Wallet Integration

Introduction

This document describes integration between Adapter and an Wallet via seamless API.

The key words MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD, SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL in this document are to be interpreted as described in RFC 2119.

Changelog

Version	Date	Changes
1.0.10	31.11.2020	Added Adapter's playerId
1.0.9	06.09.2020	 Moved currency to /launch Added explanation of transactional flow
1.0.8	26.08.2020	 Added nativeId Added provider and roundFinished to /transaction request Added /replay launcher Reverted wallet param
1.0.7	03.08.2020	Added launch modeChanged user to player
1.0.6	20.07.2020	Changed paths to transaction requests
1.0.5	05.07.2020	Removed wallet param
1.0.4	23.06.2020	 Separated Wallet and Operator Added provider param to the launcher
1.0.3	19.06.2020	 Added jackpotAmount, promotionType and promotionId to /transaction request Added Launcher section
1.0.2	18.06.2020	 Authorization header is now Bearer <token> instead of <token></token></token> Removed USER_NOT_FOUND and SESSION_NOT_FOUND in favour of USER_UNAUTHORIZED Removed nativeId from params Proxy-Authorisation header changed to X-Server-Authorization
1.0.1	15.06.2020	Added Automated Wallet Verifier section
1.0.0	01.06.2020	First version

Set up information

Wallet owner SHOULD provide:

- Endpoints for staging and production environments of the Wallet.
- · Wallet name
- Minimum and maximum bet, maximum exposure (all values in eur).

Wallet owner SHOULD be provided with:

- · Endpoints for staging and production environments.
- HMAC secret keys for staging and production environments.
- · IP of production environment to whitelist.

Integration

Prerequisites:

- Communication SH0ULD be done via HTTP/1.1 and encrypted with SSL/TLS.
- All API requests MUST be passed with Content-Type: application/json.
- All API responses MUST be passed with Content-Type: application/json.
- Any additional response or request data, parameters, fields or codes not described in documentation SHOULD NOT be used.
- Character encoding utf-8 SH0ULD be set to UTF-8
- All time and date fields SHOULD be in UTC timezone

Authorization

Authorization MUST be done using the following headers:

- Authorization: *Player*'s authorization with Bearer <token> where <token> comes from /authentication request. It MUST be used to identify a *Player*.
- X-Server-Authorization: Server's authorization with HMAC scheme using sha256 algorithm and request payload as hex dump. Example of generating the hash: echo -n \$MESSAGE | openssl dgst -sha256 -hmac \$SECRET_KEY -hex

The Operator MUST check and validate headers and return error in case of incorrect authorization data.

Response codes

All responses MUST return appropriate response's codes.

Code	Status
2XX	Successful
4XX	Application Error
5XX	Server Error

Errors

All errors MUST follow unified structure.

```
{
  "error": {
    "message": "Token expired",
    "code": "PLAYER_UNAUTHORIZED"
  }
}
```

Field code SHOULD contain one of the following codes:

Code	Description
PLAYER_UNAUTHORIZED	Couldn't authorize the player
SERVER_UNAUTHORIZED	Couldn't authorize the server
INSUFFICIENT_FUNDS	Not enough money to make withdrawal
LOSS_LIMIT	Loss limit has been exceeded
UNKNOWN	Unknown error

Field message SHOULD contain reason of the error to help troubleshooting. It is not passed to the *Game Client* on production environment, so it can be more descriptive.

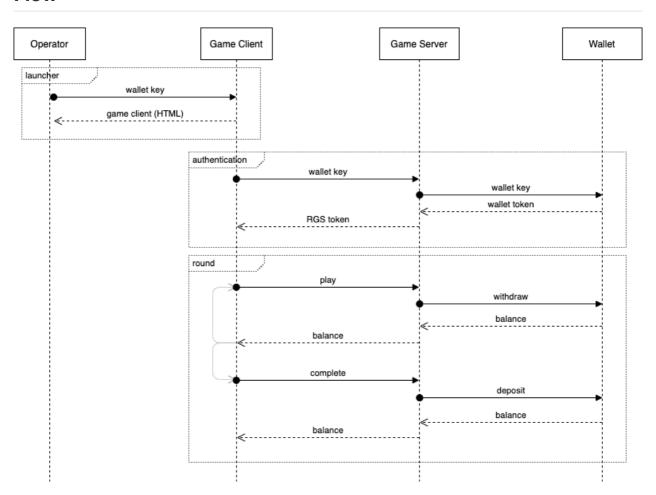
Idempotence

In case of error, network failure or other reasons selected requests MAY be repeated therefore selected requests MUST be idempotent and return the same outcome.

