

Elite Bonusing Suite 23.4

User Release Notes

Intended Audience

Sales and Marketing Team Casino Management Team Slot Management Team







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Bally

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Overview

This document describes the introduction of a new product, Player Boutique, and modifications made as part of the Elite Bonusing SuiteTM (EBS) 23.4 release. This document also includes the list of features merged from the previous versions of EBS to the EBS 23.4 release.

Snapshot

- New Product
 - Player Boutique is a newly designed application in EBS.
- Modifications
 - Random Number Generation (RNG) logic changed
 - EBS Database maintenance performance improvement
 - Restricted the User credentials entry in the log file







New Product

This chapter describes the Player Boutique product that is introduced as part of the EBS 23.4 release.

What is Player Boutique?

Player Boutique is a new player choice application in EBS that is used to reward customized gifts for eligible players based on the qualifying points accumulated from the base game played.

This promotion has multiple prize tiers that contain various gifts such as, *iPad*, *iPhone*, and *Handbag*, for each prize tier. Players become eligible for these gifts based on the wagering made on the base game.

All gifts defined for a promotion are displayed in a boutique in the iVIEW 4.0 screens. Eligible players can pick and redeem the prize for the qualifying points accumulated. The cost of each qualifying point is defined when the promotion is created. If the player's wager amount is equivalent to the qualifying cost defined in the promotion, the player becomes eligible to redeem the respective gift.



Game Play in iVIEW

The boutique of gifts at different qualifying point levels encourages the player to wager more to redeem gifts allocated for higher wager amounts. A real-time progress bar increments in iVIEW when a player wagers on the base game. If the player wagers the required amount specified for the prize in the promotion, the **Claim** button is enabled next to that gift item in iVIEW.

The inventory will be linked to a third-party service provider who can mail gifts to player's address. Thus, players can opt to receive the gift from casino or deliver to their home address.



EBS 23.4 release does not support the integration of Player Boutique with a third-party service provider.

The **Product Management** screen is used to view gift or product details or import the product details to Platform that are used to reward players of the Player Boutique promotions. For more information, refer to the **Product Management in Platform Tools Menu** section in the *EBS 23.4 User Release Notes*.

Key Features

- Design customized promotions based on eligibility.
- Facilitate multiple prize redemptions for eligible players.
- Allow player preference in prize selection from a boutique of multiple gifts.
- Display real-time progress bar to indicate player's wager progress in iVIEW to redeem the gift.
- Prompt players for an extended play to participate in promotion and redeem their gift.
- Support the Pick up at Casino prize delivery option.



Though the *Mailing to Address* delivery option is available in the Player Boutique application, it will be functional only in future releases.

- Facilitates resolution of the player disputes and queries on gift redemption through the Gift LookUp screen.
- Display alerts on *Low Stock* and *Out of Stock* statuses of inventory.

Game Play Scenarios

These scenarios provide a high-level redemption options for players at the slot machine:

1 Player Redeems Gift

If the player wagers the required amount for prize redemption, the real-time gifts allocated for the Claim button is enabled in iVIEW, and the player can claim the gift by selecting it.

2 Expiration Duration for Gift Redemption

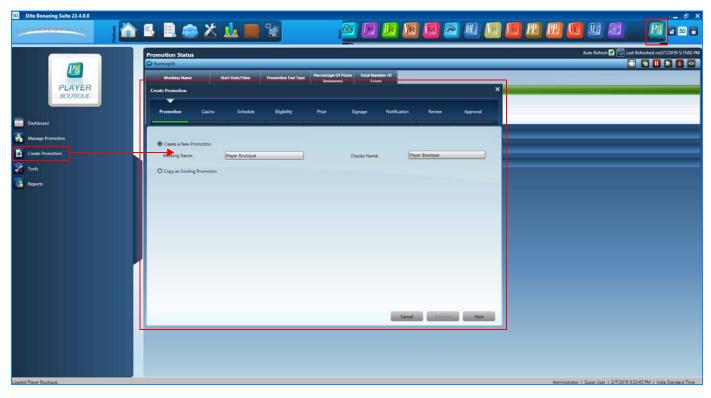
If the player initiates the redemption process and does not reach out to the casino front desk within the configured redemption period, the gift expires and the player cannot redeem the gift. However, if the player approaches the casino employee with an issue that the player was unaware of the expiration period and demands for the gift redemption, the casino employee can use the **Gift LookUp** screen to resolve the auto-cancelled order for players who have wagered the required amount.

User Interface Changes in EBS

Create Promotions

A new icon has been added to the EBS application for **Player Boutique**. You can perform the following functions using the Player Boutique **Create Promotion** wizard in EBS:

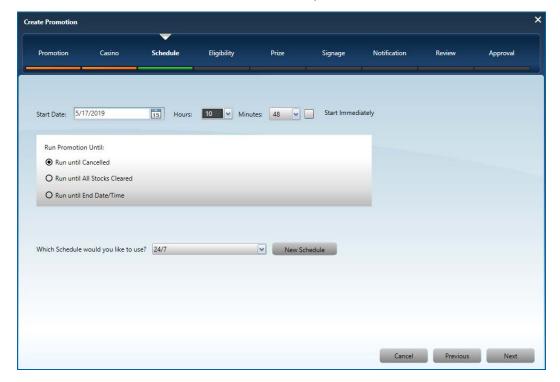
- Specify a new name for the **Promotion**.
- Select the required Casinos.
- Define the **Schedule** for the promotion.
- Define the **Eligibility** criteria for the promotion.
- Setup the **Prize** awarded for the promotion.
- Create the Signage messages.
- Define the Notifications to user for the promotion.
- **Review** and provide **Approval** for the promotion.



