1/2024	PWT
11.8	10/11/2023	Modified 33634, 33636 for PWT effective date	PWT
11.8	10/11/2023	Added 33637, 33638, 33639, 33640 for PWT validation for contract, position limit, counter resource.	PWT
11.8	10/11/2023	Added Terms PWT, PWT Contract, PWT Export, PWT Import	PWT
11.8	11/1/2023	Modified 53028 to use higher of RTPT or Elig RUC DALPT	ExpPri
11.8	11/1/2023	Modified 63048 for RTM DAEEC down cap added, removed upward EN condition	ExpPri
11.8	11/1/2023	Modified 63017, 63018 DAM EEC upward capacity	ExpPri
11.8	11/1/2023	Modified 63021, 63023 RTM DAS use	ExpPri

Revision of Terms for Pre Summer 2023 Release:

Name	Acronym	Definition
PWT		Priority Wheeling Through is a transaction contract with awards from the PWTA system (Priority Wheeling Through Allocation)
PWT Contract		An identified Export and Import resource with a Position Limit for a Trade Hour.
PWT Export		A registered Export Inter-Tie with a PWT Contract
PWT Import		A registered Import Inter-Tie with a PWT Contract



Business Rules Impacted – Post Fall 2023 Release:

Rule changes for the Version 11. 8.x are located below. Modified Text in red, new rules will be all red.

Market	Business Rule ID	Description	Comments
ALL	10101	The configurable PWT Effective Date must be initialized to '6/1/2024'.	PWT
ALL	33634	If there is a Wheeling Bid Component and a PT Self-Schedule Bid Component for a Registered Export Resource for a Trading Hour in an Export Resource Bid, the registered PT Export Indicator must be "Yes" for that Export Resource and Trading Hour, if the Bid Period is prior to the PWT effective Date	MFR: PT Export Indicator (Yes/No) for Registered Export Resources (default No).
ALL	33636	If there is a Wheeling Bid Component and a PT Self-Schedule Bid Component for a Registered Export Resource for a Trading Hour in an Export Resource Bid, the PT Self-Schedule Quantity specified in that PT Self-Schedule Bid Component must not be greater than the registered PT Export Capacity for that Export Resource and Trading Hour, if the Bid Period is prior to the PWT effective Date.	MFR: PT Export Capacity (MW) for registered Export Resources (default zero).
ALL	33637	If there is a Wheeling Bid Component and a PT Self-Schedule Bid Component for a registered Export Resource for a Trading Hour in an Export Resource Bid, there must be a PWT Contract for that PWT Export Resource and Trading Hour, if the Bid Period is on or after the PWT effective Date.	MFR: PT Export must have PWT Contract. PWT
ALL	33638	If there is a Wheeling Bid Component and a PT Self-Schedule Bid Component for a registered Export Resource for a Trading Hour in an Export Resource Bid, the PT Self-Schedule Quantity specified in that PT Self-Schedule Bid Component must not be greater than the PWT Position Limit for that PWT Export Resource and Trading Hour, if the Bid Period is on or after the PWT effective Date.	MFR: PT Export Capacity (MW) not to exceed PWT Position Limit. PWT
ALL	33639	If there is a Wheeling Bid Component and a PT Self-Schedule Bid Component for a registered Export Resource for a Trading Hour in an Export Resource Bid, the counter Wheeling Resource specified in the Wheeling Bid Component must be the PWT Import Resource identified in the PWT Contract for that PWT Export Resource and Trading Hour, if the Bid Period is on or after the PWT effective Date.	MFR: counter Wheeling Resource on the Export. All Exports with PT SS will be a PWT Export Resource. PWT

