QTech

Common Wallet API

Integration Manual v2.13

中心钱包接口文档

集成手册 版本 2.13

Version Control 版本控制

Version 版本	Date 日期	Author 作者	Description 描述
2.0	Jan 2016	Daniel	• Initial release
2.1	Feb 2016	Mike	• New Settings section to describe the initial preparations of Operator system and QT Platform.
2.2	Oct 2016	Daniel	• Support of GET on Authentication request. • Changed the Game Launcher request to be more device specific. • New Player Game History page. • Included the creation date/time in the Withdrawal, Deposit and Rollback requests.
2.3	Nov 2016	Daniel	• Better clarification of betId in Rollback request. • Extra fields in the "Game List" response.
2.4	May 2017	Daniel	• New Rollback request. The original bet transaction id from QT Platform is included. The Operator should validate the request upon this id. A non-existing bet transaction must return success. • Added the original bet transaction id in Deposit. • Changed "completed" value from boolean to string in examples. • Highlighted notes.
2.5	June 2017	Daniel	• New Service API: Game Round Details • Added the game client (bet history) round id in Withdrawal, Deposit and Rollback requests. • Corrected wrong amount type in document for game-transactions, game-rounds and ngr-player results.
2.6	Aug 2017	Daniel	• Increased maximum number of records per page when retrieving game rounds and transactions from Service API. New max-size is 500 per page. • Possibility to search game-rounds on initiated (default) or completed date. • New Service API: Most Popular Games
2.7	Nov 2017	Daniel	• Bonus details in Game Rounds, Game Round Details Service API • Possibility to specify bet limit per player and game upon game launch
2.8	Mar 2018	Daniel	• New Service API: Free Rounds • Increased maximum number of records per page when retrieving game rounds and transactions from Service API. New max-size is 1000 items per page. • New device type "NATIVE". • Translation corrections. • Bonus details in Common Wallet API

2.9	Sep 2018	Daniel	• Additional optional parameters in game launch request
			  ◦ ipAddress
			  ◦ jurisdiction
			• Clarification of Withdrawals, Deposits, Rollbacks and Rounds.
			• Update examples with existing and playable game.
			• Bonus details corrections.

2.10	Dec 2018	Jewel	• Updated Player Game History page. • Maximum length of playerId: 34 characters • New jurisdictions: CW (Curacao) and PH (Pagcor)

2.11	Apr 2019	Adrian	- Adjusted the expiration time for an access token to 6 hours. - Included bonusId field on the response of "Create Free Round Promotion". - New Service APIs: - Get Free Round Promotion - Delete Free Round Promotion
2.12	May 2019	Jewel	- New Game Lobby page - Possible to autogenerate round options when creating free round promotions
2.13	June 2019	Daniel	- Free Round Promotions Overview (chapter 2.5) - New optional Promotion Status method (chapter 3.6) - Clarification of valid values for txnId and promoCode when creating free round promotions. - Possible to determine what game categories to be displayed in the main navigation menu in the Game Lobby.

Contents 内容

1   Introduction 引言

This document describes the Common Wallet endpoints, which the Operator needs to implement to be able to receive direct withdrawal and deposit requests from the Game to the player wallet in the Operator system.
本文档介绍了中心钱包终端，其中运营商需要在运营商系统中实现为能够接收从游戏中直接提款和存款的请求到玩家钱包。

The document is applicable for Operators where the game transactions, bets and payouts, are being processed in the Operator system.
该文件适用于游戏交易，赌注和支出，都在运营商系统处理的情况。

1.1 Audience 读者

This document is suitable for System/Solution Architects, Software Developers, Technical Project Managers and Technical Business Analysts.
该文件适用于系统／方案架构师，软件开发，技术项目经理和技术业务分析师。

1.2 Terminology 术语

Term 词	Definition 定义
Common Wallet 中心钱包	The definition of a "Common Wallet" is when all game- and player-interactions are being processed in the Operator system."中心钱包"的定义是，当所有的游戏与玩家的交互作用都在运营商系统中处理。
QT QT	QTech, a B2B casino game provider gateway. Qtech, 一个 B2B 的赌场游戏供应商。
QT Platform QT 平台	The casino provider system, hosted by QT. 该赌场提供的系统由 QT host。
Operator 运营商	A casino operator, providing online casino services to players. The operator holds the B2C gaming license. 一个赌场运营商，为玩家提供在线赌场服务。运营商拥有了 B2C 博彩牌照。
Operator Wallet 运营商钱包	The player's wallet within Operator system. 运营商系统内的玩家的钱包。
Player 玩家	A customer who has a player account at the Operator system. 拥有在运营商系统中的玩家账户的客户。

1.3 Settings *设置*

We need to make some initial preparations to enable the communication between the QT Platform and the Operator system. The setup is needed in all environments, such as in integration (test) and production environment.我们需要做一些初步的准备工作以方便 QT 平台和运营商系统之间的通信。设置需要在各种环境中，例如在集成（试验）和生产环境。

Term 词	Description
Account	An Operator account needs to be created by QT. 运营商的账号需要由 QT 创建。
API User	An API user will be provided by QT. The Operator system needs the user to be able to launch a game and to access the Services API in the QT Platform.API 的用户需要由 QT 提供，运营商系统需要用这个用户来启动游戏并且进入 QT 平台的服务 API。
Verify Session Url	The Operator must provide the url of the implemented verify-session endpoint. 运营商必须提供有效的的实现验证会话端点的 URL。 For example: https://wallet.operator.com/qt/accounts/{playerId}/session
Get Balance Url	The Operator must provide the url of the implemented get-balance endpoint. 运营商必须提供有效的实现获取余额端点的 URL。 For example: https://wallet.operator.com/qt/accounts/{playerId}/balance
Withdrawal Url	The Operator must provide the url of the implemented withdrawal endpoint. 运营商必须提供有效的实现提款端点的 URL。 For example: https://wallet.operator.com/qt/transactions
Deposit Url	The Operator must provide the url of the implemented deposit endpoint. 运营商必须提供有效的实现存款端点的 URL。 For example: https://wallet.operator.com/qt/transactions
Rollback Url	The Operator must provide the url of the implemented rollback endpoint. 运营商必须提供有效的实现回滚端点的 URL。 For example: https://wallet.operator.com/qt/transactions/rollback
Pass Key	The Operator and QT must agree to a secret passphrase which will authenticate the requests between the QT Platform and the Operator system. The pass-key is going to be passed as a header parameter in all Common Wallet requests.运营商和 QT 必须同意一个秘密口令，这将验证 QT 平台和运营系统之间的请求。该密匙将被作为头参数在中心钱包请求中传递。
IP Whitelisting IP 白名单	The outgoing IP address of the Operator system and the location of the backoffice users must be whitelisted in QT environment. 运营商系统中传出的 IP 地址以及用户登录后台的 IP 地址必须在 QT 环境白名单内。 The Operator needs to whitelist the following IP addresses, so that QT platform can access the implemented common wallet endpoints. 运营商需要将以下 IP 地址列入白名单，以便 QT 平台可以访问已实现的中心钱包端点。 **INT** (staging): 52.76.39.22, 122.53.186.98 **集成** (测试): 52.76.39.22, 122.53.186.98 **PROD**: TBA 正式: TBA

2 Overview 概观
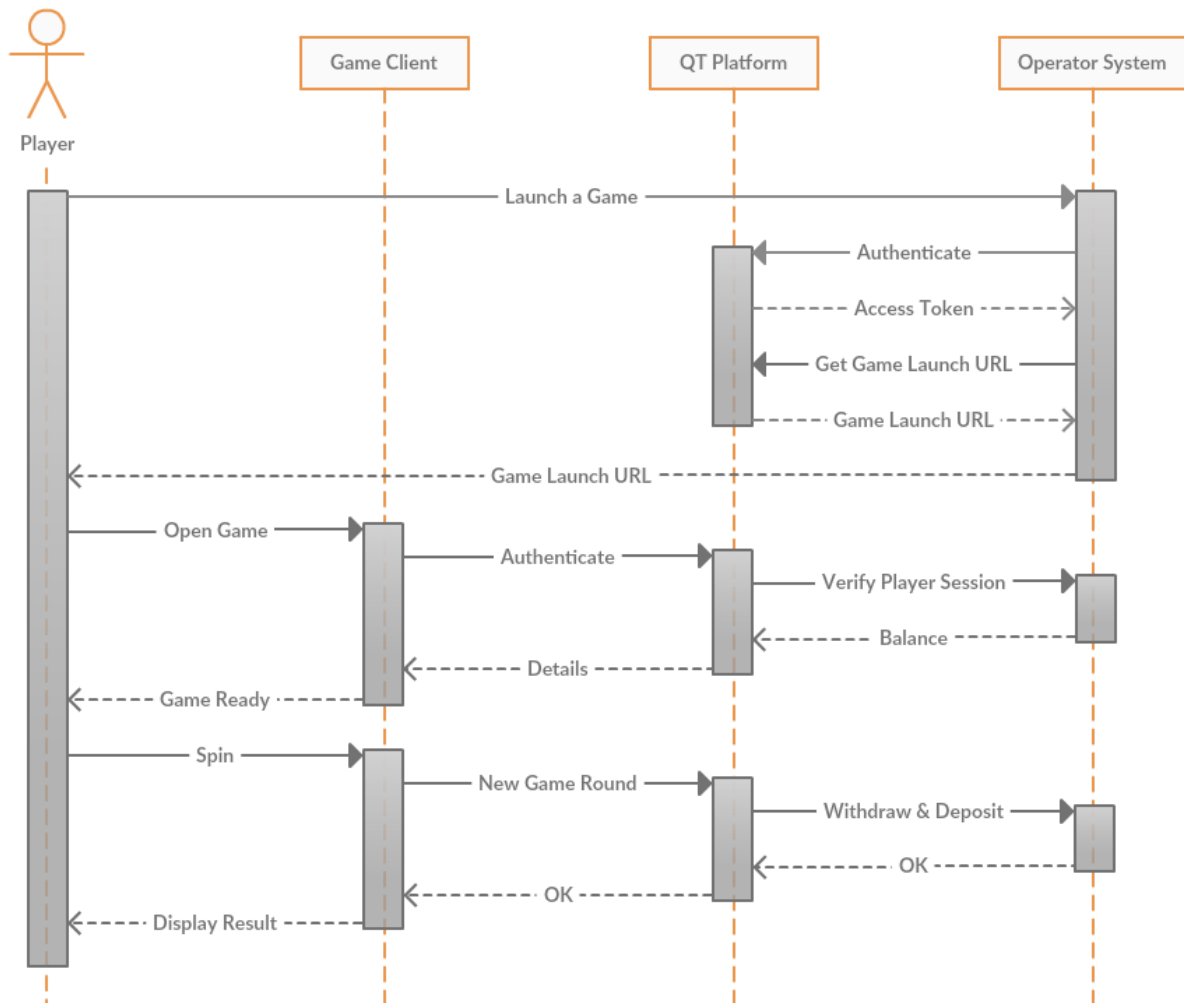
The diagram shows a simplified overview of the interactions between the Player, Game, QT Platform and the Operator System, for a normal game round.
该图呈现对于一个正常的游戏局，玩家，游戏，QT 平台和运营商系统之间交互的简单概述。

2.1 Security 安全

The communication between the QT Platform and the Operator system must be secured (https), trusted (IP security) and authenticated. The authentication is being performed with a secret key, which is shared between the QT Platform and the Operator system. The key is being passed from QT Platform as a header parameter "Pass-Key" and must be verified in the Operator system for each call.
在 QT 平台和运营系统之间的通信必须是安全（HTTPS），信任（IP 安全）和认证。密钥，它是在 QT 平台和操作员的系统之间共享执行的认证。关键是从 QT 平台通过为头参数"传递的关键"，必须在操作员系统中每个呼叫进行验证。

Format 格式   Pass-Key: {pass_key}

Example 案例   Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

2.2 Wallet Sessions 钱包会话

A wallet session id is being used as a player authenticator in the interactions between the QT Platform and the Operator system. The wallet session must be created by the Operator system and be passed as a parameter (walletSessionId) when retrieving the game launch url. The same session id will then be passed as a header parameter in the wallet operations to the Operator system.
钱包会话 ID 被用来作为一个玩家的认证，在 QT 平台和运营商系统之间交互。钱包会话必须在运营商系统中创建并且以作为参数传递(钱包的 SessionID)来检索游戏启动的 URL。相同的会话 ID 将作为一个头参数在钱包运作中传递到运营商系统中。

Format 格式	Wallet-Session: {session_id}
Example 案例	Wallet-Session: d0e72683-3d74-34c7-82c6-6d3d190cd55b

It is the responsibility of the Operator system to validate the wallet session id for the operations where it's required.
运营商系统负责验证所需操作中的钱包会话 id 。

> **NOTE!** 注意！
> It must be possible to execute some of the wallet operations with an expired or missing wallet-session, as unfinished game rounds might be completed or resolved outside the lifetime of a game session. More details can be found per operation definition.
> 它必须能够使用过期或丢失的钱包会话来执行一些钱包操作，因为未完成的游戏局可能在游戏结束后完成或者再处理。更多的细节可以每个操作定义中找到。

2.3 Formats 格式

The Common Wallet endpoints in Operator system must be exposed as RESTful web services with JSON as the data-interchange format and with the character encoding UTF-8.
在运营商系统中的中心钱包端点必须暴露与 JSON REST Web 服务的数据交换格式和字符编码 UTF-8。

The currency code in all requests and responses, must be expressed as 3-letters code according to standard ISO 4217. For example "CNY".
在所有请求和响应的货币代码，必须根据标准 ISO4217 例如"CNY"被表示为 3-字母代码。

The country code must be presented as 2-letter code according to standard ISO 3166-1 alpha-2. For example "CN".
国家代码必须符合标准 ISO3166-1α-2 被呈现为双字母代码。例如，"CN"。

The language code must be presented as a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example "zh_CN".
语言代码必须作为的 2 字母的语言代码（ISO639-1）和 2 个字母的国家代码（ISO3166-1α-2）的组合。例如"zh_CN"。

The date and time within the QT Platform is being presented in CST (China Standard Time) according to standard ISO 8601. The time is presented in "military time", i.e. 24-hours clock.
符合标准 ISO 8601 的时间显示在"军用时间"，即 24 小时时钟 QT 平台中的日期和时间被呈现在 CST(中国标准时间）。

Format 格式	YYYY-MM-DDThh:mm:ss
Example 案例	2015-09-10T13:14:51

2.4 Withdrawals, Deposits, Rollbacks and Rounds *提款，存款，回滚 和游戏局*

Withdrawals (bets), deposits (wins) and rollbacks (refunds) are bound together with the same unique round id. Each round can contain several withdrawals, deposits and rollbacks. The transaction id used for withdrawals, deposits and rollbacks is unique. The sequence of the requests differs from game to game and from different game types. The following sequences must be supported.

