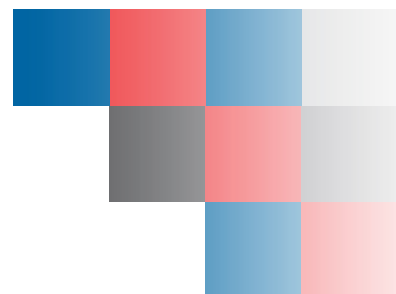


Elite Bonusing Suite Platform

23.4

User Release Notes



Intended Audience

Sales and Marketing Team
Casino Management Team
Slot Management Team



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JUL 04, 2019

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MAY 20, 2019	Chitra Suresh	Ram Biradar Shivajirao Sharon Skariah Shantha Kumar K M	New document.

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This document describes the enhancements and modification made as part of the Elite Bonusing Suite™ (EBS) Platform 23.4 release. This document also includes the list of features merged from the previous versions of EBS to the EBS Platform 23.4 release.

Snapshot

- New Feature
 - Product Management in Tools menu
- Enhancements
 - Filtering Player Tags associated with WCM in EBS.
 - Authenticating OAuth token for Unified Wallet.
 - Integrating Third-Party Wallet and EBS using SGAdaptor Settings.
 - Selecting Default Wallet for Game Auto-Deposit feature.
 - Configuring Wallet support for anonymous players.
- Modification
 - EBS Database Maintenance performance improvement.

New Feature

Product Management in Platform Tools Menu

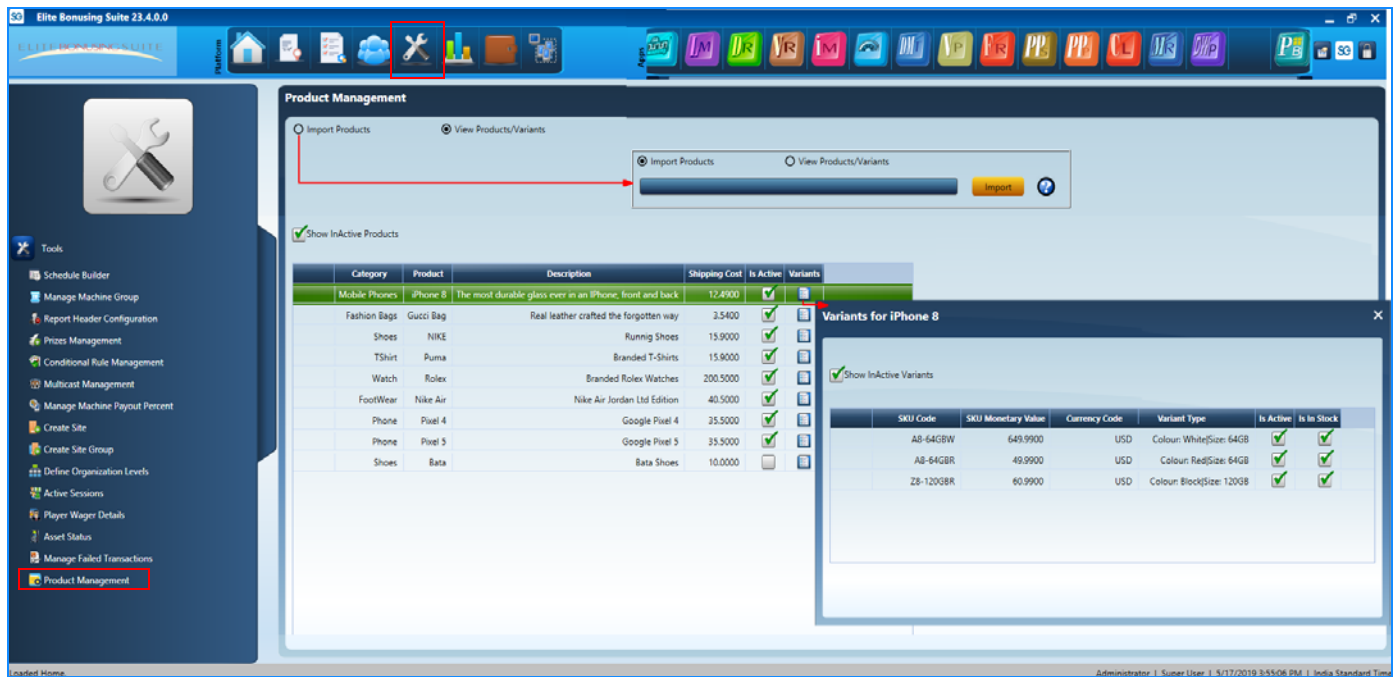
The **Product Management** screen allows you to view and import gift item details to Platform that can be used to create Player Boutique promotions. This option helps casino when an e-commerce service provider is not integrated for gifting solutions.

