

Fundist API OneWallet v133(wr)

Fundist

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Table of Contents

Contents	4
Change History.....	5
1. Introduction to One Wallet	8
2. One Wallet Protocol Implementation Test	9
3. One Wallet Callback URL Prerequisites.....	10
4. Holistic Picture.....	11
5. Message Authentication	12
6. Number Format for amount and balance Fields.....	16
7. Message Types.....	17
7.1 Ping.....	17
7.2 Get Balance	18
7.3 Debit from user account.....	19
7.4 Credit to user account.....	23
7.5. Rollback handling	27
7.6 Round Info	33
7.7 Win in the promotion	36
8. Response to Callback Request	38
8.1 Successful response	38
8.2. Error response.....	38
9. Test Scenarios	40

Connecting to Fundist.org¹ API – One Wallet

¹ <http://Fundist.org>

Contents

Change History

1.00	10 Feb 2014	First official version of Fundist One Wallet protocol
1.01	28 Feb 2014	Clarified usage of {extra_field} in successful response. Added "tid" and "balance" as mandatory response fields for debit and credit.
1.02	27 Mar 2014	Added information-only "i_gameid" and "i_rollback" fields to debit and credit. Updated introduction section with paragraph on transaction rollbacks.
1.03	01 Apr 2014	Added information-only "i_extparam" field to debit and credit.
1.04	03 Apr 2014	Added information-only "i_extparam" field also to balance request
1.05	06 Apr 2014	Added information-only "i_gamedesc" field to credit, debit and balance requests
1.06	03 May 2014	Added Holistic Picture
1.07	15 Jul 2014	Added clarification for error checking of requests with duplicated TID. Added hmac field in response examples Added type of ID fields description.
1.08	26 Nov 2014	Added "roundinfo" request from Lazy Mode spec.
1.09	07 Jan 2016	Added "i_actionid" field to debit and credit.
1.10	1 Sept 2016	Documentation improved. SDK added.

1.11	4 Oct 2017	Subtype of request is added for transaction cancellation cases. SDK temporaly excluded from the documentation.
1.12	17 Oct 2017	Mandatory prerequisites for one wallet callback URL. Minor erratum corrections.
1.13	13 Nov 2017	A note added regarding fields, being included for hash generation. Short description added to an "Error response" section for case when player has lower balance, than amount on debit callback request. Added code samples for hmac generation on PHP and Java.
1.14	12 Jul 2018	Rollback handling section is introduced.
1.15	21 Jun 2019	Added request and response examples, successful OW test example and test utility usage manual, CSharp hmac example, zero credit and jacpotwin notes, game_extra description, HTTP code for success response. Updated i_gameid, i_actionid and i_gamedesc descriptions.
1.16	11 Feb 2020	Description for HMAC generation for roundinfo callback has been introduced.
1.17	03 Mar 2020	Additional requirements for callback endpoint are introduced.
1.18	06 Jul 2020	Added example for generating Hmac in Nodejs.
1.19	08 Sep 2020	"round_ended" parameter description is added.
1.20	25 Nov 2020	"round_start" parameter description is added.
1.21	15 Feb 2021	Verification process for debit and credit requests extended by i_gameid, i_actionid parameters description.
1.22	18 Feb 2021	Short description: "balance field must contain current value" is updated for debit and credit requests.

1.23	22 Mar 2021	"i_reference_actionid" parameter description is added.
1.24	14 May 2021	Added promotion win parameter.
1.25	07 Jul 2021	Added additional checking note related to the verification process debit and credit requests. The Rollback Handling description is extended with i_gameid, i_actionid parameters.
1.26	31 Mar 2022	Parameter "tid" in OW test is now sent as longint.
1.27	16 Aug 2022	8.2. Error response paragraph is updated: parameter "balance" is added as a mandatory to response JSON message
1.28	3 May 2023	Changes in game_extra description, subtypes debit and credit are added
1.29	28 Dec 2023	Added information about boolean type parameter in 5. Message Authentication
1.30	23 Apr 2024	i_flag parameter is added to 7.4 Credit to user account
1.31	25 Apr 2024	action_details optional parameter is added to 7.3 Debit from user account and 7.4 Credit to user account
1.32	09 May 2025	New test scenario added with debit call, when debit amount exceeds current balance
1.33	26 Nov 2025	bonus_buy optional parameter is added to 7.3 Debit from user account

1. Introduction to One Wallet

In One Wallet implementation, there is a single wallet on Client's system side. Fundist.ORG system performs real-time requests to credit and debit a single user's account in Client's system. Fundist.ORG performs requests to Client's system through HTTPS as JSON-encoded object in POST data.

There is no concept of transaction rollback on protocol level. Instead, a standard credit request is sent to revert previous debit operation. Such special credit requests can be identified by presence of "i_rollback" field, which holds "tid" of related debit.

Note: Client's system must never depend on i_exparam for validation of OneWallet requests

Response is expected as JSON-encoded object in HTTP response message body. Note: UTF-8 encoding is assumed, if non-ASCII symbols are used.

For optimal performance, please configure HTTPS Keep-Alive of 120 seconds and enable SSL session caching.

2. One Wallet Protocol Implementation Test

In order to check if OW protocol implementation is correct there we provide OWClientTest, which you have received together with the test API setup details. When implementation for OW callback service is ready, please provide 2 user account IDs with currencies for our tests - this is a mandatory check point before going live. Please note you can also run the test on your side:

Make sure that you have installed Java on your PC

Please rename OWClientTest_vN.M.safext before usage to OWClientTest_vN.M.jar. You can also use any name for JAR, please use this name when you are going to run test util on command line. Hereinafter we use OWClientTest_v2.14.jar name for JAR file.

Launch example:

```
export OWTEST_READ_TIMEOUT=2000 (for Windows: set OWTEST_READ_TIMEOUT=2000, then
run it)
java -jar OWClientTest_v2.14.jar --host <CALLBACK_URL> --secret <HMAC_SECRET> --
users <USER_ID1>=<USER1_CURRENCY>[=EXTPARAM1]
<USER_ID2>=<USER2_CURRENCY>[=EXTPARAM2] ...
```

By running OWClientTest without params, you can get list of parameters that might be provided for.

```
$> java -jar ./OWClientTest_v2.14.jar
Missing required options: h, s, u
usage: OWClientTest
-g,--gamedesc <arg> Value for i_gamedesc
-ge,--game-extra <arg> Value for game_extra field
-h,--host <arg> Callback service URL
-m,--multiplier <arg> Multiplier for base amounts
-s,--secret <arg> HMAC secret
-scc,--skip-credit-cancel Option skips credit cancellation test case
-u,--users <arg> List of user account in format UserID=Currency[=ExtParam]
-ua,--user-agent <arg> Custom user agent
-z,--zero-credit Option enables callback with zero credit, that means lost bet
```

3. One Wallet Callback URL Prerequisites

To avoid any kind of traffic blocking because of prescriptions from the government authorities on both Fundist.ORG or Client's hosting providers sides, callback service should be a separate instance from the main casino website, including domain, IP and SSL certificate.

Example

Main casino website has domain www.superluckycasino.com² with IP address 112.34.78.90.

Recommended callback service settings:

- separate domain, like callback.route56services.com³, that is completely different from the casino domain,
- different IP address like 112.34.78.103,
- valid SSL certificate for callback service domain. Let's Encrypt free SSL certificate is allowed for use for callback service setup.

Optional points for better risk diversification:

- different domain registrars for main casino domain and callback service domain,
- different SSL certificate authorities for main casino and callback service certificates.

Client's callback endpoint should respond to HTTP calls with the following types: GET/HEAD/POST. GET/HEAD types are used for initial setup and monitoring. POST is used to send actual JSON callback messages.

In case endpoint is not available (domain has been expired, SSL certificate has been expired, etc) - it will be removed from configuration with notification over email and optionally over other communication channel agreed in advance.

HTTPS protocol (HTTP with SSL certificate) is allowed only when domain name is used with valid SSL certificate.

² <http://www.superluckycasino.com>

³ <http://callback.route56services.com>

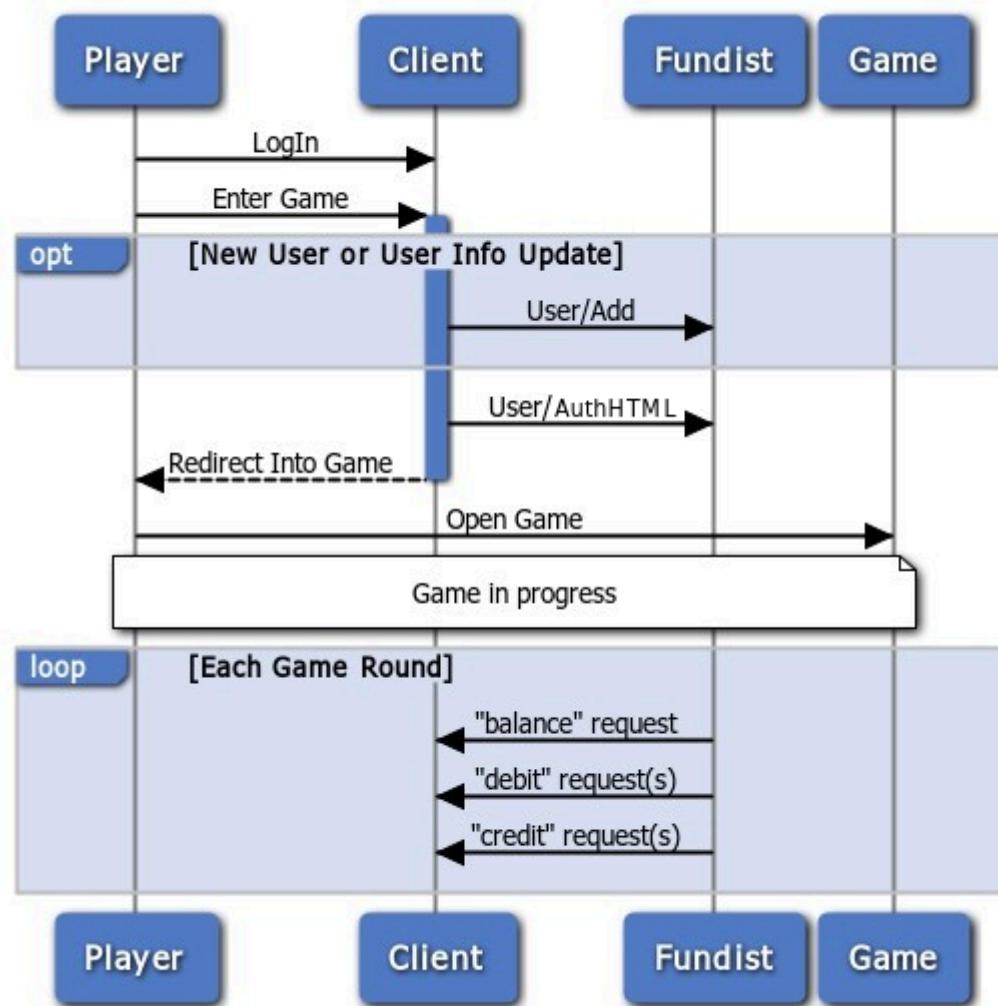
4. Holistic Picture

Player – user's web browser

Client – client system with own website

Fundist – eGamings financial system, hidden from Player

Game – one of game product implementations, visible to Player



5. Message Authentication

Every message (request and response) should have a special field “**hmac**”, which value is generated using HMAC1 with SHA-256 algorithm. HMAC input is generated as:

1. Sort message fields in case-sensitive ascending order.
2. Concatenate value of all fields into single string. In case value is not of plain type, but is an array (like "actions" for callback with type "roundinfo") - all subsequent JSON objects in array (int the same order as they are on JSON message) should be sorted by key, and values for each object concatenated recursively.
3. In hmac calculation all boolean values are formatted by our system as string: true ="1" and false = "". Parameter types are still boolean. Please note it in hmac validation for debit and credit requests.
4. Run HMAC with SHA-256 using secret key shared between Client's and Fundist.ORG system

Note: *Client's system must explicitly whitelist all Fundist.ORG IP addresses. All other IPs must be rejected. Please contact eGamings support for actual list of outgoing IP addresses.*

Example

```
{
  "bbb" : "Val1",
  "aaa" : "Val2",
  "hmac" : "...."
}

hmac = HMAC_SHA256("Val2Val1", SHA256("ASCII_Shared_Secret"))
```

Example with actions

```
{
  "bbb" : "Val1",
  "aaa" : "Val2",
  "actions": [
    {
      "timestamp":"tmstmp1",
      "actid":"ctd1",
      "type":"tp1",
      "i_actionid":"ctnd1",
      "amount": "mnt1",
    },
    {
      "timestamp":"tmstmp2",
    }
  ]
}
```

```

        "actid": "ctd2",
        "type": "tp2",
        "i_actionid": "ctnd2",
        "amount": "mnt2",
    }
],
" hmac" : "...."
}

hmac = HMAC_SHA256("Val2ctd1mnt1ctnd1tmstmp1tp1ctd2mnt2ctnd2tmstmp2tp2Val1",
SHA256("ASCII_Shared_Secret"))

```

Important Notes on *hmac* Field

Hashed value of HMAC secret should be returned in binary format, and not textual.

In order to keep protocol message extension safe, we recommend NOT TO make field list fixed, so in case new fields are introduced, they are also included in generated hmac value.

The folowing HMAC secret key value is used for all examples below: iexoocaquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Code Samples for *hmac* Field Generation

Example in PHP

```

<?php
...
$hmac_key = hash("sha256", $hmac_secret, true);
ksort($message);
unset($message['hmac']);

if (array_key_exists('actions', $message)) {
    $actions = $message['actions'];
    $action_value = array();

    foreach($actions as &$a) {
        ksort($a);
        $action_value[] = implode('', array_values($a));
    }

    unset($a);
    $message['actions'] = implode('', $action_value);
}

$hmac_base = implode('', array_values($message));
$hmac = hash_hmac('sha256', $hmac_base, $hmac_key);
...
?>

```

Example in Java

```

...
final private synchronized String genHmac( String hmacSecret, JsonObject m ) throws E
xception
{
    SortedMap< String, JsonValue > kv = new TreeMap< String, JsonValue >();
    kv.putAll(m);
    final private Charset utf8_charset = Charset.forName( "UTF8" );

    // setup HMAC
    MessageDigest md = MessageDigest.getInstance( "SHA256" );
    md.update( hmacSecret.getBytes( utf8_charset ) );
    SecretKeySpec key = new SecretKeySpec( md.digest(), "HmacSHA256" );

    final private Mac mac_;
    mac_ = Mac.getInstance( "HmacSHA256" );
    mac_.init( key );

    // To make thread safe
    final Mac mac = mac_;

    for ( Map.Entry< String, JsonValue > v: kv.entrySet() )
    {
        if ( v.getKey().equals("hmac") ) continue;
        mac.update( v.getValue().toString().getBytes( utf8_charset ) );
    }

    return DatatypeConverter.printHexBinary( mac.doFinal() ).toLowerCase();
}
...

```

Example in CSharp

```

...
private static String genHmac(String secret_key, Dictionary<string, dynamic> message)
{
    SHA256 hash = new SHA256Managed();
    Byte[] hash_secret = hash.ComputeHash(Encoding.UTF8.GetBytes(secret_key));

    SortedDictionary<string, dynamic> sorted_message = new SortedDictionary<string,
dynamic>(message);

    String value = "";
    foreach (KeyValuePair<string, dynamic> kvp in sorted_message) {
        if (kvp.Key.Equals("hmac")) continue;
        value += kvp.Value;
    }
}
```

```

}

HMAC hmac = new HMACSHA256(hash_secret);
byte[] hmac_byte = hmac.ComputeHash(Encoding.UTF8.GetBytes(value));
String hmac_value = "";

foreach (Byte b in hmac_byte) {
    hmac_value = String.Concat(hmac_value, b.ToString("x2"));
}

return hmac_value.ToLower();
}
...

```

Example in Nodejs

```

...
const crypto = require('crypto');

const base = Object.assign({}, requestBody);

delete base.hmac;

if ('actions' in base) {
    let actions = '';
    for (const action of base.actions) {
        Object.keys(action).sort().forEach(key => actions += action[key]);
    }

    base.actions = actions;
}

const hash = crypto.createHash('sha256');
const hmac = crypto.createHmac('sha256', hash.update(secretKey).digest('buffer'));

let hmacBase = '';
Object.keys(base).sort().forEach(key => hmacBase += base[key]);

const hmacString = hmac.update(hmacBase).digest('hex');
...

```

6. Number Format for *amount* and *balance* Fields.

Field values for amount and balance, must always have 2 digits after decimal point and at least one digit in integer part. Decimal point sign must always be a period ("."). No other symbols are allowed. JSON field type - string.

Examples:

"0.00"

"0.01"

"1.00"

"2.19"

7. Message Types

7.1 Ping

This request is used to check Client's system availability.

Request params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (ping)	M
hmac	String	Hash generated from request params	M

Response params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
hmac	String	Hash generated from response params	M

Example:

Note: HMAC secret used in below example -
iexoocquaenogoob7xoosaingefoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Example
<p>Request:</p> <pre>{ "type": "ping",</pre>

```

    "hmac": "855c54693a59a28a1039328ac5a12e9bcfab9f906fc935313e3a76db6376c56"
}
Response:
{
  "status": "OK",
  "hmac": "e969bada202f1735fedd074a5b1097e48080ef22d83fcbe74d86b0ceaa91bb63"
}

```

7.2 Get Balance

Retrieve current available balance of specific user in Client's system.

Note: Fundist.ORG uses this information is only for in-game display and basic bet amount check.

Request params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (balance)	M
userid	String	User/AuthHTML Login parameter	M
currency	String	User/Add Currency parameter	M
i_extparam	String	External parameter, passed to User/AuthHTML	M
i_gamedesc	String	{SystemID}:{GameType}	M
game_extra	String	Additional game information, like PageCode for Evolution	O
hmac	String	Hash generated from request params	M

Response params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
balance	String	User balance in decimal format	M
hmac	String	Hash generated from response params	M

Example:

Note: HMAC secret used in below example -
iexoocaquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Example**Request:**

```
{
  "type": "balance",
  "userid": "qauser_151238785931919_EUR",
  "currency": "EUR",
  "i_gamedesc": "998:roulette",
  "i_extparam": "TestExtParam123",
  "hmac": "173a74d4a43142426e05171465ef61668adeb14b1f9767e071296f3db994a299"
}
```

Response:

```
{
  "status": "OK",
  "balance": "2.87",
  "hmac": "f2c90ef1954552707f160bd954e04b597cd22f6f60d61c3841ab9e272a9d4968"
}
```

Response must contain extra "balance" field.

7.3 Debit from user account

Request params:

Note: Parameter "tid" sent as **Integer** in JSON by default. In case you would like TID to be sent as **String** in test and production environments, please inform integration team and they will add necessary setting to your project's API.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	Response status (debit)	M
tid	Integer/String	Unique Transaction ID (can never be duplicated) – alphanumeric maxlen 32	M
userid	String	User/AuthHTML Login parameter	M
currency	String	User/Add Currency parameter	M
amount	String	Amount that will be debited from user account	M
i_gameid	String	Game round ID. Can be used to identify related transactions (credit+debit) – alphanumeric maxlen 32, there could be: several bets и several wins could be in one round (with one game_id) of live games, no bets just win could be if it's a freespins, freeround or promo	M
i_expparam	String	External parameter, passed to User/AuthHTML	M
i_gamedesc	String	{SystemID}:{GameType} – alphanumeric maxlen 64	M
i_actionid	String	Game event reference ID (bet, win), technically can be duplicated among providers	M
round_start*	Boolean	Sent with first transaction of the round	O
round_ended*	Boolean	Marks that the round has ended	O

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
game_extra	String	Additional game information, like PageCode for Evolution	O
subtype	String	Used for transaction cancellation cases with "cancel" value or for specific games enter with "debit" value	O
hmac	String	Hash generated from request params	M
action_details*	String	Additional roundinfo information (bet/win round details, sidebets etc.)	O
bonus_buy	Boolean	Sent only as "true" for bonus_buy bets (does not come if the feature is disabled for the client)	O

*Overrides sending zero credits for losing bet. The param is disabled by default. For enabling contact Integration Team.

Response params:

Note: In response, parameter "**tid**" must be always sent as **String** in JSON.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
tid	String	Original request tid	M
balance	String	User balance	M
hmac	String	Hash generated from response params	M

Example:

Note: HMAC secret used in below example -
iexoocquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Example

Request:

```
{
  "type": "debit",
  "userid": "qauser_151238785931919_EUR",
  "currency": "EUR",
  "tid": "1tid1566565638671",
  "amount": "2.87",
  "i_gameid": "1gm1566565638671",
  "i_gamedesc": "998:roulette",
  "i_actionid": "D11566565638920",
  "i_extparam": "TestExtParam123",
  "hmac": "3630609dad8806547985b6a88f49c0ed11101e064ac29c712e33a19f31da1d89"
}
```

Response:

```
{
  "status": "OK",
  "tid": "1tid1566565638671",
  "balance": "0.00",
  "hmac": "ad807d9e05ed238279766f33ec847b20e166fefae5e08d1237100f426bfc40d0"
}
```

1. Client's system must check, if request with the same "`tid`" has been performed before:
 - a. if any of essential fields ("`type`", "`tid`", "`userid`", "`currency`", "`amount`") mismatch:
return error "Transaction parameter mismatch"
 - b. if yes and response is known, return original response.
Note: "`balance`" field must contain current value, balance should not be debited by this transaction.
 - c. if yes and response is NOT known, fail with HTTP error "408 Request Timeout"
 - d. otherwise, continue
2. Client's system must check, if request with the same "`i_gameid`" and '`i_actionid`' has been performed before:

- a. if any of essential fields ("userid", "currency", "amount") mismatch:
return error "Transaction parameter mismatch"
Note: type field can be different for requests with "subtype": "cancel"
 - b. if yes and response is known, return original response.
Note: "balance" field must contain current value, balance should not be debited by this transaction.
 - c. if yes and response is NOT known, fail with HTTP error "408 Request Timeout"
 - d. otherwise, continue
3. Check if currency matches user balance currency
 - a. Respond with error, if not
 4. Perform in single DB transaction:
 - a. Check if user balance is greater or equal to requested amount
 - b. If the check is passed, decrease user balance by requested amount
 - c. If the check is NOT passed, fail with error
 - d. Store request and response in DB
 - e. Commit DB transaction
 5. Send response message
 - a. Response must contain extra "tid" field of original request and current "balance" field.