提款（投注），存款（赢奖）和回滚（退款）与同一个且是唯一的游戏局 ID 绑定在一起。每个游戏局可以包含几次提款，存款和回滚，每个提款，存款和回滚的交易 ID 是唯一的。请求的顺序因不同游戏和游戏类型而异。必须支持以下顺序。

Example 1 (Loss)
Withdrawal (amount=10, roundId=1, completed=true)

Example 2 (Loss)
Withdrawal (amount=10, roundId=2, completed=false)
Deposit (amount=0, roundId=2, completed=true)

Example 3 (Loss)
Withdrawal (amount=10, roundId=3, completed=false)
Withdrawal (amount=10, roundId=3, completed=false)
Deposit (amount=0, roundId=3, completed=true)

Example 4 (Win)
Withdrawal (amount=10, roundId=4, completed=false)
Deposit (amount=100, roundId=4, completed=true)

Example 5 (Win)
Withdrawal (amount=10, roundId=5)
Withdrawal (amount=10, roundId=5)
Deposit (amount=70, roundId=5, completed=true)

Example 6 (Win)
Withdrawal (amount=10, roundId=6, completed=false)
Deposit (amount=10, roundId=6, completed=false)
Deposit (amount=4, roundId=6, completed=false)
Deposit (amount=5, roundId=6, completed=true)

Example 7 (Rollback)
Withdrawal (amount=10, roundId=7, completed=false)
Rollback (amount=10, roundId=7, completed=true)

Example 8 (Rollback)
Withdrawal (amount=10, roundId=8, completed=false)
Withdrawal (amount=5, roundId=8, completed=false)
Rollback (amount=5, roundId=8, completed=false)
Deposit (amount=x, roundId=8, completed=true)

2.5 Free Round Promotions *免费游戏局活动*

The QT platform supports two types of free round promotions; Fixed or Flexible.

A Fixed promotion is where the operator decides a fixed number of rounds and amount for a certain player and promotion.

A Flexible promotion is where the operator can automatically generate different round options for the player to choose from, based on the rewarded bonus amount. This option gives more flexibility for the player, to select a round option that best matches his/her bet strategy.

QT 平台支持两种类型的免费游戏局：预设定的或者可调整的

预设定的免费游戏局是指运营商为指定的玩家和活动，选择预定的游戏局数量和每局的投注额。

可调整的免费游戏局是指运营商可以根据奖励的金额自动生成不同的游戏局选项供玩家选择。这个选项可以为玩家提供更大的灵活性，选择最符合他/她的投注策略的游戏局选项。
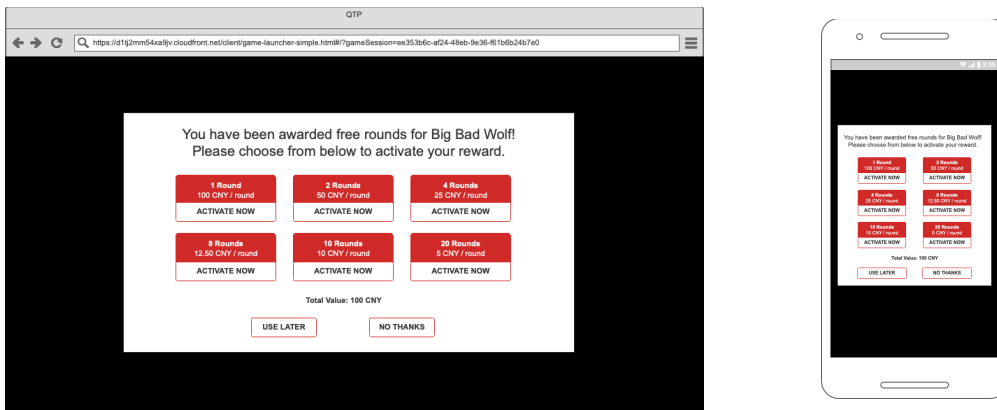
To create free round promotions, the operator can either use the campaign tool in Back Office or use our API, as explained in chapter "Create Free Round Promotion 创建免费游戏局".

运营商可以使用 QT 后台的活动工具或者通过 API 来创建免费游戏局，在 API 文档 8.7 章节"CreateFreeRoundPromotion 创建免费游戏局"有详细说明。

2.5.1 Free Round Result *免费游戏局活动结果*

The result of a played free round promotion will be delivered in one or several game rounds, where each round will start with a 0-amount withdrawal transaction followed by one or several deposit transactions. The bonus type and the promotion code, which was given when creating the promotion, will be passed in every withdrawal and deposit transaction.

一个完成的免费游戏局活动的结果会作为一个游戏局或者分成多个游戏局来传递。每个游戏局会以一个金额为 0 的提款交易开始，后面会有一个或多个存款交易。

For example – a player has been promoted with 2 free rounds with a bet amount of 20.00 CNY per round, with promotion code "123".

示例：一个玩家得到 2 局免费游戏活动，每局游戏的投注金额为 20 元，免费游戏局活动代码为"123"

Example Result Sequence 1 – multiple rounds per promotion

Round 1
Withdrawal (amount=0.00, bonusAmount=20.00, roundId=1, bonusType="FREE_ROUND", bonusPromoCode="123", completed=false)
Deposit (amount=0.00, roundId=1, bonusType="FREE_ROUND", bonusPromoCode="123", completed=true)

Round 2
Withdrawal (amount=0.00, bonusAmount=20.00, roundId=2, bonusType="FREE_ROUND", bonusPromoCode="123", completed=false)
Deposit (amount=5.00 roundId=2, bonusType="FREE_ROUND", bonusPromoCode="1233445", completed=true)

Example Result Sequence 2 – single round per promotion

Round 1
Withdrawal (amount=0.00, bonusAmount=20.00, roundId=1, bonusType="FREE_ROUND",
bonusPromoCode="123", completed=false)
Deposit (amount=5.00, roundId=1, bonusType="FREE_ROUND", bonusPromoCode="123", completed=true)

2.5.2 Free Round Status 免费游戏局活动的状态

The status of a certain promotion can be displayed in the Back Office or be requested from the API, as described in "Get Free Round Promotion 获取免费游戏局", or by implementing the status callback method, as described in "Promotion Status 活动状态".

指定免费游戏局活动的状态可以在 QT 后台中显示，或者通过 API 请求获取。在 API 请求时可参考章节 8.8 GetFreeRoundPromotion 获取免费游戏局，或者参考章节 3.6 PromotionStatus 活动状态，部署实现 status callback 的方法。

A Free Round Promotion can be in one of the following states:

免费游戏局可以处于以下的状态：

Status	Description
PROMOTED	The operator has assigned the free round to the player. 运营商已将免费游戏局分配给玩家。
CLAIMED	The player has activated the promotion by launching the game and selecting a specific round option. 玩家通过选择特定的局数选项接受免费游戏局。
IN_PROGRESS	The player has started to play the free rounds, ie at least one free round has been completed. 玩家已开始使用免费游戏局，并至少完成一轮免费局。
COMPLETED	The player has completed all the free rounds in the promotion. 玩家已完成免费游戏局的所有局数。
DELETED	The promotion was deleted by the operator. 运营商删除免费游戏局。
CANCELLED	The promotion was rejected by the player. 玩家拒绝免费游戏局。
FAILED	The creation of the promotion failed on the game server. 创建免费游戏局失败。

The status of a Free Round Promotion can have the following transitions:

免费游戏局的状态可以包含以下内容：

PROMOTED ➜ CLAIMED ➜ IN_PROGRESS ➜ COMPLETED

PROMOTED ➜ CLAIMED ➜ FAILED ➜ PROMOTED

PROMOTED ➜ DELETED

PROMOTED ➜ CANCELLED

2.6 Idempotency 幂等

The transactional methods of the Common Wallet endpoints must be idempotent, meaning same transaction, deposit, withdrawal or rollback can be retried in case of error but the retry must not result to new transaction in Operator system. A retry must return the original response.
中心钱包端点的交易方法必须是幂等，这意味着在发生错误的情况下可以重试相同的交易，存款，提款或回滚，但重试不会导致运营商系统中产生新的交易。 重试必须返回原始响应。

2.7 Player Creation *创建玩家*

A "shadow" Player gets automatically created in QT Platform when launching a game, as described in "Game Launcher 游戏启动".

一个"shadow"玩家会在启动游戏时自动在 QT 平台生成，如"Game Launcher 游戏启动"章节中所述。

2.8 Error Handling *错误处理*

Sometimes errors can happen during a request. In case of an error, the response must be reflected both in the header (HTTP status code) and with a response body, containing an error code and message. All errors will return HTTP status code 4xx or 5xx.

有时在请求期间可能发生错误。 在发生错误的情况下，该响应必须同时在头部（HTTP 状态码）和响应主体（包含错误代码与信息）

中体现。 所有错误将返回 HTTP 状态码 4xx 或 5xx。

```
HTTP Status: 400
Content-Type: application/json

{
  "code":"INSUFFICIENT_FUNDS",
  "message":"Not enough funds for the debit operation"
}
```

Each API definition will explain in detail what possible errors (http status, code and message) that can occur.

每个 API 定义将会详细解释可能出现的错误（http status, code and message）。

3   Common Wallet 中心钱包

This chapter describes the five (5) endpoints; "Verify Session", "Get Balance", "Deposit", "Withdrawal" and "Rollback", which the Operator system must implement to support Common Wallet.

本章描述五个(5)端点; "验证会话", "获取余额", "存款", "取款"和"回滚", 运营商系统必须实现这些端点以支持中心钱包。

> **NOTE!** 注意！
> This API will be extended with more parameters over time, so it is recommended that your implementation ignores any extra properties, parameters or fields in the requests. This will make the system "forward compatible" with respect to clients and QT will be able to extend the API without requiring an immediate system upgrade from you.
> 重要！ 随着时间的推移，该 API 将扩展更多的参数，因此建议您能够实现忽略请求中的任何其他额外的属性，参数或字段。 这将使系统与客户之间更好的" forward compatible"，QT 将能够扩展 API 而不需要立即从系统升级。

3.1   Verify Session 验证会话

Every time a player launches a game, the player session will be validated and verified in the Operator system. The Operator must implement this endpoint to support game launches.
每次玩家启动游戏时，玩家会话将在运营商系统中进行确认和验证。 运营商必须实现此端点以支持游戏启动。

3.1.1   Request 请求

Request URL 请求链接

https://wallet.operator.com/accounts/{playerId}/session

HTTP Method HTTP 方法

GET

Header Parameters 头参数

Name	Description	Required	Type	Sample
Wallet-Session	The Operator generated player session token. This is the same session id as given when retrieving the game launch url. 运营商生成的玩家会话令牌。这是在检索游戏启动 url 时给出的相同会话 id。	Yes	String	568dbe0a57f5d33d34b22d0e
Pass-Key	The shared secret pass-key.共享的密钥。	Yes	String	76236f90-dc9c-36d7-9e78-3e716d5ecf92

Path Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player within the Operator system.在运营商系统中玩家唯一的标识符。	Yes	String	test1234

Example Request

```
GET /accounts/test1234/session
Host: wallet.operator.com
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e
```

3.1.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Required	Type	Sample
balance	The balance of the player, expressed with maximum 2 decimals.玩家的余额，表示为最大 2 位小数。	Yes	Decimal	8880.00
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217.玩家钱包的根据 ISO4217 的货币，作为 3 个字母的代码。	Yes	String	CNY

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "balance":8880.00,
  "currency":"CNY"
}
```

3.1.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	400	Missing, invalid or expired player (wallet) session token.缺失，无效或过期的玩家（钱包）会话令牌。
ACCOUNT_BLOCKED	403	The player account is blocked. 该玩家的账户被锁住。
LOGIN_FAILED	401	The given pass-key is incorrect.给定的密钥不正确。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 400
Content-Type: application/json

{
  "code":"INVALID_TOKEN",
  "message":"The given wallet session token has expired."
}
```

3.2 Get Balance *获取余额*

The "Get Balance" endpoint is being called from time-to-time update the balance within the game. The Operator must implement this endpoint to return the player's latest balance.
"获取余额"端点在实时更新游戏中的余额时被调用。运营商必须实现此端点以返回玩家的最新余额。

> **NOTE!** 注意！
> It must be possible to retrieve the player's balance with an expired or missing wallet-session, as unfinished game rounds might be completed or resolved outside the lifetime of a game session.
> 它必须能够使用过期或丢失的钱包会话 ID 来获取玩家的余额，因为未完成的游戏局可能会在游戏会话过期后进行完成或再解决。

3.2.1 Request 请求

Request URL

https://wallet.operator.com/accounts/{playerId}/balance

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Wallet-Session	The Operator generated player session token. This is the same session id as given when retrieving the game launch url. 运营商生成的玩家会话令牌。这是在检索游戏启动 url 时给出的相同会话 id。	No	String	568dbe0a57f5d33d34b22d0e
Pass-Key	The shared secret pass-key.共享的密钥。	Yes	String	76236f90-dc9c-36d7-9e78-3e716d5ecf92

Path Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player within the Operator system.在运营商系统中玩家的 id 是唯一的。	Yes	String	test1234

Example Request

```
GET /accounts/test1234/balance
Host: wallet.operator.com
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e
```

3.2.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Required	Type	Sample
balance	The balance of the player, expressed with maximum 2 decimals.玩家的余额，表示为最大的两位小数。	Yes	Decimal	8880.00
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "balance":8880.00,
  "currency":"CNY"
}
```

3.2.3 Possible Errors 可能的错误

Code	HTTP Status	Description
REQUEST_DECLINED	400	General error. If request could not be processed. 请求无法被进行。
LOGIN_FAILED	401	The given pass-key is incorrect. 所给的密钥不正确
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 401
Content-Type: application/json

{
  "code":"LOGIN_FAILED",
  "message":"The given pass-key is incorrect."
}
```

3.3 Withdrawal *提款*

When placing a bet in a game, the bet amount will be withdrawn from the player's balance in the Operator system. The Operator system needs to expose an endpoint to support withdrawals from a given player's account.
当下注在一场游戏时，投注金额将会从运营商系统玩家的余额中提取。运营商系统需要公开一个端点来支持从所给玩家账户中提款。

> **NOTE!** 注意！
> This endpoint must be transactional and be idempotent, which means that the same withdrawal can be retried in case of error but the retry must not result to new transaction in Operator system. A retry must always return the original response.
> 该端点必须是事务性和幂等，这意味着同一个提款可以重试在有错误的情况下，但重试不得在运营商系统中产生新事务。重试必须始终返回原来的响应。
>
> A withdrawal from a bonus round is being sent with a 0-amount, a bonus type, bonus (bet) amount and an optional promotion code. A bonus promotion can contain several bonus rounds.
> 奖金游戏局的提款将被发送为0-amount 奖金类型，奖金（投注）金额和非必需的活动代码。奖金活动可以包含多个奖金游戏局。

3.3.1 Request *请求*

Request URL

https://wallet.operator.com/transactions

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Wallet-Session	The Operator generated player session token. This is the same session id as given when retrieving the game launch url. 运营商生成的玩家会话令牌。这是在检索游戏启动 url 时给出的相同会话 id。	Yes	String	568dbe0a57f5d3 3d34b22d0e
Pass-Key	The shared secret pass-key.共享的密钥。	Yes	String	76236f90-dc9c-36d7-9e78-3e716d5ecf92

Payload Parameters

Name	Description	Required	Type	Sample
txnType	The transaction type. Only **DEBIT** is valid for withdrawals. 交易类型。只有 DEBIT 为有效提款。	Yes	String	DEBIT
txnId	The game transaction id from the QT Platform. 游戏交易 id 来自 QT 平台。	Yes	String	5693761657f5d3 46ec6749a1
playerId	The player id supplied by the Operator.由运营商提供的玩家 ID。	Yes	String	test123
roundId	The game round id (hand id) supplied by the QT Platform.游戏局 id 由 QT 平台提供	Yes	String	568cc92f57f5d3 3b95846124
amount	The bet amount 投注金额	Yes	Decimal	80.00
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY
bonusBetAmount	The bonus bet amount. If provided, the withdrawal amount will be 0.00, since it's a bonus round. 奖金投注金额。 如果提供，投注金额将为 0.00，因为这是一个奖	No	Decimal	10.00

