



Release Notes – Business Rules Version 10x Up to Spring 2019 Release for SIBR/BSAP/RC-BSAP

Revision History

Date	Version	By	Description
11/27/2018	1.0	WT	Initial Draft for Spring 2019 set. RC Base Schedule addition



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 Release Planning page or Application Access page for the respective changes.

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

This set of Release Notes covers the changes going forward from the Business Rules Version 10.0



Spring 2019 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
<i>SIBR</i>	<i>SIBR UI</i>	<i>NO</i>	
	<i>SIBR Web Services</i>	<i>NO</i>	
	<i>SIBR Rules</i>	<i>NO</i>	
<i>BSAP</i>	<i>BSAP UI</i>	<i>NO</i>	
	<i>BSAP Web Services</i>	<i>NO</i>	
	<i>BSAP Rules</i>	<i>NO</i>	
RC-BSAP	RC-BSAP UI	YES	New UI
	RC-BSAP Web Services	YES	New Web Services
	RC-BSAP Rules	YES	New Rules

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.

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.

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.

Business Rules Spring Release Projects (included Independent Projects)

The **2019 Spring Release** rules capture changes associated with the following projects targeted for implementation near April/May 2019 timeframe. <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 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: (10.0)

Version	Date	Changes	Reference
10.0	8/24/2018	Removed deleted rules.	RC
10.0	8/24/2018	Modified Base Schedule and Base Schedule Coordinator terms and added terms for Aggregate Non-Generator Resource, Aggregate Resource, Reliability Coordinator, RC Entity, RC Entity BSC, RC Inter-Tie, and RC Resource.	RC
10.0	8/24/2018	Modified 28001, to use the general Aggregate Resource term.	RC
10.0	8/24/2018	Modified 38101 and 48101 to use the general Aggregate Resource term and deleted 38105 and 48102.	RC
10.0	8/24/2018	Generalized the Real-Time Base Schedule and Real-Time Demand Forecast Cutoff Time terms to apply to both EIM and RC Resources and added terms for a Fourth and a Fifth Cutoff Time.	RC



10.0	8/24/2018	Added 10068-10069 to initialize Real-Time Base Schedule Fourth and Fifth Cutoff Times.	RC
10.0	8/24/2018	Add RC Entity in 10018.	RC
10.0	8/24/2018	Added 30045-30047 for RC Resource Base Schedule Content.	RC
10.0	8/24/2018	Added 38057-38061 for RC Resource Base Schedule Validation.	RC
10.0	8/24/2018	Added 58009-58010 for RC Resource Base Schedule Final Processing.	RC
10.0	8/24/2018	Added DRC and RRC rule flows.	RC

Revision of Terms for Spring 2019 Release:

Name	Acronym	Definition
Aggregate Non-Generator Resource		A Non-Generator Resource that is a group of Non-Generator Resources scheduled or dispatched as a single Non-Generator Resource.
Aggregate Resource		An Aggregate Generating Resource or an Aggregate Non-Generator Resource.
Base Schedule	BS	The Energy or Ancillary Service Schedule of a RC Resource or an EIM Resource before the EIM.
Base Schedule Coordinator	BSC	A Market participant authorized by the CAISO to submit Base Schedules for an EIM or RC Resource.
Reliability Coordinator	RC	The entity providing reliability services (CAISO).
RC BAA		A non-EIM BAA that joins the RC.
RC Entity		A BAA operator for one or more non-EIM BAAs that join the RC.
RC Entity BSC		The BSC of an RC Entity for a RC BAA. It is the BSC for all RC Resources in that BAA and all Intertie Transactions from/to non-EIM BAAs to/from that RC BAA.
RC Inter-Tie		An Inter-Tie from a RC BAA to a non-EIM BAA.
RC Resource		A Resource in a RC BAA.
Real-Time Base Schedule Fifth Cutoff		The fifth and final cutoff time when Base Schedules can be submitted in the RTM for the Active



Time		Hour. Used only for RC Resources.
Real-Time Base Schedule Fourth Cutoff Time		The fourth cutoff time when Base Schedules can be submitted in the RTM for the Active Hour. Used only for RC Resources.

Business Rules Impacted – Spring 2019 Release:

Rule changes for the Version 10.0x are located below. Modified Text in red, new rules will be all red.

