

# Loyalty Engine

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Updated: September 4, 2024

## Overview

**Note:** The operation of the next Loyalty Engine Helper does not affect the current Loyalty Engine operation.

The playAWARDS Loyalty Engine is a containerized application that is deployed within playAWARDS.

The Loyalty Engine provides a REST API to support:

- Finding, creating, or merging playAWARDS Loyalty accounts.
- Earning Loyalty Points when game-specific events are triggered.
- Querying for a player's Loyalty Point balance.
- Earning VIP points when game-specific events are triggered.
- Querying for a player's VIP status.

The Loyalty Engine application is created as a Docker image and deployed into cloud container services or a Kubernetes cluster within a data center or on-premise. The Loyalty Engine also utilizes a document database deployed into the environment for low latency durable persistence of player states. Plugin repository libraries allow the application to choose the database implementation most appropriate for the particular deployment location (Azure, AWS, data center, or on-premise).

flowchart

```
[Player Device] <--> [Game Server] <--> [Loyalty Engine] <--> [playAWARDS Services]
```

## Identifying Players

The application game server is responsible for identifying players as anonymous (linked to device ID) or through the following authentication providers:

- playAWARDS LoyaltyLogin
- Login with Facebook
- Sign-in with Apple

The application game server should create a unique identifier for each player that can be shared with external systems.

## Loyalty Earn Methods

The application product owners should work with the playAWARDS economist during onboarding to identify events or milestones within the game that are suitable for rewarding players with Loyalty Points. These milestones can be single events such as logging in to the application, completing a quest or mini-game. These

can also be multiples such as spending some variable sum  $N$  of in-game currency. Each earn method is given a unique identifier that is shared by the game server and Loyalty Engine API.

The playAWARDS economist can configure the amount of Loyalty Points awarded for each earn method and place limits on occurrences per day, or provide different amounts for specific segments of players based on identity type, player level, VIP Tier and platform.

## Authorization

The Loyalty Engine APIs utilize bearer token authorization. During onboarding, playAWARDS provides the game partner with a unique **partnerApplicationId** and their own symmetric **signing key**. The game server must create a token with the scope **PlatformEngine** that is provided in the **Authorization** header of each request. The token must be signed by the game server using the **HS256** algorithm with the assigned signing key. The token must expire and its lifetime should be a value suitable to the requirements of operators of the game server. The recommended token lifetime is between 1 to 24 hours. The token can be reused until it expires and should be regenerated on an on-going basis during the runtime of game server.

Example header:

```
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaw5rX
zNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIUGxhdGZvcmlFbmdpbmU
iLCJpYXQiOiIxNjc3NTM1NzM1IiwibmJmIjoIPTY3NzUzNTczNSIsImV4cCI6IjE2Nzc2MjIxMzUifQ.Lm
UJoddAbP5ys9kXMc9wKwnLOYsWypaEft0zRih_gdw
```

Example token claims:

```
{
  "alg": "HS256",
  "typ": "JWT"
}.{
  "partnerApplicationId": "Playlink_3cd3c399-3531-40c6-a70e-84b46967c75f",
  "scope": "PlatformEngine",
  "iat": "1677535735",
  "nbf": "1677535735",
  "exp": "1677622135"
}.[Signature]
```

## Status API Documentation

Get the current status of the Loyalty Engine

```
GET /api/status HTTP/1.1
Host: localhost:8080
Accept: text/plain
```

Authorization: Bearer

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hbnZB1LTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiUGxhdGZvcm1FbmdpbmUiLCJpYXQiOiIxNjc3NzM1ODkwIiwibmJmIjoiMTY3NzczNTg5MCI6ImV4cCI6IjE2Nzc4MjIyOTAifQ.DT5btp8dngrn8ndFnZL6J0iEzF8WNBZK8Q09X0anVmQ
```

Response:

```
{
  "partnerApplicationId": "Playlink_3cd3c399-3531-40c6-a70e-84b46967c75f",
  "safetyValveIsOn": true
}
```

## Account API Documentation

### Get PlayerAccountInfo

GET /api/account/players/e5ad57ca-6691-4862-a917-99d08a2bc047 HTTP/1.1

Host: localhost:8080

Accept: text/plain

Authorization: Bearer

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hbnZB1LTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiUGxhdGZvcm1FbmdpbmUiLCJpYXQiOiIxNjc3NzM1ODkwIiwibmJmIjoiMTY3NzczNTg5MCI6ImV4cCI6IjE2Nzc4MjIyOTAifQ.DT5btp8dngrn8ndFnZL6J0iEzF8WNBZK8Q09X0anVmQ
```

Response:

```
{
  "playerId": "e5ad57ca-6691-4862-a917-99d08a2bc047",
  "supportCode": "27WCYR"
}
```