	金游戏局。			
bonusType	Determines whether the withdrawal request is part of a bonus round. Valid values are FREE_ROUND FEATURE_TRIGGER 确定提款请求是否是奖金游戏局部分。有效值是 FREE_ROUND FEATURE_TRIGGER	No	String	FREE_ROUND
bonusPromoC ode	An optional tracking code for bonus rounds, which was registered when creating the promotion. 奖金游戏局非必需的追踪代码，在活动创建时已注册。	No	String	FirstDeposit
gameId	QT Platform game id. QT 平台游戏 id.	Yes	String	TK-froggrog
device	The device type of the player. Valid values are **MOBILE, DESKTOP** or **NATIVE**. 玩家的设备类型。有效值为 MOBILE, DESKTOP 或 NATIVE。	No	String	MOBILE
clientType	The client type of the game. Valid values are **FLASH** or **HTML5**. 游戏的类型，有效值是 FLASH 或者 HTML5.	No	String	HTML5
clientRoundId	The round id given in the bet history within the game client. 在游戏客户端投注历史中给出的游戏局 ID。	No	String	123456
category	The category of the game, expressed as a path. 游戏的类别，表示为路径。	No	String	CASINO/SLOT/5 REEL
created	The date and time when the WITHDRAWAL transaction was created, expressed as "YYYY-MM-DDThh:mm:ss+hh:mm[TimeZone]". 创建 WITHDRAWAL 事务的日期和时间，表示为 "YYYY-MM-DDThh：mm：ss + hh：mm [TimeZone]"。	Yes	String	2015-10-22T20:34:59.70 3+08:00[Asia/S hanghai]
completed	Determines whether the game round is finished.决定游戏局是否完成。	Yes	String	false

Example Request – Completed (loss)

```
POST /transactions
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "txnType":"DEBIT",
  "txnId":"568cc95f57f5d33b96f379ab",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":80.00,
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"true"
}
```

Example Request – In Progress

```
POST /transactions
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "txnType":"DEBIT",
  "txnId":"568cc95f57f5d33b96f379ab",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":80.00,
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"false"
}
```

Example Request – Free Round (promotion)

```
POST /transactions
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "txnType":"DEBIT",
  "txnId":"568cc95f57f5d33b96f379ab",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":0.00,
  "bonusBetAmount":80.00,
  "bonusType":"FREE_ROUND",
  "bonusPromoCode":"FirstDeposit",
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"false"
}
```

3.3.2 Response 响应

HTTP Status Code

201 Created

Response Parameters

Name	Description	Required	Type	Sample
balance	The balance of the player, expressed with maximum 2 decimals, after the bet amount has been deducted.玩家的余额，表示为最大两个小数，在投注额被减去后。	Yes	Decimal	8880.00
referenceId	The operator unique identifier of the wallet transaction.钱包交易中玩家的 id 是唯一的。	Yes	String	123456

Example Response - Success

```
HTTP Status: 201
Content-Type: application/json

{
  "balance":8880.00,
  "referenceId":"123456"
}
```

3.3.3 Possible Errors 可能的错误

Code	HTTP Status	Description
REQUEST_DECLINED	400	General error. If request could not be processed. 请求无法被进行。
INVALID_TOKEN	400	Missing, invalid or expired player (wallet) session token.缺失，无效或过期的玩家（钱包）会话令牌。
INSUFFICIENT_FUNDS	400	If the requested DEBIT amount is higher than the player's balance within the Operator system. 如果请求的 DEBIT 额度高于玩家的余额在运营商的系统中。
LIMIT_EXCEEDED	400	The game limit for the player has been exceeded. No bets allowed. 玩家的游戏限制已经被超越，不允许投注。
ACCOUNT_BLOCKED	403	The player account is blocked. 该玩家的账户被锁住。
LOGIN_FAILED	401	The given pass-key is incorrect. 所给的密钥是不正确的。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
{
  "code":"INSUFFICIENT_FUNDS",
  "message":"Not enough funds for the debit operation"
}
```

3.4 Deposit *存款*

In case of winning, the payout amount will be deposited to the player's balance in the Operator system. The Operator system needs to expose an endpoint to handle deposits to a given player's account.
如果中奖，支出金额将存入在运营商系统玩家的余额。运营商系统需要公开一个端点以处理存款到某个玩家的账户。

> **NOTE! 注意！**
> This endpoint must be transactional and be idempotent, which means that the same deposit can be retried in case of error but the retry must not result to new transaction in Operator system. A retry must always return the original response.
> 该端点必须是事务性和幂等，这意味着同样的存款可以重试，但重试不得导致在运营商系统中产生新的事务。重试必须始终返回原来的响应。
>
> It must be possible to perform a deposit with an expired or missing wallet-session id, as unfinished game rounds might be completed or resolved outside the lifetime of a game session.
> 它必须能够使用过期或丢失的钱包会话 ID 来进行存款，因为未完成的游戏局可能会在游戏会话过期后进行完成或再解决。
>
> A deposit with zero (0.00) amount must be acceptable, as it could mean a completion of the game round. 零（0.00）金额的存款必须是可以接受的，因为它可能意味着一个完成的游戏回合。
>
> A deposit from a bonus round contains the same bonus type and promotion code as for the withdrawal request. A bonus round can contain several deposits.□□
> 来自奖金游戏局的存款包含与提款请求相同的奖金类型和活动代码。奖金游戏局可以包含多个存款。

3.4.1 Request 请求

Request URL

https://wallet.operator.com/transactions

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Wallet-Session	The Operator generated player session token. This is the same session id as given when retrieving the game launch url. 运营商生成的玩家会话令牌。这是在检索游戏启动 url 时给出的相同会话 id。	No	String	568dbe0a57f5d3 3d34b22d0e
Pass-Key	The shared secret pass-key. 共享的密钥。	Yes	String	76236f90-dc9c-36d7-9e78-3e716d5ecf92

Payload Parameters

Name	Description	Required	Type	Sample
txnType	The transaction type. Only **CREDIT** is valid for deposits.交易类型，只有 CREDIT 对于存款是有效的。	Yes	String	CREDIT
txnId	The QT Platform game transaction id. QT 平台游戏交易 id.	Yes	String	5693761657f5d3 46ec6749a1
betId	The related bet (withdrawal) transaction id generated by QT Platform. QT Platform 生成的相关投注（提款）交易 ID。	No	String	568cc95f57f5d3 3b96f379ab
playerId	The player id supplied by the Operator.玩家 id 由运营商提供。	Yes	String	test123
roundId	The game round id (hand id) supplied by the QT Platform.游戏局 ID 由 QT 平台提供。	Yes	String	568cc92f57f5d3 3b95846124
amount	The payout amount 出款量	Yes	Decimal	80.00

currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据ISO4217 的货币。	Yes	String	CNY
bonusType	Determines whether the withdrawal request is part of a bonus round. Valid values are FREE_ROUND FEATURE_TRIGGER 确定提款请求是否是奖金游戏局部分。有效值是 FREE_ROUND FEATURE_TRIGGER	No	String	FREE_ROUND
bonusPromoCode	An optional tracking code for bonus rounds, which was registered when creating the promotion. 奖金游戏局非必需的追踪代码，在活动创建时已注册。	No	String	FirstDeposit
gameId	QT Platform game id。QT 平台游戏 id。	Yes	String	TK-froggrog
device	The device type of the player. Valid values are **MOBILE, DESKTOP** or **NATIVE**. 玩家的设备类型。有效值为 MOBILE, DESKTOP 或 NATIVE。	No	String	MOBILE
clientType	The client type of the game. Valid values are **FLASH** or **HTML5**.游戏的类型，有效值为 FLASH 或者 HTML5.	No	String	HTML5
clientRoundId	The round id given in the bet history within the game client. 在游戏客户端投注历史中给出的游戏局 ID。	No	String	123456
category	The category of the game, expressed as a path. 游戏的类别，表示为路径。	No	String	CASINO/SLOT/5REEL
created	The date and time when the DEPOSIT transaction was initiated, expressed as "YYYY-MM-DDThh:mm:ss+hh:mm[TimeZone]". 创建 DEPOSIT 事务的日期和时间，表示为 "YYYY-MM-DDThh：mm：ss + hh：mm [TimeZone]"。	Yes	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
completed	Determines whether the game round is finished.决定游戏局是否完成。	Yes	String	true

Example Request - Completed

```
POST /transactions
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "txnType":"CREDIT",
  "txnId":"5693761657f5d346ec6749a1",
  "betId":"568cc95f57f5d33b96f379ab",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":80.00,
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"true"
}
```

Example Request – In Progress

```
POST /transactions
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "txnType":"CREDIT",
  "txnId":"5693761657f5d346ec6749a1",
  "betId":"568cc95f57f5d33b96f379ab",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":80.00,
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"false"
}
```

Example Request – Free Round (promotion)

```
POST /transactions
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "txnType":"CREDIT",
  "txnId":"5693761657f5d346ec6749a1",
  "betId":"568cc95f57f5d33b96f379ab",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":80.00,
  "bonusType":"FREE_ROUND",
  "bonusPromoCode":"FirstDeposit",
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"true"
}
```

3.4.2 Response 响应

HTTP Status Code

201 Created

Response Parameters

Name	Description	Required	Type	Sample
balance	The balance of the player, expressed with maximum 2 decimals, after the payout amount has been processed. 在出款额度已被处理后，玩家的余额表示为最大两位小数。	Yes	Decimal	8880.00
referenceId	The operator unique identifier of the wallet transaction.钱包交易中运营商的 ID 是唯一的	Yes	String	123456

Example Response - Success

```
HTTP Status: 201
Content-Type: application/json

{
  "balance":8880.00,
  "referenceId":"123456"
}
```

3.4.3 Possible Errors

Code	HTTP Status	Description
REQUEST_DECLINED	400	General error. If request could not be processed. 请求无法被进行。
LOGIN_FAILED	401	The given pass-key is incorrect.给定的密钥不正确。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 400
Content-Type: application/json

{
  "code":"REQUEST_DECLINED",
  "message":"Maintenance"
}
```

3.5 Rollback *回滚*

Sometimes things can go wrong. For example, if the player gets disconnected from the game server or if there are any the wallet miscommunications. In case of these rare errors, a cancellation can be issued to rollback the last bet to return the bet amount to the player's account. The Operator system must support rollback requests.
有时候可能会出现一些错误。例如，玩家与服务器断开连接，或者存在钱包通信错误。在出现这些错误的情况下，可以回滚玩家最后的投注，将投注金额返还到玩家的账户。运营商系统必须支持回滚请求。

> **NOTE! 注意！**
> If the Operator system does not find the original bet transaction that is being requested to be rolled back, it should just indicate it as a success and return the balance without a referenceId (a non existing transaction in Operator system is equivalent to a rolled back one from system perspective).
> 如果运营商系统没有找到正在请求回滚的原始投注交易，则应表示交易成功，并在没有 referenceId 的情况下返回余额(在运营商系统中，一个不存在的交易相当于一个回滚的交易)。
>
> This endpoint must be transactional and be idempotent, which means that the same rollback can be retried in case of error but the retry must not result to a new transaction in Operator system. A retry must always return the original response.
> 该端点必须是事务性和幂等，这意味着同样的回滚可以重试，但重试不得导致在运营商系统产生新的事务。重试必须始终返回原来的响应。
>
> It must be possible to perform a rollback with an expired or missing wallet-session id, as unfinished game rounds might be completed or resolved outside the lifetime of a game session.
> 它必须能够使用过期或丢失的钱包会话 ID 来执行回滚，因为未完成的游戏局可能会在游戏会话过期后进行完成或再解决。

3.5.1 Request 请求

Request URL

https://wallet.operator.com/transactions/rollback

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Wallet-Session	The Operator generated player session token. This is the same session id as given when retrieving the game launch url. 运营商生成的玩家会话令牌。这是在检索游戏启动 url 时给出的相同会话 id。	No	String	568dbe0a57f5d33d34b22d0e
Pass-Key	The shared secret pass-key. 共享的密钥。	Yes	String	76236f90-dc9c-36d7-9e78-3e716d5ecf92

Payload Parameters

Name	Description	Required	Type	Sample
betId	The original bet (withdrawal) transaction id generated by QT Platform. Operator must use this value to check if the original bet transaction exists or not. QT Platform 生成的原始投注（提款）交易 ID，运营商必须使用此值来检查原始投注交易是否存在。	Yes	String	5693761657f5d346ec6749a1
txnId	The QT Platform id of the rollback transaction. 回滚交易的 QT 平台 id。	Yes	String	5694757d57f5d348c35dbcfe
playerId	The player id supplied by the Operator. 玩家 ID 是由运营商提供。	Yes	String	test123

roundId	The game round id (hand id) supplied by the QT Platform.游戏局 id 是由 QT 平台提供。	Yes	String	568cc92f57f5d33b95846124
amount	The rollback amount. 回滚额度	Yes	Decimal	80.00
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217.玩家钱包的根据 ISO4217 的货币，作为 3 个字母的代码。	Yes	String	CNY
gameId	QT Platform game id. QT 平台游戏 ID.	Yes	String	TK-froggrog
device	The device type of the player. Valid values are **MOBILE, DESKTOP** or **NATIVE**. 玩家的设备类型。有效值为 MOBILE, DESKTOP 或 NATIVE。	No	String	MOBILE
clientType	The client type of the game. Valid values are **FLASH** or **HTML5**.游戏的类型，有效值为 FLASH 或者 HTML5.	No	String	HTML5
clientRoundId	The round id given in the bet history within the game client. 在游戏客户端投注历史中给出的游戏局 ID。	No	String	123456
category	The category of the game, expressed as a path. 游戏的类别，表示为路径。	No	String	CASINO/SLOT/5REEL
created	The date and time when the ROLLBACK transaction was created, expressed as "YYYY-MM-DDThh:mm:ss+hh:mm[TimeZone]". 创建 ROLLBACK 事务的日期和时间，表示为 "YYYY-MM-DDThh：mm：ss + hh：mm [TimeZone]"。	Yes	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
completed	Determines whether the game round is finished.决定游戏局是否完成。	Yes	String	true

Example Request

```
POST /transactions/rollback
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Wallet-Session: 568dbe0a57f5d33d34b22d0e

{
  "betId":"5693761657f5d346ec6749a1",
  "txnId":"5694757d57f5d348c35dbcfe",
  "playerId":"test123",
  "roundId":"568cc92f57f5d33b95846124",
  "amount":80.00,
  "currency":"CNY",
  "gameId":"TK-froggrog",
  "device":"MOBILE",
  "clientType":"HTML5",
  "clientRoundId":"123456",
  "category":"CASINO/SLOT/5REEL",
  "created":"2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
  "completed":"true"
}
```

3.5.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Required	Type	Sample
balance	The balance of the player, expressed with maximum 2 decimals, after the rollback has been processed. 在回滚被处理之后，玩家的余额表现为最多 2 位小数。	Yes	Decimal	8880.00
referenceId	The operator unique identifier of the wallet transaction.钱包交易的运营商唯一的 id.	No	String	123456

Example Response – Transaction Found - Success

```
HTTP Status: 200
Content-Type: application/json

{
   "balance":8880.00,
   "referenceId":"123456"
}
```

Example Response – Transaction Not Found – Success

```
HTTP Status: 200
Content-Type: application/json

{
   "balance":8880.00
}
```

3.5.3 Possible Errors 可能的错误

Code	HTTP Status	Description
REQUEST_DECLINED	400	General error. If request could not be processed. 请求无法被进行。
LOGIN_FAILED	401	The given pass-key is incorrect. 所给密钥是不正确的。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 400
Content-Type: application/json