Note: Client system must additionally check i_gameid and i_actionid parameters on rollback handling to avoid rollback for the whole round instead of a single event.

7.4 Credit to user account

Request params:

Note: Parameter "tid" sent as **Integer** in JSON by default. In case you would like TID to be sent as **String** in test and production environments, please inform integration team and they will add necessary setting to your project's API.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (credit)	M
tid	Integer/String	Unique Transaction ID – alphanumeric maxlen 32	M
userid	String	User/AuthHTML Login parameter	M
currency	String	User/Add Currency parameter	M

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
amount	String	Amount that will be credited to user account	M
i_gameid	String	Game round ID. Can be used to identify related transactions – alphanumeric maxlen 32, there could be: several bets, several wins, no bets just win in one round	M
i_extparam	String	External parameter, passed to User/AuthHTML	M
i_rollback	String	Can be used to link related debit request.	O
i_gamedesc	String	{SystemID}:{GameType} – alphanumeric maxlen 64	M
i_actionid	String	Action reference number	M
i_reference_actionid*	String	i_actionid of the initiating bet - action reference number for bonus credit transactions	O
game_extra	String	PageCode for Evo or FREEROUNDS_XXX (marks freeround win where XXX – TID of Freeround/Add transaction)	O
subtype	String	Used for transaction cancellation cases with "cancel" value or for specific games exit with "credit" value	O
round_start*	Boolean	Sent with first transaction of the round	O
round_ended*	Boolean	Marks that the round has ended	O

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
jackpot_win	Integer	Possible value 1 - in case particular credit is connected with jackpot win, credit request will have extra parameter	O
hmac	String	Hash generated from request params	M
i_flag*	String	Promo award flag (tournament win, some award etc.), sent without debit	O
action_details*	String	Additional roundinfo information (bet/win round details, sidebets etc.)	O

*The param is disabled by default. For enabling contact Integration Team.

Response params:

Note: In response, parameter "**tid**" must be always sent as **String** in JSON.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
tid	String	Original request tid	M
balance	String	User balance	M
hmac	String	Hash generated from response params	M

Example:

Note: HMAC secret used in below example -
iexoocaquaenogoob7xoosasingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Example

Request:

```
{
    "type": "credit",
    "userid": "qauser_151238785931919_EUR",
    "currency": "EUR",
    "tid": "1tid1566565638672",
    "amount": "3.00",
    "i_gameid": "1gm1566565638671",
    "i_gamedesc": "998:roulette",
    "i_actionid": "C11566565638920",
    "i_exparam": "TestExtParam123",
    "hmac": "66266a7c732b47f260087501a2e16327804d94ec0d7e15c36b812b26540298ef"
}
```

Response:

```
{
    "status": "OK",
    "tid": "1tid1566565638672",
    "balance": "3.00",
    "hmac": "834d81739bed3619df2abb958b0e918e712868b0792d38bd6db780a87a2b4947"
}
```

1. Client's system must check, if request with the same "`tid`" has been performed before:
 - a. if any of essential fields (`"type"`, `"tid"`, `"userid"`, `"currency"`, `"amount"`) mismatch:
return error "Transaction parameter mismatch"
 - b. if yes and response is known, return original response
Note: "`balance`" field must contain current value, balance should not be credited by this transaction.
 - c. if yes and response is NOT known, fail with HTTP error "408 Request Timeout"
 - d. otherwise, continue
2. Client's system must check, if request with the same "`i_gameid`" and '`i_actionid`' has been performed before:
 - a. if any of essential fields (`"userid"`, `"currency"`, `"amount"`) mismatch:
return error "Transaction parameter mismatch"
Note: type field can be different for requests with "`subtype": "cancel"`"

- b. if yes and response is known, return original response.
Note: "balance" field must contain current value, balance should not be credited by this transaction.
 - c. if yes and response is NOT known, fail with HTTP error "408 Request Timeout"
 - d. otherwise, continue
3. Check if **currency** matches user balance currency
 - a. Respond with error, if not
 4. Perform in single DB transaction:
 - a. Increase user balance by requested **amount**
 - b. Store request and response in DB
 - c. Commit DB transaction
 5. Send response message
 - a. Response must contain extra "tid" field of original request and current "balance" field.

Note: Client system must additionally check **i_gameid** and **i_actionid** parameters on rollback handling to avoid rollback for the whole round instead of a single event.

Optional feature: zero credit transactions can be turned on for your API, but please note that not all providers support this feature.

Optional feature: game_extra field is not sent by default, this could be enabled for your API.

7.5. Rollback handling

There are two types of rollback requests. Any rollback call should be performed for a single event related to the **i_gameid** and **i_actionid** parameters.

1. In case of slow responses, duplicate request might be sent for example for bet in a game. When duplicate request is identified, rollback call will be preformed. Type of such call is credit. JSON message will contain **i_rollback** field, that will contain a tid of transaction, that should be rolled back and according player balance changes should be made.

Example:

- debit call is sent with tid=124, that is being processed with timeout and/or proper response is not served.
- debit call is sent with tid=124 for the same bet, this time request is processed quickly, correct response is served.
- credit call will be sent with tid=125, and **i_rollback**=124.

Important. Rollback cancels a transaction with exact tid in **i_rollback** flag, not a round itself, thus, operator must not credit a player. Player should be credited only if amount of rollbacks = amount of transactions within one round.

Example:

- 3 debit calls are sent with tid=123, that are being processed with timeout and/or proper response is not served.

- 3 rollbacks are sent for these debit calls => player should be credited.

Request params:

Note: Parameter "tid" sent as **Integer** in JSON by default. In case you would like TID to be sent as **String** in test and production environments, please inform integration team and they will add necessary setting to your project's API.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (debit or credit)	M
tid	Integer/String	Unique Transaction ID – alphanumeric maxlen 32	M
userid	String	User/AuthHTML Login parameter	M
currency	String	User/Add Currency parameter	M
amount	String	Decimal number, 2 digits after decimal sign	M
i_gameid	String	Game round ID. Can be used to identify related transactions – alphanumeric maxlen 32	M
i_extparam	String	External parameter, passed to User/AuthHTML	M
i_rollback	String	Can be used to link related debit request	M
i_gamedesc	String	{SystemID}:{GameType}	M
i_actionid	String	Action reference number	M
hmac	String	Hash generated from request params	M

Response params:

Note: In response, parameter "**tid**" must be always sent as **String** in JSON.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
tid	String	Original request tid	M
balance	String	User balance	M
hmac	String	Hash generated from response params	M

Example:

Note: HMAC secret used in below example -
iexoocquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Example

```

Debit
Request:
{
    "type":"debit",
    "userid":"qauser_151238785931919_EUR",
    "currency":"EUR",
    "tid":"1tid1566565638688",
    "amount":"0.03",
    "i_gameid":"1gm1566565638674",
    "i_gamedesc":"998:roulette",
    "i_actionid":"D11566565645651",
    "i_extparam":"TestExtParam123",
    "hmac":"4321ddfd27f6d72cd2804834429a3111b4f7ad236d3f55aa4dce46f4fb215fa9"
}
Response:
{
    "status":"OK",
    "tid":"1tid1566565638688",
    "balance":"2.87",

```

```

    "hmac": "9b5a8a86996ceb3364c463d2abbb3c32958dd8e46f73a00a24a17f2523d152a0"
}

Credit with rollback
Request:
{
    "type": "credit",
    "userid": "qauser_151238787931919_EUR",
    "currency": "EUR",
    "tid": "2tid1566565638688",
    "amount": "0.03",
    "i_gameid": "1gm1566565638674",
    "i_gamedesc": "998:roulette",
    "i_actionid": "C21566565645651",
    "i_extparam": "TestExtParam123",
    "i_rollback": "1tid1566565638688",
    "hmac": "a63c659f6fdc710a0c17e391d5a8eca0ad975034ee2e5979057d42a02091dd99"
}
Response:
{
    "status": "OK",
    "balance": "2.90",
    "hmac": "d02d6aa4d6c0ee500c80186364de0393a4213775f7667359bcbed90794925433"
}

```

2. In case of slow responses game server might refuse bet settlement or winning for some reason and send cancellation request. Type of such request also might be debit or credit. JSON message will contain "subtype" field with value "cancel".

If rollback with subtype cancel is received - player should be credited.

Request example:

Note: Parameter "tid" sent as **Integer** in JSON by default. In case you would like TID to be sent as **String** in test and production environments, please inform integration team and they will add necessary setting to your project's API.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (debit or credit)	M
tid	Integer/String	Unique Transaction ID – alphanumeric maxlen 32	M
userid	String	User/AuthHTML Login parameter	M
currency	String	User/Add Currency parameter	M

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
amount	String	Decimal number, 2 digits after decimal sign	M
i_gameid	String	Game round ID. Can be used to identify related transactions – alphanumeric maxlen 32	M
i_extparam	String	External parameter, passed to User/AuthHTML	M
i_gamedesc	String	{SystemID}:{GameType}	M
i_actionid	String	Action reference number	M
subtype	String	Used for transaction cancellation cases with "cancel" value	M
hmac	String	Hash generated from request params	M

Response params:

Note: In response, parameter "**tid**" must be always sent as **String** in JSON.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
tid	String	Original request tid	M
balance	String	User balance	M
hmac	String	Hash generated from response params	M

Example:

Note: HMAC secret used in below example -
iexoocaquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Example

```

Debit
Request:
{
    "type":"debit",
    "userid":"qauser_151238785931919_EUR",
    "currency":"EUR",
    "tid":"1tid1566565638694",
    "amount":"0.25",
    "i_gameid":"1gm1566565638674",
    "i_gamedesc":"998:roulette",
    "i_actionid":"D11566565645654",
    "i_extparam":"TestExtParam123",
    "hmac":"6b48a65e7f0cba1991df002f852e4c75b70da1565254c8cbf3eddb993d7765b5"
}
Response:
{
    "status":"OK",
    "tid":"1tid1566565638694",
    "balance":"2.50",
    "hmac":"0ba3811977f974d8dd65187b9801a4f5b6f10c8ecbd6d54eda23d99e908af3c1"
}

Debit cancellation
Request:
{
    "type":"credit",
    "userid":"qauser_151238785931919_EUR",
    "currency":"EUR",
    "tid":"1tid1566565638695",
    "amount":"0.25",
    "i_gameid":"1gm1566565638674",
    "i_gamedesc":"998:roulette",
    "subtype":"cancel",
    "i_actionid":"D11566565645654",
    "i_extparam":"TestExtParam123",
    "hmac":"563c5e7aa25e35132f30d559671b1766d5a639b35eef4b2ecc854cbf73df97d9"
}
Response:
{
    "status":"OK",
    "tid":"1tid1566565638695",
    "balance":"2.75",
}
```

```

        "hmac": "7a9e9b42429df4400f2573517abf372efa843e6ecb7bb51fbc05919dd4db563f"
    }
}

```

7.6 Round Info

Provide real-time round information after round is over (game name, user, activity, ext_param). Useful for bonus & loyalty analytics.