You can import product details using a **.csv** format that includes details about various gift categories and its variants. Example: If *Shoes* is **Category**, *Nike Air* can be **Product** and *Air-10-white* can be its **Variant**. The format of the file used to import must be a .csv file in the following format:


```
ProductID,ReferenceID,ProductName,ProductCategoryID,CategoryName,Description,ShippingCost,IsProductActive,Product
SKUID,ProductSKUCode,SKUMonetaryValue,CurrencyCode,IsVariantActive,IsInStock,ProductVariantID,VariantGroupName,
VariantGroupValue,ProductImagePath
101,1001,Nike Air,0,FootWear,Nike Air Jordan Ltd
Edition,40.5,1,0,Air-10-white,1000,USD,0,1,0,color,white,https://n2.sdlcdn.com/imgs/h/h/1/Nike-Air-zoom-33-pegasus-
SDL003861472-1-cd854.jpeg
101,1001,Nike Air,0,FootWear,Nike Air Jordan Ltd
Edition,40.5,1,0,Air-10-white,1000,USD,0,1,0,size,10,https://n2.sdlcdn.com/imgs/h/h/1/Nike-Air-zoom-33-pegasus-SDL0
03861472-1-cd854.jpeg
101,1001,Nike Air,0,FootWear,Nike Air Jordan Ltd
Edition,40.5,1,0,Air-9-white,1100,USD,1,0,0,color,white,https://n2.sdlcdn.com/imgs/h/h/1/Nike-Air-zoom-33-pegasus-S
DL003861472-1-cd854.jpeg
101,1001,Nike Air,0,FootWear,Nike Air Jordan Ltd
Edition,40.5,1,0,Air-9-white,1100,USD,1,0,0,size,9,https://n2.sdlcdn.com/imgs/h/h/1/Nike-Air-zoom-33-pegasus-SDL003
861472-1-cd854.jpeg
```

New Feature

Platform Tools - Product Management screen



The options are explained in the following table:

Field	Description
Product Management	
Category	The gift category chosen to reward players. For example, <i>Shoes</i> .
Product	The product brand name for the selected category. For example, <i>Branded Rolex Watches</i> .
Description	The description of the selected product.
Shipping Cost	The shipping cost of the gift item.
Is Active	The active status of the gift item being added.
Variants	A  (View/Edit Variants) button is displayed to view the variant details of the imported product.
Show Inactive Products	The products that are inactive are only displayed.
Variants for <selected product name>	
Show Inactive Variants	The variants that are inactive are only displayed.
SKU Code	The Stock Keeping Unit (SKU), is a number assigned to the selected product by the company for stock-keeping purposes and internal operations.
SKU Monetary Value	The cash value of the product variant.

Field	Description
Currency Code	The alphabetic code that represents the country's currency associated with the product. For example, USD is for US Dollar.
Variant Type	The specific details of the variant for the selected product. For example, the variant of the selected Branded Rolex Watch can be <i>White</i> and memory size <i>64 GB</i> .
Is Active	The <i>active</i> or <i>inactive</i> status of the variant.
Is In Stock	The availability of stock of the variant.