{
   "code":"REQUEST_DECLINED",
   "message":"..."
}
```

3.6 Promotion Status *活动状态*

The Promotion Status method is related to free round promotions and is *optional* to implement. If implemented and registered in Back Office, our platform will push information of (free round) promotion status transitions, such as when a promotion is

活动状态的获取方法与免费游戏局活动相关联，运营商可以选择是否部署。如果在 QT 后台部署和注册，我们的平台将推送（免费游戏局）活动状态交易的信息，例如活动何时开始

Status	Description
PROMOTED	The operator has assigned the free round to the player. 运营商已将免费游戏局分配给玩家。
CLAIMED	The player has activated the promotion by launching the game and selecting a specific round option. 玩家通过选择特定的局数选项接受免费游戏局。
IN_PROGRESS	The player has started to play the free rounds, ie at least one free round has been completed. 玩家已开始使用免费游戏局，并至少完成一轮免费局。
COMPLETED	The player has completed all the free rounds in the promotion. 玩家已完成免费游戏局的所有局数。
DELETED	The promotion was deleted by the operator. 运营商删除免费游戏局。
CANCELLED	The promotion was rejected by the player. 玩家拒绝免费游戏局。
FAILED	The creation of the promotion failed on the game server. 创建免费游戏局失败。

The status of a Free Round Promotion can have the following transitions:

免费游戏局的状态可以包含以下内容：

PROMOTED ➜ CLAIMED ➜ IN_PROGRESS ➜ COMPLETED

PROMOTED ➜ CLAIMED ➜ FAILED ➜ PROMOTED

PROMOTED ➜ DELETED

PROMOTED ➜ CANCELLED

> **NOTE!** 注意！
> The Promotion Status method is an informative callback and request will not include a wallet session.
>
> The responsibility of the Operator system is to consume the request in a silent and non-transactional way, meaning that it should not produce any error responses, unless the Pass-Key authentication fails.
>
> 活动状态的获取方法只会获取到信息型的响应，在请求中不会包含钱包会话。
>
> 运营商系统需要以静默和非交易事务方式使用请求，这意味着它不应产生任何错误响应，除非Pass-Key验证失败。

3.6.1 Request 请求

Request URL

https://wallet.operator.com/bonus/status

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Pass-Key	The shared secret pass-key. 共享的密钥。	Yes	String	76236f90-dc9c-36d7-9e78-3e716d5ecf92

Payload Parameters

Name	Description	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	String	keyops-acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	String	45465
gameIds	The list of games in which this free round is playable. 支持免费游戏局的列表。	Array	QS-goldlab,ELK-djwild
totalBetValue	The total value of the promotion. 免费游戏局总数值。	Decimal	100.00
totalPayout	The total payout of the promotion. 免费游戏局总出款。	Decimal	50.00
roundOptions	The list of numbers of rounds offered to player. Each number in the list is equal to totalBetValue divided by legal bet amount for the given game without remainder. Maximum of 9 round options. 提供给玩家的免费游戏局数量，列表中的每个数字等于 totalBetValue 除以给定游戏的合法投注金额，且没有余额。 最多选项为 9 局。	Array	1,2,4,8
currency	The currency of the free round promotion. It matches the player currency. 免费游戏局的货币与玩家货币相匹配。	String	CNY
promoCode	The optional promotion code for tracking purposes. 用于追踪免费游戏局的活动代码。	String	ABC
status	The status of the free round promotion. The other response parameters returned depend on the status of the free round promotion. The value of this parameter can either be PROMOTED, CLAIMED, IN_PROGRESS, COMPLETED, DELETED, CANCELLED or FAILED. 免费游戏局的状态。返回的响应参数取决于游戏局的状态。此参数的值可以是 PROMOTED□CLAIMED□IN_PROGRESS□COMPLETED□DELETED，CANCELLED 或 FAILED。	String	CLAIMED
validityDays	The number of days the promotion is valid after it has been claimed by the player. 玩家认领免费游戏局后的有效天数。	Number	7
promotedDateTime	The date and time when the promotion was given to the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 提供给玩家免费游戏局的日期和时间，格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T16:44:41.087+08:00[Asia/Shanghai]

claimedDateTime	The date and time when the promotion was claimed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家认领免费游戏局的日期和时间。 格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T16:52:41.087+08:00[Asia/Shanghai]
failedDateTime	The date and time when a promotion operation failed due to error. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 免费游戏局因错误导致失败的日期和时间。 格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:52:41.087+08:00[Asia/Shanghai]
completedDateTime	The date and time when all free rounds in the promotion was completed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家已经完成免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成,方括号时区与请求头参数时区一致。	String	2019-03-14T17:45:41.087+08:00[Asia/Shanghai]
cancelledDateTime	The date and time when the promotion was rejected by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家拒绝免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
deletedDateTime	The date and time when the promotion was deleted by the operator. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 运营商删除玩家免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成,方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
claimedRoundOption	The selected round option of the player. 玩家选择游戏局数的选项。	Number	1
claimedGameId	The unique identifier of the game, provided by QT, in which the player activated (claimed) the promotion. 当玩家认领免费游戏局后，由 QT 提供的游戏唯一的标识符。	String	QS-goldlab

Example Request – PROMOTED

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-a",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"PROMOTED",
  "validityDays":7,
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Request – CLAIMED

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-b",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"CLAIMED",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Request – IN_PROGRESS

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-b",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"IN_PROGRESS",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Request – COMPLETED

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-d",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "totalPayout": 50.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"COMPLETED",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "completedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Request – DELETED

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-e",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"DELETED",
  "validityDays":7,
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "deletedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Request – CANCELLED

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-e",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"CANCELLED",
  "validityDays":7,
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "cancelledDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Request – FAILED

```
POST /bonus/status
Host: wallet.operator.com
Content-Type: application/json
Pass-Key: 76236f90-dc9c-36d7-9e78-3e716d5ecf92

{
  "bonusId": "bonus-c",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"FAILED",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "failedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

3.6.2 Response 响应

HTTP Status Code

204 No Content

3.6.3 Possible Errors 可能的错误

Code	HTTP Status	Description
REQUEST_DECLINED	400	General error. If request could not be processed. 请求无法被进行。
LOGIN_FAILED	401	The given pass-key is incorrect. 所给密钥是不正确的。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 401
Content-Type: application/json

{
   "code":"LOGIN_FAILED",
   "message":"The given pass key is missing or invalid."
}
```

4 Authentication 认证

This chapter describes how to retrieve and revoke an access token in QT Platform to be able to access the Game Launcher or Services API in QT Platform. The QT Platform supports token-based authorization with OAuth 2.0.
本章描述如何在 QT 平台中检索和撤销访问令牌，以便能够访问 QT 平台的游戏启动和服务的 API。QT 平台支持使用 OAuth2.0 令牌的授权。

4.1 Retrieve an Access Token *检索访问令牌*

The retrieved access token is required and must be passed as a header parameter in all server-to-server calls to the QT Platform.
检索访问令牌是必需的，必须在所有服务器对服务器调用中作为一个头参数传递到 QT 平台。

Format 格式	Authorization: Bearer {access_token}
Example 案例	Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

4.1.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/auth/token?
grant_type=password&response_type=token&username={username}&password={password}

HTTP Method

POST or GET

Query Parameters

Name	Description	Required	Type	Sample
grant_type	The type of authentication. This parameter must be set to "password". 身份验证的类型，此参数必须设置为"password"。	Yes	String	password
response_type	The expected type of response. This parameter must be set to "token". 预期响应的类型，此参数必须设置为"token"。	Yes	String	token
username	The username of the caller, provided by QT. 呼叫者的用户名，由 QT 提供。	Yes	String	o1
password	The password of the caller, provided by QT. 呼叫者的密码，由 QT 提供。	Yes	String	56036ccf8e

Example Request

```
POST https://api-int.qtplatform.com/v1/auth/token?
grant_type=password&response_type=token&username=o1&password=56036ccf8e
Accept: application/json
```

4.1.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
access_token	The access token to be used in all search, report and launch-url requests.在所有的搜索，报告和启动 URL 请求中使用的访问令牌。	String	test1234

| expires_in | The number of milliseconds after which the access token expires and is no longer valid (idle time). The expiration time will be reset for every use of the access token. Default is 21600000 milliseconds = 21600 seconds = 6 hours.
毫秒数之后访问令牌到期且不再有效（闲置时间）。 每次使用访问令牌时，到期时间将重置。 默认值是 21600000 毫秒= 21600 秒= 6 小时。 | Number | 21600000 |

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
   "access_token": "76236f90-dc9c-36d7-9e78-3e716d5ecf92"
   "expires_in": 21600000
}
```

4.1.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if the request could not be processed, ie if one of the fields within the request are missing or is invalid.引发此错误，如果该请求不能被处理，也就是说，如果一个请求中的一个字段缺少或无效。
USER_BLOCKED	403	The caller/user is blocked. 呼叫者/用户被阻止。
LOGIN_FAILED	401	The given pass-key is incorrect. 所给密钥是不正确的。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance. 服务不可用。临时关闭，正在维护期。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
   "code":"VALIDATION_ERROR",
   "message":"The request could not be processed due to validation error."
}
```

4.2 Revoke an Access Token *撤销访问令牌*

Revokes an active access token which will delete the user session within the QT Platform.
撤销一个活跃的访问令牌将会删除 QT 平台中的所有用户对话。

4.2.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/auth/token

HTTP Method

DELETE

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token. 有效的访问令牌。	Yes	String	Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Example Request

```
DELETE https://api-int.qtplatform.com/v1/auth/token
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
```

4.2.2 Response 响应

HTTP Status Code

204 No Content

4.2.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	Service is not available. Temporary down, under maintenance. 服务不可用。临时关闭，正在维护期。

Example Error

```
HTTP Status: 401
Content-Type: application/json

{
  "code":"INVALID_TOKEN",
  "message":"Unauthorized. The given token is invalid."
}
```

5 Game Launcher 游戏启动

Creates a player session and returns the launch URL for a specific game.
创建一个玩家会话，并为一个特定的游戏返回启动 URL.
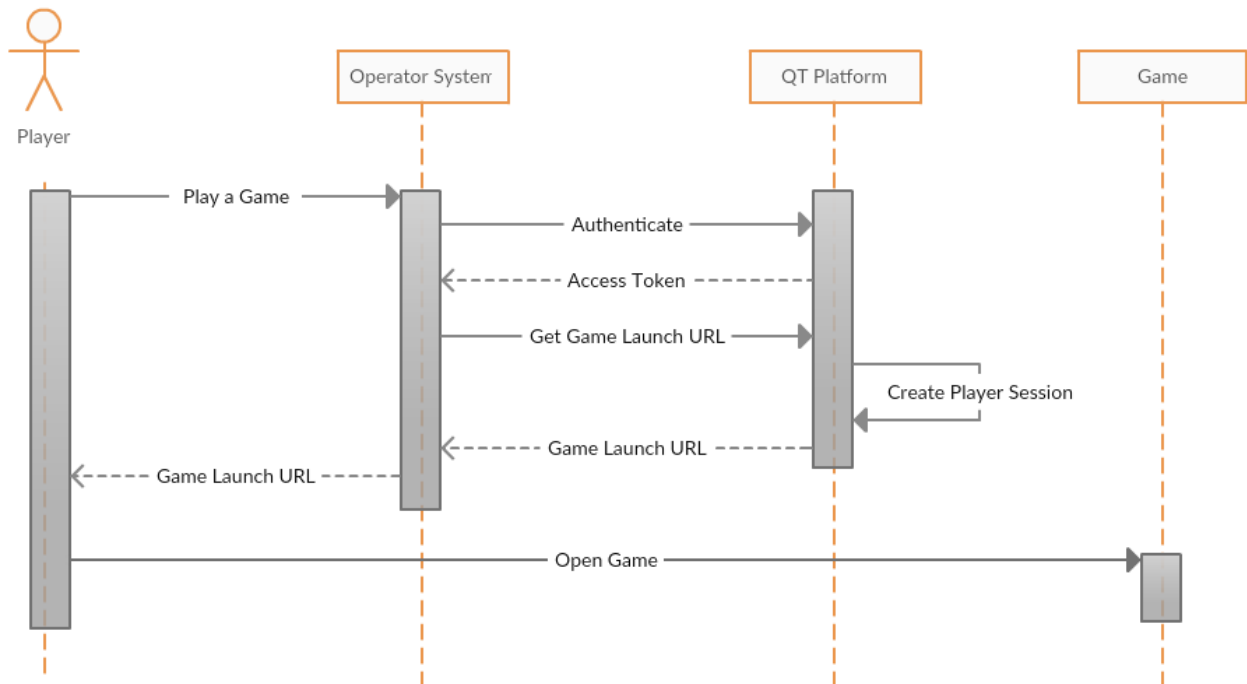
When a player wants to open a game, the Operator system must request for a game launch url in QT Platform. The request contains information about the player and the game. The returned launch url is player and game specific and the Operator must use that url to redirect the Player to the game.
当玩家想要玩游戏时，运营商系统在 QT 平台中请求启动链接。 该请求包含有关玩家和游戏的信息。 返回的链接是玩家特定的，运营商必须使用该 URL 将玩家重定向到该游戏。

5.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/games/{gameId}/launch-url

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Path Parameters

Name	Description	Required	Type	Sample
gameId	The identifier of the game to play. This is supplied by QT. 开始游戏的识别码由 QT 提供。	Yes	String	TK-froggrog

Payload Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in the Operator system. The maximum length is 34 characters. 在运营商系统中玩家唯一的标识符。最大长度为 34 个字.	Yes	String	test123
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY
country	The country of the player's residence, as a 2-letter code according to ISO 3166-1 alpha-2. 玩家的居住地根据 ISO 3166-1 alpha-2 的国家，一个 2 个字母的代码。	Yes	String	CN
gender	The gender of the player. **M** for male or **F** for female. 玩家的性别，M 是男性或者 F 是女性。	No	String	M
birthDate	The birthdate of the player, expressed as YYYY-MM-DD.玩家的生日，表示为 YYYY-MM-DD。	No	String	1986-01-01
lang	The selected language of the game, a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example zh_CN. 游戏的选择语言的 2 字母语言代码的组合（ISO639-1）和 2 个字母的国家代码（ISO3166-1α-2）。例如 zh_CN。	Yes	String	zh_CN
mode	The selected mode of the game. Valid values are **demo** for "play for fun", or **real** to play with real money. 游戏已选择的模式。有效值为 demo 是"play for fun"，还是 real 玩真钱游戏。	Yes	String	real
device	Determines which device the game will be running on. Valid values are **desktop** or **mobile**. 确定游戏将在哪个设备上运行。 有效值为 **desktop** 或 **mobile**.	Yes	String	mobile
returnUrl	Determines the URL of the home button in the **mobile** games. 在移动端游戏中决定主页键的链接。	Yes/No	String	https://operator.site.com/games
walletSessionId	The session id or token, which is connected to the player account in Operator system. The token will be used in all Common Wallet API calls to the Operator system. This parameter is only required when using Common Wallet. If not provided, the wallet in QT Platform will be used. 会话 ID 或令牌，它被连接到运营商系统的玩家账号。令牌将用于运营商系统的所有中心钱包 API 的调用。该参数只在使用中心钱包时才需要。如果没有提供，QT 平台中的钱包将被使用。	Yes	String	7625187
betLimitCode	Determines the bet limit for the player and game session. If not provided, the default bet limit for the game is applied. Available codes and bet limits: 1: max 30 EUR (300 CNY) 2: max 60 EUR (600 CNY) 3: max 90 EUR (900 CNY) 4: max 120 EUR (1200 CNY) 5: max 240 EUR (2400 CNY) The supported games can be found in the game-list. 选定玩家和游戏会话的投注限额。 如果未提供，游戏会使用默认的投注限额。 有效的 ID 和投注限额： 1：最高 30 EUR（300 CNY） 2：最高 60 EUR（600 CNY） 3：最高 90 EUR（900 CNY） 4：最高 120 EUR（1200 CNY）	No	String	1

	5：最高 240 EUR（2400 CNY） 回在游戏列表中找到支持的游戏。			
jurisdiction	The jurisdictional information of the player. The "jurisdiction" is mandatory for players under UKGC or Danish license due reporting requirements. Jurisdiction code is two characters and valid codes are: MT - Malta Gambling Authority UK - UK Gambling Commission GG - Alderney Gambling Control Commission DK - Denmark Gambling Authority GI - Gibraltar RO - Romania SE - Swedish Gambling Authority PH – Philippine Amusement and Gaming Corporation (PAGCOR) CW – Curacao eGaming License 玩家的管辖区域信息。根据报告要求，在 UKGC 或者丹麦许可证下玩家的管辖区域是强制性的。管辖区域的代码是 2 个字母，有效代码为： MT - Malta Gambling Authority UK - UK Gambling Commission GG - Alderney Gambling Control Commission DK - Denmark Gambling Authority GI - Gibraltar RO - Romania SE - Swedish Gambling Authority PH – Philippine Amusement and Gaming Corporation (PAGCOR) CW – Curacao eGaming License	Yes/No	String	MT
ipAddress	The IP address of the player. If given, the IP address will be verified upon game launch as an extra security. 玩家的 IP 地址。如果给出，IP 地址将在游戏启动时作为额外的安全验证。	No	String	122.53.186.98

Example Request (real mode)