Automated Wallet Verifier

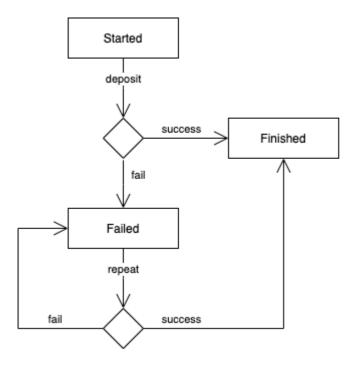
Automated Wallet Verifier offers running automatic test to check integration correctness.

Flow



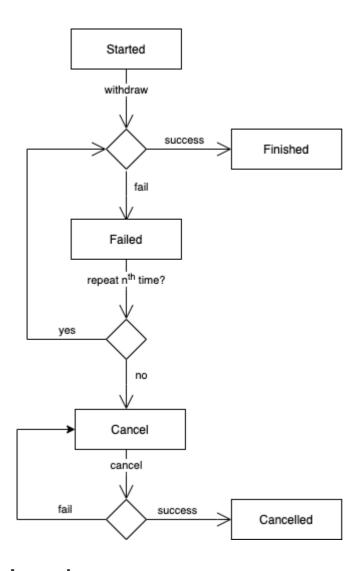
Deposit flow

In case of failure deposit transactions are repeated indefinitely. First *n* repeats MAY come right after the failure and then it still no success then it continues with some time interval until it is successful.



Withdraw flow

For withdrawals, it MAY be repeated n times right after the original transaction and if still didn't go through than cancel is initiated. Cancel is repeated with time interval until success.



Launcher

Path: /launch/{fun|real}

Method: POST (recommended) or GET

Authorization: N0 Idempotent: N0

To launch the game the $\it Operator$ should embed $\it <iframe>$ pointing to $\it <URL>/launch$.

Parameters

Name	Туре	Required	Example	Description
provider	string	REQUIRED	myProvider	Provider Id
wallet	string	REQUIRED	myWallet	Wallet Id.
operator	string	REQUIRED	myOperator	Operator Id
game	string	REQUIRED	myGame	Game Id

Name	Туре	Required	Example	Description
key	string	OPTIONAL in fun mode, REQUIRED in real mode	dnsa89me329jdos	-
Operator's_ session initialisation key which SHOULD be active only once after generation and expire after 4 hour				
currency	string	OPTIONAL	eur	Player's currency
language	string	OPTIONAL	en	_
Player's_ language code in ISO 639-1 format				
lobbyUrl	string	OPTIONAL	http://lobby.url	URL to Operator's lobby
depositUrl	string	OPTIONAL	http://deposit.url	URL to Operator's in-game deposit web page

Response

Returns HTML web page containing the game

Path: /launch/replay Method: GET or POST Authorization: NO Idempotent: NO

To launch the game's replay (round summary) the Operator should embed <iframe> pointing to <SERVER_URL>/replay .

Parameters

Name	Туре	Required	Example	Description
provider	string	REQUIRED	myProvider	Provider Id
game	string	REQUIRED	myGame	Game Id
roundId	string	OPTIONAL	123e4567-e89b-12d3-a456- 426614174000	Round Id, one round can have multiple transactions
wallet	string	REQUIRED	myWallet	Wallet Id.
operator	string	REQUIRED	myOperator	Operator Id

Response

Returns HTML web page containing the game

API

Path: /authenticate
Method: POST

Authorization: X-Server-Authorization

Idempotent: N0

Authenticates a *Player* and starts a new session.