Enhancements

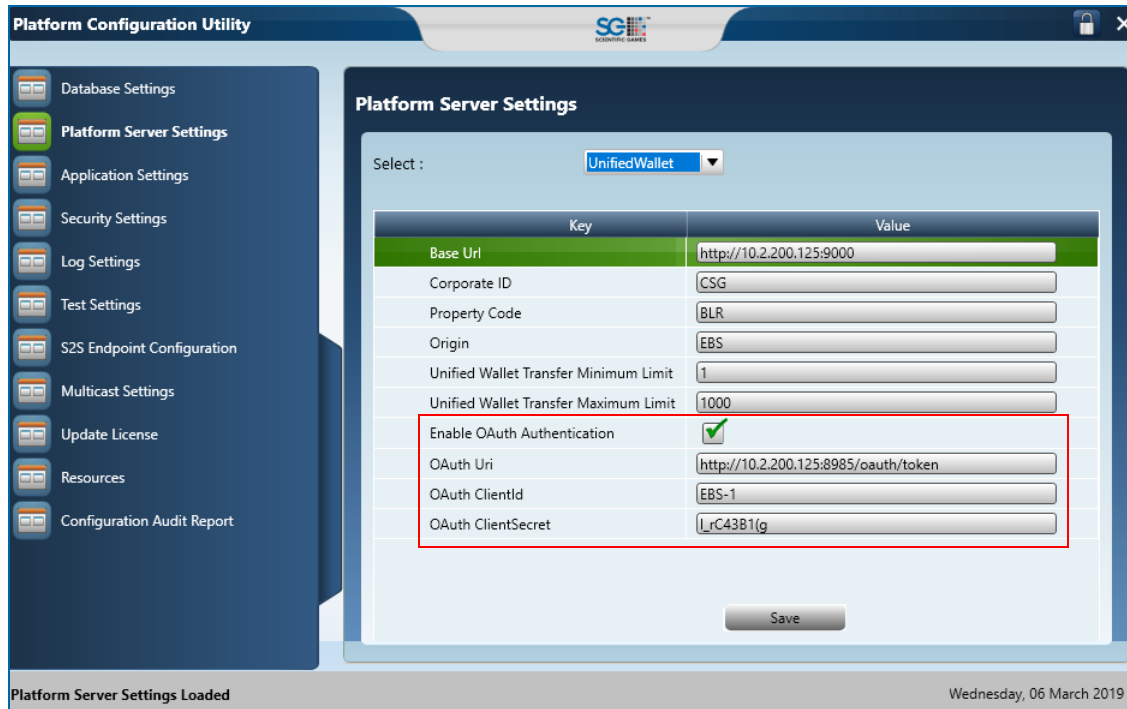
Filtering Player Tags Associated with WCM in EBS

The **GetAllPlayerTags** API in EBS Platform is invoked to send the player tags when there is a request from iVIEW or WCM. However, EBS has been enhanced to filter the **WCM_** appended player tags and send player tag information associated with WCM in the following scenarios:

- 1 When a player tag request is received from WCM, EBS filters the players tags appended with **WCM_** using the **p_GetMasterDataForWCM.sql** stored procedure, and sends the filtered player tags to WCM.
- 2 When a player cards-in, EBS filters the player tags appended with **WCM_** and sends the player tags only associated with WCM to iVIEW.

Authenticating OAuth Token for Unified Wallet

A new authentication method, **OAuth Token**, has been added in EBS to authorize the access of Unified Wallet. This unique OAuth token is used as a request header to authorize the Web API calls with Unified Wallet. This code is validated at the time of authorization. These access tokens must be kept confidential for secured authentication.



The configurations for enabling the Unified wallet transactions are as follows:

- **Enable OAuth Authentication** – The option to enable the Platform Web API to access Unified Wallet API with OAuth token for obtaining the player balance.
- **OAuth Uri** – The location used by the web APIs to communicate with Unified Wallet. The URI format is *http://<IP Address>/oauth/token*.
- **OAuth ClientId** – The unique ID to identify the product that sends balance request to Unified Wallet by attaching the authorization header to each request sent from the web API. For example, the client ID can be *EBS-1*.
- **OAuth ClientSecret** – The encrypted access token is maintained as confidential for secured authentication. This token is attached with the Client ID with each request. For example, the client secret code can be *L_rC43B1(g*.

The authorization header format is **clientid:clientsecret**.