```
POST https://api-int.qtplatform.com/v1/games/TK-froggrog/launch-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
  "playerId":"123456",
  "currency":"CNY",
  "country":"CN",
  "gender":"M",
  "birthDate":"1986-01-01",
  "lang":"zh_CN",
  "mode":"real",
  "device":"mobile",
  "returnUrl":"https://operator.site.com/games",
  "walletSessionId":"7625187"
}
```

Example Request (demo mode - play for fun)

```
POST https://api-int.qtplatform.com/v1/games/TK-froggrog/launch-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
  "currency":"CNY",
  "lang":"zh_CN",
  "mode":"demo",
  "device":"mobile",
  "returnUrl":"https://operator.site.com/games"
}
```

The playerId, country and the walletSessionId is **not** required in demo mode.
demo 模式中不需要 playerId，country 和 walletSessionId。

5.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
url	The game-launch URL 游戏启动 URL	String	https://gl-int.qtplatform.com/560e420c8e170730d660ff2f

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "url":"https://gl-int.qtplatform.com/560e420c8e170730d660ff2f"
}
```

5.3 Possible Errors *可能的错误*

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行，是由于无效 JSON 格式。
GAME_NOT_FOUND	404	If the game with the given id was not found. 如果未找到给定 id 的游戏。
GAME_NOT_AVAILABLE	422	If the game is temporarily not available. 如果游戏暂时不可用。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response – Error

```
HTTP Status: 422
Content-Type: application/json

{
  "code":"VALIDATION_ERROR",
  "message":"The request could not be processed due to validation error."
}
```

6 Player Game History 玩家游戏历史记录

The Player Game History page gives the possibility for a player to browse the history of the played game rounds for the past 30 days. The Operator can integrate this page on their existing site; in an iframe, a new tab or a new window.

玩家游戏历史记录页面提供玩家浏览 30 天内玩过的游戏局记录，运营商可以使用内嵌框架(iframe)，一个新的选项卡或者 一个新的窗口将这个功能整合到他们已有的网站中。

↻ Game History

Game	Status	Initiated	Completed	Total Bet	Total Payout
12 Animals	COMPLETED	2018-10-17 10:47:45	2018-10-17 10:47:46	15.00 CNY	0.00 CNY
12 Animals	COMPLETED	2018-10-17 10:47:43	2018-10-17 10:47:44	15.00 CNY	0.00 CNY
12 Animals	COMPLETED	2018-10-17 10:47:40	2018-10-17 10:47:41	15.00 CNY	0.00 CNY
12 Animals	COMPLETED	2018-10-17 10:47:30	2018-10-17 10:47:32	15.00 CNY	0.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:37:14	2018-09-27 10:37:15	5.00 CNY	14.50 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:37:05	2018-09-27 10:37:06	5.00 CNY	7.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:37:00	2018-09-27 10:37:01	5.00 CNY	0.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:36:50	2018-09-27 10:36:51	5.00 CNY	62.50 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:36:45	2018-09-27 10:36:46	5.00 CNY	0.00 CNY
Jaguar Temple	COMPLETED	2018-09-27 10:36:13	2018-09-27 10:36:15	5.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:42	2018-09-20 12:11:43	224.00 CNY	430.08 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:37	2018-09-20 12:11:38	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:33	2018-09-20 12:11:33	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:28	2018-09-20 12:11:29	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:19	2018-09-20 12:11:19	224.00 CNY	0.00 CNY
Heads&Tails	COMPLETED	2018-09-20 12:11:13	2018-09-20 12:11:14	224.00 CNY	430.08 CNY

Displaying 37 of 37 items

The player can also view the game result. 玩家也能查阅游戏结果

< Game History

Details

Round ID	5be3af5a0383ca0001cf5d77
Game	Lotto Lucky
Status	COMPLETED
Total Bet	9.00 CNY
Total Payout	0.00 CNY
Initiated Date	2018-11-08 11:36:58
Completed Date	2018-11-08 11:36:58

Game Result ⧉
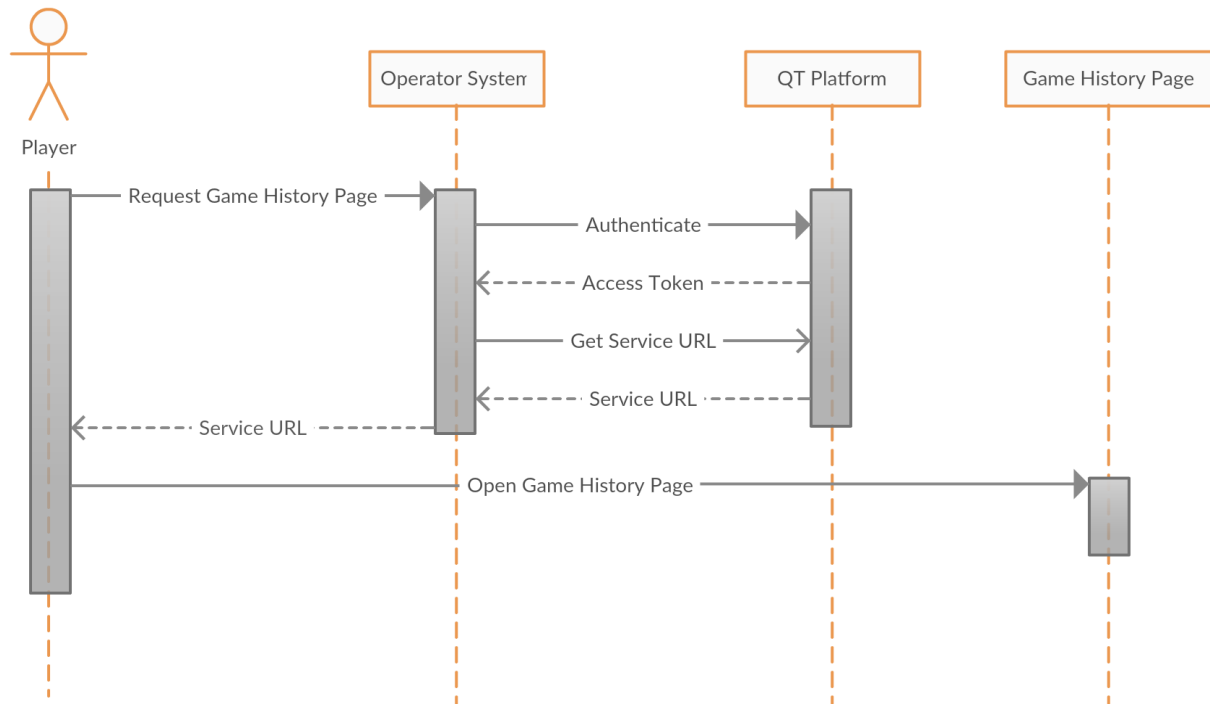
The sequence to retrieve the page url is similar to the game-launch-url sequence. The returned page URL is unique per player and should be used to redirect the player to the game history page.检索页面的 URL 的顺序是类似 game-launch-url 的序列。返回的页面 URL 是每个玩家独一无二的，应该用来重新定向玩家游戏的历史页面。

6.1 Request *请求*

Request URL 请求链接

https://{url-to-qtplatform}/v1/players/{playerId}/service-url

HTTP Method HTTP 方法

POST

Header Parameters 头参数

Name	Description	Required	Type	Sample
Content-Type	The content type of the request. It must be "application/json". 该请求的内容类型, 它必须是"application/ json 的"。	Yes	String	application/json
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Path Parameters 路径参数

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in the Operator system. The maximum length is 34 characters. 在运营商系统中玩家唯一的标识符。最大长度为 34 个字.	Yes	String	ktorres

Payload Parameters 载荷参数

Name	Description	Required	Type	Sample
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY
country	The country of the player's residence, as a 2-letter code according to ISO 3166-1 alpha-2. 玩家的居住地根据 ISO 3166-1 alpha-2 的国家，一个 2 个字母的代码。	Yes	String	CN
gender	The gender of the player. **M** for male or **F** for female. 玩家的性别，M 是男性或者 F 是女性。	No	String	M
birthDate	The birthdate of the player, expressed as YYYY-MM-DD.玩家的生日，表示为 YYYY-MM-DD。	No	String	1986-01-01
lang	The preferred language of the page, a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example zh_CN. 页面的首选语言，两个字母的语言代码的组合（ISO 639-1）和 2 个字母的国家代码（ISO 3166-1alpha-2）。例如 zh_CN。	No	String	zh_CN
timeZone	The time zone of the player. 玩家的时区。	No	String	Asia/Shanghai

Example Request - Success

```
POST https://api-int.qtplatform.com/v1/players/ktorres/service-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
  "currency":"CNY",
  "country":"CN",
  "gender":"M",
  "birthDate":"1986-01-01",
  "lang":"zh_CN",
  "timeZone":"Asia/Shanghai"
}
```

6.2 Response 响应

HTTP Status Code HTTP 状态代码

200 OK

Response Parameters 参数反应

Name	Description	Type	Sample
url	The URL to game history page. 到游戏历史页面的链接。	String	https://ps-int.qtplatform.com/560e420c8e170730d660ff2f

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "url":"https://ps-int.qtplatform.com/560e420c8e170730d660ff2f"
}
```

6.3 Possible Errors *可能的错误*

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行，是由于无效 JSON 格式。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
   "code":"VALIDATION_ERROR",
   "message":"The request could not be processed due to validation error."
}
```

7   Game Lobby *游戏大厅*

The Game Lobby brings new possibilities for the players to enjoy their favourite games. The advanced filter and browse functionalities, personal recommendations and similarities like Spotify, Netflix and Amazon, gives the players an easy and familiar way to discover new games.

The Operator can integrate the game lobby on their existing site; in an iframe, a new tab or in a new window.

The sequence to retrieve the game lobby url is similar to the game-launch-url sequence. The returned page URL should be used to redirect the player to the game lobby page. The game lobby url can be retrieved for both demo (visitor) mode and real (signed in) mode.

游戏大厅给玩家带来全新方式来享受他们喜爱的游戏。与知名平台 Spotify, Netflix 和 Amazon 一样，高级筛选，浏览器功能，个人推荐和相似游戏等功能，让玩家能够用简单而熟悉的方式来发现新游戏。
提供商可以在现有的网站上，使用 iframe，新标签页或者新窗口来集成游戏大厅。

检索游戏大厅链接的序列与登录游戏的链接类似。返回的页面链接应该用于将玩家重定向到游戏大厅页面。游戏大厅链接需要能够被试玩（访问者）模式和真实（登录）模式检索到。

7.1   Request *请求*

Request URL

https://{url-to-qtplatform}/v1/games/lobby-url

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Payload Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in the Operator system. The maximum length is 34 characters. 在运营商系统中玩家唯一的标识符。最大长度为 34 个字.	Yes	String	test123
currency	The currency of the player wallet, as a 3-letter code according to ISO 4217. 玩家钱包的货币，是由 3 个字母的代码，根据 ISO4217 的货币。	Yes	String	CNY
country	The country of the player's residence, as a 2-letter code according to ISO 3166-1 alpha-2. 玩家的居住地根据 ISO 3166-1 alpha-2 的国家，一个 2 个字母的代码。	Yes	String	CN
gender	The gender of the player. **M** for male or **F** for female. 玩家的性别，M 是男性或者 F 是女性。	No	String	M
birthDate	The birthdate of the player, expressed as YYYY-MM-DD.玩家的生日，表示为 YYYY-MM-DD。	No	String	1986-01-01
lang	The selected language of the lobby and games, a combination of the 2-letter language code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). For example zh_CN. 游戏大厅和游戏的语言设定必须为的 2 字母的语言代码(ISO639-1)和 2 个字母的国家代码(ISO3166-1α-2)的组合。例如	Yes	String	zh_CN

	"zh_CN"。			
mode	The selected mode of the game. Valid values are **demo** for "play for fun", or **real** to play with real money. 游戏已选择的模式。有效值为 demo 是"play for fun"，还是 real 玩真钱游戏。	Yes	String	real
device	Determines which device the game will be running on. Valid values are **desktop** or **mobile**. 确定游戏将在哪个设备上运行。 有效值为 **desktop** 或 **mobile**.	Yes	String	mobile
walletSessionId	The session id or token, which is connected to the player account in Operator system. The token will be used in all Common Wallet API calls to the Operator system. 会话的 ID 或者令牌，用于连接玩家在运营商系统中的账户。该令牌将用于运营商系统所有的中心钱包 API 调用。	Yes	String	7625187
gameTypes	Determines what game categories to be displayed in the main navigation menu. Valid values: SLOT_GAMES TABLE_GAMES INSTANT_WIN BINGO_GAMES SCRATCH_CARDS SHOOTING_GAMES VIRTUAL_SPORTS If not provided, all available game categories will be displayed. 决定主导航菜单中所显示的游戏类别。 有效值： SLOT_GAMES TABLE_GAMES INSTANT_WIN BINGO_GAMES SCRATCH_CARDS SHOOTING_GAMES VIRTUAL_SPORTS 如果不提供，则会显示所有可获得的游戏类别。	No	Array	["SLOT_GAMES", "TABLE_GAMES"]
betLimitCode	Determines the max bet amount for the player and game session. If not provided, the default max bet amount for the game is applied. Available codes and bet limits: 1: max 30 EUR (300 CNY) 2: max 60 EUR (600 CNY) 3: max 90 EUR (900 CNY) 4: max 120 EUR (1200 CNY) 5: max 240 EUR (2400 CNY) The supported games can be found in the game-list. 选定玩家和游戏会话的投注限额。 如果未提供，游戏会使用默认的投注限额。 有效的 ID 和投注限额： 1：最高 30 EUR（300 CNY） 2：最高 60 EUR（600 CNY） 3：最高 90 EUR（900 CNY） 4：最高 120 EUR（1200 CNY） 5：最高 240 EUR（2400 CNY） 回在游戏列表中找到支持的游戏。	No	String	1
jurisdiction	The jurisdictional information of the player. The "jurisdiction" is mandatory for players under UKGC or Danish license due reporting requirements. Jurisdiction code is two characters and valid codes are:	Yes/No	String	MT

| | MT - Malta Gambling Authority
UK - UK Gambling Commission
GG - Alderney Gambling Control Commission
DK - Denmark Gambling Authority
GI - Gibraltar
RO - Romania
SE - Swedish Gambling Authority
PH – Philippine Amusement and Gaming Corporation
(PAGCOR)
CW – Curacao eGaming License