### Find or Create an Anonymous Player

POST /api/account/anonymous HTTP/1.1

Host: localhost:8080

Content-Type: application/json

Accept: text/plain

Authorization: Bearer

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hbnZB1LTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiUGxhdGZvcm1FbmdpbmUiLCJpYXQiOiIxNjc3NzM1ODkwIiwibmJmIjoiMTY3NzczNTg5MCI6ImV4cCI6IjE2Nzc4MjIyOTAifQ.DT5btp8dngrn8ndFnZL6J0iEzF8WNBZK8Q09X0anVmQ
```

Response:

## Find or Create a Facebook-Authenticated Player

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Response:

## Find or Create an Apple-Authenticated Player

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}

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RBMBJ",
  "loyaltyBalance": 1100.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwbGljYXRpb25JZCI6IlBsYXlsaW5rXzNjZDNjMzk5LTlmZEtNbDBjNi1hbnB1LTg0YjQ2OTY3Yzc1ZiIsImkZW50aXR5UHJvdmlkZXIiOiJBcHBsZSIsInBsYXl1cklkIjoibWVkb2JyYyYtNTU0YS00NzQ2LWI2NjMtN2JjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0iOiIUSukJNQkoilCJhcHBSZSU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjdjNGEYyjkWMGNjYjQ0ZGU5YzE1ZTAwZWJnN2VlODKxLjAwMDAilCJpYXQiOiIxNjc3NzM3ODU0IiwiaWF0IjoiMTY3NzczNzg1NCIsImV4cCI6IjE2Nzc4MjQyNTQifQ.-xvg50ECq2uucPnG3koJpnnMOG-vwqZRtdHSn9qop-Y"
```

```
POST /api/account/loyaltylogin HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsYW5rXzNjZDNjMzk5LTM1MzEtNDdjNi1hNzBlLTg0YjQ2OTY3YzclZiIsInNjb3BlIjoiaUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc3NzM1ODkwIiwibmJmIjoiaMTY3NzczNTg5MCI6ImV4cCI6IjE2Nzc4MjIyOTAifQ.DT5btp8dngrn8ndFnZL6J0iEzF8WNBZK8Q09X0anVmQ
Content-Length: 158

{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "clientIpAddress": "127.0.0.1",
  "loyaltyLoginId": "2490b2ba-a3d4-45df-9652-af47b2863e7d",
  "emailAddress": "test@test.com"
}
```

Response:

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RBMBJ",
  "loyaltyBalance": 1100.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwbGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImkZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkaWV5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0iI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyjkWNGNjYjQ0ZGU5YzE1ZTAwZWZRNjN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzY0ODU0IiwibmJmIjoimTY3NzczNzg1NCIsImV4cCI6IjE2Nzc4MjQyNTQifQ.-xvg50ECq2uucPnG3koJpnnMOG-vwqZRtdHSn9qop-Y"
}
```

## Find or Create a PSID-Authenticated Player

```
POST /api/account/psid HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwbGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IjE2Nzc4MjQyNTQifQ.DT5btp8dngn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 158

{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "clientIpAddress": "127.0.0.1",
  "userId": "12345",
  "emailAddress": "test@test.com"
}
```

Response:

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RBMBJ",
  "loyaltyBalance": 1100.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkbWVjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9yZDENVZGU0iOiI5UkJKQkojLCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyjkWNGNjYjQ0ZGU5YzE1ZTAwZWRjN2VlODkxLjAwMDAiLCJpYXQ0IiIjNjc3NmM3ODU0IiwibmJmIjoimTY3NzczNzg1NCIsImV4cCI6IjE2Nzc4MjQyNTQifQ.-xvg50ECq2uucPnG3koJpnnMOG-vwqZRtdHSn9qop-Y"
}
```

## Find or Create a Google-Authenticated Player

```
POST /api/account/google HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkbWVjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9yZDENVZGU0iOiI5UkJKQkojLCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyjkWNGNjYjQ0ZGU5YzE1ZTAwZWRjN2VlODkxLjAwMDAiLCJpYXQ0IiIjNjc3NmM3ODU0IiwibmJmIjoimTY3NzczNzg1NCIsImV4cCI6IjE2Nzc4MjQyNTQifQ.DT5btp8dngnrn8ndFnZL6JOiEzF8WNBZK8Q09XOanVmQ
Content-Length: 158

{
  "playerId": "59540fd1-2e5b-48f3-9631-ffffedb574fef",
  "clientIpAddress": "127.0.0.1",
  "googleUserId": "fs3WDgdkcLNHXcK7",
  "firstName": "Fernando",
  "lastName": "Meza",
  "emailAddress": "fernando.meza@gmail.com.mx"
}
```



Response:

```
{
  "playerId": "59540fd1-2e5b-48f3-9631-ffffedb574fef",
  "supportCode": "TTSPLR",
  "loyaltyBalance": 1100,
  "loyaltyEarnedDuringShutoff": 0,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2024-04-04T16:32:01.823-06:00",
    "endTime": "2024-04-04T16:32:01.823-06:00",
    "retainAmount": 0,
    "tierUpAmount": 10,
    "hasPersonalHost": false,
    "currentAmount": 0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IlsYXlSaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImkZW50aXR5UHJvdmlkZXIiOiJHb29nbGUlLCJwGF5ZXJJZCI6IjU5NTQwZmQxLTJlNWItNDhmMy05NjMxLWZmZmVkJyU3NGZlZiIsInN1cHBvcnRDb2RlIjoiVFRTUExSIiwia29vZ2x1VXNlcklkIjoiZnMzV0RnZGtjTE5lWGNLNyIsIm1hdCI6IjE3MTIyNDgzMjIiLCJyYmYiOiIxNzEyMjQ4MzIyIiwiaXhwIjoiMTcxMjNDcyMiJ9.VE0H35Hb8Nsx7pH2xQcyvzM-0euWkRIgGxteSy4TYZE",
  "safetyValveIsOn": true,
  "dailyCapReached": false
}
```

## Unlink a Google-Authenticated Player

```
DELETE /api/account/google HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IlsYXlSaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc3NzM1ODkwIiwiaWibmJmIjoiMTY3NzczNTg5MCI6ImV4cCI6IjE2Nzc4MjIyOTAiOiJDT5btp8dngrn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 158

{
  "playerId": "59540fd1-2e5b-48f3-9631-ffffedb574fef",
  "clientIdAddress": "127.0.0.1",
  "googleUserId": "fs3WDgdkcLNHXcK7"
}
```