Integrating Third-Party Wallet and EBS using SGAdaptor Settings

The third-party wallets, such as *Everi* and *IGC*, now uses the **SGAdaptor** as the payment gateway for transactions. To support this functionality, a new option, **SGAdaptor** has been added to the **Select** drop-down list of the **Platform Server Settings** window of the **Platform Configuration Utility**. This option is used to the configure details for integrating an external wallet with the EBS wallet.

Platform Configuration Utility

Platform Server Settings

Select : SGAdaptor

Key	Value
URL to communicate with SG adaptor	https://10.1.220.20/sg/adaptor.api
Authorization code value	dbaa5bf8-6848-49b4-b797-2e9fa7829177
Private key to encrypt	SGEBS001
Public key to encrypt header	d11ffdb4-3cb0-4814-a472-6ade19c61224
External wallet name	Everi
Is Retry Required	<input checked="" type="checkbox"/>
Retry Count	3
Base Timeout In Milliseconds	60000
Increase the timeout on each retry	30000

Save

Platform Server Settings Loaded

Wednesday, 06 March 2019

The configurations for using **SGAdaptor** gateway in the external wallet communication are as follows:

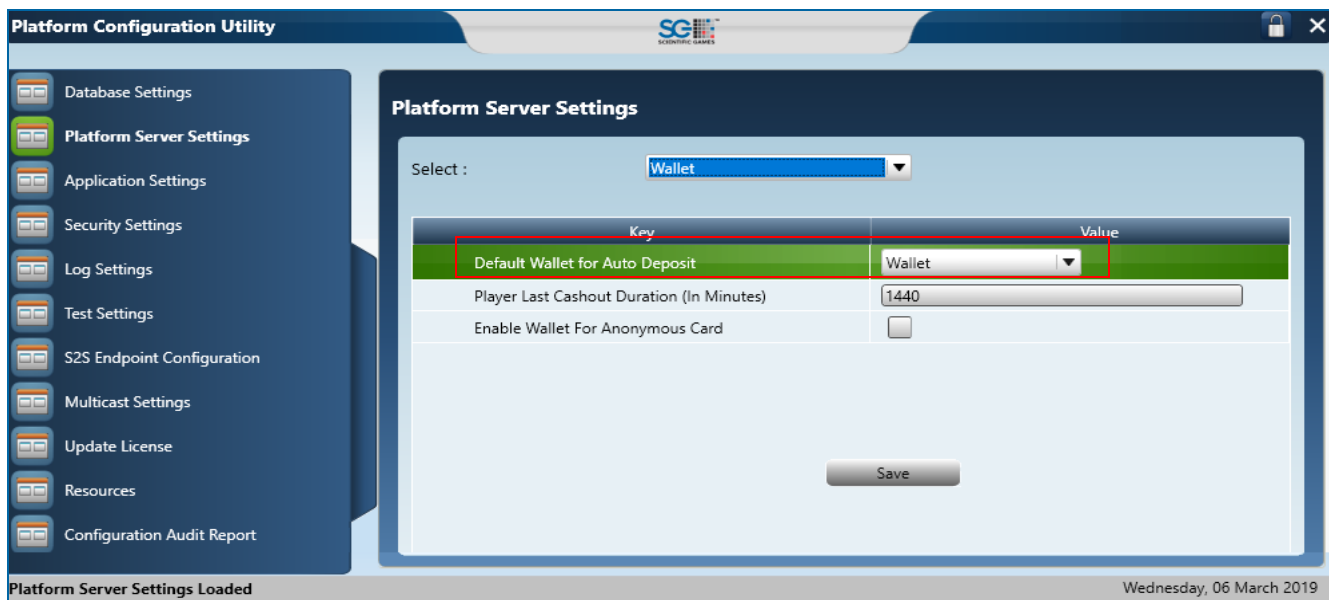
- **URL to communicate with SG adaptor** – The location that the API uses to communicate with the external wallet. For example, the URL format for *Everi* can be: *http://<IP Address>/SG/Adaptor.API*.
- **Authorization code value** – The code used to authorize the access for the SGAdaptor API. For example, for *Everi* the authorization code value can be: *dbaa5bf8-6848-49b4-b797-2e9fa7829177*.
- **Private key to encrypt** – The private key value used to access the SGAdaptor API. For example, for *Everi* the private key can be: *SGEBS001*.
- **Public key to encrypt header** – The public key value used to access the SGAdaptor API. For example, for *Everi* the public key can be: *d11ffdb4-3cb0-4814-a472-6ade19c61224*.
- **External wallet name** – The name of the external wallet to be integrated with EBS, to invoke the API when retrieving the wallet balance. For example, *IGC* or *Everi*.