Schedule Setup

The run time and the end conditions for a promotion can be set in the **Schedule** window of **Create Promotion** wizard. The following end conditions are selected from the **Run Promotion Until** section:

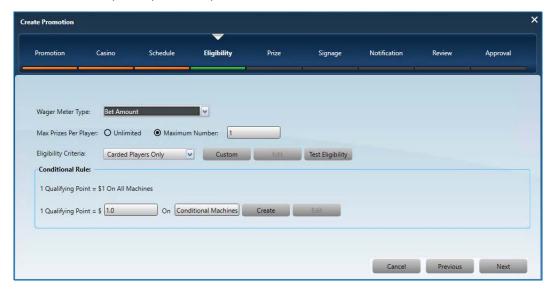
- Run until Cancelled Promotion runs until it is canceled from the Manage Promotions window.
- Run until All Stocks Cleared Promotion runs until the gift stocks defined in the promotion are completely cleared.
- Run until End Date/Time Promotion runs until the specified end date and time.



Eligibility Setup

The **Eligibility** window is used to set up the following:

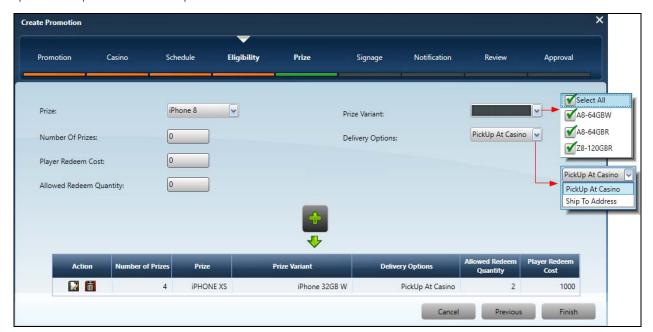
- Wager Meter Type The type of wager to be considered eligible for the promotion. Currently, the *Bet Amount* and *Theo. Adjustment Bet* options are available.
- Max Prizes Per Player The maximum number of times a player can redeem gifts allocated for the promotion. The available options are *Unlimited* or a defined *Maximum Number*.
- Eligibility Criteria The eligibility criteria for players to qualify.
- **Conditional Rule** The rule defined per point based on which the accrual rates are applied to the eligible machines that participate in a promotion.



Prize Setup

The Prize window is used to setup up the gifts that are to be awarded to the players who meet the eligibility criteria:

- **Prize** The type of prize that is available for the promotion to award from the set inventory.
- Prize Variant The various options available for the selected prize type. You can select all or a
 particular variant.
- Number Of Prizes The number of prizes allocated for the selected prize type.
- **Delivery Options** The gift-delivery option for the players. The *Casino pickup* and *Home delivery* options are available.
- Player Redeem Cost The cost set for the player to become eligible for the promotion. The cost is arrived by calculating the wager amount in accordance with the conditional rule set in the Eligibility window.
- **Allowed Redeem Quantity** The maximum number of prizes that can be claimed by a player for a particular prize within the promotion duration.





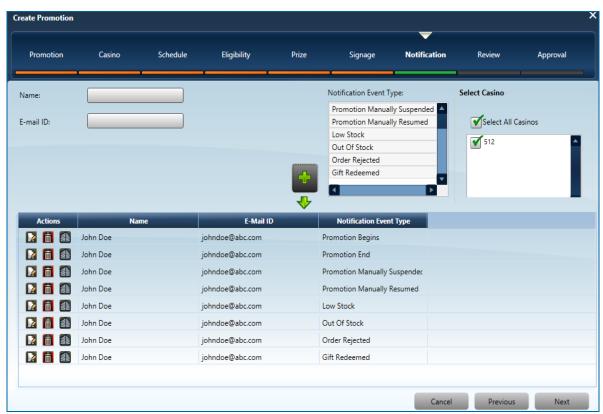
It is recommended to add the same prize only once to the prize grid.

Notification Setup

The **Notification** window is used to set up Player Boutique to send e-mails to specific users when an event occurs. The different types of notifications available to send are determined based on the configurations in EBS.

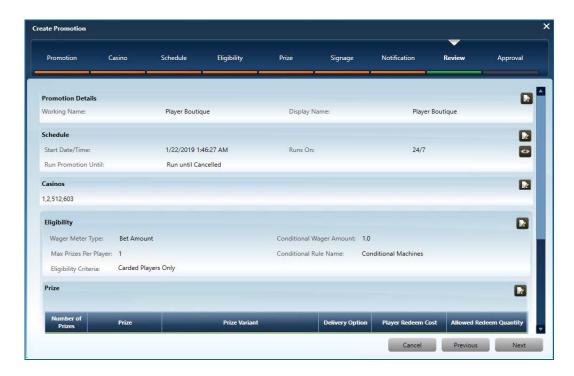
The different types of notifications that can be sent are:

- The *Promotion Begins* notification when a promotion starts.
- The *Promotion End* notification when promotion ends before the specified schedule, or when the promotion meets the end condition defined in the promotion settings.
- The *Promotion Manually Suspended* notification when a promotion is manually suspended.
- The *Promotion Manually Resumed* notification when a promotion is manually resumed.
- The Low Stock notification when the stock quantity reduces to the defined level in EBS.
- The Out Of Stock notification when the stock is cleared completely.
- The Order Rejected notification when the order is rejected from the third-party service provider for reasons such as out of stock or invalid address. This type is not supported in the EBS 23.4 release.
- The *Gift Redeemed* notification when the gift item allocated to the player is awarded to them.

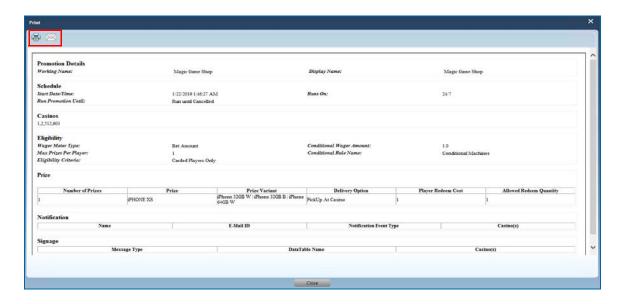


Review Promotion Details

The **Review** window provides a summary of the promotion details. The details of all windows in the **Create Promotion** wizard can be viewed on the **Review** window.