This request is re-sent until Client system responds with successful reply.

Note: This is a configurable option for backward compatibility purposes.

Request params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (roundinfo)	M
gameid	String	Unique Game ID	M
userid	String	User/AuthHTML Login parameter	M
actions	Array	List of game actions	M
i_gamedesc	String	{SystemID}:{GameType}	M
hmac	String	Hash generated from request params	M

Actions params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
actid	String	Unique Action ID	M

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	Action type (bet or win)	M
amount	String	Action amount	M
timestamp	String	YYYYMMDD hh:mm:ss	M

Response params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
hmac	String	Hash generated from response params	M

Example for "type":"bet":

Note: HMAC secret used in below example -
iexoocquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

Request JSON message

Request:

```
{
  "type": "roundinfo",
  "gameid": "15963851167",
  "userid": "quser_151238785931919_EUR",
  "actions": [
    {
      "actid": "20445259420",
      "type": "bet",
      "amount": "10.00",
      "timestamp": "2019-09-04 14:06:26"
    }
  ]
}
```

```

        ],
        "i_gamedesc": "998:roulette",
        "hmac": "4dec9cd5a3f96cb83dff6104e841386d32e82b555de278c609ed1cfef0544be1"
    }
}
Response:
{
    "status": "OK",
    "hmac": "e969bada202f1735fedd074a5b1097e48080ef22d83fcbe74d86b0ceaa91bb63"
}

```

Example for "type": "win":

Note: HMAC secret used in below example -
f1qbgjhpys2nnld5x2dkuvh0o903sm9bcri801ds28qn1phqgp0ety357ylv06lx

Request JSON message

```

Request:
{
    "type": "roundinfo",
    "gameid": "143998497000",
    "userid": "sample_login",
    "actions": [
        {
            "actid": "186613617096",
            "type": "bet",
            "amount": "18.00",
            "timestamp": "2024-08-06 05:18:25",
            "i_actionid": "88144819923"
        },
        {
            "actid": "186613638500",
            "type": "win",
            "amount": "36.00",
            "timestamp": "2024-08-06 05:18:39",
            "i_actionid": "88144827797"
        }
    ],
    "i_gamedesc": "997:sample_game",
    "i_extparam": "sample_ext_param",
    "game_extra": "",
    "ext_gameid": "GGI_1119_1747366_M_460",
    "hmac": "6ef23d44f958f72439d6051164c8c38214d82c997052a4e90b2dfe6ae0b05e02"
}
Response:
{

```

```

    "status":"OK",
    "hmac":"f37b3cf411cfa609bc591a4000e2831deac5883e493be4149ed203969974d46e"
}

```

7.7 Win in the promotion

Note: This information is relevant in case you have promotion module enabled.

Provide real-time win result information after promotion ends.

This request is re-sent until Client system responds with successful reply.

Request params:

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
type	String	External action (credit)	M
tid	Integer/String	Unique Transaction ID – alphanumeric maxlen 32	M
userid	String	User/AuthHTML Login parameter	M
currency	String	User/Add Currency parameter	M
amount	String	Amount that will be credited to user account	M
subtype	String	External subtype (promotion)	M
i_bonusid	String	Promotion ID	M
i_bonusdesc	String	{SystemID}:{PromotionName}	M
hmac	String	Hash generated from request params	M

Response params:

Note: In response, parameter "**tid**" must be always sent as **String** in JSON.

Parameter name	Parameter type (JSON)	Description	Mandatory/Optional
status	String	Response status (OK)	M
tid	String	Original request tid	M
balance	String	User balance	M
hmac	String	Hash generated from response params	M

Example:

Request JSON message
<p>Request:</p> <pre>{ "subtype": "promotion", "i_bonusid": "2433", "i_bonusdesc": "2783: promo test", "type": "credit", "tid": "64010", "userid": "837", "currency": "EUR", "amount": "111.00", "hmac": "306d729637b9fc7aa57dd1cfbe88516f78b6609c87ea8005976bf3b15425eddf" }</pre>
<p>Response:</p> <pre>{ "status": "OK", "tid": "64010", "balance": "211.00", "hmac": "306d729637b9fc7aa57dd1cfbe88516f78b6609c87ea8005976bf3b15425eddf" }</pre>

8. Response to Callback Request

8.1 Successful response

Simple response

```
{
  "status": "OK"
  "hmac": "..."
}
```

Extended response

```
{
  "error": "<specific_error_code>",
  "balance": "...",
  "hmac": "..."
}
```

Note: Only HTTP code 200 is assumed as positive, for all other HTTP response codes, even with JSON message, that contains {"status": "OK", ...} backend assumes, that request has failed and no positive response is received.

8.2. Error response

Response JSON message

```
{
  "error": "<specific_error_code>",
  "balance": "...",
  "hmac": "..."
}
```

Several specific error codes could be passed into a game in reply to one wallet debit callback. Licensee endpoint should reply with JSON message {"error": "<specific_code>", "balance": "...", "hmac": ...} as described below.

Value for "error" field (<specific_code>)	Message, displayed for player
INSUFFICIENT_FUNDS	You do not have sufficient funds to place this bet.
SESSION_EXPIRED	There has been a problem with the Live Casino. User authentication failed or your session may be expired, please close the browser and try again.
TURNOVER_LIMIT_EXCEEDED	This bet amount would exceed your personal limit within the specified period of time.
SESSION_TIME_LIMIT_EXCEEDED	Your play time exceeds your personal limit of time that may be played in a session.
BET_LIMIT_EXCEEDED	This bet amount would exceed your personal limit within the specified period of time.
LOSS_LIMIT_EXCEEDED	This bet amount would exceed your personal limit within the specified period of time.

In other cases you can send any human readable description, for example "error":"<specific_error_code>|Human readable description". However in this case there is going to be some general error in game frame.

9. Test Scenarios

Note: In OW test, parameter "**tid**" will be sent as **longint**. If you would like parameter "**tid**" to be sent as **string**, please add additional parameter **--string-tid=y**

OWClientTest is performing standard test cases in 2 runs. All test cases are titled in square brackets. HMAC secret, used for these examples: iexooacaquaenogoob7xoosaingeofoh9ighoh4eevoshaiNaN2gahHieYaix7iem

```
===== RUN #1 =====
---- Request:ping ----
> Sent:{"type":"ping","hmac":"855c54693a59a28a1039328ac5a12e9bcfab9f906fc935313e3a76
db6376c56"}
> Recv:{"status":"OK","hmac":"e969bada202f1735fedd074a5b1097e48080ef22d83fcbe74d86b0c
eaa91bb63"}
> Time spent: 316ms

[ Preparing balance amount of 3.00 ]
---- Request:balance ----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:
roulette","i_extparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb78
2e5112e07293c22a3b8800b8dfa2"}
> Recv:{"status":"OK","balance":"0.00","hmac":"0bd08d27163259d9bdbe7f06f5453070813ad8
802f5d48659996241ea090d0db"}
> Time spent: 85ms
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"3.00","ti
d":11746800056666,"i_gameid":"1gm1746800056665","i_gamedesc":"998:roulette","i_action
id":"C11746800057115","i_extparam":"TestExtParam123","hmac":"8c1da73d69ba09e77cc8d083
18e610c63ece2f4c42eb842f6fa29e5b934590ad"}
> Recv:{"status":"OK","tid":11746800056666,"balance":"3.00","hmac":"985031dd4d39d3cc6
ce9d4cc5c17bc3fafda595610fa281aacf315b7d1ad35bb"}
> Time spent: 155ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:
roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8
a0cf8a743fcacf9f11d1c03b7d323"}
> Recv:{"status":"OK","balance":"0.00","hmac":"0bd08d27163259d9bdbe7f06f5453070813ad8
802f5d48659996241ea090d0db"}
> Time spent: 80ms
---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"3.00","ti
d":21746800056666,"i_gameid":"2gm1746800056665","i_gamedesc":"998:roulette","i_action
id":"C21746800057115","i_extparam":"TestExtParam123","hmac":"88c61088e86e0717b75569e6
2af9a3ea29b93355b8bd9ec3a739ee9c381e2d51"}
> Recv:{"status":"OK","tid":21746800056666,"balance":"3.00","hmac":"e7945b3651a8b4498
5a91f81706a8b52f007764272a92ea9aa34dfef89509eee"}
> Time spent: 158ms
```

```

----- Request:balance -----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:roulette","i_exparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2"}
> Recv:{"status":"OK","balance":"3.00","hmac":"109ac35e2dc899706c75e1e3647075588012e613c0ebd4af86b5841d58b7adc8"}
> Time spent: 80ms

----- Request:balance -----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:roulette","i_exparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0aa0cf8a743fcacf9f11d1c03b7d323"}
> Recv:{"status":"OK","balance":"3.00","hmac":"109ac35e2dc899706c75e1e3647075588012e613c0ebd4af86b5841d58b7adc8"}
> Time spent: 81ms

[ Debit 30.00 (balance x10), error excepted ]
----- Request:debit -----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"30.00","tid":11746800056667,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_action_id":"D11746800057116","i_exparam":"TestExtParam123","hmac":"616a001477a379e1e1615c901965afb7973e9aae67bd165bc97632c60b4dcfa84f"}
> Recv:{"error":"INSUFFICIENT_FUNDS","balance":"3.00","hmac":"0c93c01e36573104c0fd847941329082800106fad53baf7da775453d5c733000"}
> Time spent: 143ms

----- Request:debit -----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"30.00","tid":21746800056667,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_action_id":"D21746800057116","i_exparam":"TestExtParam123","hmac":"1291ae6f59b7de137ead01e3a822c2eb096cabd4fb0e36124a9f3a36dfa60e38"}
> Recv:{"error":"INSUFFICIENT_FUNDS","balance":"3.00","hmac":"0c93c01e36573104c0fd847941329082800106fad53baf7da775453d5c733000"}
> Time spent: 146ms

[ Debit 0.10 ]
----- Request:debit -----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.10","tid":11746800056668,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_action_id":"D11746800057117","i_exparam":"TestExtParam123","hmac":"bfe569d84a5eaef0a2976b8cdcf846512960b50b4f78ef7189db2824465dbc80"}
> Recv:{"status":"OK","tid":11746800056668,"balance":"2.90","hmac":"855109c45c40a8aadabbf1e718d7d1b887c454ec0baf26c52a6560220bc6891"}
> Time spent: 196ms

----- Request:debit -----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.10","tid":21746800056668,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_action_id":
```

```

d":"D21746800057117","i_exptparam":"TestExtParam123","hmac":"5e9c9b03f307877260eea1714
2accf0703f56cf031879be6273896f574ff0cfa"}
> Recv:{"status":"OK","tid":21746800056668,"balance":"2.90","hmac":"33e93d595c3eae12a
e15cace8641cc49eee8892944dfe18be3e7e933d7cddf3e"}
> Time spent: 190ms

[ Debit 0.10 (repeat) ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.10","tid
":11746800056668,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_actioni
d":"D11746800057117","i_exptparam":"TestExtParam123","hmac":"bfe569d84a5eaef0a2976b8cd
cf846512960b50b4f78ef7189db2824465dbc80"}
> Recv:{"status":"OK","tid":11746800056668,"balance":"2.90","hmac":"855109c45c40a8aad
aabbf1e718d7d1b887c454ec0baf26c52a6560220bc6891"}
> Time spent: 107ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.10","tid
":21746800056668,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_actioni
d":"D21746800057117","i_exptparam":"TestExtParam123","hmac":"5e9c9b03f307877260eea1714
2accf0703f56cf031879be6273896f574ff0cfa"}
> Recv:{"status":"OK","tid":21746800056668,"balance":"2.90","hmac":"33e93d595c3eae12a
e15cace8641cc49eee8892944dfe18be3e7e933d7cddf3e"}
> Time spent: 101ms

[ Debit 0.10 (repeat with new tid and the same game_id + i_actionid) ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.10","tid
":11746800056669,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_actioni
d":"D11746800057117","i_exptparam":"TestExtParam123","hmac":"93bfb6411c7311ba08477b6a4
bf27f87437192e503e2b11f875b603783725831"}
> Recv:{"status":"OK","tid":11746800056669,"balance":"2.90","hmac":"b1574062e69d3eba6
60c23a417b4a6296029b0044e0088049e556923d1066d1f"}
> Time spent: 110ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.10","tid
":21746800056669,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_actioni
d":"D21746800057117","i_exptparam":"TestExtParam123","hmac":"6091bf83a76a383dfc70eb768
407c30fe0e99e50484b65b580b30fe822560662"}
> Recv:{"status":"OK","tid":21746800056669,"balance":"2.90","hmac":"3c677652a83514a76
93647c84fea2fbc874c312a9f2240df00baaa632f3f0856"}
> Time spent: 117ms

[ Debit 0.10 (one more repeat with new tid and the same game_id + i_actionid) ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.10","tid
":11746800056670,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_actioni