Response:

```
{
  "playerId": "59540fd1-2e5b-48f3-9631-ffffedb574fef",
  "supportCode": "TTSPLR",
  "loyaltyBalance": 1100,
  "loyaltyEarnedDuringShutoff": 0,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2024-04-04T16:32:01.823-06:00",
    "endTime": "2024-04-04T16:32:01.823-06:00",
    "retainAmount": 0,
    "tierUpAmount": 10,
    "hasPersonalHost": false,
    "currentAmount": 0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJHb29nbGUlLCJwOGF5ZXJJZCI6IjU5NTQwZmQxLTJlNWItNDhmMy05NjMxLWZmZmVkJyU3NGZlZiIsInN1cHBvcnRDb2RlIjoIjVFRTUEXSIiwia29vZ2x1VXNlcklkIjoIjZnMzV0RnZGtjTE5lWGNLNyIsIm1hdCI6IjE3MTIyNDgzMjIiLCJyYmYiOiIxNzEyMjQ4MzIyIiwiaXhwIjoIjMTcxMjMzNDcyMiJ9.VE0H35Hb8Nsx7pH2xQcyvzM-0euWkRIgGxteSy4TYZE",
  "safetyValveIsOn": true,
  "dailyCapReached": false
}
```

## Merge an Anonymous Player with a New Facebook-Authenticated Player

```
POST /api/account/merge/anonymous/facebook HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIjUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc3NzY3MjQ4MzIyIiwiaXhwIjoIjMTY3Nzc3NTg5MCI6IjE2Nzc4MjIyOTAiOiJ0TAifQ.DT5btp8dngnrn8ndFnZL6J0iEzF8WNBZK8Q09X0anVmQ
Content-Length: 173

{
  "anonymousPlayerId": "e5ad57ca-6691-4862-a917-99d08a2bc047",
  "clientIdAddress": "127.0.0.1",
  "userId": "6791775341729093",
  "tokenForBusiness": "AJeJit735tEePhLG"
}
```

Response:

```
{
  "playerId": "e5ad57ca-6691-4862-a917-99d08a2bc047",
  "supportCode": "27WCYR",
  "loyaltyBalance": 1200.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T05:52:32.243-06:00",
    "endTime": "2023-03-02T05:52:32.243-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzB1LTg0YjQ2OTY3YzclZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJGYWNLm9vayIsInBsYXl1cklkIjoizTVhZDU3Y2EtNjY5MS00ODYyLWE5MTctOTlkMDhhMmJjMDQ3Iiwic3VwcG9ydENvZGUiOiIyN1dWVlIiLCJmYWNLm9va1VzZXJJZCI6IjY3OTE3NzUzNDE3MjkwOTMiLCJmYWNLm9va1Rva2VuRm9yQnVzaW5lc3MiOiJBSmVKaXQ3MzV0RWVQaExHIiwiaWF0IjoiMTY3NzczODM0OSIsIm5iZiI6IjE2NzczMzg5NDkiLCJleHAiOiIxNjc3ODI0NzQ5In0.hrCVMXMaRFhK9gSF1TFDQ1LKuEYzHcKqRyCVkVOeauE"
}
```

## Merge an Anonymous Player with an Existing Facebook-Authenticated Player

```
POST /api/account/merge/anonymous/facebook HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzB1LTg0YjQ2OTY3YzclZiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzB1LTg0YjQ2OTY3YzclZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJGYWNLm9vayIsInBsYXl1cklkIjoizTVhZDU3Y2EtNjY5MS00ODYyLWE5MTctOTlkMDhhMmJjMDQ3Iiwic3VwcG9ydENvZGUiOiIyN1dWVlIiLCJmYWNLm9va1VzZXJJZCI6IjY3OTE3NzUzNDE3MjkwOTMiLCJmYWNLm9va1Rva2VuRm9yQnVzaW5lc3MiOiJBSmVKaXQ3MzV0RWVQaExHIiwiaWF0IjoiMTY3NzczODM0OSIsIm5iZiI6IjE2NzczMzg5NDkiLCJleHAiOiIxNjc3ODI0NzQ5In0.hrCVMXMaRFhK9gSF1TFDQ1LKuEYzHcKqRyCVkVOeauE
Content-Length: 243

{
  "anonymousPlayerId": "06de2f08-06c1-4aad-8b6f-ae6b881f7aba",
  "possibleFacebookPlayerId": "2490b2ba-a3d4-45df-9652-af47b2863e7d",
  "clientIpAddress": "127.0.0.1",
  "userId": "8836385718353386",
  "tokenForBusiness": "fs3WDgdkcLNHXcK7"
}
```

Response:

```
{
  "playerId": "2490b2ba-a3d4-45df-9652-af47b2863e7d",
  "supportCode": "RW9X76",
  "loyaltyBalance": 1300.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:07:41.41-06:00",
    "endTime": "2023-03-02T06:07:41.41-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzB1LTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJGYWNLm9vayIsInBsYXllcklkIjoimjQ5MGIyYmEtYTNkNC00NWRmLTk2NTItYWY0N2IyODYzZTdkIiwic3VwcG9ydENvZGUiOiJSVzYlNzYiLCJmYWNLm9va1VzZXJJZCI6Ijg4MzYzODU3MTgzNTMzODYiLCJmYWNLm9va1Rva2VuRm9yQnVzaW5lc3MiOiJmczNXRGdka2NMTkhYY0s3IiwiaWF0IjoiMTY3NzczODkzOCIsIm5iZiI6IjE2NzczMzg5MzgiLCJleHAiOiIxNjc3ODIiMzM4In0.C8Jjef1dBCWn_I1lWJqeEZQNagT__WAN9XOFukgwAvs"
}
```

Merge an Anonymous Player with a New Apple-Authenticated Player\*\*

```
POST /api/account/merge/anonymous/apple HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzB1LTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzB1LTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJGYWNLm9vayIsInBsYXllcklkIjoimjQ5MGIyYmEtYTNkNC00NWRmLTk2NTItYWY0N2IyODYzZTdkIiwic3VwcG9ydENvZGUiOiJSVzYlNzYiLCJmYWNLm9va1VzZXJJZCI6Ijg4MzYzODU3MTgzNTMzODYiLCJmYWNLm9va1Rva2VuRm9yQnVzaW5lc3MiOiJmczNXRGdka2NMTkhYY0s3IiwiaWF0IjoiMTY3NzczODkzOCIsIm5iZiI6IjE2NzczMzg5MzgiLCJleHAiOiIxNjc3ODIiMzM4In0.C8Jjef1dBCWn_I1lWJqeEZQNagT__WAN9XOFukgwAvs
Content-Length: 167

{
  "anonymousPlayerId": "3d823d8b-278c-47ef-986a-34525930b204",
  "clientIpAddress": "127.0.0.1",
  "nameIdentifier": "000000.df40b933f2fd485482e8d9dbaa35d58f.0000"
}
```