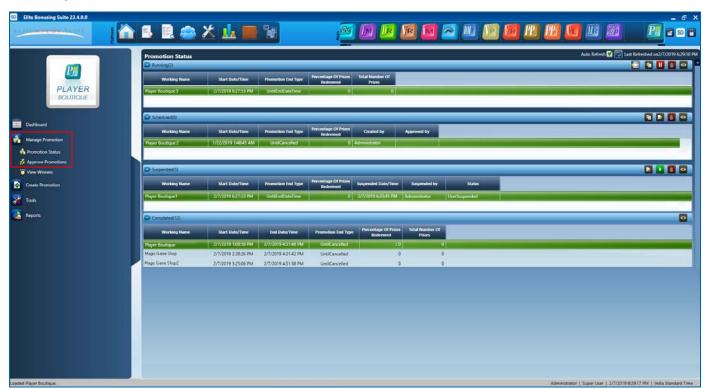
This window also provides an option to print or e-mail the promotion summary details.



Manage Promotions

The following options are available in the **Manage Promotions** menu:

- **Promotion Status** View various statuses of a promotion and manage the run-time of each promotion:
 - **Scheduled** when the promotion is created and approved and till the promotion start date and time is reached. The user can view, edit, or cancel the scheduled promotions and view the eligibility summary based on the assigned user permissions.
 - **Running** when the promotion has started and is actively running. The user can view or cancel the running promotion, view the eligibility summary, and prize summary based on the assigned user permissions. You can also manually suspend a running promotion.
 - **Suspended** when promotions were manually or automatically suspended in EBS. The user can view, resume, edit, or cancel suspended promotions based on the assigned user permissions.
 - **Completed** when promotions have completed successfully. The user can view the details of each promotion.



■ **Approve Promotions** – Specific users are granted permissions to approve the promotion that is not approved at the time of creation. You can review, modify, approve, or delete the details of the promotion.

Manage Tools

The **Tools** menu lists the following options:

Manage Signage DataTable

This feature is used to configure data tables by mapping a signage message type to a data table name. When you create a data table name, the same data table name is created and saved in the signage application (for example, CoolSign).

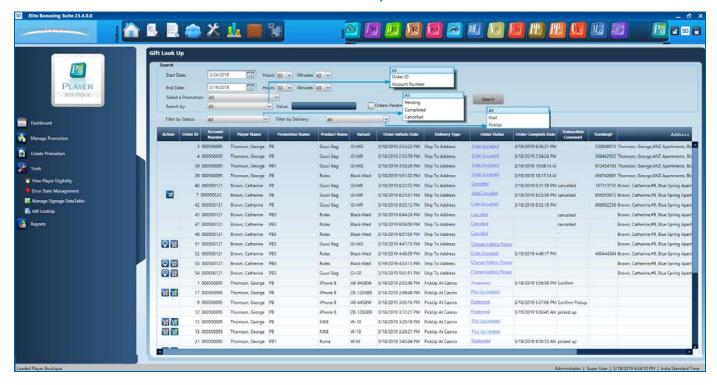
■ Gift LookUp

This feature is used to view the current status of different orders and take appropriate actions based on the status. You can also cancel orders, confirm pickup of an order with the *Pickup* delivery option, change address of a player to ship to the specified destination for an order with the *Ship to Address* delivery option, and resolve the auto-canceled orders.

All orders can be viewed in the **Gift LookUp** screen using different search/filter criteria:

- Search for a promotion or A//.
- Filter by status of the Order: *Pending*, *Completed*, or *Cancelled*.
- Filter by delivery options provided: send by *Mail* or *Pickup* order from casino front desk.
- Search by specific Date range. The date range fields are disabled if any one of the following search criteria is selected.
 - Player Boutique Order ID or Account Number of the player.
 - Any orders that are pending with casino operator.

Gift Look Up screen



The options in the **Gift Look up** screen are explained in the following table:

Field	Description
Action	The following action buttons are available:
	or the raised request.
	- To cancel the order pickup at the casino or the change address request.
	🔀 - To confirm the order pickup at casino.
	- To resolve the player related issues when player exceeds the time allocated for changing their mailing address or picking up the gift item from the casino club desk once the order is initiated.
Order ID	The unique Order ID generated in EBS for the prizes that are claimed by players.
Account Number	The account number of the player who claimed the prize.
Player Name	The name of the player.
Promotion Name	The name of the promotion.
Product	The name of the product for which the order is raised.
Variant	The various variants available for the selected product type.
Order Initiated Date	The date and time the order request was raised by the player from iVIEW.
Delivery Type	The delivery options selected in iVIEW by the player to redeem gifts. The delivery options can be by <i>Ship To Address</i> or <i>Pickup At Casino</i> .

Description Field Order Status Casino employee can inform the player about the status of their order and change the address based on the request initiated by the player. The history of each order can be viewed by clicking on the order The different statuses of the orders generated in EBS for the Pickup and Mail delivery options are as follows: **Order Status** Description Pick Up Pick Up Initiated If the pickup of gift is initiated by the player from iVIEW. Redeemed If the gift is rewarded to the player at the player booth or front desk. By Mail Order Accepted If the mail order is submitted by the player from iVIEW and is accepted by the third-party service provider. If the address change is initiated by the player from iVIEW. Change Address Requested The address change is only initiated for a specific Order ID. This address change will not be reflected for the other orders (Order ID) initiated by the player. Address Updated If the player address is updated, an intermediate status is displayed until the order is submitted to the third-party service provider system. Order Rejected If the order is rejected from the third-party service provider for reasons such as out of stock or invalid address. Inventory Offline If the third-party service provider system status is offline, while the order is submitted. **Auto Cancelled** If the order is initiated and a player exceeds the time allocated to change the address or redeem the gift item from the casino front desk. This order status is applicable for both Pick Up and Change of Address. Order Complete Date The date and time the order was completed. The following status change occurs for the completed orders: Order Accepted for Ship to Address delivery type. Redeemed for the PickUp at casino delivery type. The comment provided by user when updating the shipping address, confirming the order, or canceling **Transaction Comment** the order.