```

```

d":"D11746800057117","i_extparam":"TestExtParam123","hmac":"0a273ee037f110289d4d7fef7
7476ff62176bd329cf6d74d7238de59b1d6ac54"}
> Recv:{"status":"OK","tid":11746800056670,"balance":"2.90","hmac":"32b4ff7187fc4df79
70e7dee5ed24582ed4f3e52c0541e34d20fd0b3abda5ac0"}
> Time spent: 128ms

---- Request:debit ----
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.10", "tid
": 21746800056670, "i_gameid": "2gm1746800056666", "i_gamedesc": "998:roulette", "i_actioni
d": "D21746800057117", "i_extparam": "TestExtParam123", "hmac": "b8bd1748f51700a9a2c5f163d
7a603ab4135119fd3797a93d8f93d15e75d156c" }
> Recv:{ "status": "OK", "tid": 21746800056670, "balance": "2.90", "hmac": "0e3b6b448c23e5b0a
ab08d28eda5893b1ce9365448e1cda4fd992b5e40a11bf5" }
> Time spent: 120ms

[ Debit another amount + same tid ]
---- Request:debit ----
> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.05", "tid
": 11746800056670, "i_gameid": "1gm1746800056666", "i_gamedesc": "998:roulette", "i_actioni
d": "D11746800057117", "i_extparam": "TestExtParam123", "hmac": "e23a5586a1d9663a1ee7a2c9b
72f2d7b324e55840794f88fb16ac37173ac2bf5" }
> Recv:{ "error": "Transaction Failed", "balance": "2.90", "hmac": "759e1564bbac113f0b7cf04
387403056428f550901ed99ba4d8583da1ef61252" }
> Time spent: 93ms

---- Request:debit ----
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.05", "tid
": 21746800056670, "i_gameid": "2gm1746800056666", "i_gamedesc": "998:roulette", "i_actioni
d": "D21746800057117", "i_extparam": "TestExtParam123", "hmac": "60c3a10462b3a6085c66f5c0a
fac6594d20262ffc6b00c8f36453267b3b43e2f" }
> Recv:{ "error": "Transaction Failed", "balance": "2.90", "hmac": "759e1564bbac113f0b7cf04
387403056428f550901ed99ba4d8583da1ef61252" }
> Time spent: 99ms

[ Debit other amount + other tid ]
---- Request:debit ----
> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.05", "tid
": 11746800056671, "i_gameid": "1gm1746800056666", "i_gamedesc": "998:roulette", "i_actioni
d": "D11746800057118", "i_extparam": "TestExtParam123", "hmac": "2d56d3ed0d72644e5ce7e1ca0
6c0f7695d02ff1e35fc07b8975c6f3be1aa79e" }
> Recv:{ "status": "OK", "tid": 11746800056671, "balance": "2.85", "hmac": "4fe834a0d66bb2adb
076ed738a468c9a356c2640ee0b8fede7bb2aa2e1842792" }
> Time spent: 132ms

---- Request:debit ----
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.05", "tid
": 21746800056671, "i_gameid": "2gm1746800056666", "i_gamedesc": "998:roulette", "i_actioni
d": "D21746800057118", "i_extparam": "TestExtParam123", "hmac": "a31ce4b8e641f82d4e7a7c5f7
2641087823a8d759f433f54a5597131a54921cc" }
> Recv:{ "status": "OK", "tid": 21746800056671, "balance": "2.85", "hmac": "9c3ffb390c287c0e8
a6cce415ccb496eba4a95f3fd9bd567a95c87546d79b5ae" }

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> Time spent: 132ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2"}
> Recv:{"status":"OK","balance":"2.85","hmac":"c67d55b9674481e444bd011932d6af6dbc093bea9189dbadb9e4de0f54e25776"}
> Time spent: 86ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8a0cf8a743fcacf11d1c03b7d323"}
> Recv:{"status":"OK","balance":"2.85","hmac":"c67d55b9674481e444bd011932d6af6dbc093bea9189dbadb9e4de0f54e25776"}
> Time spent: 87ms

[ Credit + debit tid (fail) ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.05","tid":11746800056671,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_action_id":"C11746800057118","i_extparam":"TestExtParam123","hmac":"e6226ec6e90ee9fd75c3248869555bc4741ccbf0a26f4c607c2c7553ed88694"}
> Recv:{"error":"Transaction Failed","balance":"2.90","hmac":"759e1564bbac113f0b7cf04387403056428f550901ed99ba4d8583da1ef61252"}
> Time spent: 112ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.05","tid":21746800056671,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_action_id":"C21746800057118","i_extparam":"TestExtParam123","hmac":"c3c4de835caf45a754af1c80aa4b208eb1f51f28d235bb3485090da01aa1c849"}
> Recv:{"error":"Transaction Failed","balance":"2.90","hmac":"759e1564bbac113f0b7cf04387403056428f550901ed99ba4d8583da1ef61252"}
> Time spent: 108ms

[ Bet cancel by sending Credit + new tid with i_rollback ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.05","tid":11746800056672,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_rollback":11746800056671,"i_actionid":"C11746800057118","i_extparam":"TestExtParam123","hmac":"b64e13e8b28af10a7ecc3e96ec2bb123b8856ca2af7518be9cc27f3167e909f3"}
> Recv:{"status":"OK","tid":11746800056672,"balance":"2.90","hmac":"e0b943f1ef04ca541f0fd62b40b1b7bb10d7b702376978a83c170c3262df2a75"}
> Time spent: 116ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.05","tid":21746800056672,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_rollback":21746800056671,"i_actionid":"C21746800057118","i_extparam":"TestExtParam123","hmac":"c3c4de835caf45a754af1c80aa4b208eb1f51f28d235bb3485090da01aa1c849"}}

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ck":21746800056671,"i_actionid":"C21746800057118","i_extparam":"TestExtParam123","hma
c":"d1b2c805ead7d7bcf8b9e27db880cf22e8afac7e58bea1ef39643883c3f1008c"}
> Recv:{status:"OK",tid":21746800056672,"balance":"2.90","hmac":"326dbcd5b616be53c
22c9f36634b00e51b27f9527c8ae05b8037b7b93bf99ad2"}
> Time spent: 113ms

---- Request:balance ----
> Sent:{type:"balance",userid:"62447203ee621",currency:"EUR",i_gamedesc:"998:
roulette",i_extparam:"TestExtParam123",hmac:"c62ae1ff243b0369fd6c5d5a263447f4cb78
2e5112e07293c22a3b8800b8dfa2"}
> Recv:{status:"OK",balance:"2.90",hmac:"d02d6aa4d6c0ee500c80186364de0393a42137
75f7667359bcbed90794925433"}
> Time spent: 72ms

---- Request:balance ----
> Sent:{type:"balance",userid:"6244721467851",currency:"USD",i_gamedesc:"998:
roulette",i_extparam:"TestExtParam123",hmac:"2a91dbde95a9d4dde92eca75dd8e7428d0a8
a0cf8a743fcacf9f11d1c03b7d323"}
> Recv:{status:"OK",balance:"2.90",hmac:"d02d6aa4d6c0ee500c80186364de0393a42137
75f7667359bcbed90794925433"}
> Time spent: 72ms

[ Credit 0.50 (for debit of 0.10) ]

---- Request:credit ----
> Sent:{type:"credit",userid:"62447203ee621",currency:"EUR",amount:"0.50",ti
d":11746800056673,i_gameid:"1gm1746800056666",i_gamedesc:"998:roulette",i_ac
tion id:"C11746800057117",i_extparam:"TestExtParam123",hmac:"8b04ec44f6fb0849cac9ff41
98666f69072ae64444bb39e99eed1863080007296"}
> Recv:{status:"OK",tid":11746800056673,balance:"3.40",hmac:"839a0404516e933ca
8424362fb3e0f22b1eb53064b56a21620cf60903ca999e3"}
> Time spent: 128ms

---- Request:credit ----
> Sent:{type:"credit",userid:"6244721467851",currency:"USD",amount:"0.50",ti
d":21746800056673,i_gameid:"2gm1746800056666",i_gamedesc:"998:roulette",i_ac
tion id:"C21746800057117",i_extparam:"TestExtParam123",hmac:"0b2e5630bd70055cda25e194
8d1677977bb28a7e379e92f591d00147ceb3dc9"}
> Recv:{status:"OK",tid":21746800056673,balance:"3.40",hmac:"99cae707d00c59afd
286497e89acb6de8bde12b2e8f95837fb81b168950f9c7e"}
> Time spent: 121ms

[ Credit 0.50 (repeat) ]

---- Request:credit ----
> Sent:{type:"credit",userid:"62447203ee621",currency:"EUR",amount:"0.50",ti
d":11746800056673,i_gameid:"1gm1746800056666",i_gamedesc:"998:roulette",i_ac
tion id:"C11746800057117",i_extparam:"TestExtParam123",hmac:"8b04ec44f6fb0849cac9ff41
98666f69072ae64444bb39e99eed1863080007296"}