玩家的管辖区域信息。根据报告要求，在 UKGC 或者丹麦许可证
下玩家的管辖区域是强制性的。管辖区域的代码是 2 个字母，有效
代码为：
MT - Malta Gambling Authority
UK - UK Gambling Commission
GG - Alderney Gambling Control Commission
DK - Denmark Gambling Authority
GI - Gibraltar
RO - Romania
SE - Swedish Gambling Authority
PH – Philippine Amusement and Gaming Corporation
(PAGCOR)
CW – Curacao eGaming License | | | |

Example Request (real mode)

```
POST https://api-int.qtplatform.com/v1/games/lobby-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
    "playerId":"123456",
    "currency":"CNY",
    "country":"CN",
    "gender":"M",
    "birthDate":"1986-01-01",
    "lang":"zh_CN",
    "mode":"real",
    "device":"desktop",
    "walletSessionId":"7625187"
}
```

Example Request (demo mode - play for fun)

```
POST https://api-int.qtplatform.com/v1/games/lobby-url
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
    "currency":"CNY",
    "lang":"zh_CN",
    "mode":"demo",
    "device":"desktop"
}
```

The playerId, country and the walletSessionId is **not** required in demo mode.
demo 模式中不需要 playerId，country 和 walletSessionId。

7.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
url	The game lobby URL, to be launched in an iframe, a new tab or in a new window. 游戏大厅的链接，能够在 iframe 新标签页或者新窗口登录。	String	https://d3w4ipqdohvjy.cloudfront.net/zh-CN/44f88da3-7fbc-4ab7-a569-fa6934b60300f

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
   "url":"https://d3w4ipqdohvjy.cloudfront.net/zh-CN/44f88da3-7fbc-4ab7-a569-fa6934b60300f"
}
```

7.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_FORMAT	400	If the request could not be processed due to invalid JSON format. 如果请求不能进行，是由于无效 JSON 格式。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
   "code":"VALIDATION_ERROR",
   "message":"The request could not be processed due to validation error."
}
```

8 Services 服务

This chapter describes the additional services from the QT Platform. Each endpoint requires a valid access token, as described in chapter 4. Authentication.

本章描述 QT 平台的附加服务。每个端点都需要一个有效的访问令牌,如 第 4 章认证 所述。

8.1 Game List 游戏列表

The Game List API gives the caller the possibility to retrieve all available games (and their current status) from the QT Platform. 游戏列表 API 为呼叫者提供从 QT 平台检索所有可用游戏（和它们的当前状态）的可能性。

8.1.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/games

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Example Request

```
GET https://api-int.qtplatform.com/v1/games
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

8.1.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of games in the result.游戏结果的总计数。	String	115
items	The items array contains the game objects.该项目数组包含了游戏中的对象。	Array	-
id	The game id, to be used when retrieving the launch url.的游戏 ID，检索启动 URL 时使用。	String	TK-froggrog
name	The game title, the *friendly* name.游戏名称，友好的名称	String	Frog Grog
provider	The game provider.游戏提供商	String	TK
category	The game category presented as a path (channel/type/model). For example CASINO/SLOT/5REEL.作为一个路径类游戏 (channel/type/model). 例如 CASINO/SLOT/5REEL.	String	CASINO/SLOT/5REEL
supportsDemo	Determines whether this game supports demo mode or not.确定这个游戏是否支持演示模式与否。	Boolean	true
languages	The supported languages, as a combination of the 2-letter language	Array	zh_CN, en_US

	code (ISO 639-1) and the 2-letter country code (ISO 3166-1 alpha-2). 所支持的语言，为 2 个字母的语言代码（ISO639-1）的组合和 2 个字母的国家代码"（ISO 3166-1α-2）。		
currencies	The supported currencies, as a 3-letter code according to ISO 4217. 支持的货币，如根据 ISO4217 的 3 字母代码	Array	CNY, THB
clientTypes	The supported game platforms, such as **FLASH** and **HTML5** 支持的游戏平台，比如 Flash 和 HTML5	Array	HTML5
supportedDevices	The supported devices, such as **DESKTOP**, **MOBILE** and **NATIVE**. 所支持的设备如 DESKTOP 或 MOBILE 或 NATIVE。	Array	DESKTOP, MOBILE
freeSpinDevices	The supported devices for freespin campaigns. Valid values are **DESKTOP**, **MOBILE** and **NATIVE**. 免费游戏所支持的设备。有效值为 DESKTOP，MOBILE 或 NATIVE。	Array	MOBILE

Example Response - Success

```
{
    "totalCount":115,
    "items": [
    {
        "id": "TK-froggrog",
        "name": "Frog Grog",
        "provider": "TK",
        "category": "CASINO/SLOT/5REEL",
        "supportsDemo": true,
        "languages": [
            "zh_CN","en_US"
        ],
        "currencies": [
            "CNY","THB","MYR"
        ],
        "clientTypes": [
            "FLASH","HTML5"
        ],
        "supportedDevices": [
            "DESKTOP","MOBILE"
        ],
        "freeSpinDevices": []
    },
    {
        "id": "TK-froggrog",
        "name": "Frog Grog",
        "provider": "TK",
        "category": "CASINO/SLOT/5REEL",
        "supportsDemo": true,
        "languages": [
            "zh_CN","en_US","ko_KR"
        ],
        "currencies": [
            "CNY","THB","MYR","KRW","JPY","INR"
        ],
        "clientTypes": [
            "FLASH","HTML5"
        ],
        "supportedDevices": [
            "DESKTOP","MOBILE"
        ],
        "freeSpinDevices": []
    },
    {
        ...
    }]
}
```

8.1.3 Possible Errors

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 401
Content-Type: application/json

{
   "code":"INVALID_TOKEN",
   "message":"Unauthorized."
}
```

8.2 Most Popular Games *热门游戏*

This endpoint gives the caller the possibility to retrieve the 50 most popular games, globally. The result is sorted by the most popular games first.
通过此端点能让用户检索到全球排名前 50 的热门游戏，检索结果根据游戏热度排列。

8.2.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/games/most-popular?currencies={currencies}&size={size}&page={page}

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Query Parameters

Name	Description	Required	Type	Sample
currencies	Gives the possibility to return the list of games that are supported by a certain currency. Can be set as a single currency or as a comma separated currency code list. If not provided, all games regardless of currency will be returned. 能够返回指定货币的游戏列表。可以设置为某一货币或者以逗号分隔多个货币代码，如果没有提供货币代码，所有游戏不论哪种货币将会被返回。	No	String	CNY,KRW
size	The desired number of records per page. Must not exceed 50. If not provided, 10 records/page will be used as default.每页记录所需的号码，如果没有提供，10 条/页将被用作默认不得超过 50。	No	Number	20
page	The page number. If not provided, it will return the first page (page=0).页码。如果没有提供，它会返回第一页（page=0）。	No	Number	3

Example Request

```
GET https://api-int.qtplatform.com/v1/games?currencies=CNY,JPY&size=20&page=0
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

8.2.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of games in the result.游戏结果的总计数。	String	50
items	The items array contains the games.该项目数组包含了游戏中的对象。	Array	-
id	The unique game id. 唯一的游戏 ID。	String	TK-froggrog

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links	If the number of items in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on. When the search-result has reached the last page, the links element will not be displayed anymore. 如果结果中的数量超过给定的或默认大小，搜索结果将分页。链接排列中的第一个元素将是下一页的链接，依此类推。 当搜索结果已经达到了最后一页，链接元素将不再显示。	Array	-
href	The relative url to the next page 该网址到下一页	String	/api/v1/most-popular? size=20&page=1 &currencies=CN Y,JPY
rel	The relation name of the link 链接的关系名	String	next
name	The friendly name of the link 链接的友好名称	String	Next
method	The http method to use for the link.HTTP 方法使用的链接。	String	GET

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
   "totalCount":50,
   "items": [
   {
      "id": "QS-dragonshrine"
   },
   {
      "id": "TK-froggrog"
   },
   {
      ...
   }],
   "links": [
   {
     "href": "/api/v1/most-popular?size=20&page=1&currencies=CNY,JPY",
     "method": "GET",
     "rel": "next",
     "name": "Next"
   }
  ]
}
```

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8.2.3 Possible Errors

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
VALIDATION_ERROR	422	Invalid query parameters. 无效的查询参数。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 401
Content-Type: application/json

{
  "code":"INVALID_TOKEN",
  "message":"Unauthorized."
}
```

8.3 Game Rounds *游戏局*

The Search API gives the caller the possibility to retrieve game round details between a given date and time range.搜索 API 可以使呼叫者检索给定日期和时间范围之间的游戏回合细节。

To be able to handle big search result, the search-result supports pagination, which will split the grand total result into smaller chunks (pages).
为了能够处理大搜索结果，搜索结果支持分页，这将拆分总计结果成小块（页）。

8.3.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/game-rounds?
playerId={playerId}&status={status}&rangeFilter={rangeFilter}&from={fromDateTime}&to={toDateTime}&size={size}&page={page}

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以"亚洲/上海"（CST）作默认。	No	String	Asia/Shanghai

Query Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in Operator system. If not provided, the result will contain game rounds from all players. 玩家在运营商系统中的 id 是唯一的，如果没有提供，结果会包括所有玩家的游戏局。	No	String	test123
status	Filters the result by game round status. Valid statuses are **COMPLETED**, **PENDING** or **FAILED**. If not provided, the result will contain game rounds with all statuses. 通过游戏局状态过滤结果，有效的状态是 **COMPLETED**, **PENDING** 或者 **FAILED**。如果没有提供，结果会包含游戏局的所有状态。	No	String	COMPLETED
rangeFilter	Determines whether the from and to parameters in the query should be based on the initiated or completed date. Valid values are **INITIATED** or **COMPLETED**. If not provided, the search will be based on the initiated date. 决定查询游戏局时是基于起始时间和完成时间的参数。有效值为 INITIATED 或 COMPLETED。如果没有提供，则默认为起始时间。	No	String	COMPLETED
from	The start date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的开始日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-22T20:34:56
to	The end date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss"搜索的截至日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-23T00:00:00
size	The desired number of records per page. Must not exceed 1000. If not provided, 500 records/page will be used as default.每页记录所需的号码，如果没有提供，500 条/页将被用作	No	Number	100

	默认不得超过 1000。			
page	The page number. If not provided, it will return the first page (0).页码。如果没有提供，它会返回第一页（0）。	Yes/No	Number	3

Example Request

```
GET https://api-int.qtplatform.com/v1/game-rounds?playerId=daniel&status=COMPLETED&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&size=100&page=0
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

8.3.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of game rounds in the result. 在游戏结果中总的游戏局数。	Number	113
items	The items array contains the game round objects. 该项目数组包含了游戏局的对象。	Array	-
id	The game transaction id 游戏交易 id	String	56498d238e1707b38e03b9af
status	The game round status, such as **PENDING, COMPLETED** or **FAILED.** 游戏局的状态比如 PENDING 或 COMPLETED 或 FAILED。	String	COMPLETED
totalBet	The total bet amount for this game round. 该游戏局的总投注。	String	25.00
totalPayout	The total payout amount for this game round. 该游戏局的总派彩。	String	0.00
totalBonusBet	The total bonus bet amount. 总奖金投注金额	String	0.00
currency	The 3-letter currency code.3 个字母的货币代码	String	CNY
initiated	The date and time when the game round was created, expressed as "YYYY-MM-DDThh:mm:ss". 游戏局创建的日期和时间，表示为"YYYY-MM-DDThh:mm:ss"。	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
completed	The date and time when the game round was completed, expressed as "YYYY-MM-DDThh:mm:ss". 游戏局完成的日期和时间，表示为为 "YYYY-MM-DDThh:mm:ss"。	String	2015-10-22T20:35:00.536+08:00[Asia/Shanghai]
playerId	The unique identifier of the player in Operator system.运营商系统中玩家账号是唯一的。	String	daniel
operatorId	The unique identifier of the operator in QT Platform.	String	keyops
device	The player's device, such as **MOBILE** or **DESKTOP** 该玩家的设备，例如 **MOBILE** or **DESKTOP**	String	MOBILE
gameProvider	The identifier of the game provider.游戏提供者的标识符。	String	TK
gameId	The identifier of the game.游戏的标示符。	String	TK-froggrog
gameCategory	The game-category presented as a path (channel/type/model), for example "CASINO/SLOT/5REEL" 游戏类作为一个路径（channel/type/model），例如 "CASINO/SLOT/5REEL"	String	CASINO/SLOT/5REEL

gameClientType	The game client platform, such as **FLASH** or **HTML5** 游戏客户端平台，比如 Flash 或 HTML5	String	HTML5
bonusType	The bonus type, such as **FREE_ROUND** or **FEATURE_TRIGGER**. 奖金类型，如 **FREE_ROUND** 或 **FEATURE_TRIGGER**	String	FREE_ROUND
links	If the number of items in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on. When the search-result has reached the last page, the links element will not be displayed anymore. 如果结果中的数量超过给定的或默认大小，搜索结果将分页。链接排列中的第一个元素将是下一页的链接，依此类推。 当搜索结果已经达到了最后一页，链接元素将不再显示。	Array	-
href	The relative url to the next page 该网址到下一页	String	/api/v1/game-rounds?size=100&from=2016-01-01T00%3A00&to=2016-01-25T00%3A00&page=1&playerId=daniel
rel	The relation name of the link 链接的关系名	String	next
name	The friendly name of the link 链接的友好名称	String	Next
method	The http method to use for the link.HTTP 方法使用的链接。	String	GET

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "totalCount": 1437,
  "items": [
    {
      "id": "568a420c46e0fb00015c0329",
      "status": "COMPLETED",
      "totalBet": "45.00",
      "totalPayout": "720.00",
      "currency": "CNY",
      "initiated": "2016-01-04T17:57:32.929+08:00[Asia/Shanghai]",
      "completed": "2016-01-04T17:57:33.790+08:00[Asia/Shanghai]",
      "operatorId": "keyops",
      "playerId": "daniel",
      "device": "desktop",
      "gameProvider": "TK",
      "gameId": "TK-froggrog",
      "gameCategory": "CASINO/SLOT/5REEL",
      "gameClientType": "HTML5"
    },
    {
      ...
    }
  ],
  "links": [
    {
      "href": "/api/v1/game-rounds?size=100&from=2016-01-01T00%3A00%3A00&to=2016-01-25T00%3A00%3A00&page=1&playerId=daniel",
      "method": "GET",
      "rel": "next",
      "name": "Next"
    }
  ]
}
```

8.3.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
   "code":"VALIDATION_ERROR",
   "message":"The request could not be processed due to validation error."
}
```

8.4 Game Round Details *游戏局细节*

This endpoint retrieves more details of a certain game round, including the actual game result.
该端点可以检索特定游戏局的更多细节，包括实际的游戏结果

8.4.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/game-rounds/{roundId}

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以"亚洲/上海"（CST）作默认。	No	String	Asia/Shanghai