Field	Description
Tracking#	The unique number generated in the e-commerce service provider or the third-party service provider to track the order when the order is accepted for processing. EBS uses this tracking number for communicating with third-party service provider.
Address	The player's shipping address updated for mailing the gift items.

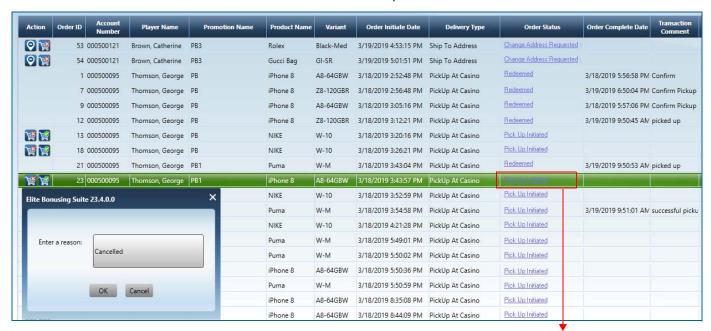
lacktriangledown A casino employee can also cancel (lacktriangledown) or confirm (lacktriangledown) the order as required.

Complete and Confirm Order Pickup at Casino



The **Order Status** changes to *Redeemed* after the order confirmation

Cancel Order Pickup at Casino



The **Order Status** changes to *Cancelled* after the order cancellation

Authorized casino personnel can update the player's mailing address using the oicon based on the request raised by the player from iVIEW.



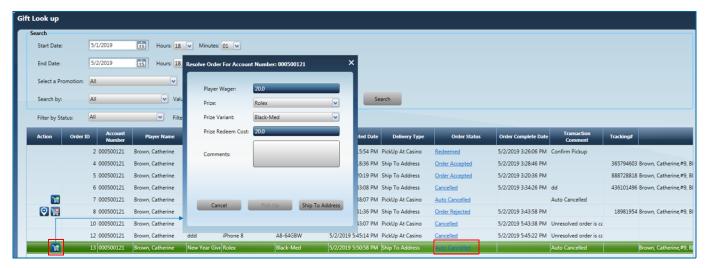
A Once the address is changed, the **Order Status** is displayed as *Address Updated*. This is an intermediate status.



B When the order status is in *Address Updated*, the EBS monitoring service picks the order and submits the order to the third-party service provider. Thus, the order status changes to *Order Accepted* and the **Transaction Number** associated with the order in the third-party service provider system is updated in EBS.



Casino employee can resolve player related disputes using the icon. If a player exceeds the time allocated to change the address or redeem the gift item from the casino front desk after the order initiation, the order status changes to Auto Cancelled. When the player approaches the casino employee with a dispute on redeeming the prize, this icon is used to resolve the order. The order can be confirmed for gift pickup or perform change of address based on the delivery type that the player has opted for claiming the prize and has required wager amount.

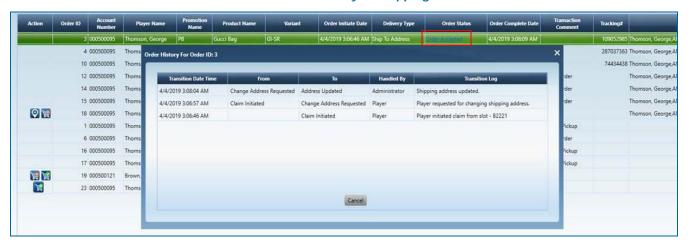




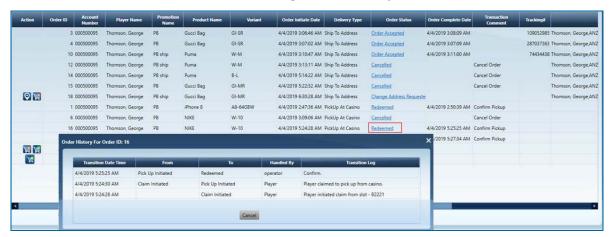
The auto-cancellation of a prize can be configured by selecting the **Enable timer and auto cancel of unresolved orders** check box in the **Application Settings** section of *Player Boutique* in the **Elite Bonusing Suite Configuration Utility**. If this option is not selected, the prize will not be auto-cancelled.

 Casino employee can view the order history by clicking on the Order status values that are hyper-linked.

View Order History of Shipping Order



View Order History of Order Pickup at Casino



View Order History of Auto Cancelled Order Status



Manage Dashboard

The **Dashboard** screen provides a graphical representation of the gifts that are rewarded for all running promotions and displays the alert messages defined for various scenarios for each promotion.

The following options are available in Player Boutique dashboard:

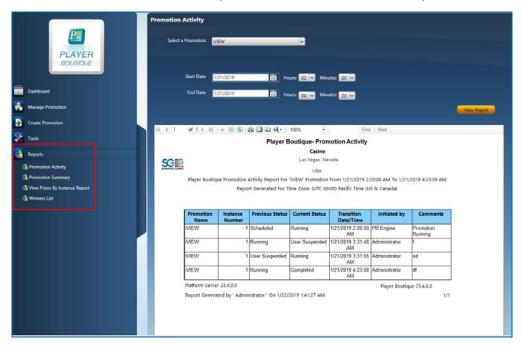
- Running Promotions Lists all Player Boutique promotions that are in Running status.
- **Gift Redemption Details** A graphical representation of the gift redemption status and the number of gifts in stock are displayed for the selected promotion in the **Running Promotions** section.
 - The **green** color bar indicates the count of the available prizes.
 - The **red** color bar indicates the count of the redeemed prizes.
- Inventory Provider Status Lists the status of the third-party service provider, the alert generated date, and the date and time the status was last updated. The status can be *Offline* or *Online*. For example, the third-party service provider can be **Gift&Go**.
- **Alerts** Lists the alert notifications received from EBS for all Player Boutique promotions based on the following events that occur during the gift redemption process:
 - Address Change If the player initiates an address change while redeeming their gifts for a promotion.
 - Low Stock If the number of prizes in the stock reduces to the defined level in the promotion.
 - Out Of Stock If the number of prizes defined in the stock is cleared completely for the promotion.
 - Order Rejected If the order is rejected from the third-party service provider for reasons such as out
 of stock or invalid address.