> Recv:{status:"OK",tid":11746800056673,balance:"3.40",hmac:"839a0404516e933ca
8424362fb3e0f22b1eb53064b56a21620cf60903ca999e3"}
> Time spent: 92ms

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---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.50", "tid": "21746800056673", "i_gameid": "2gm1746800056666", "i_gamedesc": "998:roulette", "i_action_id": "C21746800057117", "i_exparam": "TestExtParam123", "hmac": "0b2e5630bd70055cda25e1948d1677977bb28a7e379e92f591d00147ceb3dc9" }
> Recv:{ "status": "OK", "tid": "21746800056673", "balance": "3.40", "hmac": "99cae707d00c59af286497e89acb6de8bde12b2e8f95837fb81b168950f9c7e" }
> Time spent: 88ms

[ Credit 0.50 + wrong user ID ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621f", "currency": "EUR", "amount": "0.50", "tid": "11746800056673", "i_gameid": "1gm1746800056666", "i_gamedesc": "998:roulette", "i_action_id": "C11746800057117", "i_exparam": "TestExtParam123", "hmac": "c749ca4e6a2422adbad2601dee98d9715b0cdf4d055916d5e69bec79b8cb24d2" }
> Recv:{ "error": "Invalid userid", "hmac": "8d0093157cd4af2a6cb5a5a92fe97ba611e7beab8ed28e1c1397006bfbfd8975" }
> Time spent: 72ms

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851f", "currency": "USD", "amount": "0.50", "tid": "21746800056673", "i_gameid": "2gm1746800056666", "i_gamedesc": "998:roulette", "i_action_id": "C21746800057117", "i_exparam": "TestExtParam123", "hmac": "656a2011042c0b420dbb607216f0fc31eb3d7aec74c5314ea410547435020f27" }
> Recv:{ "error": "Invalid userid", "hmac": "8d0093157cd4af2a6cb5a5a92fe97ba611e7beab8ed28e1c1397006bfbfd8975" }
> Time spent: 77ms

[ Credit 0.50 + wrong currency ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "USD", "amount": "0.50", "tid": "11746800056673", "i_gameid": "1gm1746800056666", "i_gamedesc": "998:roulette", "i_action_id": "C11746800057117", "i_exparam": "TestExtParam123", "hmac": "636a3ea07235cc22a139b795c7dd5911a8c1960b281512ae240f813b98c3e450" }
> Recv:{ "error": "Invalid currency", "hmac": "370f66d7e0db3abcd96a055643bfca4ffee3cd74616bc7264aa74a0eb24180e" }
> Time spent: 69ms
---- Request:balance ----
> Sent:{ "type": "balance", "userid": "62447203ee621", "currency": "USD", "i_gamedesc": "998:roulette", "i_exparam": "TestExtParam123", "hmac": "8486bd562aa3c900a9e2e4d525c06e0cd98b9a94ade0eceb176b67a880d97" }
> Recv:{ "error": "Invalid currency", "hmac": "370f66d7e0db3abcd96a055643bfca4ffee3cd74616bc7264aa74a0eb24180e" }
> Time spent: 74ms

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "EUR", "amount": "0.50", "tid": "21746800056673", "i_gameid": "2gm1746800056666", "i_gamedesc": "998:roulette", "i_action_id": "C21746800057117", "i_exparam": "TestExtParam123", "hmac": "3d6518c9fd732770cf8a62ff22573dae3204b42e3280f990e3ab534ee03ffcb" }

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> Recv:{"error":"Invalid currency","hmac":"370f66d7e0db3abcd96a055643bfca4ffee3cd7461
6bc7264aa74a0ebb24180e"}
> Time spent: 77ms
---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"EUR","i_gamedesc":"998:
roulette","i_extparam":"TestExtParam123","hmac":"3af28a226c617fa1ae5b3f7ca6738875e328
415bef14278974214f98d885e6a5"}
> Recv:{"error":"Invalid currency","hmac":"370f66d7e0db3abcd96a055643bfca4ffee3cd7461
6bc7264aa74a0ebb24180e"}
> Time spent: 82ms

[ Credit 0.51 (same TID) + wrong amount ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.51","ti
d":11746800056673,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_action
id":"C11746800057117","i_extparam":"TestExtParam123","hmac":"00ebc3cef56ddc465bab0d71
2894c0cdcb5c70b80c76ea619e20aaa6267ae99a"}
> Recv:{"error":"Transaction Failed","balance":"3.40","hmac":"55c7a53d511f487bce46825
4b668df76a89ed6950dbe7376ab48cde7eef05b04"}
> Time spent: 94ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.51","ti
d":21746800056673,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_action
id":"C21746800057117","i_extparam":"TestExtParam123","hmac":"9be7780fbc19da4b17be4847
4332e7315be92bf923a27a06b7f82b633456908d"}
> Recv:{"error":"Transaction Failed","balance":"3.40","hmac":"55c7a53d511f487bce46825
4b668df76a89ed6950dbe7376ab48cde7eef05b04"}
> Time spent: 96ms

[ Credit 0.50 (for debit of 0.10) with new tid, i_gameid and i_actionid - are the
same ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.50","ti
d":11746800056674,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_action
id":"C11746800057117","i_extparam":"TestExtParam123","hmac":"7ab5c0eb9c0f1a90ed245854
5060af2310275370c689323b0249c17f7e5e083e"}
> Recv:{"status":"OK","tid":11746800056674,"balance":"3.40","hmac":"cd6c8b154b0f617a4
b79b72873cd91b9b5091a6e3eedac7adb585363ccb64b1f"}
> Time spent: 133ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.50","ti
d":21746800056674,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_action
id":"C21746800057117","i_extparam":"TestExtParam123","hmac":"c0550716981776ded4a88e62
78918e75e691d37edb83d26d71d8a330acb9bdc"}
> Recv:{"status":"OK","tid":21746800056674,"balance":"3.40","hmac":"e360827249428cd197a26e160a088a1dbd79804c10a50c5"}
> Time spent: 134ms

---- Request:balance ----

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> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2"}
> Recv:{status:"OK",balance:"3.40",hmac:"4215661ba7df5542753befdbe7c1c0bfbed4a3d9356298c3fa9e58ff1903889"}
> Time spent: 84ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8a0cf8a743fcacf9f11d1c03b7d323"}
> Recv:{status:"OK",balance:"3.40",hmac:"4215661ba7df5542753befdbe7c1c0bfbed4a3d9356298c3fa9e58ff1903889"}
> Time spent: 86ms

[ Debit 0.15 ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.15","tid":11746800056675,"i_gameid":"1gm1746800056666","i_gamedesc":"998:roulette","i_actionid":"D11746800057119","i_extparam":"TestExtParam123","hmac":"35a05494396db730d0352a4e00432d5a59a8a7b59ff13c1711474d17d65f2dcf"}
> Recv:{status:"OK",tid:11746800056675,balance:"3.25",hmac:"a713b68313d1490e5496c22679558b0d5e600a3061ce1ddb3663f5f2a65c0f1e"}
> Time spent: 133ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.15","tid":21746800056675,"i_gameid":"2gm1746800056666","i_gamedesc":"998:roulette","i_actionid":"D21746800057119","i_extparam":"TestExtParam123","hmac":"4d2e0397cc16a7ff91e37475af02fdbaa52a2968b18bd76f11de0122e6ce7e786"}
> Recv:{status:"OK",tid:21746800056675,balance:"3.25",hmac:"f92b54c6cadadb496d6e664b8e6997c10429afeb744bacab896f4c5d17156868"}
> Time spent: 128ms

[ Debit 0.50 ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.50","tid":11746800056676,"i_gameid":"1gm1746800056667","i_gamedesc":"998:roulette","i_actionid":"D11746800057120","i_extparam":"TestExtParam123","hmac":"037cbdd88b1b1155420d25f4f1d8125a7d8ae6dcaafdf5863dce86ba2ef9c1b07"}
> Recv:{status:"OK",tid:11746800056676,balance:"2.75",hmac:"5a21c1307380059dc82f7d9df4de0544052fc0f0dae40d46a7d8d51b9cc6a659"}
> Time spent: 125ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.50","tid":21746800056676,"i_gameid":"2gm1746800056667","i_gamedesc":"998:roulette","i_actionid":"D21746800057120","i_extparam":"TestExtParam123","hmac":"ac19483c5423a57032a7a8874fa3ad97369646c74dfe036f76bce04086a46e86"}
> Recv:{status:"OK",tid:21746800056676,balance:"2.75",hmac:"46943dcc8e257b0582dd48031cafadec44d8b4591f5c7eeaf70c2fe931d49a1c"}