Path Parameters

Name	Description	Required	Type	Sample
roundId	The round id, as identified by the QT Platform. 游戏局 ID，由 QT 平台提供	Yes	String	568a420c46e0fb 00015c0329

Example Request

```
GET https://api-int.qtplatform.com/v1/game-rounds/568a420c46e0fb00015c0329
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

8.4.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
id	The game round id 游戏交易 id	String	56498d238e170 7b38e03b9af
status	The game round status, such as **PENDING, COMPLETED** or **FAILED.** 游戏局状态，如 **PENDING, COMPLETED** 或者 **FAILED**	String	COMPLETED
totalBet	The total bet amount for this game round. 该游戏局的总投注额	String	25.00
totalPayout	The total payout amount for this game round. 该游戏局的总出款额	String	0.00
totalBonusBet	The total bonus bet amount. 总奖金投注金额	String	0.00
currency	The 3-letter currency code.3 个字母的货币代码	String	CNY
initiated	The date and time when the game round was created, expressed as "YYYY-MM-DDThh:mm:ss". 本游戏局的创建日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	String	2015-10-22T20:34:59.70 3+08:00[Asia/S hanghai]
completed	The date and time when the game round was completed, expressed as "YYYY-MM-DDThh:mm:ss". 本游戏局的完成日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	String	2015-10-22T20:35:00.53 6+08:00[Asia/S hanghai]
playerId	The unique identifier of the player in Operator system.运营商系统中玩家账号是唯一的。	String	daniel
operatorId	The unique identifier of the operator in QT Platform. 运营商在 QT 平台中的唯一标识符	String	keyops
device	The player's device, such as **MOBILE** or **DESKTOP** 该玩家的设备，例如 **MOBILE** or **DESKTOP**	String	MOBILE
gameProvider	The identifier of the game provider.游戏提供者的标识符。	String	TK
bonusType	The bonus type, such as **FREE_ROUND** or **FEATURE_TRIGGER**. 奖金类型，如 **FREE_ROUND** 或 **FEATURE_TRIGGER**	String	FREE_ROUND
gameId	The identifier of the game. 游戏的标识符。	String	TK-froggrog
gameCategory	The game-category presented as a path (channel/type/model), for example "CASINO/SLOT/5REEL" 游戏类作为一个路径（channel/type/model），例如 "CASINO/SLOT/5REEL"	String	CASINO/SLOT/5 REEL
gameClientType	The game client platform, such as **FLASH** or **HTML5** 游戏客户端平台，比如 Flash 或 HTML5	String	HTML5
gameClientRoundId	The round id given in the bet history within the game client. 在游戏客户端投注历史中给出的游戏局 ID。	String	3465351
gameResultUrl	The absolute url to the result page, as displayed in the game client. 结果页面的绝对网址，如游戏客户端所显示的。	String	https://...
gameTransactions	The wallet transactions within the game. The transaction type can be BET (withdrawal), PAYOUT (deposit) or ROLLBACK (deposit). 游戏中的钱包交易。 交易类型可以是 BET（提款），PAYOUT（存款）或 ROLLBACK（存款）。	Array	

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
  "id": "568a420c46e0fb00015c0329",
  "status": "COMPLETED",
  "totalBet": "45.00",
  "totalPayout": "720.00",
  "currency": "CNY",
  "initiated": "2017-04-03T15:47:48.462+08:00[Asia/Shanghai]",
  "completed": "2017-04-03T15:47:55.270+08:00[Asia/Shanghai]",
  "operatorId": "keyops",
  "playerId": "daniel",
  "device": "desktop",
  "gameProvider": "TK",
  "gameId": "TK-froggrog",
  "gameCategory": "CASINO/SLOT/5REEL",
  "gameClientType": "HTML5",
  "gameClientRoundId": "3465351",
  "gameResultUrl": "https://...",
  "gameTransactions": [
    {
      "type": "BET",
      "created": "2017-04-03T15:47:48.462+08:00[Asia/Shanghai]",
      "amount": "8.00",
      "id": "58e1fe246bf1180001766439",
      "status": "COMPLETED"
    },
    {
      "type": "PAYOUT",
      "created": "2017-04-03T15:47:55.270+08:00[Asia/Shanghai]",
      "amount": "16.00",
      "id": "58e1fe2b8542ff0001922ae2",
      "status": "COMPLETED"
    }
  ]
}
```

8.4.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	The round with given id could not be found. 没有找到给定 ID 的游戏局
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 404
Content-Type: application/json

{
   "code":"NOT_FOUND",
   "message":"The round with given id could not be found."
}
```

8.5 Game Transactions *游戏交易*

The Search API gives the caller the possibility to find game transactions from a certain player between a specified date and time range. It's possible to perform a search on a specific player, but also to perform a search on all players.
搜索 API 为呼叫者提供找到某个玩家在指定的日期和时间范围内的游戏交易。
它们既可以执行对一个特定玩家的搜索，也可以执行对所有玩家的搜索。

To be able to handle big search result, the search-result supports pagination, which will split the grand total result into smaller chunks (pages).
为了能够处理大搜索结果，搜索结果支持分页，这将拆分总计结果成小块（页）。

8.5.1 Request *请求*

Request URL

https://{url-to-qtplatform}/v1/game-transactions?
playerId={playerId}&from={fromDateTime}&to={toDateTime}&size={size}&page={page}

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以"亚洲/上海"（CST）作默认。	No	String	Asia/Shanghai

Query Parameters

Name	Description	Required	Type	Sample
playerId	The unique identifier of the player in Operator system. If not provided, the result will contain game transactions from all players. 玩家在运营商系统的唯一标识符。如果没有提供，查询结果将包含来自所有玩家的游戏交易。	No	String	test123
from	The start date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的开始日期和时间，表示为 "YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-22T20:34:56
to	The end date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss"搜索的截至日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-23T00:00:00
size	The desired number of records per page. Must not exceed 1000. If not provided, 500 records/page will be used as default.每页记录所需的号码，如果没有提供，500 条/页将被用作默认不得超过 1000。	No	Number	100
page	The page number. If not provided, it will return the first page (0).页码。如果没有提供，它会返回第一页（0）。	Yes/No	Number	3

Example Request

```
GET https://api-int.qtplatform.com/v1/transactions?playerId=1234&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&size=100&page=0
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

8.5.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of game transactions in the result.游戏交易结果的总计数。	Number	113
items	The items array contains the game transaction objects.该项目数组包含游戏中的交易对象。	Array	-
id	The game transaction id 游戏交易 id	String	56498d238e1707b38e03b9af
type	The game transaction type, such as **BET**, **PAYOUT**, **ROLLBACK** 游戏交易类型，例如 **BET**, **PAYOUT**, **ROLLBACK**	String	BET
amount	The transaction amount 交易量	String	25.00
balance	The balance after the transaction was performed.进行该交易后的余额。	String	4678.00
currency	The 3-letter currency code.3 个字母的货币代码	String	CNY
created	The created date and time of the transaction, expressed as "YYYY-MM-DDThh:mm:ss". 本次交易的创建日期和时间，表示为 "YYYY-MM-DDThh：mm：ss"。	String	2015-10-22T20:34:59.703+08:00[Asia/Shanghai]
playerId	The unique identifier of the player in Operator system.运营商系统中玩家账号是唯一的。	String	1234
playerDevice	The player's device, such as **MOBILE** or **DESKTOP** 该玩家的设备，例如 **MOBILE** or **DESKTOP**	String	MOBILE
playerGameRoundId	The identifier of the player game round (or hand)玩家的游戏局（或手）的标识符	String	5649921c8e1707b399665538
gameProvider	The identifier of the game provider.游戏提供者的标识符。	String	TK
gameId	The identifier of the game.游戏的标示符。	String	TK-froggrog
gameCategory	The game-category presented as a path (channel/type/model), for example "CASINO/SLOT/5REEL" 游戏类作为一个路径（channel/type/model），例如 "CASINO/SLOT/5REEL"	String	CASINO/SLOT/5REEL
gameClientType	The game client platform, such as **FLASH** or **HTML5** 游戏客户端平台，比如 Flash 或 HTML5	String	HTML5
links	If the number of transactions in the result exceeds the given or default size, the search-result will be paginated. The first element in the links array will be the link to the next page and so on. When the search-result has reached the last page, the links element will not be displayed anymore. 如果结果中的数量超过给定的或默认大小，搜索结果将分页。链接排列中的第一个元素将是下一页的链接，依此类推。 当搜索结果已经达到了最后一页，链接元素将不再显示。	Array	-
href	The relative url to the next page 该网址到下一页	String	/api/v1/game-transactions?playerId=1234&from=2015-10-22T20:34:56&to=2015-10-

			23T00:00:00&size=100&page=1
rel	The relation name of the link 链接的关系名	String	next
name	The friendly name of the link 链接的友好名称	String	Next
method	The http method to use for the link.HTTP 方法使用的链接。	String	GET

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
    "totalCount":113,
    "items": [
    {
        "id": "56498d238e1707b38e03b9af",
        "type": "BET",
        "amount": 25.00,
        "balance": 4678.00,
        "currency": "CNY",
        "created": "2015-10-22T20:34:58.303+08:00[Asia/Shanghai]",
        "playerId":"1234",
        "playerDevice": "MOBILE",
        "playerGameRoundId":"5649921c8e1707b399665538",
        "gameProvider": "TK",
        "gameId": "TK-froggrog",
        "gameCategory": "CASINO/SLOT/5REEL",
        "gameClientType": "HTML5"
    },
    {
        "id": "564993098e1707b39b79ed2a",
        "type": "PAYOUT",
        "amount": 10.00,
        "balance": 4688.00,
        "currency": "CNY",
        "created": "2015-10-22T20:34:59.703+08:00[Asia/Shanghai]",
        "playerId":"1234",
        "playerDevice": "MOBILE",
        "playerGameRoundId":"5649921c8e1707b399665538",
        "gameProvider": "TK",
        "gameId": "TK-froggrog",
        "gameCategory": "CASINO/SLOT/5REEL",
        "gameClientType": "HTML5"
    },
    {
        ...
    }]
    "links": [
    {
        "href": "/api/v1/game-transactions?playerId=1234&from=2015-10-22T20:34:56&to=2015-10-23T00:00:00&size=100&page=1",
        "rel": "next",
        "name": "Next",
        "method": "GET"
    }]
}
```

8.5.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
   "code":"VALIDATION_ERROR",
   "message":"The request could not be processed due to validation error."
}
```

8.6 NGR per player *每个玩家的*NGR

The NGR report API gives the client the possibility to retrieve NGR reports per player within a given date and time range. The result can include all players, a summary (grand total) of all the players or both within the given date and time interval. The players are initially sorted upon the highest total bet.
API 中的 NGR 报表可以检索每位玩家在一个特定的日期和时间范围内信息数据。检索结果包括所有玩家信息及汇总数据，或是在给定日期和时间范围内的玩家信息及汇总。检索结果按照玩家最高总投注额顺序排序。

8.6.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/ngr-player?from={fromDateTime}&to={toDateTime}&embed={embed}

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the search. If not provided, the "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以"亚洲/上海"（CST）作默认。	No	String	Asia/Shanghai

Query Parameters

Name	Description	Required	Type	Sample
from	The start date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss" 搜索的开始日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	Yes	String	2015-10-22T00:00:00
to	The end date and time of the search, expressed as "YYYY-MM-DDThh:mm:ss"搜索的截至日期和时间，表示为"YYYY-MM-DDThh:mm:ss"	No	String	2015-10-23T00:00:00
embed	Determines what information should be included in the result. Valid values is **items** and/or **summary**. The default value is **items**. If the value is **items**, the result will contain all players. If the value is **summary**, the result will contain just the summary. If the value is **items,summary**, the result will contain both players and summary. 确定什么样的信息应包含在结果中。有效值是项目和/或摘要。默认值是项目。 如果该值是一个项目，结果将包含所有玩家。 如果该值是摘要，结果将只包含的摘要。 如果该值是一个项目，摘要，结果将包含玩家和摘要。	No	String	items,summary

Example Request

```
GET https://api-int.qtplatform.com/v1/ngr-player?from=2015-10-22T00:00:00&to=2015-10-
23T00:00:00&embed=items,summary
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Accept: application/json
```

8.6.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
totalCount	The grand total number of items (players) in the result. 在结果中的项目（玩家）总计数。	Number	12
requestedFor	The operator of the requested report。所要求的报告的运营商。	String	QT
requestedBy	The username of the caller, who requested the report. 发起呼叫的 用户名，来请求这个报告。	String	jenny
from	The start date and time of the report。报告开始的日期和时间。	String	2015-08-02T16:00:00
to	The end date and time of the report。报告结束的日期和时间。	String	2015-11-02T16:00:00
summary	The summary contains information about the grand total numbers of all items (players) in the result. 摘要包含总计数的所有项目（玩家）的结果信息	Object	-
totalGames	The grand total unique played games 总计唯一玩的游戏	Number	23
totalRounds	The grand total played rounds 总计玩的局数	Number	354
totalBet	The grand total bet amount 总计投注金额	String	35985.60
totalPayout	The grand total payout 总计出款额	String	24059.60
totalNGR	The grand total NGR 总计 NGR	String	11926.00
currency	The 3 letter currency code 3 个字母的货币代码	String	CNY
items	The items array contains the player objects.该项目数组包含了玩家的对象。	Array	-
playerId	The unique identifier of the player in Operator system.运营商系统中玩家账号是唯一的。	String	daniel
operatorId	The unique identifier of the operator within QT platform 运营商在 QT 平台拥有唯一的 id。	String	keyops
operatorName	The friendly name of the operator.运营商的一个友好的名字。	String	KeyOps
totalGames	The total unique played game 总共唯一玩过的游戏。	Number	5
totalRounds	The total played rounds 总共玩过的游戏局。	Number	43
totalBet	The total bet amount 总投注	String	600.00
totalPayout	The total payout amount 总出款	String	20.00
totalNGR	The total NGR amount 总 NGR 值	String	580.00
currency	The 3 letter currency code 3 个字母的货币代码	String	CNY

Example Response - Success

```
HTTP Status: 200
Content-Type: application/json

{
    "totalCount":12,
    "requestedFor":"QT",
    "requestedBy":"jenny",
    "from":"2015-08-02T16:00:00",
    "to":"2015-11-02T16:00:00",
    "summary": {
        "totalGames":23,
        "totalRounds":354,
        "totalBet":"35985.60",
        "totalPayout":"24059.60",
        "totalNGR":"11926.00",
        "currency":"CNY"
    },
    "items": [ {
        "playerId": "daniel",
        "operatorId": "keyops",
        "operatorName": "KeyOps",
        "totalGames":5,
        "totalRounds":43,
        "totalBet": "600.00",
        "totalPayout": "20.00",
        "totalNGR": "580.00",
        "currency": "CNY"
    },
    {
        "playerId": "tim",
        "operatorId": "keyops",
        "operatorName": "KeyOps",
        "totalGames":1,
        "totalRounds":56,
        "totalBet": "340.00",
        "totalPayout": "1045.00",
        "totalNGR": "-705.00",
        "currency": "CNY"
    },
    {
        ...
    } ]
}
```