Generate Reports

The following options are available in the **Reports** menu:

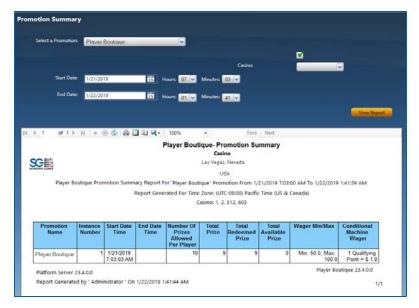
■ **Promotion Activity** – View the activities that occurred in a selected promotion for a specified period. The activities include all transitions of the promotion from creation to completion.



The report provides the following information:

Field	Description
Promotion Name	The name of the promotion.
Instance Number	The n th instance of a promotion.
Previous Status	The activity completed (status) by the promotion previously.
Current Status	The present status of the promotion.
Transition Date/Time	The date and time the promotion activity occurred.
Initiated by	The user name, application engine name, or EBS engine name by whom the activity was initiated.
Comments	The reason provided by either Player Boutique or user when an activity occurs in the promotion.

■ **Promotion Summary** – View the summary of a promotion for the specified period and selected casinos.

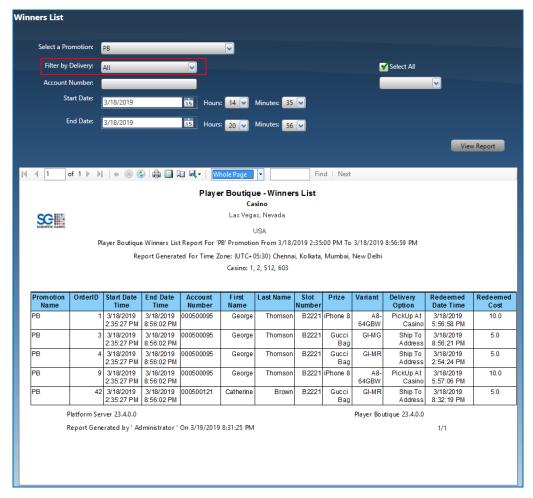


The report provides the following information:

Field	Description
Promotion Name	The name of the promotion.
Instance Number	The n th instance of a promotion.
Start Date Time	The date and time the promotion or instance commenced.
End Date Time	The date and time the promotion or instance ended.
Number of Prizes Allowed Per Player	The number of prize that can be claimed by a player when the promotion runs.
Total Prize	The total number of prizes defined for the promotion.
Total Redeemed Prize	The total prizes redeemed for the promotion.
Total Available Prize	The number of prizes that are available in stock.
Wager Min/Max	The minimum and maximum wager amount considered for the promotion. This value changes according to the prizes set for the promotion.
Conditional Machine Wager	The rule defined per point based on which the accrual rates are applied to the eligible machines that participate in the promotion. The currency value specified for conditional machines to calculate per qualifying point. For example, 1 Qualifying Point = \$ 1.0

■ Winner List — View the winners of a selected promotion for the specified date and time range, Filter by Delivery, or Account Number.

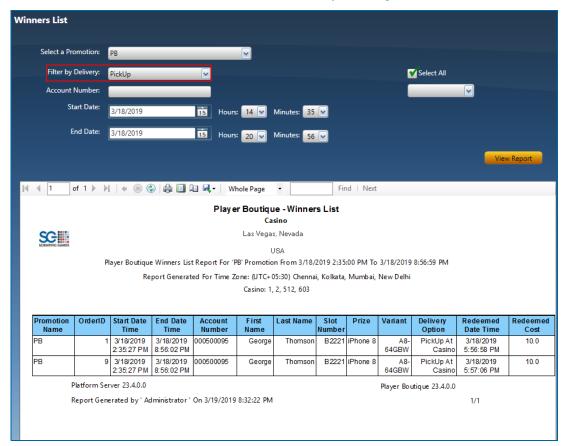




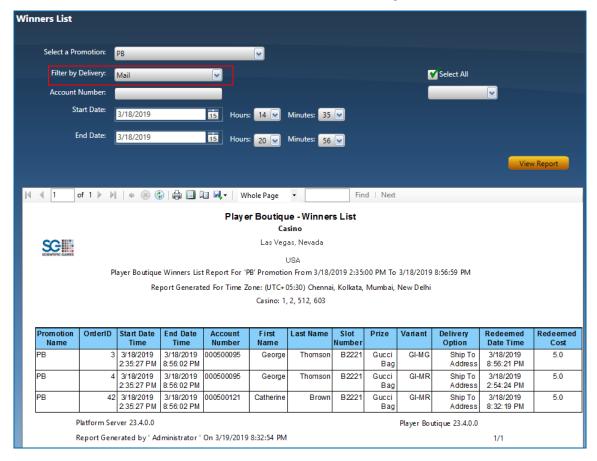
Field	Description
Promotion Name	The name of the promotion.
Order ID	The unique order ID generated in EBS for the prize claimed by an eligible player.
Start Date Time	The date and time the of the promotion commenced.
End Date Time	The date and time the promotion ended.
Account Number	The account number of the player who redeemed the prize.
First Name	The first name of the winner.
Last Name	The last name of the winner.

Field	Description
Slot Number	The number of the slot machine where the player claims the prize.
Prize	The prize the player redeemed.
Variant	The various variants available for the selected prize type.
Delivery Options	The delivery options by which the gifts were rewarded to the player. The delivery options can be by <i>Mail</i> or <i>Pickup</i> at casino. NOTE: You can search the winners rewarded using a specific delivery options by selecting the required option from the Filter by Delivery drop-down list.
Redeemed Date Time	The date and time the prize for the promotion was redeemed.
Redeemed Cost	The amount wagered by the player to participate in the promotion and redeem the prize.