ALL	33640	If there is a Wheeling Bid Component and a PT Self-Schedule Bid Component for a registered Import Resource for a Trading Hour in an Import Resource Bid, and the Import Resource is a PWT Import Resource for that Trading Hour, the counter Wheeling Resource specified in the Wheeling Bid Component must be the PWT Export Resource identified in the PWT Contract for that PWT Import Resource and Trading Hour, if the Bid Period is on or after the PWT effective Date.	MFR: counter Wheeling Resource on the Import. PWT Import Resource identified in a PWT Contract will be a PWT Import Resource for that Trading Hour. PWT
RTM	53028	If there is a LPT Self-Schedule Bid Component, but no Wheeling Bid Component, for the Active Hour for an Export Resource in an Export Resource Bid, and there is a RTPT Self-Schedule Bid Component in the RTM Clean Bid for that Active Hour and Export Resource, that LPT Self-Schedule Bid Component must be promoted to a) a DALPT Self-Schedule Bid Component for that Active Hour in the RTM Clean Bid for that Export Resource with a DALPT Self-Schedule Quantity equal to the lower of i) the positive difference between the Eligible RUC DALPT Capacity for that Active Hour and Export Resource and the RTPT Self-Schedule Quantity specified in that RTPT Self-Schedule Bid Component, and ii) the LPT Self-Schedule Quantity specified in that LPT Self-Schedule Bid Component, and b) a RTLPT Self-Schedule Bid Component for that Active Hour in the RTM Clean Bid for that Export Resource with a RTLPT Self-Schedule Quantity equal to the positive difference between i) the sum of the RTPT Self-Schedule Quantity specified in that RTPT Self-Schedule Bid Component and the LPT Self-Schedule Quantity specified in that LPT Self-Schedule Bid Component, and ii) the higher of that Eligible RUC DALPT Capacity or the RTPT Self-Schedule Quantity specified in that RTPT Self-Schedule Bid Component. The SC specified in that Bid must be notified of the LPT Self-Schedule Bid Component promotion.	Export Resource with RTPT Self-Schedule; LPT to DALPT/RTLPT Self-Schedule promotion.
DAM	63017	If there is a Supporting Resource specified for a Trading Hour in an Export Resource PT Self-Schedule Bid Component, there is a Generating Resource Bid or a Non-Generator Resource Bid for that Supporting Resource with a Bid Period that includes that Trading Hour, and there is no Pumping Self-Schedule Bid Component or Load Self-Schedule Bid Component, but there is a Regulation Down Self-Provision Bid Component, a Regulation Up Self-Provision Bid Component, a Regulation Down Bid Component, or a Regulation Up Bid Component, for the Online Generating Resource State with the highest Upper Economic Limit for that Supporting Resource and Trading Hour, the Eligible PT Export Capacity of that Supporting Resource and Trading Hour must be calculated as the positive difference between a) the lower of i) the Upper Regulating Limit of the last (highest) registered Regulating Range for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus the Load Following Up Capacity specified in any Load Following Up Self-Provision Bid Component, minus the Regulation Up Self-Provision Capacity specified in any Regulation Up Self-Provision Bid Component, minus the Spinning Reserve Self-	Regulation. $EEC = \max(0, \min(URL - LFU - RU - SR - NS, UEL) - \max(RAC, \sum TORSS + \sum ETCSS))$