```

> Time spent: 131ms

[Credit -0.50 (wrong amount)]

---- Request:credit ----

> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "-0.50", "tid": "11746800056677", "i_gameid": "1gm1746800056667", "i_gamedesc": "998:roulette", "i_actionid": "C11746800057120", "i_exparam": "TestExtParam123", "hmac": "7bfc2c04bad78f9837d002cb7565ae017308c7a2dc0285d5eac17ad91fcebcf6"}

> Recv:{ "error": "Invalid parameters", "hmac": "b73765c580d9699bb58079d2f33378c4e9aa36edc241ac76abc1a0f859c9c52"}

> Time spent: 71ms

---- Request:credit ----

> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "-0.50", "tid": "21746800056677", "i_gameid": "2gm1746800056667", "i_gamedesc": "998:roulette", "i_actionid": "C21746800057120", "i_exparam": "TestExtParam123", "hmac": "1c384bc9956e84b80f16c5833659f47201311a78b2c2ba49fac0c115a9ffb20e"}

> Recv:{ "error": "Invalid parameters", "hmac": "b73765c580d9699bb58079d2f33378c4e9aa36edc241ac76abc1a0f859c9c52"}

> Time spent: 75ms

[Debit 0.25]

---- Request:debit ----

> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.25", "tid": "11746800056678", "i_gameid": "1gm1746800056668", "i_gamedesc": "998:roulette", "i_actionid": "D11746800057121", "i_exparam": "TestExtParam123", "hmac": "bd998059f791f6898950c543102945806a327ad51993ad99f3ae92d24cb6735a"}

> Recv:{ "status": "OK", "tid": "11746800056678", "balance": "2.50", "hmac": "18faa076c240fdacfeed0bcf0b8b38fc5f3eb67875c9a55cc81b6a4d0146a85"}

> Time spent: 125ms

---- Request:debit ----

> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.25", "tid": "21746800056678", "i_gameid": "2gm1746800056668", "i_gamedesc": "998:roulette", "i_actionid": "D21746800057121", "i_exparam": "TestExtParam123", "hmac": "e13cb18e9ef4a22c890f2a48f448910a9a855b4fa97a9feb08c56e6d4cc9d404"}

> Recv:{ "status": "OK", "tid": "21746800056678", "balance": "2.50", "hmac": "5ce6371b28c951ca765ac0899562b983f2a7fc0cc2f740b8473f2749a217ea9"}

> Time spent: 132ms

[Debit cancellation 0.25]

---- Request:credit ----

> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.25", "tid": "11746800056679", "i_gameid": "1gm1746800056668", "i_gamedesc": "998:roulette", "subtype": "cancel", "i_actionid": "D11746800057121", "i_exparam": "TestExtParam123", "hmac": "3105b4c327217bd4cd0d6680faf2b7178d4e285b7e226cf014d45a27e4b67b7f"}

> Recv:{ "status": "OK", "tid": "11746800056679", "balance": "2.75", "hmac": "121f225731b7921f66e0a90deb81195758efc8507bb8d679a7b035cd71d68a6a"}

> Time spent: 151ms

```

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.25", "tid": "21746800056679", "i_gameid": "2gm1746800056668", "i_gamedesc": "998:roulette", "subtype": "cancel", "i_actionid": "D21746800057121", "i_extparam": "TestExtParam123", "hmac": "366dec277ae91e43764479c404619e112bed9c98851f04d93a14f6143ac21c86" }
> Recv:{ "status": "OK", "tid": "21746800056679", "balance": "2.75", "hmac": "16ad3044cd920b027425edc02152150a5a1f18f571d12192321e309aa7a15505" }
> Time spent: 152ms

[ Debit 0.25 ]
---- Request:debit ----
> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.25", "tid": "11746800056680", "i_gameid": "1gm1746800056669", "i_gamedesc": "998:roulette", "i_actionid": "D11746800057122", "i_extparam": "TestExtParam123", "hmac": "1ae146e81bd857881ce3370dfccc468e8b35525f98070d141af35ca58e306127" }
> Recv:{ "status": "OK", "tid": "11746800056680", "balance": "2.50", "hmac": "df9f05c5aa1f846435bfd41ac39789d4d3d1cbd36bc769bbf679f69d6999d2c3" }
> Time spent: 143ms

---- Request:debit ----
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.25", "tid": "21746800056680", "i_gameid": "2gm1746800056669", "i_gamedesc": "998:roulette", "i_actionid": "D21746800057122", "i_extparam": "TestExtParam123", "hmac": "dd36579df44e6a21b4f734561f8739c8a00ddd92859bd19e3add31b6a5a21949" }
> Recv:{ "status": "OK", "tid": "21746800056680", "balance": "2.50", "hmac": "f349c66b562cda8e4c0a9605cbfa37ca1001fd8f0d1d57bf7be96800f6341a17" }
> Time spent: 146ms

[ Credit 0.50 ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.50", "tid": "11746800056681", "i_gameid": "1gm1746800056669", "i_gamedesc": "998:roulette", "i_actionid": "C11746800057122", "i_extparam": "TestExtParam123", "hmac": "e74c13ddced5340c135ad3368f812f491d29e4fe30bf710cd9f2f04b903c34f2" }
> Recv:{ "status": "OK", "tid": "11746800056681", "balance": "3.00", "hmac": "f402c9a3d1f63e5e65192ba50b4a22b8c3f12827fe33f4f1a468615a6ef83b10" }
> Time spent: 137ms

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.50", "tid": "21746800056681", "i_gameid": "2gm1746800056669", "i_gamedesc": "998:roulette", "i_actionid": "C21746800057122", "i_extparam": "TestExtParam123", "hmac": "a296d1a5a0daf85441b5199ae34ae15a23842631aa9f27b5f862a870a1de657" }
> Recv:{ "status": "OK", "tid": "21746800056681", "balance": "3.00", "hmac": "592e47517638852649c83c0b3305bf4cc3c3412b69e1d87a2ae54908372cecdf" }
> Time spent: 150ms

[ Credit cancellation 0.50 ]
---- Request:debit ----

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> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.50","tid":11746800056682,"i_gameid":"1gm1746800056669","i_gamedesc":"998:roulette","subtype":"cancel","i_actionid":"C11746800057122","i_exparam":"TestExtParam123","hmac":"3c6c73653f94fccc34a8f4bbf01a51591b3b6ea96aa792fa81ec8321ecb1fb23"}
> Recv:{status:"OK","tid":11746800056682,"balance":"2.50","hmac":"6681270d6efa24e4df3721e671a6c0d81e5af77ceadfecb749158e6ce18beaa5"}
> Time spent: 149ms

----- Request:debit -----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.50","tid":21746800056682,"i_gameid":"2gm1746800056669","i_gamedesc":"998:roulette","subtype":"cancel","i_actionid":"C21746800057122","i_exparam":"TestExtParam123","hmac":"88f21750a354164ef6d73b14a6a484d1fdc23bb77793fc601a645c19cbd056b3"}
> Recv:{status:"OK","tid":21746800056682,"balance":"2.50","hmac":"5c3a86246a3744daf3cc9aece7e7990d2f951bb023cdeca8f961693216c55729"}
> Time spent: 134ms

===== RUN #2 =====
----- Request:ping -----
> Sent:{"type":"ping","hmac":"855c54693a59a28a1039328ac5a12e9bcfab9f906fc935313e3a76db6376c56"}
> Recv:{status:"OK","hmac":"e969bada202f1735fedd074a5b1097e48080ef22d83fcbe74d86b0cea91bb63"}
> Time spent: 67ms

[ Preparing balance amount of 3.00 ]
----- Request:balance -----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:roulette","i_exparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2"}
> Recv:{status:"OK","balance":"2.50","hmac":"b390053b9c0fbf614c2783adb559ed93bf19b3ed7bf79dc6a5dc97269954a475"}
> Time spent: 87ms
----- Request:debit -----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"2.50","tid":11746800056683,"i_gameid":"1gm1746800056670","i_gamedesc":"998:roulette","i_actionid":"D11746800064110","i_exparam":"TestExtParam123","hmac":"8b4bacf8d5a4d0b0114489a966046068d178b568ba5656e4f8717387f0a1f943"}
> Recv:{status:"OK","tid":11746800056683,"balance":"0.00","hmac":"40290c20f667ff0acb2c7496b1ead3d6e284440281b057fb475db8294b34432e"}
> Time spent: 145ms
----- Request:credit -----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"3.00","tid":11746800056684,"i_gameid":"1gm1746800056670","i_gamedesc":"998:roulette","i_actionid":"C11746800064110","i_exparam":"TestExtParam123","hmac":"de6bb28924e74f9f394b4714e8fbf0435596e1967acbfa4890e5b36606fc2bf7"}
> Recv:{status:"OK","tid":11746800056684,"balance":"3.00","hmac":"c12fa02357ddb1d04022bbcda14ea796ea6997324b3c34f45ecf590a8903f250"}
> Time spent: 143ms

----- Request:balance -----

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> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8a0cf8a743fcf9f11d1c03b7d323"}
> Recv:{ "status": "OK", "balance": "2.50", "hmac": "b390053b9c0fbf614c2783adb559ed93bf19b3ed7bf79dc6a5dc97269954a475" }
> Time spent: 91ms
---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"2.50","tid":21746800056683,"i_gameid":"2gm1746800056670","i_gamedesc":"998:roulette","i_actionid":"D21746800064110","i_extparam":"TestExtParam123","hmac":"9949c05e0d3cb09d206cb7aa1ee44e74856e570edf86974ec8fb3b44a6fadca"}
> Recv:{ "status": "OK", "tid": 21746800056683, "balance": "0.00", "hmac": "5b1f15e44b15e4f60f2d7bd8380d3b3b51a4053ee0e147d7b80b1d45e0903767" }
> Time spent: 147ms
---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"3.00","tid":21746800056684,"i_gameid":"2gm1746800056670","i_gamedesc":"998:roulette","i_actionid":"C21746800064110","i_extparam":"TestExtParam123","hmac":"92a1330cff311f5374078797aacb4db2db4f3c281636c178e60ff0e2c1e67c5b"}
> Recv:{ "status": "OK", "tid": 21746800056684, "balance": "3.00", "hmac": "85ee5d71f84bd5b4a45f617612c4c1a1e771d78a86a25d5fde9679e083e26fb8" }
> Time spent: 145ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2"}
> Recv:{ "status": "OK", "balance": "3.00", "hmac": "109ac35e2dc899706c75e1e3647075588012e613c0ebd4af86b5841d58b7adc8" }
> Time spent: 79ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8a0cf8a743fcf9f11d1c03b7d323"}
> Recv:{ "status": "OK", "balance": "3.00", "hmac": "109ac35e2dc899706c75e1e3647075588012e613c0ebd4af86b5841d58b7adc8" }
> Time spent: 83ms

[ Debit 30.00 (balance x10), error excepted ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"30.00","tid":11746800056685,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D11746800064111","i_extparam":"TestExtParam123","hmac":"26bd6e97d573fd9c4f462a6b2e9b015ff4ee164e51b4856175b6dab5bf0afdf65"}
> Recv:{ "error": "INSUFFICIENT_FUNDS", "balance": "3.00", "hmac": "0c93c01e36573104c0fd847941329082800106fad53baf7da775453d5c733000" }
> Time spent: 102ms

---- Request:debit ----

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> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "30.00", "tid": "21746800056685", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "D21746800064111", "i_extparam": "TestExtParam123", "hmac": "12dbd8fbedbb16873bb3542596174e33f7cbda65e1c68651b157fb9d991d9e48" }
> Recv:{ "error": "INSUFFICIENT_FUNDS", "balance": "3.00", "hmac": "0c93c01e36573104c0fd847941329082800106fad53baf7da775453d5c733000" }
> Time spent: 104ms

[ Debit 0.10 ]
---- Request:debit ----
> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.10", "tid": "11746800056686", "i_gameid": "1gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "D11746800064112", "i_extparam": "TestExtParam123", "hmac": "3e8947f2cb04560b74e7b3433910e130db534d5cbba2687b9c8e82126eb38d15" }
> Recv:{ "status": "OK", "tid": "11746800056686", "balance": "2.90", "hmac": "33d0d51a57e8763af7f61e4606532b21a4ad61dfe36692c0a35321ad682c9d69" }
> Time spent: 142ms

---- Request:debit ----
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.10", "tid": "21746800056686", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "D21746800064112", "i_extparam": "TestExtParam123", "hmac": "f3771ad09603ce94f7a03d887ec3b7cb98a9877d8ec276eea51cc0e1b9601a21" }
> Recv:{ "status": "OK", "tid": "21746800056686", "balance": "2.90", "hmac": "956a05acf7fff5d9103c14a69b18d345157ac1556082e2d63561afa04c46ec82" }
> Time spent: 142ms

[ Debit 0.10 (repeat) ]
---- Request:debit ----
> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.10", "tid": "11746800056686", "i_gameid": "1gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "D11746800064112", "i_extparam": "TestExtParam123", "hmac": "3e8947f2cb04560b74e7b3433910e130db534d5cbba2687b9c8e82126eb38d15" }
> Recv:{ "status": "OK", "tid": "11746800056686", "balance": "2.90", "hmac": "33d0d51a57e8763af7f61e4606532b21a4ad61dfe36692c0a35321ad682c9d69" }
> Time spent: 92ms

---- Request:debit ----
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.10", "tid": "21746800056686", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "D21746800064112", "i_extparam": "TestExtParam123", "hmac": "f3771ad09603ce94f7a03d887ec3b7cb98a9877d8ec276eea51cc0e1b9601a21" }
> Recv:{ "status": "OK", "tid": "21746800056686", "balance": "2.90", "hmac": "956a05acf7fff5d9103c14a69b18d345157ac1556082e2d63561afa04c46ec82" }
> Time spent: 90ms

[ Debit 0.10 (repeat with new tid and the same game_id + i_actionid) ]
---- Request:debit ----

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> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.10","tid":11746800056687,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D11746800064112","i_extparam":"TestExtParam123","hmac":"64a0a9fd93783ff2ca1c480e5fe692cd75cb41318e354719b9bf5f542b57f9e8"}
> Recv:{status:"OK",tid:11746800056687,balance:"2.90",hmac:"47e4dc9469d930b5152ceef31725821a1b666a9181e7247d982b1268ffffddb09"}
> Time spent: 113ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.10","tid":21746800056687,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D21746800064112","i_extparam":"TestExtParam123","hmac":"345fc670fd9b4266d089974663c8e2ad42ac3a1d74c4a45ffea9702ca0e22819"}
> Recv:{status:"OK",tid:21746800056687,balance:"2.90",hmac:"f557e4ad0afcd79a7535572ae5bcaf260a50ea4e8a15a755efb5a608b53bc37"}
> Time spent: 108ms

[ Debit 0.10 (one more repeat with new tid and the same game_id + i_actionid) ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.10","tid":11746800056688,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D11746800064112","i_extparam":"TestExtParam123","hmac":"9a5f960ce83d5c5c1bd17af2a5966776fb723ce85c7c32a683b6ac5fd2a3273"}
> Recv:{status:"OK",tid:11746800056688,balance:"2.90",hmac:"d93019f47b5398845cf85f3593d17e41b99df42003336c0fe53f839d89c8077a"}
> Time spent: 110ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.10","tid":21746800056688,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D21746800064112","i_extparam":"TestExtParam123","hmac":"93e63fd65a25f107cd7499f675b9971c0f4c67e89dfdbc1a8523491637baa986"}
> Recv:{status:"OK",tid:21746800056688,balance:"2.90",hmac:"ff2bd812dd6e04e8a6b189b844331f61f873cd5230bd29e8264106f2dd50b8b1"}
> Time spent: 118ms

[ Debit another amount + same tid ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.05","tid":11746800056688,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D11746800064112","i_extparam":"TestExtParam123","hmac":"e231bed1933fc34469a2adb27c48b747d46ff496423fb10bb3fb734f183adb40"}
> Recv:{error:"Transaction Failed",balance:"2.90",hmac:"759e1564bbac113f0b7cf04387403056428f550901ed99ba4d8583da1ef61252"}
> Time spent: 84ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.05","tid":21746800056688,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actionid":
```