Winners List for Pickup Delivery



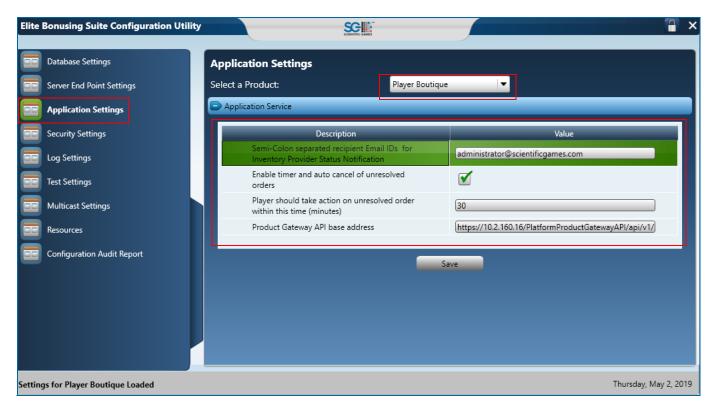
Winners List for Mail Delivery



Changes in EBS Configuration Utility

A new, **Player Boutique**, option has been added in the **Application Settings** window of the **Elite Bonusing Suite Configuration Utility** to set the following:

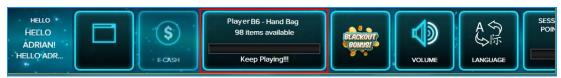
- The Recipient email IDs to receive the notifications of the associated third-party service provider if it is *Offline*.
- The option to enable timer for player to redeem gift or change address at the casino front desk.
- The time duration in minutes within which the player has to redeem the gift or change their address at the casino front desk after the order initiation. If the player does not perform these actions within the specified time, the order status changes to *Auto Cancelled*.
- The API address used to connect to the Product Gateway services.



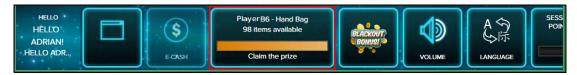
Claiming Player Boutique Prizes in iVIEW

Once a promotion starts running in EBS, a Player Boutique widget is displayed in iVIEW 4.0 screens.

Player Boutique Widget - Keep Playing state



Player Boutique Widget - Claim the Prize state



OZ Select the Player Boutique widget. The gifts defined for the promotion are displayed in the **Player Boutique** screen.



Select the gift that you wish to be rewarded on achieving the eligibility criteria. The selected gift is highlighted. For example, **iPhone 8** is selected.



Based on your wagering in the base game, a real-time progress bar increments in iVIEW for the listed gift items.



If you complete the required wager amount, a **Claim** button is displayed next to the gift level and a message, *You've earned your prize!* is displayed next to the eligible gift level.



04 Tap the gift item to be claimed to view its product description.



■ Click I to close the description box.

105 Tap Claim. A message, *This prize is available for pickup at the Club Desk*, is displayed with the gift item.



Tap **Checkout**. A confirmation message to finalize the order is displayed. The order cancellation duration within which the player must proceed to the club desk is also displayed.



17 Tap **OK**. The player instruction to contact the club desk within the expiration period for prize redemption is displayed.



An internal order is created in EBS. An authorized EBS user can initiate and commit the orders from the **Gift Look Up** screen for players who contact the club desk for prize redemption.

Optional Steps

■ Tap the **Switch** button next to the required gift item to change the selection of the targeted item to be achieved.

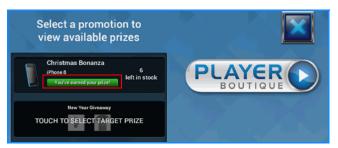


What is Player Boutique? Ch 2: New Product

- Use the **Promos** button to view the currently running promotions in iVIEW.
 - A real-time progress bar with the *Keep Playing!* message increments for the promotion that the player has selected.



• If the player has met the expected wager condition, the progress bar with the *You've earned your prize!* message is displayed next to the selected promotion.



The other promotions available in the list can also be chosen by the player to select the required prizes allocated in that promotion.





Changelog

Modifications

Random Number Generation Logic Changed

Version Affected	23.3.1
Defect ID	EBS2300-535 and EBS2300-616
Application Affected	PW, LMB, DRB, VR, U-Spin, FRB, DWP, PPS, CL, and MPR
Functional Area	Winner Selection

- The following modifications have been made to the Random Number Generation (RNG) logic available in the **BallyTech.PlayVIEW.Infrastructure.dll** file:
 - The PPE has been modified to use the common KissRNG logic available in the BallyTech.PlayVIEW.Infrastructure.dll file instead of its own. Earlier, the random number generation logic was available in multiple locations.
 - The CyclingInterval value in the KissRNG logic has been modified to 10 milliseconds.
 - The **Reseeding Interval** value in the **KissRNG** logic has been configured to 60000 milliseconds. This reduces the chances of repeating the random number generation.
 - Seeding and re-seeding is now performed by merging the KissRNG state with 512 bits of random crypto data to improve security of the KissRNG logic implementation and increase entropy of the random numbers produced.
- The **BallyTech.Bonusing.AppLib.MPR.dll** file has been modified to avoid the shuffling bias method of winner selection.



Modifications Ch 3: Changelog

EBS Database Maintenance Performance Enhanced

Version Affected	23.0
JIRA ID	EBS2300-655
Application Affected	EBS and Platform Databases
Functional Area	Database Maintenance

The jackpot-based progressive purge and the progressive consolidation jobs of the EBS Database Maintenance have been modified to improve the performance of the utility. These modifications ensure that all queries are processed efficiently without causing any impact on the casino floor.

User Credentials Entry in the Log File

Version Affected	23.0
JIRA ID	EBS2300-656
Application Affected	Power Progressive Strike
Functional Area	Promotion Status Change on processing Jackpot Hit

The EBS User Interface has been modified to restrict the entry of the username and the encrypted password in the EBS UI log file when the user enters an incorrect username or password and the authentication fails.