		Provision Capacity specified in any Spinning Reserve Self-Provision Bid Component, minus the Non-Spinning Reserve Self-Provision Capacity specified in any Non-Spinning Reserve Self-Provision Bid Component, for that Online Generating Resource State of that Supporting Resource and Trading Hour, or ii) the Upper Economic Limit for that Online Generating Resource State of that Supporting Resource and Trading Hour, and b) the higher of i) the RA Capacity or the Flexible RA Capacity if the RA Flag or the Flexible RA Flag is "Yes" for that Supporting Resource and Trading Hour, or zero otherwise, or ii) the sum of the Self-Schedule Quantities specified in all TOR and ETC Self-Schedule Bid Components for that Trading Hour in that Supporting Resource Bid.	
DAM	63018	If there is a Supporting Resource specified for a Trading Hour in an Export Resource PT Self-Schedule Bid Component, there is a Generating Resource Bid or a Non-Generator Resource Bid for that Supporting Resource with a Bid Period that includes that Trading Hour, and there is no Pumping Self-Schedule Bid Component or Load Self-Schedule Bid Component, no Regulation Down Self-Provision Bid Component, no Regulation Up Self-Provision Bid Component, no Regulation Down Bid Component, and no Regulation Up Bid Component, for the Online Generating Resource State with the highest Upper Economic Limit for that Supporting Resource and Trading Hour, the Eligible PT Export Capacity of that Supporting Resource and Trading Hour must be calculated as the positive difference between a) the lower of i) the registered Maximum Capacity for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus the Load Following Up Capacity specified in any Load Following Up Self-Provision Bid Component, minus the Spinning Reserve Self-Provision Capacity specified in any Spinning Reserve Self-Provision Bid Component, minus the Non-Spinning Reserve Self-Provision Capacity specified in any Non-Spinning Reserve Self-Provision Bid Component, for that Online Generating Resource State of that Supporting Resource and Trading Hour, or ii) the Upper Economic Limit for that Online Generating Resource State of that Supporting Resource and Trading Hour, and b) the higher of i) the RA Capacity or the Flexible RA Capacity if the RA Flag or the Flexible RA Flag is "Yes" for that Supporting Resource and Trading Hour, or zero otherwise, or ii) the sum of the Self-Schedule Quantities specified in all TOR and ETC Self-Schedule Bid Components for that Trading Hour in that Supporting Resource Bid.	No Regulation. $EEC = \max(0, \min(P_{max} - LFU - SR - NS, UEL) - \max(RAC, \Sigma TORSS + \Sigma ETCSS))$
RTM	63048	If there is a Supporting Resource specified for a Trading Hour in an Export Resource PT Self-Schedule Bid Component, there is a Generating Resource Bid or a Non-Generator Resource Bid for that Supporting Resource for that Trading Hour, and there is no Pumping Self-Schedule Bid Component or Load Self-Schedule Bid Component in that Bid, the Day-Ahead Eligible PT Export Capacity for that Supporting Resource and Trading Hour must be calculated as the positive difference between a) the Day-	$DAEEC = \max(0, DAS - LFD - \max(RAC, \Sigma TORSS + \Sigma ETCSS))$

		Ahead Schedule of that Supporting Resource and Trading Hour minus the Load Following Down Capacity specified in any Load Following Down Self-Provision Bid Component, if any, for that trading Hour in that Supporting Resource Bid, and b) the higher of i) the RA Capacity or the Flexible RA Capacity if the RA Flag or the Flexible RA Flag is "Yes" for that Supporting Resource and Trading Hour, or zero otherwise, and ii) the sum of the Self-Schedule Quantities specified in all TOR and ETC Self-Schedule Bid Components for that Trading Hour in that Supporting Resource Bid.	
RTM	63021	If there is a Supporting Resource specified for a Trading Hour in an Export Resource PT Self-Schedule Bid Component, and there is a Generating Resource Bid or a Non-Generator Resource Bid for that Supporting Resource and Trading Hour with no Pumping Self-Schedule Bid Component or Load Self-Schedule Bid Component, but with a Regulation Up Self-Provision Bid Component, a Regulation Down Bid Component, a Regulation Up Bid Component, for the Online Generating Resource State with the highest Upper Economic Limit for that Supporting Resource and Trading Hour, or a Day-Ahead Regulation Award for that Online Generating Resource State of that Supporting Resource and Trading Hour, the Eligible PT Export Capacity of that Supporting Resource and Trading Hour must be calculated as the positive difference between a) the lower of i) the Upper Regulating Limit of the last (highest) registered Regulating Range or the Upper Economic Limit for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus the Load Following Up Capacity specified in any Load Following Up Self-Provision Bid Component, minus the Regulation Up Self-Provision Capacity specified in any Regulation Up Self-Provision Bid Component, minus the Spinning Reserve Self-Provision Capacity specified in any Spinning Reserve Self-Provision Bid Component, minus the Non-Spinning Reserve Self-Provision Capacity specified in any Non-Spinning Reserve Self-Provision Bid Component, for that Online Generating Resource State of that Supporting Resource and Trading Hour, or ii) the Upper Economic Limit for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus the Load Following Up Capacity specified in any Load Following Up Self-Provision Bid Component, the Spinning Reserve Self-Provision Capacity specified in any Spinning Reserve Self-Provision Bid Component, minus the Non-Spinning Reserve Self-Provision Capacity specified in any Non-Spinning Reserve Self-Provision Bid Component, for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus any Day-Ahead Spinning and Non-Spinning Reserve Awards for that Online Generating Resource State of that Supporting Resource and Trading Hour, and b) the higher of i) the Day-Ahead Schedule for that Supporting Resource and Trading Hour, or ii) the sum of the Self-Schedule Quantities specified in all TOR and ETC Self-Schedule Bid Components for that Trading Hour in that Supporting Resource Bid.	Regulation $EEC = \max(0, \min(URL - LFU - RU - SR - NS, UEL-LFU-SR-NS) - \max(DAS, \Sigma TORSS + \Sigma ETCSS))$