Response:

## Merge an Anonymous Player with an Existing Apple-Authenticated Player

Response:

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RMBBJ",
  "loyaltyBalance": 1300.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IiBsYXlsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImlkZW50aXR5UHJvdmlkZXIiOiJBcHBsZSI6InBsYXllcklkIjoibWVkaW50YjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9yZDENVZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.1NtsZWdikBrGZ7FyLHVSH413KXKu5PM0zUjGKUUbK3M"
}
```

## Merge an Anonymous Player with a New LoyaltyLogin-Authenticated Player

```
POST /api/account/merge/anonymous/loyaltylogin HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IiBsYXlsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IiBsYXlsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImlkZW50aXR5UHJvdmlkZXIiOiJBcHBsZSI6InBsYXllcklkIjoibWVkaW50YjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9yZDENVZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.DT5btp8dngrn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 234

{
  "anonymousPlayerId": "399c14e7-845c-425e-beb8-3c7d0cd0c5e6",
  "clientIdAddress": "127.0.0.1",
  "loyaltyLoginId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "emailAddress": "test@test.com"
}
```

Response:

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RMBBJ",
  "loyaltyBalance": 1300.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwbGljYXRpb25JZCI6IiBsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hbnZB1LTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkaWV5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9yZDENVZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.1NtsZWdikBrGZ7FyLHVSH413KXKu5PM0zUjGKUUbK3M"
}
```

## Merge an Anonymous Player with an Existing LoyaltyLogin-Authenticated Player

```
POST /api/account/merge/anonymous/loyaltylogin HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwbGljYXRpb25JZCI6IiBsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hbnZB1LTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IiBsaW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hbnZB1LTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkaWV5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9yZDENVZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.DT5btp8dngrn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 234

{
  "anonymousPlayerId": "399c14e7-845c-425e-beb8-3c7d0cd0c5e6",
  "possibleLoyaltyLoginPlayerId": "ffbf95b7-11cc-4b21-b6bd-2c3debc59c26",
  "clientIpAddress": "127.0.0.1",
  "loyaltyLoginId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "emailAddress": "test@test.com"
}
```

Response:

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RBMbj",
  "loyaltyBalance": 1300.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImlkZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkdjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.1NtsZWdikBrGZ7FyLHVSH413KXKu5PM0zUjGKUUbK3M"
}
```

## Merge an Anonymous Player with a New PSID-Authenticated Player

```
POST /api/account/merge/anonymous/psid HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IjE2Nzc4MjU1OTYifQ.DT5btp8dngrn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 234

{
  "anonymousPlayerId": "399c14e7-845c-425e-beb8-3c7d0cd0c5e6",
  "clientId": "127.0.0.1",
  "userId": "12345",
  "emailAddress": "test@test.com"
}
```

Response:



```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RBMbj",
  "loyaltyBalance": 1300.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImlkZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkdjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyjkWNGNjYjQ0ZGU5YzE1ZTAwZWZjN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.1NtsZWdikBrGZ7FyLHVSH413KXKu5PM0zUjGKUUbK3M"
}
```

## Merge an Anonymous Player with an Existing PSID-Authenticated Player

```
POST /api/account/merge/anonymous/psid HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsImlkZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkdjY5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0IiI5UkJKQkoilCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyjkWNGNjYjQ0ZGU5YzE1ZTAwZWZjN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.DT5btp8dngrn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 234

{
  "anonymousPlayerId": "399c14e7-845c-425e-beb8-3c7d0cd0c5e6",
  "possiblePsIdPlayerId": "ffbf95b7-11cc-4b21-b6bd-2c3debc59c26",
  "clientIpAddress": "127.0.0.1",
  "userId": "12345",
  "emailAddress": "test@test.com"
}
```

Response:

```
{
  "playerId": "5edf69b6-7e4a-4746-b663-7fcd9f524b83",
  "supportCode": "9RBMbj",
  "loyaltyBalance": 1300.0000,
  "vipStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-03-02T06:17:34.817-06:00",
    "endTime": "2023-03-02T06:17:34.817-06:00",
    "retainAmount": 0.0,
    "tierUpAmount": 10.0000,
    "hasPersonalHost": false,
    "currentAmount": 0.0
  },
  "loginJwt":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkb2Y5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0IiI5Uk5kbnQkoiLCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.1NtsZWdikBrGZ7FyLHVSH413KXKu5PM0zUjGKUUbK3M"
}
```

## Merge an Anonymous Player with a New Google-Authenticated Player

```
POST /api/account/merge/anonymous/google HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyaXBwGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInR5cCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsIm1kZW50aXR5UHJvdmlkZXIiOiJBcHBSZSIsInBsYXllcklkIjoibWVkb2Y5YjYtN2U0YS00NzQ2LWI2NjMtN2ZjZDlmNTI0YjgzIiwic3VwcG9ydENvZGU0IiI5Uk5kbnQkoiLCJhcHBsZU5hbWVJZGVudGlmaWVyIjoimDAwMDAwLjZjNGEYyJkwMGnjYjQ0ZGU5YzE1ZTAwZWZrN2VlODkxLjAwMDAiLCJpYXQiOiIxNjc3NzMTk2IiwibmJmIjoimTY3NzczOTE5NiIsImV4cCI6IjE2Nzc4MjU1OTYifQ.DT5btp8dngrn8ndFnZL6JOiEzF8WNBZK8Q09X0anVmQ
Content-Length: 167