Parameters

Name	Туре	Required	Example	Description
operator	string	REQUIRED	MyOperator	Operator Id
key	string	REQUIRED	dnsa89me329jdos	Wallet's_ session initialisation key which SHOULD be active only one time after generation
wallet	string	OPTIONAL	MyWallet	Wallet's name

Response

Name	Туре		Example	Description
nativeId	string	REQUIRED	user123432	_
Wallet's_ Player Id. MUST be unique across entire all operators and brands				
token	string	REQUIRED	db76b22745bca2cd	Authorization token which will be sent in Authorization token in order to verify _
Player Preferably it should expire after 7 days				
balance	float	REQUIRED	100.85	Player's current balance in player's currency
currency	string	REQUIRED	eur	Player's currency, MUST NOT change once set!
brand	string	REQUIRED	YellowCasino	Operator's brand
nickname	string	OPTIONAL	JohnyBravo	Player's nickname

Name	Туре		Example	Description
gender	string	OPTIONAL	m	Player's gender (m or f)
country	string	OPTIONAL	uk	_
Player's_ country code in ISO 3166-1 Alpha-2 format				
jurisdiction	string	OPTIONAL	mt	-
Player's_ jurisdiction in case of specific market requirements i.e. MT, UK, DK				

Path: /balance Method: POST

Authorization: X-Server-Authorization and Authorization

Idempotent: YES

Fetches Player's current balance in Player's currency.

Parameters

Name	Туре		Example	Description
nativeId	string	REQUIRED	user123432	Wallet's Player Id
playerId	string	OPTIONAL	user123432	Adapter's Player Id

Response

Name	Туре	Example		Description	
balance	float	REQUIRED	100.85	Player's current balance in player's currency	

Path: /transaction

Method: PUT (recommended) or POST

Authorization: X-Server-Authorization and Authorization

Idempotent: YES

Withdraws from or deposits money to *Player's* account. If transaction with given transactionId was already processed then don't modify the account and return current balance.

Parameters

Name	Туре		Example	Description
nativeId	string	REQUIRED	user123432	Wallet's Player Id
playerId	string	OPTIONAL	user123432	Adapter's Player Id

Name	Туре		Example	Description
transactionId	string	REQUIRED	321e4567- e89b-45d3- b594- 41234174249	Transaction Id
type	string	REQUIRED	withdraw	withdraw reduces <i>Player</i> 's balance. deposit increases _
Player's_ balance.				
provider	string	REQUIRED	superProvider	Provider's name
amount	float	REQUIRED	10.56	Amount in _
Player's_ currency to withdraw from the account. Withdrawal of 0 (zero) amount MUST be supported.				
jackpotAmount	float	OPTIONAL	0.0017	Part of amount which goes to jackpot contribution (in case of withdrawals) or jackpot win (in case of deposits). It is only for information purpose, this value should not affect _
Player's_ balance on top of 'amount'. Please note contribution can have more then usual 2-decimal places				
game	string	OPTIONAL	superSlot	Name of the game
roundId	string	OPTIONAL	123e4567- e89b-12d3- a456- 426614174000	Round Id, one round can have multiple transactions
roundFinished	boolean	OPTIONAL	true	Indicates whether round has finished
category	string	OPTIONAL	promo	Category of transaction: normal, side, tip, promo, jackpot
name	string	OPTIONAL	Royal Match	Name of the transaction
promotionType	string	OPTIONAL	free_round	Type of promotional tool free_round , tournament , mystery (can be more)
promotionId	string	OPTIONAL	myCampaign123	ld of promotional campaign

Response

Name	Туре		Example	Description
balance	float	REQUIRED	100.85	Player's current balance

Path: /cancel

Method: DELETE (recommended) or POST

Authorization: X-Server-Authorization and Authorization

Idempotent: YES

Returns once withdrew money to original account (deposits MUST NOT be cancelled). If transaction with given transactionId was already canceled then don't modify the account and return current balance. It MUST NOT be possible to create new transactions with transactionId which was once cancelled.

Parameters

Name	Туре		Example	Description
nativeId	string	REQUIRED	user123432	Wallet's Player Id
playerId	string	OPTIONAL	user123432	Adapter's Player Id
transactionId	string	REQUIRED	321e4567-e89b-45d3-b594-41234174249	Transaction Id

Response

Name	Туре		Example	Description
balance	float	REQUIRED	100.85	Player's current balance