Features Merged from Previous Releases

This chapter provides a list of enhancements, modifications, and resolved issues that are merged from the following released versions of EBS:

- EBS 23.0.1
- EBS 23.0.2
- EBS 23.1.2

EBS 23.0.1

Merged Enhancements

JIRA ID: EBS2300-543 - Redesigning of the Eligibility Rule Builder Screen

The **Eligibility Rule Builder** screen has been redesigned to enhance the usability of the screen when creating the eligibility rules using the **Rules Management** suboption listed under the **Rule Engine** menu in Platform modules. The eligibility criteria that were displayed horizontally as drop-down lists have now been changed to a vertical navigation pane. Selecting each criteria displays the available options on the main screen. The **Preview** section is now displayed as a column in the extreme right of the screen displaying the snapshot of all the criteria selected for the rule name.



Merged Resolved Issues

■ JIRA ID: EBS2300-549 - Invalid Session Progressive Hit Issue

When a progressive hit message was received for an invalid session, the error processing was not handled correctly in EBS. The **BallyTech.Bonusing.AppLib.Progressives.dll** file has been modified to send an appropriate error response if an invalid session ID is being used for processing a progressive hit.

■ JIRA ID: EBS2300-561 - Eligible Players Unable to View Winner Messages

Winner messages were not sent from Power Winners if multiple promotions were running and player was eligible for some and not eligible for some promotions. Consider 5 Power Winners promotions were running simultaneously and a player was eligible for only 3 promotions, the winner messages were not displayed on player's iVIEW. The **BallyTech.Bonusing.AppLib.PW.dll** file has been modified to send Power Winners winner message to the appropriate winners of eligible promotions even though multiple promotions are running.

EBS 23.0.2

Merged Resolved Issues

■ JIRA ID: EBS2300-464 - Failure of Multicast Messages for Power Winners

The Power Winners application failed to send multicast messages to the configured default port. This issue occurred as the promotion ID was used instead of the instance ID to get the casino information. A new stored procedure, **GetPromotionHistoryCasinosByPromotionId**, has been added to obtain the casino information from the promotion ID.

■ JIRA ID: EBS2300-552 - Invalid Session Progressive Hit Issue

When a progressive hit message was received for an invalid session, the error transaction was incorrectly processed in EBS. The **BallyTech.Bonusing.AppLib.Progressives.dll** file has been modified to send an appropriate error response if an invalid session ID is used for processing a progressive hit.

■ JIRA ID: EBS2300-584 - Unable to Detach Slot Machine from Active Progressive

After the game cabinet info change, EBS progressives failed to detach a slot machine from an active progressive. This issue occurred as EBS did not send the **CabinetGamesProfile** command to iVIEW whenever there was a change in the game cabinet information. The **BallyTech.PlayVIEW.i2S.dll** file has been modified to notify any game cabinet changes to iVIEW by sending the **CabinetGamesProfile** command.

■ JIRA ID: EBS2300-585 - Power Winners Winner Message Delivery Issue

The winner message was not delivered to the player due to the exception that occurred while processing the player eligibility in the Power Winners promotion. This issue occurred due to the usage of the same variable for completed and running promotions. The **BallyTech.Bonusing.AppLib.Progressives.dll** file has been modified to use different variables for

BallyTech.Bonusing.AppLib.Progressives.dll file has been modified to use different variables for completed and running promotions.

■ JIRA ID: EBS2300-602 - U-Spin Promotion Winner Awarding Issue

The U-Spin promotion did not award the winner as per the configured win value. This issue occurred as the pay level values mismatched after the U-Spin promotion was created and the data added to the PayLevelAwardHistory table was in an incorrect order. The stored procedure,

p_InsertPayLevelHistory, has been modified to ensure that the data order is not changed before adding it to the **PayLevelAwardHistory** table.

JIRA ID: EBS2300-603 - Progressives Unicast Message Issue

An error message was displayed when a unicast message was sent from EBS to iVIEW for Power Progressive Strike (PPS) and PPP. This issue occurred as the

p_GetRunningProgressivesForSlotNumber stored procedure obtained duplicate records from the EBS database. The **p_GetRunningProgressivesForSlotNumber** stored procedure has been modified to obtain distinct records and implement a no-lock feature when there are duplicate records.

JIRA ID: EBS2300-604 - Power Paytable Progressive Multicast Message Issue

The Power Paytable Progressives multicast message was not reaching the iVIEW within the configured period of time. This issue occurred as the **SlotContributionLog** table in the EBS database was unavailable due to WAP implementation resulting in a delay to send multicast messages to iVIEW. The **p_MoveContributionsByRetryCount** stored procedure has been modified not to perform any WAP operations when there are no WAP promotions.

EBS 23.1.2

Merged Resolved Issues

JIRA ID: EBS2300-657 - Players Unable to Play the Incomplete U-Spin Game

When a player performs a card-out with an incomplete U-Spin game and performed a card-in in a different slot machine, the player was not able to complete the pending U-Spin game. This issue occurred as the player accrual points or wager accumulated in the earlier session was not transferred to the player's **PromotionBucket** table in EBS database. Thus, the player had to wager the required amount to participate in another U-Spin game. The **BallyTech.Bonusing.AppLib.WB.dll** file has been modified to transfer the player accrued points or the required wager amount to the player's **PromotionBucket** table in EBS.

- JIRA ID: EBS2300-658 Approval Permission Incorrectly Provided for U-Spin Promotion Creator
 The creator of the U-Spin promotion was permitted to approve the same even when the
 CanCreatedOrEditedUserApprovePromotion parameter was set to false in the EBS Configuration
 - **CanCreatedOrEditedUserApprovePromotion** parameter was set to *false* in the EBS Configuration Utility. This issue occurred when the user copied and modified an existing promotion. The U-Spin application has been modified to restrict the creator of the U-Spin promotion from approving the same when the **CanCreatedOrEditedUserApprovePromotion** parameter is set to *false* in the EBS Configuration Utility.
- JIRA ID: EBS2300-659 Power Progressive Strike Promotion Untraceable on Jackpot Hit
 - The Power Progressive Strike (PPS) promotion created with the recurrence of instances within an interval of *x* minutes could not be tracked in the **Promotion Status** screen after the jackpot hit. This issue occurred as the jackpot creation process was initiated for winner selection before moving the promotion to an intermediate status, *Wait on Run Confirmation*, which was not tracked by the *EBS Monitoring Service*. Thus, after this intermediate status, the promotion tracking was skipped from the main **Promotion Status** screen. PPS is modified to move the promotion status from *Running* to *Wait on Run Confirmation*, create jackpot processing in EBS, and move the promotion to the *Processing* status for winner selection after the promotion jackpot hits.
- JIRA ID: EBS2300-660 Duplicate Transaction ID Issue
 - EBS ignored the progressive hit for a duplicate transaction ID. The transaction ID was sent from iVIEW to EBS along with the progressive hit message. This caused an issue when the progressive commit message was sent from iVIEW to EBS. The EBS application has been modified to add additional checks such as promotion, slot number, and level number, to determine the transaction ID as a duplicate. Now, iVIEW also sends unique transaction IDs to EBS.
- JIRA ID: EBS2300-662 Promotion Eligibility Criteria Issue
 - If a player was termed as ineligible for a running PPS promotion based on any of the eligibility criteria item listed in the promotion, the player was not considered for all other eligibility criteria listed after that. The EBS application has been modified to verify the eligibility of the player for all criteria listed after an ineligible criteria for the promotion.