{
  "anonymousPlayerId": "3c3699fd-b97b-4b6f-a89d-a7a2a146924a",
  "clientId": "127.0.0.1",
  "googleUserId": "tr2WDgdkcTFLXcK7"
}
```

Response:

```
{
  "playerId": "3c3699fd-b97b-4b6f-a89d-a7a2a146924a",
```

## Merge an Anonymous Player with an Existing Google-Authenticated Player

Response:

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```
    },  
    {  
      "name": "EARN_METHOD_TWO",  
      "earnCriteria": "Single"  
    },  
    {  
      "name": "EARN_METHOD_THREE",  
      "earnCriteria": "Multiple"  
    }  
  ]  
}
```

## Get Loyalty Balance for a Player

```
POST /api/loyalty/balance HTTP/1.1  
Host: localhost:8080  
Content-Type: application/json  
Accept: text/plain  
Authorization: Bearer  
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDJjNi1hbnZBLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiaUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoiaMTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.SDmNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM  
Content-Length: 90  
  
{  
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",  
  "clientIdAddress": "127.0.0.1"  
}
```

Response:

```
{  
  "currentBalance": 1405.0000,  
  "earnedDuringShutoff": 0.0,  
  "dailyTotal": 105.000,  
  "lifetimeTotal": 1305.000,  
  "lastSyncTime": "2023-03-13T17:53:49+00:00",  
  "safetyValveIsOn": true  
}
```

## Sync Loyalty Balance for a Player

```
POST /api/loyalty/sync HTTP/1.1  
Host: localhost:8080
```

```
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIUGxhdGZvcm1FbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoIPTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
Content-Length: 90

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "clientIpAddress": "127.0.0.1"
}
```

Response:

```
{
  "currentBalance": 1405.0000,
  "earnedDuringShutoff": 0.0,
  "dailyTotal": 105.000,
  "lifetimeTotal": 1305.000,
  "lastSyncTime": "2023-03-13T18:12:26+00:00",
  "safetyValveIsOn": true
}
```

## Add Earned Loyalty for a Single Event

```
POST /api/loyalty/earn/single HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IlsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIUGxhdGZvcm1FbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoIPTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
Content-Length: 167

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "earnMethod": "EARN_METHOD_TWO",
  "loyaltyPlatform": 2,
  "gameLevel": 5,
  "clientIpAddress": "127.0.0.1"
}
```

Response:

```
{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "GDYLRG",
  "dateTimeOffset": "2023-03-13T18:05:53.3435774+00:00",
  "loyaltyConfigurationId": "9585a7ad-ab0d-450b-abdc-32b0d8afc49d",
  "earnRuleId": [
    1
  ],
  "amount": 100.0,
  "amountAdded": 100.0,
  "currentBalance": 1400.0000,
  "earnedDuringShutoff": 0.0,
  "earnMethod": "EARN_METHOD_TWO",
  "multipleCount": [],
  "platform": "iOS",
  "gameLevel": 5,
  "vipTier": 0,
  "identityType": "Auth",
  "occurrenceCount": 1,
  "lastOccurrenceTime": null,
  "safetyValveIsOn": true
}
```

Response when safety valve is off:

```
{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "GDYLRG",
  "dateTimeOffset": "2023-03-13T18:24:59.6667492+00:00",
  "loyaltyConfigurationId": "9585a7ad-ab0d-450b-abdc-32b0d8afc49d",
  "earnRuleId": [
    1
  ],
  "amount": 100.0,
  "amountAdded": 100.0,
  "currentBalance": 1405.0000,
  "earnedDuringShutoff": 100.0,
  "earnMethod": "EARN_METHOD_TWO",
  "multipleCount": [],
  "platform": "iOS",
  "gameLevel": 5,
  "vipTier": 0,
  "identityType": "Auth",
  "occurrenceCount": 2,
  "lastOccurrenceTime": "2023-03-13T18:05:53+00:00",
}
```

```
"safetyValveIsOn": false
}
```

## Add Earned Loyalty for Multiple Events

```
POST /api/loyalty/earn/multiple HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsYW5rXzNjZDNjMzk5LTM1MzEtNDJhNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoIPTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
Content-Length: 194

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "earnMethod": "EARN_METHOD_THREE",
  "multipleCount": 5000,
  "loyaltyPlatform": 2,
  "gameLevel": 5,
  "clientIpAddress": "127.0.0.1"
}
```

Response:

```
{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "GDYLRG",
  "dateTimeOffset": "2023-03-13T18:07:55.5061518+00:00",
  "loyaltyConfigurationId": "9585a7ad-ab0d-450b-abdc-32b0d8afc49d",
  "earnRuleId": [
    0
  ],
  "amount": 5.000,
  "amountAdded": 5.000,
  "currentBalance": 1405.0000,
  "earnedDuringShutoff": 0.0,
  "earnMethod": "EARN_METHOD_THREE",
  "multipleCount": [
    5000
  ],
  "platform": "iOS",
  "gameLevel": 5,
  "vipTier": 0,
  "identityType": "Auth",
}
```



```

    "occurrenceCount": 1,
    "lastOccurrenceTime": null,
    "safetyValveIsOn": true
  }

```

Response when safety valve is off:

```

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "GDYLRG",
  "dateTimeOffset": "2023-03-13T18:26:54.3949801+00:00",
  "loyaltyConfigurationId": "9585a7ad-ab0d-450b-abdc-32b0d8afc49d",
  "earnRuleId": [
    0
  ],
  "amount": 5.000,
  "amountAdded": 5.000,
  "currentBalance": 1405.0000,
  "earnedDuringShutoff": 105.000,
  "earnMethod": "EARN_METHOD_THREE",
  "multipleCount": [
    5000
  ],
  "platform": "iOS",
  "gameLevel": 5,
  "vipTier": 0,
  "identityType": "Auth",
  "occurrenceCount": 2,
  "lastOccurrenceTime": "2023-03-13T18:07:55+00:00",
  "safetyValveIsOn": false
}