8.6.3 Possible Errors 可能的错误

Code	HTTP Status	Description
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
   "code":"VALIDATION_ERROR",
   "message":"The request could not be processed due to validation error."
}
```

8.7 Create Free Round Promotion 创建免费游戏局

The Create Free Round Promotion method gives the operator the possibility to give players bonus money to be spent on a certain game, so called gift spins. It is also possible to give player the flexibility to choose the number and value of rounds from a fixed list of options, all adding up to same total value (bonus money).

If a player has been promoted with free rounds for a certain game, a dialog will be displayed upon game launch, displaying the different round options. The player has the possibility to play the free rounds directly (ACTIVATE NOW), play the free rounds another time (USE LATER) or reject the promotion (NO THANKS).

创建免费游戏局让运营商提供玩家奖金使用于某款游戏中，即赠送免费旋转。 玩家可以从指定的选项中选择局数和每局的投注数值，每个选项的局数投注价值相等于总数值(奖金)。

如果玩家在特定游戏中获得免费游戏局，将在游戏启动时显示一个对话框，显示不同的局数选项。 玩家可以选择直接使用免费游戏局（立即激活），稍后再使用免费游戏局（稍后再使用）或拒绝免费游戏局（拒绝）。
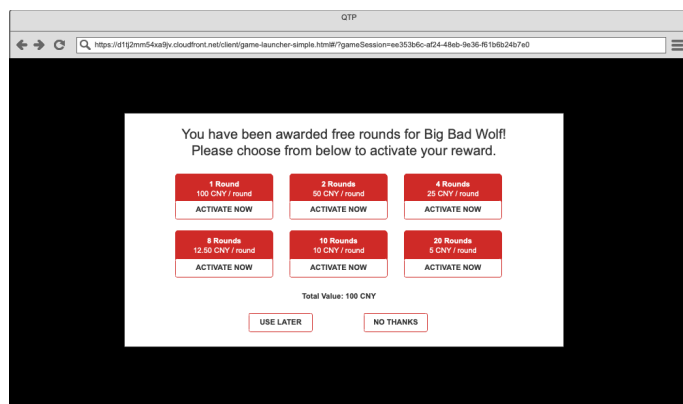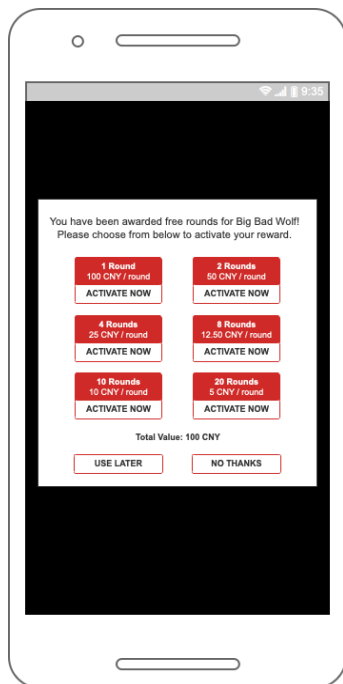
8.7.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/bonus/free-rounds

HTTP Method

POST

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Payload Parameters 载荷参数

Name	Description	Required	Type	Sample
txnId	The id of the request for idempotent purpose. This id must	Yes	String	acfe23cfe4f2

	be unique for each promotion and must never be reused. Valid characters are alphanumeric (lower or upper case), underscore "_" and dash "-". 为幂等目的而请求的 ID。每个免费游戏局的 ID 都必须是唯一的,不得重复使用。			
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	Yes	String	45465
gameId	The unique identifier of the game, provided by QT. 由 QT 提供的游戏唯一的标识符。	Yes	String	QS-goldlab
totalBetValue	The total value of the promotion. 免费游戏局总数值。	Yes	Decimal	100.00
roundOptions	A list of numbers of rounds offered to player. Dividing totalBetValue by any count on list must lead to a legal bet amount for the given game without remainder. Maximum of 9 round options. If not provided, the system will autogenerate round options for the player, up to maximum of 20 rounds per option or maximum of 9 round options. 提供给玩家免费局数量的列表。totalBetValue 除以列表内的游戏局数，所得的单局游戏投注额须为一个合法的投注，即相除之后没有余数。如果游戏局数选项大于 2，玩家在启动游戏时会显示给定的免费局选项。游戏局的选项最多为 9 个。 如果没有提供，系统会为玩家自动生成游戏局选项，每个选项最多 20 局或者最多 9 个选项。	No	Array	1,2,4,8
currency	The currency of the free round promotion. This must match the player currency. 免费游戏局的货币必须与玩家货币相匹配。	Yes	String	CNY
promoCode	The optional promotion code for tracking purposes. Valid characters are alphanumeric (lower or upper case), underscore "_" and dash "-". 用于追踪免费游戏局的活动代码。	No	String	ABC
validityDays	The number of days the promotion is valid after it has been claimed by the player. Must be a value between 1 and 7. If not provided, the default is 7 days. 玩家认领免费游戏局后的有效天数。如果没有提供，默认是 7 天。	No	Number	7

Example Request (with roundOptions)

```
POST https://api-int.qtplatform.com/v1/bonus/free-rounds
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
  "txnId": "acfe23cfe4f2",
  "playerId": "45465",
  "gameId": "QS-goldlab",
  "totalBetValue": 100.00,
  "roundOptions":[ 1, 2, 4, 8 ],
  "currency": "CNY",
  "promoCode": "ABC",
  "validityDays": 7
}
```

Example Request (without roundOptions)

```
POST https://api-int.qtplatform.com/v1/bonus/free-rounds
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Content-Type: application/json

{
  "txnId": "acfe23cfe4f2",
  "playerId": "45465",
  "gameId": "QS-goldlab",
  "totalBetValue": 100.00,
  "currency": "CNY",
  "promoCode": "ABC",
  "validityDays": 7
}
```

8.7.2 Response 响应

HTTP Status Code

201 Created

Response Parameters

Name	Description	Type	Sample
txnId	The same identifier as in the request. 与请求中的标识符相同。	String	acfe23cfe4f2
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	String	keyops-acfe23cfe4f2

Example Response - Success

```
HTTP Status: 201
Content-Type: application/json
Location: https://api-int.qtplatform.com/v1/bonus/free-rounds/keyops-acfe23cfe4f2/players/45465

{
   "txnId":"acfe23cfe4f2",
   "bonusId":"keyops-acfe23cfe4f2"
}
```

8.7.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
ACCOUNT_LOCKED	403	The user or operator is locked. 用户或运营商被锁定。
BONUS_ALREADY_EXISTS	409	A free round promotion with given txnId already exists. 给定的 txnId 的免费局活动已存在。
VALIDATION_ERROR	422	This error is raised if one of the fields within the request are missing or is invalid. 如果请求中的字段中的一个丢失或无效此引发错误。
BET_VALUE_NOT_FOUND	422	The combination total bet value and one of the number of rounds is not possible for the given game. 总投注数值和所选的游戏局数在指定的游戏中不匹配。
GAME_NOT_AVAILABLE	422	The game is temporarily not available. 游戏暂时不可用。
GAME_NOT_FOUND	422	The game with the given id was not found. 未找到给定 id 的游戏。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误
QT_NOT_AVAILABLE	503	QT Platform is not available. Temporary down, under maintenance etc. QT 平台不可用。临时关闭，正在维护等。

Example Response - Error

```
HTTP Status: 422
Content-Type: application/json

{
  "code":"VALIDATION_ERROR",
  "message":"The request could not be processed due to validation error."
}
```

8.8 Get Free Round Promotion *获取免费游戏局*

The Get Free Round Promotion method gives the operator the ability to retrieve the details and latest status of a free round promotion for specific player.

A Free Round Promotion can be in one of the following states:

获取免费游戏局让运营商能够检索指定玩家的免费游戏局的详细信息和最新状态。

免费游戏局可以处于以下的状态：

Status	Description
PROMOTED	The operator has assigned the free round to the player. 运营商已将免费游戏局分配给玩家。
CLAIMED	The player has activated the promotion by launching the game and selecting a specific round option. 玩家通过选择特定的局数选项接受免费游戏局。
IN_PROGRESS	The player has started to play the free rounds, ie at least one free round has been completed. 玩家已开始使用免费游戏局，并至少完成一轮免费局。
COMPLETED	The player has completed all the free rounds in the promotion. 玩家已完成免费游戏局的所有局数。
DELETED	The promotion was deleted by the operator. 运营商删除免费游戏局。
CANCELLED	The promotion was rejected by the player. 玩家拒绝免费游戏局。
FAILED	The creation of the promotion failed on the game server. 创建免费游戏局失败。

The status of a Free Round Promotion can have the following transitions:

免费游戏局的状态可以包含以下内容：

PROMOTED ➜ CLAIMED ➜ IN_PROGRESS ➜ COMPLETED

PROMOTED ➜ CLAIMED ➜ FAILED ➜ PROMOTED

PROMOTED ➜ DELETED

PROMOTED ➜ CANCELLED

8.8.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/bonus/free-rounds/{bonusId}/players/{playerId}

HTTP Method

GET

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone	The preferred timezone of the request. If not provided, time zone "Asia/Shanghai" (CST) will be used as default. 搜索的首选时区。如果没有提供，将以"亚洲/上海"（CST）作默认。	No	String	Asia/Shanghai

Path Parameters

Name	Description	Required	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	Yes	String	keyops-acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	Yes	String	45465

Example Request

```
GET https://api-int.qtplatform.com/v1/bonus/free-rounds/keyops-acfe23cfe4f2/players/45465
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
Time-Zone: Asia/Shanghai
```

8.8.2 Response 响应

HTTP Status Code

200 OK

Response Parameters

Name	Description	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	String	keyops-acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	String	45465
gameIds	The list of games in which this free round is playable. 支持免费游戏局的列表。	Array	QS-goldlab,ELK-djwild
totalBetValue	The total value of the promotion. 免费游戏局总数值。	Decimal	100.00
totalPayout	The total payout of the promotion. 免费游戏局总出款。	Decimal	50.00
roundOptions	The list of numbers of rounds offered to player. Each number in the list is equal to totalBetValue divided by legal bet amount for the given game without remainder. Maximum of 9 round options. 提供给玩家的免费游戏局数量，列表中的每个数字等于 totalBetValue 除以给定游戏的合法投注金额，且没有余额。 最多选项为 9 局。	Array	1,2,4,8
currency	The currency of the free round promotion. It matches the player currency. 免费游戏局的货币与玩家货币相匹配。	String	CNY
promoCode	The optional promotion code for tracking purposes. 用于追踪免费游戏局的活动代码。	String	ABC
status	The status of the free round promotion. The other response parameters returned depend on the status of the free round promotion. The value of this parameter can either be PROMOTED, CLAIMED, IN_PROGRESS, COMPLETED, DELETED, CANCELLED or FAILED. 免费游戏局的状态。返回的响应参数取决于游戏局的状态。此参数的值可以是 PROMOTED□CLAIMED□IN_PROGRESS□COMPLETED□DELETED，CANCELLED 或 FAILED。	String	CLAIMED
validityDays	The number of days the promotion is valid after it has been claimed by the player. 玩家认领免费游戏局后的有效天数。	Number	7

promotedDateTime	The date and time when the promotion was given to the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 提供给玩家免费游戏局的日期和时间，格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T16:44:41.087+08:00[Asia/Shanghai]
claimedDateTime	The date and time when the promotion was claimed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家认领免费游戏局的日期和时间。 格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T16:52:41.087+08:00[Asia/Shanghai]
failedDateTime	The date and time when a promotion operation failed due to error. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 免费游戏局因错误导致失败的日期和时间。 格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:52:41.087+08:00[Asia/Shanghai]
completedDateTime	The date and time when all free rounds in the promotion was completed by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家已经完成免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成,方括号时区与请求头参数时区一致。	String	2019-03-14T17:45:41.087+08:00[Asia/Shanghai]
cancelledDateTime	The date and time when the promotion was rejected by the player. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 玩家拒绝免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成，方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
deletedDateTime	The date and time when the promotion was deleted by the operator. Format is comprised of ISO-8601 compatible date time format followed by the time zone equal to Time-Zone request header, in square brackets. 运营商删除玩家免费游戏局的日期和时间。格式由 ISO-8601 兼容日期时间格式组成,方括号时区与请求头参数时区一致。	String	2019-03-14T17:11:41.087+08:00[Asia/Shanghai]
claimedRoundOption	The selected round option of the player. 玩家选择游戏局数的选项。	Number	1
claimedGameId	The unique identifier of the game, provided by QT, in which the player activated (claimed) the promotion. 当玩家认领免费游戏局后，由 QT 提供的游戏唯一的标识符。	String	QS-goldlab

Example Response – Success with status PROMOTED

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-a",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"PROMOTED",
  "validityDays":7,
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Response – Success with status CLAIMED

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-b",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"CLAIMED",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Response – Success with status IN_PROGRESS

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-b",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"IN_PROGRESS",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Response – Success with status COMPLETED

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-d",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "totalPayout": 50.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"COMPLETED",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "claimedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "completedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Response – Success with status DELETED

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-e",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"DELETED",
  "validityDays":7,
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "deletedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Response – Success with status CANCELLED

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-e",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"CANCELLED",
  "validityDays":7,
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "cancelledDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

Example Response – Success with status FAILED

```
HTTP Status: 200
Content-Type: application/json

{
  "bonusId": "bonus-c",
  "playerId":"45465",
  "gameIds": ["QS-goldlab"],
  "totalBetValue":100.00,
  "roundOptions":[1,2,4,8],
  "currency":"CNY",
  "promoCode":"ABC",
  "status":"FAILED",
  "validityDays":7,
  "claimedRoundOption":1,
  "claimedGameId":"QS-goldlab",
  "promotedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]",
  "failedDateTime":"2019-01-01T00:00:00+08:00[Asia/Shanghai]"
}
```

8.8.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	Promotion not found. 未找到免费游戏局。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 404
Content-Type: application/json

{
  "code":"NOT_FOUND",
  "message":"Promotion not found."
}
```

8.9 Delete a Free Round Promotion *删除免费游戏局*

The Delete Free Round Promotion method gives the operator the possibility to delete a free round promotion for specific player.

删除免费游戏局可以让运营商删除特定玩家的免费游戏局。

> **NOTE!** It is only possible to delete promotion with status PROMOTED, ie a promotion that has not been claimed, cancelled, failed or deleted.
>
> 注意！只能删除状态为 PROMOTED 的免费游戏局，即为未认领，取消，失败或删除的免费游戏局。

8.9.1 Request 请求

Request URL

https://{url-to-qtplatform}/v1/bonus/free-rounds/{bonusId}/players/{playerId}

HTTP Method

DELETE

Header Parameters

Name	Description	Required	Type	Sample
Authorization	The valid access token.有效的访问令牌。	Yes	String	Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92

Path Parameters

Name	Description	Required	Type	Sample
bonusId	The unique identifier of the promotion. 免费游戏局的唯一标识符。	Yes	String	keyops-acfe23cfe4f2
playerId	The unique player identifier in the operator system. 在运营商系统中玩家唯一的标识符。	Yes	String	45465

Example Request

```
DELETE https://api-int.qtplatform.com/v1/bonus/free-rounds/keyops-acfe23cfe4f2/players/45465
Authorization: Bearer 76236f90-dc9c-36d7-9e78-3e716d5ecf92
```

8.9.2 Response 响应

HTTP Status Code

204 No Content

8.9.3 Possible Errors 可能的错误

Code	HTTP Status	Description
INVALID_TOKEN	401	Missing, invalid or expired access token. 缺失，无效或过期的访问令牌。
NOT_FOUND	404	Promotion not found. 未找到免费游戏局。
STATUS_CONFLICT	409	Promotion already claimed, cancelled, failed or completed. 免费游戏局已被认领，取消，失效或完成。
UNKNOWN_ERROR	500	Unexpected error. 意外的错误

Example Response - Error

```
HTTP Status: 409
Content-Type: application/json

{
   "code":"STATUS_CONFLICT",
   "message":"Promotion is already claimed."
}
```