Enhancements

- **Is Retry Required** – The option to enable the retry feature. When a transaction request is timed out for the duration specified in milliseconds in the **Base Timeout in Milliseconds** field, the transaction request is retried using the API. By default, this feature is disabled.
- **Retry Count** – The number of times a transaction request must be retried by the API after the specified milliseconds in **Base Timeout in Milliseconds** field. The default count is 3 times.
- **Base Timeout in Milliseconds** – The duration set to wait before trying to invoke the transaction using the API. The default base timeout duration is 60000 milliseconds (i.e., 60 seconds).
- **Increase the timeout on each retry** – The additional duration specified to increase the retry functionality when no response is received from the intended system within the base timeout duration. The default increase duration is 30000 milliseconds.
For example, if the base timeout duration is set to 60000 milliseconds and the increase timeout duration is set to 30000 milliseconds. The retry is extended to the 90000 milliseconds.

Selecting Default Wallet for Game Auto-Deposit feature

A new field, **Default Wallet for Auto Deposit** has been added to the **Wallet** settings in the **Platform Server Settings** window of the **Platform Configuration Utility**. This option is used to select the required wallet for auto-deposit feature from EGM when the player cards out. If you select the default Wallet as *EBSWallet*, iVIEW transfers the balance amount automatically to the player's EBS wallet account on card out.

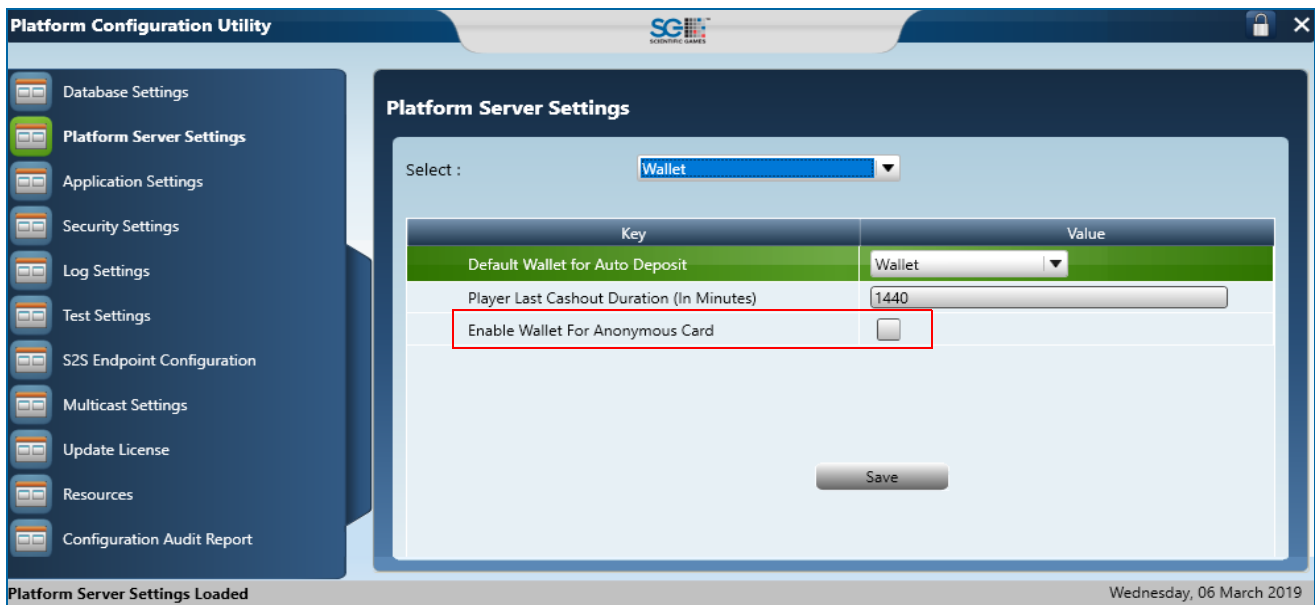


The **Default Wallet** check box has been removed from all other Wallet settings pages such as *IGC* and *Unified Wallet* in the **Platform Server Settings** window of the **Platform Configuration Utility**.