New rules 10.0 are as follows:

Market	Business Rule ID	Description	Comments
RTM	10068	The configurable Real-Time Base Schedule Fourth Cutoff Time must be initialized to 25 minutes before the start of the Active Hour.	T-25' RC Base Only
RTM	10069	The configurable Real-Time Base Schedule Fifth Cutoff Time must be initialized to 15 minutes before the start of the Active Hour.	T-15' RC Base Only
ALL	10018	Users may submit Bids, submit Trades, generate Reports, and receive notices and warnings, only on behalf of Scheduling Coordinators or RC Entities for which they are authorized.	
BS	28001	The Base Schedule must include a Base Energy Schedule (MW); it must also include a Base Generating Resource State, if and only if the Resource specified in the Base Schedule is a Generating Resource registered as a MSG for the Base Schedule Period specified in the Base Schedule; if the Resource specified in the Base Schedule is a Generating Resource not registered as an ETSR or a DSR for that Base Schedule Period, the Base Schedule may also include any of the following: 1) a Base Regulation Up Schedule (MW); 2) a Base Regulation Down Schedule (MW); 3) a Base Spinning Reserve Schedule (MW); 4) a Base Non-Spinning Reserve Schedule (MW); and 5) at most one Distribution Bid Component, if and only if the Resource specified in the Base Schedule is registered as an Aggregate Resource for the Base Schedule Period specified in the Base Schedule.	MFR: ETSR and DSR registration; ETSR/DSR are System Resources defined in mirrored pairs (Import to an Export and vice-versa). A non-zero Base Energy Schedule for an Online Base Generating Resource State indicates self-commitment.
RRC	30045	A Base Schedule for the Active Hour may not be submitted after the Real-Time Base Schedule Fifth Cutoff Time.	Applies to RC Resources.



RC	30046	A valid Base Schedule with the same Base Schedule Coordinator, Resource, and Base Schedule Period, with an earlier valid Base Schedule, must make the earlier Base Schedule obsolete.	Base Schedule obsolescence. Applies to RC Resources.
RRC	30047	A valid Base Schedule may be canceled by the Base Schedule Coordinator that submitted that Base Schedule at any time before the Real-Time Base Schedule Fifth Cutoff Time that corresponds to that Trading Hour.	Base Schedule canceling. Applies to RC Resources.
RC	38057	If the Resource specified in a Base Schedule is a Registered Resource, it must be registered as a RC Resource for the Base Schedule Period specified in that Base Schedule.	MFR: RC Resource designation in Resource registry (MO=N, EIM=N, RC=Y). Base Schedules may be submitted only for RC Resources.
RC	38058	If the Resource specified in a Base Schedule is an Inter-Tie Transaction, its Primary Inter-Tie must be registered as a RC Inter-Tie for the Base Schedule Period specified in that Base Schedule.	MFR: Inter-Tie registry. RC Inter-Tie designation in Inter-Tie registry. Base Schedules for Intertie Transactions may be submitted only on RC Inter-Ties.
RC	38059	The Base Schedule Coordinator specified in a Base Schedule for a Registered Resource must be the RC Entity BSC of the RC Entity of the RC BAA of that Resource.	Only the RC Entity BSC may submit Base Schedules for its RC Resources.
RC	38060	The Base Schedule Coordinator specified in a Base Schedule for an Inter-Tie Transaction must be the RC Entity BSC of the RC Entity of the RC BAA at the sending end of the Primary Inter-Tie of that Inter-Tie Transaction.	Only the RC Entity BSC may submit Base Schedules for Inter-Tie Transactions on its RC Inter-Ties.
RC	38061	The Base Schedule Coordinator specified in a Base Schedule for a Registered Resource must be authorized to submit Base Schedules for that Resource and Trading Hour.	
BS	38101	The Resource specified in a Base Schedule that has a Base Schedule Distribution Bid Component must be registered as an Aggregate Resource for the Base Schedule Period specified in the Base Schedule.	
DEL	38105	The Non-Generator Resource specified in a Base Schedule that has a Base Schedule Distribution Bid Component must be registered as an Aggregate Non-Generator Resource for the Base Schedule Period specified in the Base Schedule.	Covered by 38101.
BS	48101	If there is no Distribution Bid Component for a Trading Hour in a Base Schedule, but the Resource specified in that Base Schedule is registered as an Aggregate	GDF Library Requirement: Distribution Pairs (Distribution



		Resource for that Trading Hour, a Distribution Bid Component must be generated for that Trading Hour in that Base Schedule with the applicable Distribution Pairs from the GDF Library for that Aggregate Resource and Trading Hour.	Location, Distribution Factor) for Aggregate Resources.
DEL	48102	If there is no Distribution Bid Component for a Trading Hour in a Base Schedule, but the Non-Generating Resource specified in that Base Schedule is registered as an Aggregate Generating Resource for that Trading Hour, a Distribution Bid Component must be generated for that Trading Hour in that Base Schedule with the applicable Distribution Pairs from the GDF Library for that Non-Generating Resource and Trading Hour.	Covered by 48101.
DRC	58009	The system must broadcast all Base Schedules after the Day-Ahead Base Schedule Cutoff Time.	
RRC	58010	The system must broadcast all Base Schedules after each Real-Time Base Schedule Cutoff Time.	

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>

END Document