Implementation

Installation Process

Platform can be installed independently and each EBS application can be installed separately. However, EBS is dependent on Platform and its services for bonusing operations.

It is recommended to install the Platform and EBS components in the following sequence:

- 1 Platform Database 23.4
- 2 Platform Server 23.4



For more information on Platform components installation, refer to the EBS Platform 23.4 Installation Guide.

- 3 Elite Bonusing Suite Database 23.4
- 4 Elite Bonusing Suite App Server 23.4
- 5 EBS Bonusing Extension Installer 23.4
- 6 Elite Bonusing Suite User Interface 23.4



For more information on EBS components installation, refer to the EBS 23.4 Installation Guide.



Signature Verification

This section lists the programs and the components that are updated for EBS 23.4 version. By default, the EBS program files are installed in the following path: $C:\Pr Games \setminus Elite Bonusing$ Suite App Server 23.4.



You can install the files in a different folder during installation by clicking **Browse** in the Installation Folder window.

Modified Control Files

The **Verify+ by Kobetron v2.4.0.0** tool has been used to generate the signature values (CDCK and SHA1). The modified **.dll** and **.exe** files display the file version number as 23.4.

File/Folder Name and Location	CDCK	SHA1
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\PW]	AE82	41BDE0FE4617C81B8FC1920F7DF2A7C7C430E7D2
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\Progressives]	CABA	5AD77D9DC2BDC05629708E57C87B2E82C5CFCCD4
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\BonusingDBService]	C425	1F30F76376A55168503C1DF2FDDD0D5FD70882B2
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\OfferEngine]	7C9B	79203D6AA7E782F9DB94D1B4D600BCA1F171208D
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\OfferEngineGateway]	A17D	E2A9788ECA4226BE3702B5CA7D50F06950E53562
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\LMB]	CEOB	0085400AF83CB22A68A870CCC7992FC96CCD9BDB
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\FRB]	A452	79C0F3D746714EEEF8BE385F291BD1896DE76658
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\DRB]	E757	901EF01D373F6F70C293EF9F31F12E2A61DD309B
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\VPB]	DD44	6D23AE1E2F6CF5FA8DB16B45D06CDC729B1C8A23
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\DWP]	2BE3	FA179FAC2CF0F0F1ED693A974B8BD5862F210C43
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\WB]	F73C	D1B012CB41E1FEF6939E9CBF510911205A248CA5

Signature Verification Ch 5: Implementation

File/Folder Name and Location	CDCK	SHA1
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\VR]	2475	F1E977F3092ABBFBB3C96C59028908744B5568D6
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\MPR]	C494	DCB325FEB5DE1BD3FFAEFE67D1B623617B07A7D5
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\DMT]	1E65	96C0EC122C2F918D27E3445ACB3466399B29F471
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\IM]	6B78	0C56F4205B6B3C1A5BABF3EB237E4F0193FF5D81
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\CL]	A091	23980CD339E29044D51B6451C9526FF837EC95EB
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\PB]	86F1	B3871086FA591A50B5685A619402616745DF0AA9
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\UlService]	A000	386B2F38CE8689CF4BE7DF0881A30C91C88CDC86
[C:\Program Files (x86)\Scientific Games\Elite Bonusing Suite App Server 23.4\Bonusing Application Services\UIDBService]	3DB0	D613CE2C6B20DD6F2BA983D0B14608115C87742F





List of Documents

The following documents are compatible with the EBS 23.4 release:

User Release Notes

- EBS Platform 23.4 User Release Notes
- EBS Platform 23.3 to 23.4 Database Upgrade User Release Notes

Installation Guides

- EBS 23.4 Installation Guide
- EBS Platform 23.4 Installation Guide

Configuration Guides

- EBS 23.0 Configuration Guide for CMP
- EBS 23.0 Configuration Guide for SDS
- EBS 23.4 Database Maintenance Utility Guide
- EBS 22.0 Multisite Configuration Guide
- EBS Platform 23.1 Site Gateway Setup Guide



User Guides Ch A: List of Documents

User Guides

- EBS 23.1 Casino Lotto User Guide
- EBS 23.3 DM Tournaments User Guide
- EBS 23.1 Double Win Plus User Guide
- EBS 23.1 Dynamic Random Bonusing User Guide
- EBS 23.1 Flex Rewards User Guide
- EBS 23.1 iVIEW Messaging User Guide
- EBS 23.1 Lucky Match Bonusing User Guide
- EBS 23.1 Monopoly Roulette User Guide
- EBS 23.4 Platform User Guide
- EBS 23.4 Player Boutique User Guide
- EBS 23.1 Power Winners User Guide
- EBS 23.1 Power Paytable Progressive User Guide
- EBS 23.1 Power Progressives Strike User Guide
- EBS 23.3 U-Spin Bonusing User Guide
- EBS 23.1 Video Poker Bonusing User Guide
- EBS 23.1 Virtual Racing User Guide



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How easily accessible are the topics?					
How helpful are the workflows and graphics?					
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