RTM	63023	<p>If there is a Supporting Resource specified for a Trading Hour in an Export Resource PT Self-Schedule Bid Component, and there is a Generating Resource Bid or a Non-Generator Resource Bid for that Supporting Resource and Trading Hour with no Pumping Self-Schedule Bid Component or Load Self-Schedule Bid Component, no Regulation Down Self-Provision Bid Component, no Regulation Up Self-Provision Bid Component, no Regulation Down Bid Component, no Regulation Up Bid Component, for the Online Generating Resource State with the highest Upper Economic Limit for that Supporting Resource and Trading Hour, and no Day-Ahead Regulation Award for that Online Generating Resource State of that Supporting Resource and Trading Hour, the Eligible PT Export Capacity of that Supporting Resource and Trading Hour must be calculated as the positive difference between a) the lower of i) the registered Maximum Capacity for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus the Load Following Up Capacity specified in any Load Following Up Self-Provision Bid Component, minus the Spinning Reserve Self-Provision Capacity specified in any Spinning Reserve Self-Provision Bid Component, minus the Non-Spinning Reserve Self-Provision Capacity specified in any Non-Spinning Reserve Self-Provision Bid Component, for that Online Generating Resource State of that Supporting Resource and Trading Hour, or ii) the Upper Economic Limit for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus the Load Following Up Capacity specified in any Load Following Up Self-Provision Bid Component, minus the Spinning Reserve Self-Provision Capacity specified in any Spinning Reserve Self-Provision Bid Component, minus the Non-Spinning Reserve Self-Provision Capacity specified in any Non-Spinning Reserve Self-Provision Bid Component, for that Online Generating Resource State of that Supporting Resource and Trading Hour, minus any Day-Ahead Spinning and Non-Spinning Reserve Awards for that Online Generating Resource State of that Supporting Resource and Trading Hour, and b) the higher of i) the Day-Ahead Schedule for that Supporting Resource and Trading Hour, or ii) the sum of the Self-Schedule Quantities specified in all TOR and ETC Self-Schedule Bid Components for that Trading Hour in that Supporting Resource Bid.</p>	<p>No Regulation. $EEC = \max(0, \min(P_{max} - LFU - SR - NS, UEL - LFU - SR - NS) - \max(DAS, \Sigma TORSS + \Sigma ETCSS))$</p>
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The full set of the Business Rules can be seen under SIBR user documentation under the Application Access/ in SIBR user documentation for all rules related to SIBR/BSAP/RC-BSAP.

<http://www.caiso.com/participate/Pages/ApplicationAccess/Default.aspx>



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