Modification

Configuring Wallet Support for Anonymous Players

By default, the wallet transaction is not supported for an anonymous carded player in EBS or CMP. The player card number is added to EBS as a unique number and is added to the **CoreSettings** table of the EBS database. However, an option, **Enable Wallet For Anonymous Card**, check box is used to enable the support for anonymous carded players in wallet transactions. This option is added in the **Wallet** settings in the **Platform Server Settings** window of the **Platform Configuration Utility**.



Modification

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.

JUL 04, 2019

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 Platform:

- EBS 23.0.1
- EBS 23.3.1

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 Modification

■ JIRA ID: EBS2300-547 - Removed Data Partitioning of Bally_EBS_PlayActivityLog_Consolidation Job

The **Bally_EBS_PlayActivityLog_Consolidation** job has been modified to consolidate the **PlayActivityLog** data based on the batch processed instead of using the partitioning logic in the **EBS Database Maintenance Utility**. This job is available in the **Job** folder of **SQL Server Agent** in the SQL Server. The partitioning of the **PlayActivityLog** data has been removed in the Platform database server. This modification was done to facilitate the job processing in the SQL Standard edition, which is ideally recommended.

Merged Resolved Issues

■ JIRA ID: EBS2300-544 - Displayed Null Exception Error in Application Settings

When opening the **Application Settings** page of the **Platform Configuration Utility**, a *null* exception error message was displayed with a blank page. This error occurred only when the **Platform Server** and **Platform Service** were installed on different systems. The Platform module has been modified to display appropriate data in the **Application Settings** page of the **Platform Configuration Utility** when the **Platform Server** and **Platform Service** are installed differently.

■ JIRA ID: EBS2300-545 - EBS UI Login Failure

The EBS user was unable to log on to the EBS application and Configuration Utilities as there was a password decryption failure. Ideally, when using a URL in Web API calls, the password is created with a particular combination letter of alphabet, numerals, and special characters. This issue occurred when a password with a particular alphanumeric combination was encrypted, special characters were included in the encrypted text. When this encrypted text was transferred between servers in a URL during a Web API call, the special characters were replaced by a *<space>*. Hence, the decryption failed and the user was unable to login to the EBS application and the Configuration Utilities. The **Uri.EscapeDataString** method has been added in EBS to encrypt the password correctly before sending it over the web API calls. As a result, the decryption of the password is successful.

■ JIRA ID: EBS2300-550 - Third-Party Applications not Receiving EBS Event Notification

The event notifications sent by EBS were not received by the third-party applications that had subscribed for the notification. This issue occurred when validating the SubscriptionID included in the message, which was overwritten by an invalid ID. This issue has been resolved by modifying the Platform Notification to send the appropriate SubscriptionID in the event notification to the third-party applications.

■ JIRA ID: EBS2300-553 - Multiple Invalid Casino ID Error in Platform Service Logs

Multiple invalid Casino ID errors were logged in the Platform Service log file when concurrent registration requests were received from iVIEW to EBS. This issue has been resolved by adding a **Lock** logic in the **BallyTech.PlayVIEW.i2s.Common.dll** file to process the registration request received from iVIEWs, one at a time.

EBS 23.3.1

Merged Enhancements

■ JIRA ID: EBS2300-598 - Transaction ID Added to Wallet Void Transaction API Response

An **External Transaction ID** has been added in the response when the Wallet Void Transaction API is invoked to view the details of the voided transactions in a third-party Wallet, for the Platform to easily identify the voided transactions.

■ JIRA ID: EBS2300-601 - User Matrix 13.0 Version Compatibility Support

EBS Platform 23.3.1 is now made compatible with User Matrix 13.0 and earlier versions.