```

## Add Earned Loyalty for a List of Events

```

POST /api/loyalty/earn/list HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVycXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiaUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4M0YzMDAyIiwibmJmIjoiaMTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
Content-Length: 194

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",

```

```
"earnMethods": [
  {
    "earnMethod": "EARN_METHOD_TWO",
    "earnCriteria": 0
  },
  {
    "earnMethod": "EARN_METHOD_THREE",
    "earnCriteria": 1,
    "multipleCount": 500
  }
],
"loyaltyPlatform": 2,
"gameLevel": 5,
"clientIpAddress": "127.0.0.1"
}
```

Response:

```
{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "ATA6XH",
  "dateTimeOffset": "2024-06-06T16:08:37.1581103+00:00",
  "loyaltyConfigurationId": "99ceba21-61b5-49cf-b362-cefab2369f4b",
  "earnRuleId": [
    1,
    0
  ],
  "amount": 7000,
  "amountAdded": 4000,
  "currentBalance": 4100,
  "earnedDuringShutoff": 0,
  "earnMethods": [
    "EARN_METHOD_TWO",
    "EARN_METHOD_THREE"
  ],
  "multipleCount": [
    500
  ],
  "platform": "iOS",
  "gameLevel": 5,
  "vipTier": 1,
  "identityType": "Auth",
  "occurrenceCount": 1,
  "lastOccurrenceTime": null,
  "safetyValveIsOn": true,
  "dailyCapReached": true,
  "vipStatus": {
    "status": {
      "tier": 0,

```

```
    "durationDays": 0,
    "startTime": "2024-06-06T22:07:58-06:00",
    "endTime": "2024-06-06T22:07:58-06:00",
    "retainAmount": 0,
    "tierUpAmount": 10,
    "hasPersonalHost": false,
    "currentAmount": 0
  },
  "loyaltyBalance": {
    "currentBalance": 0,
    "earnedDuringShutoff": 0,
    "dailyTotal": 4000,
    "lifetimeTotal": 4100,
    "lastSyncTime": null,
    "safetyValveIsOn": true,
    "dailyCap": 0,
    "lifetimeCap": 999995900
  }
}
```

Response when safety valve is off:

```
{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "ATA6XH",
  "dateTimeOffset": "2024-06-06T16:08:37.1581103+00:00",
  "loyaltyConfigurationId": "99ceba21-61b5-49cf-b362-cefab2369f4b",
  "earnRuleId": [
    1,
    0
  ],
  "amount": 7000,
  "amountAdded": 4000,
  "currentBalance": 4100,
  "earnedDuringShutoff": 0,
  "earnMethods": [
    "EARN_METHOD_TWO",
    "EARN_METHOD_THREE"
  ],
  "multipleCount": [
    500
  ],
  "platform": "iOS",
  "gameLevel": 5,
  "vipTier": 1,
  "identityType": "Auth",
  "occurrenceCount": 1,
  "lastOccurrenceTime": null,
}
```

```
"safetyValveIsOn": true,
"dailyCapReached": true,
"vipStatus": {
  "status": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2024-06-06T22:07:58-06:00",
    "endTime": "2024-06-06T22:07:58-06:00",
    "retainAmount": 0,
    "tierUpAmount": 10,
    "hasPersonalHost": false,
    "currentAmount": 0
  }
},
"loyaltyBalance": {
  "currentBalance": 0,
  "earnedDuringShutoff": 0,
  "dailyTotal": 4000,
  "lifetimeTotal": 4100,
  "lastSyncTime": null,
  "safetyValveIsOn": false,
  "dailyCap": 0,
  "lifetimeCap": 999995900
}
}
```

## VIP API Documentation

Get the VIP Earn Methods in the Current VIP Configuration

```
GET /api/vip/earnMethods HTTP/1.1
Host: localhost:8080
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVycXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDJjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiaUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoiaMTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
```

Response:

```
{
  "vipRules": [
    {
      "name": "EARN_METHOD_COMPLETE_FTUE"
    },
    {
```

```

        "name": "DIFFICULT_LEVEL_COMPLETED"
    }
]
}

```

## Add Earned VIP Points to a Player

POST /api/vip/earnMethods HTTP/1.1

Host: localhost:8080

Content-Type: application/json

Accept: text/plain

Authorization: Bearer

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVycXBwbGljYXRpb25JZCI6IiIsYX1saW5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoiUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoiMTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd  
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM

Content-Length: 167

```

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "vipRule": "EARN_METHOD_COMPLETE_FTUE",
  "platform": 1,
  "gameLevel": 1,
  "clientIpAddress": "127.0.0.1"
}

```

Response:

```

{
  "playerId": "0803a584-8034-4c15-9388-bdf5f01588e2",
  "supportCode": "HHDWN9",
  "dateTimeOffset": "2024-02-23T16:20:30.7830553+00:00",
  "vipConfigurationId": "478f9eb4-2259-4268-ad34-da51d7275a26",
  "earnRuleId": [
    0
  ],
  "points": 100.0,
  "pointsAdded": 100.0,
  "currentPointsBalance": 110.0,
  "pointsEarnedDuringShutoff": 0.0,
  "vipRule": "EARN_METHOD_COMPLETE_FTUE",
  "platform": "Android",
  "gameLevel": 1,
  "vipTier": 1,
  "identityType": "Anon",
  "occurrenceCount": 1,
  "lastOccurrenceTime": null,
}

```

## Get the Player's Current VIP Status

Response:

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```

    "durationDays": 7,
    "startTime": "2023-03-07T10:56:31-06:00",
    "endTime": "2023-03-14T09:56:31-05:00",
    "retainAmount": 150.0000,
    "tierUpAmount": 300.0000,
    "hasPersonalHost": false,
    "currentAmount": 15.0000
  }
}

```

## Check if the Player has Reached the Expiration of the Current VIP Tier