■ JIRA ID: EBS2300-599 - External Transaction ID Value in External Wallet Transfer Details Report

A new column, **ExternalWalletTransactionID**, has been added to the **External Wallet Transfer Details** report of the **Wallet** module of Platform. The **ExternalWalletTransactionID** value in the report helps you to reconcile the Wallet transaction performed between the third-party and EBS Wallet systems.

■ JIRA ID: EBS2300-621 - Carded and Cardless Player Transaction Details In SDS Reconciliation Report

The following modifications have been made to the **SDS Reconciliation** report:

- The transaction details of players with and without cards can be viewed for a specific date and time.
- A new check box, **Show Only Uncarded Transactions**, has been added as a filter criteria for displaying the transaction details of players who have played without cards.

■ JIRA ID: EBS2300-600 - Retry Mechanism Modified For Third-party Wallet Transactions

The following features are now configurable for the SGAdaptor service that is used to support the third-party and EBS Wallet integration:

- The default time-out period for the **SGAdaptor** service call to establish a transaction with the third-party wallet.
- The number of retries for the timed-out transaction.

This allows you to change the default time-out period from 100 seconds to n number of seconds and reduces the waiting time for the player to receive the response.

■ JIRA ID: EWI-23 - Response for GetTransaction API Call Modified for Mobile

The response values sent for the GetTransactionAPI call have been modified for Mobile as follows:

- The **EBSWalletTransactionId** value is mapped to the **ID** field in the response. This field was displayed as blank in the previously sent responses.
- The **EBSMasterTransactionId** value is mapped to the **ReferenceID** field in the response. This field was mapped to the **EBSWalletTransactionID** field in the previously sent responses.

■ JIRA ID: EBS2300-618 - Icon Changed for External Wallet Transfer Details report

The icon next to the **External Wallet Transfer Details** report in the left navigation pane of **Reports** and **Wallet** modules of Platform are changed as per the standard report icon.

■ JIRA ID: EBS2300-619 - Report Names Renamed for Usability

The following reports have been renamed for usability purpose:

- Wallet Reconciliation Report to External Wallet Reconciliation
- SDS Reconciliation Report to SDS Reconciliation
- Wallet Transfer Summary Details to External Wallet Transfer Details

Merged Resolved Issue

■ JIRA ID: EWI-23 - Incorrect Response Status Code Notified for Insufficient Wallet Balance

When there was an insufficient player balance in EBS Wallet, an appropriate reason and status code were not sent in response to the player withdrawal request. This issue occurred as the **EBSWalletMobileWithdraw** API method used the HTTP status code as 500. This meant that the server failed to process the request due to an internal error instead of notifying the low balance in the Wallet. The response HTTP status code for the **EBSWalletMobileWithdraw** API method has now been modified from 500 to 200. The HTTP status code 200 indicates that the player withdrawal request is processed successfully and an appropriate error code and description are sent to players to represent an insufficient player balance.

Installation Process

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

It is recommended to install the Platform and the 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 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 Platform 23.4 version. By default, the Platform program files are installed in the following path: *C:\Program Files (x86)\Scientific Games\Platform Server\Platform Server*.



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** files display the file version number as **23.4**.

Folder Name and Location	CDCK	SHA1
C:\Program Files (x86)\Scientific Games\Platform Server\Platform Server\Engine\BallyTech.Platform.Wallet.dll	AF4F	CA421E792DAC802B292698E4EA2106674D8B477B
C:\Program Files (x86)\Scientific Games\Platform Server\Platform Server\Platform Api\bin\BallyTech.PlayVIEW.UserManagement.dll	153E	A28C3639888BD6898A69AD58ACC511D81FADCA78
C:\Program Files (x86)\Scientific Games\Platform Server\Platform Server\Platform Api\bin\BallyTech.PlayVIEW.Infrastructure.dll	814A	F275F7E5B341A6C98D9987953D64137591AD3B45

List of Documents

The following documents are compatible with the EBS Platform 23.4 release:

User Release Notes

- EBS 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

- 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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