```

POST /api/vip/checkEndOfStatus HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6IiB5YXlsaw5rXzNjZDNjMzk5LTM1MzEtNDJjNi1hbnZBLLTg0YjQ2OTY3YzclZiIsInNjb3BlIjoiaUGxhdGZvcm1FbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoiaMTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.SDmNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
Content-Length: 90

{
  "playerId": "fd4cbc2f-5e62-4692-b9e6-8ba42e95c393",
  "clientIpAddress": "127.0.0.1"
}

```

Response:

```

{
  "eventType": "NoChange",
  "currentStatus": {
    "tier": 0,
    "durationDays": 0,
    "startTime": "2023-08-01T18:06:32.853+00:00",
    "endTime": "2023-08-01T18:06:32.853+00:00",
    "retainAmount": 0,
    "tierUpAmount": 10,
    "hasPersonalHost": false,
    "currentAmount": 0
  }
}

```

## Add VIP Points to a Player

```
POST /api/vip/addPoints HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoIPTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
Content-Length: 110

{
  "playerId": "fd4cbc2f-5e62-4692-b9e6-8ba42e95c393",
  "clientIdAddress": "127.0.0.1",
  "vipPoints": 100
}
```

Response:

```
{
  "event": {
    "tierEventType": 0,
    "vipPointsDelta": 100.0
  },
  "currentStatus": {
    "tier": 2,
    "durationDays": 7,
    "startTime": "2023-03-07T04:56:31.307-06:00",
    "endTime": "2023-03-14T04:56:31.307-05:00",
    "retainAmount": 150.0000,
    "tierUpAmount": 300.0000,
    "hasPersonalHost": false,
    "currentAmount": 15.0000
  }
}
```

Get the VIP Tier Config (v1)

```
POST /api/vip/config HTTP/1.1
Host: localhost:8080
Content-Type: application/json
Accept: text/plain
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVyQXBwbGljYXRpb25JZCI6I1BsYXlsaw5rXzNjZDNjMzk5LTM1MzEtNDBjNi1hNzBlLTg0YjQ2OTY3Yzc1ZiIsInNjb3BlIjoIUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoIPTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.sd
```



```
mNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM
```

```
Content-Length: 90
```

```
{
  "playerId": "fd4cbc2f-5e62-4692-b9e6-8ba42e95c393",
  "clientIpAddress": "127.0.0.1"
}
```

Response:

```
{
  "config": {
    "tierEntries": [
      {
        "tier": 0,
        "durationDays": 0,
        "retainAmount": 0.0,
        "tierUpAmount": 10.0000,
        "hasPersonalHost": false
      },
      {
        "tier": 1,
        "durationDays": 0,
        "retainAmount": 0.0,
        "tierUpAmount": 75.0000,
        "hasPersonalHost": false
      },
      {
        "tier": 2,
        "durationDays": 7,
        "retainAmount": 150.0000,
        "tierUpAmount": 300.0000,
        "hasPersonalHost": false
      },
      {
        "tier": 3,
        "durationDays": 15,
        "retainAmount": 600.0000,
        "tierUpAmount": 1600.0000,
        "hasPersonalHost": false
      },
      {
        "tier": 4,
        "durationDays": 30,
        "retainAmount": 2900.0000,
        "tierUpAmount": 5500.0000,
        "hasPersonalHost": false
      }
    ]
  }
}
```

```
        "tier": 5,
        "durationDays": 45,
        "retainAmount": 7400.0000,
        "tierUpAmount": 22000.0000,
        "hasPersonalHost": false
    },
    {
        "tier": 6,
        "durationDays": 60,
        "retainAmount": 26400.0000,
        "tierUpAmount": 60000.0000,
        "hasPersonalHost": false
    },
    {
        "tier": 7,
        "durationDays": 90,
        "retainAmount": 81000.0000,
        "tierUpAmount": 250000.0000,
        "hasPersonalHost": true
    },
    {
        "tier": 8,
        "durationDays": 90,
        "retainAmount": 250000.0000,
        "tierUpAmount": 750000.0000,
        "hasPersonalHost": true
    },
    {
        "tier": 9,
        "durationDays": 90,
        "retainAmount": 750000.0000,
        "tierUpAmount": 2000000.0000,
        "hasPersonalHost": true
    },
    {
        "tier": 10,
        "durationDays": 90,
        "retainAmount": 2000000.0000,
        "tierUpAmount": 1000000000000.0000,
        "hasPersonalHost": true
    }
],
"display": [
    {
        "tierEntryProperty": "DurationDays",
        "displayName": "VIP Period (days)",
        "displayPriority": 1
    },
    {
        "tierEntryProperty": "HasPersonalHost",
        "displayName": "Personal Host",
```

```

        "displayPriority": 99
      },
      {
        "tierEntryProperty": "TierUpAmount",
        "displayName": "MVPs to Obtain",
        "displayPriority": 0
      }
    ]
  }
}

```

## Get the VIP Tier Config (v2)

POST /api/vip/config/v2 HTTP/1.1

Host: localhost:8080

Content-Type: application/json

Accept: text/plain

Authorization: Bearer

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYXJ0bmVycXBwbGljYXRpb25JZCI6IiB5YXl5aW5rXzNjZDNjMzk5LTM1MzEtNDJhNi1hbnZBb1R5c29TY3Zzc1ZiIsInNjb3BlIjoiaUGxhdGZvcmlFbmdpbmUiLCJpYXQiOiIxNjc4MTYzMDAyIiwibmJmIjoiaMTY3ODE2MzAwMiIsImV4cCI6IjE3NDIxNjMwMDIifQ.SDmNeYkCSbe2zD5Nf1xmrTwekKtpzaj9wdzqRHL5HDM

Content-Length: 90

```

{
  "playerId": "fd4cbc2f-5e62-4692-b9e6-8ba42e95c393",
  "clientIpAddress": "127.0.0.1"
}

```

## Response:

```

{
  "config": {
    "tierEntries": [
      {
        "tier": 0,
        "durationDays": 0,
        "retainAmount": 0.0,
        "tierUpAmount": 10.0000,
        "hasPersonalHost": false,
        "hasRewardsAccessBasic": false,
        "hasRewardsAccessHighValue": false,
        "hasRewardsAccessExclusive": false,
        "hasLiveSupport": false
      },
      {
        "tier": 1,

```

```
        "durationDays": 0,
        "retainAmount": 0.0,
        "tierUpAmount": 75.0000,
        "hasPersonalHost": false,
        "hasRewardsAccessBasic": true,
        "hasRewardsAccessHighValue": false,
        "hasRewardsAccessExclusive": false,
        "hasLiveSupport": false
    },
    {
        "tier": 2,
        "durationDays": 7,
        "retainAmount": 150.0000,
        "tierUpAmount": 300.0000,
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## Loyalty Engine Questions and Answers

### Loyalty Engine Flow

There are several documented use cases for the `/api/account/merge/{some_combination_of_social}`, `/api/account/Apple` and `/api/account/Facebook` endpoints:

- Find or create a Facebook-authenticated player.
- Find or create an Apple-authenticated player.
- Merge an anonymous player with a new Facebook-authenticated player.
- Merge an anonymous player with an existing Facebook-authenticated player.
- Merge an anonymous player with a new Apple-authenticated player.
- Merge an anonymous player with an existing Apple-authenticated player.

Assuming an anonymous player has just signed in with Facebook for the first time, which of the following would be called and in what order?

- `find/create -> merge new`
- `find/create -> merge existing`

*How do we determine whether a player is new versus existing if the `find` endpoint also implicitly creates a new account if not found?*

The `merge` endpoint request has a `possibleFacebookPlayerId` field. The game server must determine if a game `playerId` was assigned to the player with those Facebook credentials:

- If so, the game server should include it as `possibleFacebookPlayerId`.
- If not, that field should remain null.

It is essential that the game server assigns an `Id` for each player and that it can find that player within its own database using the player's Facebook credentials. It is possible to merge without first creating the Facebook player separately (`null possibleFacebookPlayerId`), but this can only be done once. Otherwise, it could result in an existing un-synced state being lost as it's already being stored under some other ID.

## Comparing Existing Users with Facebook and Apple IDs

*Is the idea that the game server would be using its database to compare existing users with Facebook and Apple IDs first to determine if a user already exists?*

Yes, the game server must uniquely identify a player and then find that player by `IdentityType` plus other unique `IdentityType` IDs. The `playAWARDS` support code should not be used for a `playerId` as it would create dependencies in both directions.

## Merging Anonymous Accounts into Existing Accounts

*How many times can a new anonymous account be merged into an existing account? What is the standard practice across studios for merging multiple anonymous accounts when a user logs in across multiple devices versus setting the user's account to the existing account without merging?*

The global merge limit is **9**. That value is set within the `playAWARDS` database.

There is a per-app limit specified in `LoyaltyConfiguration` that is internally retrieved by the Loyalty Engine for that app (`MaxMergeCount = 5`). It would be nice if there was a `playAWARDS` endpoint that could be used to query the current global count for each player (`API MigrationCount`) to expose the global constraint to the PlatformEngine.

## Difference Between POST /api/loyalty/balance & POST /api/loyalty/sync

*What is the difference between POST /api/loyalty/balance & POST /api/loyalty/sync? They seem to have the same exact request & response protocols.*

POST /api/loyalty/balance retrieves the Loyalty balance from the player's state and performs a sync daily. If the sync already occurs, POST /api/loyalty/balance returns the current retrieved balance. If the sync hasn't occurred, POST /api/loyalty/balance checks for two sync conditions:

- 60 minutes has passed since the last sync.
- minSyncAmount (set in the Loyalty Economy configuration) has been reached.

If either condition is **true**, check if safetyValveIsOn is **true**. If yes, sync with playAWARDS and return up-to-date synced balance from playAWARDS. POST /api/loyalty/sync forces the sync with playAWARDS if safetyValveIsOn is **true** and returns the up-to-date synced balance from playAWARDS.

POST /api/loyalty/sync should be used when:

- Opening the Rewards store.
- After a successful Reward checkout.

## Safety Valve

*What is safetyValveIsOn? How does it get set and how we should use it?*

safetyValveIsOn is set in the Loyalty Engine. It is **true** by default. It is obtained from the Loyalty Engine configuration.

When the status of the safetyValveIsOn is **false**, Loyalty Point accumulation and syncing is temporarily disabled. The game server should inform the client that the safetyValveIsOn is **false** so that the client can disable UI components linked to Loyalty Point accumulation. Any Loyalty Point earn method requests that occur while the safetyValveIsOn is **false** will be processed (subject to rules and caps), but awarded Loyalty Point amounts will be placed in an EarnedDuringShutoff bucket. The Loyalty Point amounts will be applied and synced once the safetyValveIsOn is set back to **true**.

The status of the safetyValveIsOn is included in the responses from each endpoint, as well as the Loyalty Engine's status API. The game server should periodically call the Status API and track the status of the safetyValveIsOn.

**Note:** Account API endpoints are not affected by safetyValveIsOn. Accounts can still be created, found, and merged regardless of the status of safetyValveIsOn.

The Loyalty Engine has a shutoff mechanism that can be invoked remotely to disable the syncing of Loyalty balances.

## Loyalty Economy Configuration

*How often is the Loyalty Economy configuration retrieved?*

The Loyalty Engine caches the Loyalty Economy configuration for 15 minutes by default.

## Earn Methods



*In the **/earn/...** API, what are **loyaltyPlatform**, **gameLevel** & **earnCriteria** parameters?*

For **loyaltyPlatform**, the value must be an integer. The value can be **0** (any), **1** (Android), **2** (iOS), or **3** (Web).

The **gameLevel** can be sent as an integer if the game has the parameter.

For **earnCriteria**, the value must be an integer. It can be either **0** (single) or **1** (multiple).