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d":"D21746800064112","i_extparam":"TestExtParam123","hmac":"b0f3b1adf3e6289449595daef
281e3dfad7f5e66158e6d29bebe20b39c61af9d"}
> Recv:{"error":"Transaction Failed","balance":"2.90","hmac":"759e1564bbac113f0b7cf04
387403056428f550901ed99ba4d8583da1ef61252"}
> Time spent: 83ms

[ Debit other amount + other tid ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.05","tid
":11746800056689,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actioni
d":"D11746800064113","i_extparam":"TestExtParam123","hmac":"d799695f87b2800c5c6ba9aba
0b79dbf903b7b3dfeb52816076cbd368385b1a2"}
> Recv:{"status":"OK","tid":11746800056689,"balance":"2.85","hmac":"fc354ca4c274164ba
de4739c997183222683516d3ebba32f226c6ac1c3157286"}
> Time spent: 120ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.05","tid
":21746800056689,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actioni
d":"D21746800064113","i_extparam":"TestExtParam123","hmac":"faa4cb4b1f86b653886ed8f1d
ae512fb5d299ec936c0a13b09ea2170bfe1182f"}
> Recv:{"status":"OK","tid":21746800056689,"balance":"2.85","hmac":"828d68ea8f4387586
9267063e6c8341cd513910290841892f8d5dc4723cc0ef5"}
> Time spent: 116ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:
roulette","i_extparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb78
2e5112e07293c22a3b8800b8dfa2"}
> Recv:{"status":"OK","balance":"2.85","hmac":"c67d55b9674481e444bd011932d6af6dbc093b
ea9189dbadb9e4de0f54e25776"}
> Time spent: 74ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:
roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8
a0cf8a743fcraf9f11d1c03b7d323"}
> Recv:{"status":"OK","balance":"2.85","hmac":"c67d55b9674481e444bd011932d6af6dbc093b
ea9189dbadb9e4de0f54e25776"}
> Time spent: 79ms

[ Credit + debit tid (fail) ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.05","ti
d":11746800056689,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_action
id":"C11746800064113","i_extparam":"TestExtParam123","hmac":"cca2a2a6efd1dd2690cfb327
e15436d7312502246e3d24f1c14b70774978a0c6"}
> Recv:{"error":"Transaction Failed","balance":"2.90","hmac":"759e1564bbac113f0b7cf04
387403056428f550901ed99ba4d8583da1ef61252"}
> Time spent: 130ms

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```

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.05", "tid": "21746800056689", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "C21746800064113", "i_extparam": "TestExtParam123", "hmac": "4fd42259ce95440d1246fc9585336423494602863759a075e9f3e1b44b827134" }
> Recv:{ "error": "Transaction Failed", "balance": "2.90", "hmac": "759e1564bbac113f0b7cf04387403056428f550901ed99ba4d8583da1ef61252" }
> Time spent: 129ms

[ Bet cancel by sending Credit + new tid with i_rollback ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.05", "tid": "11746800056690", "i_gameid": "1gm1746800056671", "i_gamedesc": "998:roulette", "i_rollback": "11746800056689", "i_actionid": "C11746800064113", "i_extparam": "TestExtParam123", "hmac": "60bb85f666b6ef98d5fe1c67c025c24eebb09ef7292841f652ce89637f36c4eb" }
> Recv:{ "status": "OK", "tid": "11746800056690", "balance": "2.90", "hmac": "fede4a4eeb571b54e8576c60909adcc372ee4b8f0d4f11984dcb7154aaac35be" }
> Time spent: 113ms

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.05", "tid": "21746800056690", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_rollback": "21746800056689", "i_actionid": "C21746800064113", "i_extparam": "TestExtParam123", "hmac": "8b1dd437ab164c84472102159f1e02cc98a6a9952067ccb2b5370de97a561b02" }
> Recv:{ "status": "OK", "tid": "21746800056690", "balance": "2.90", "hmac": "be16b66a1bf2e6d8300e4891874bb8f1fab0ae4d50dd9dfc7e0920025de28ee2" }
> Time spent: 124ms

---- Request:balance ----
> Sent:{ "type": "balance", "userid": "62447203ee621", "currency": "EUR", "i_gamedesc": "998:roulette", "i_extparam": "TestExtParam123", "hmac": "c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2" }
> Recv:{ "status": "OK", "balance": "2.90", "hmac": "d02d6aa4d6c0ee500c80186364de0393a4213775f7667359bcbed90794925433" }
> Time spent: 82ms

---- Request:balance ----
> Sent:{ "type": "balance", "userid": "6244721467851", "currency": "USD", "i_gamedesc": "998:roulette", "i_extparam": "TestExtParam123", "hmac": "2a91dbde95a9d4dde92eca75dd8e7428d0a8a0cf8a743fcacf9f11d1c03b7d323" }
> Recv:{ "status": "OK", "balance": "2.90", "hmac": "d02d6aa4d6c0ee500c80186364de0393a4213775f7667359bcbed90794925433" }
> Time spent: 75ms

[ Credit 0.50 (for debit of 0.10) ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.50", "tid": "11746800056691", "i_gameid": "1gm1746800056671", "i_gamedesc": "998:roulette", "i_actionid": "C11746800064112", "i_extparam": "TestExtParam123", "hmac": "5b832f1794b3674438d0febfa184e0dbe1c6e13191abf6f46d7f56897ef28a2" }

```

```

> Recv:{"status":"OK","tid":11746800056691,"balance":"3.40","hmac":"8017fdd65c568f40d
2bd5dea0f232c531ef36372633e9af472663d4a77a77a76"}
> Time spent: 138ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.50","ti
d":21746800056691,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_action
id":"C21746800064112","i_extparam":"TestExtParam123","hmac":"b8281a63254cef3608829cc6
fb1697563ed7a6dd698c01842bfd59e5c9865c75"}
> Recv:{"status":"OK","tid":21746800056691,"balance":"3.40","hmac":"e7a6b7871b231359c
a953545d785ccb855f2fc8a40ddb6d583ffffee9ae738f0f"}
> Time spent: 130ms

[ Credit 0.50 (repeat) ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.50","ti
d":11746800056691,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_action
id":"C11746800064112","i_extparam":"TestExtParam123","hmac":"5b832f1794b3674438d0feb
9a184e0dbe1c6e13191abf6f46d7f56897ef28a2"}
> Recv:{"status":"OK","tid":11746800056691,"balance":"3.40","hmac":"8017fdd65c568f40d
2bd5dea0f232c531ef36372633e9af472663d4a77a77a76"}
> Time spent: 92ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.50","ti
d":21746800056691,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_action
id":"C21746800064112","i_extparam":"TestExtParam123","hmac":"b8281a63254cef3608829cc6
fb1697563ed7a6dd698c01842bfd59e5c9865c75"}
> Recv:{"status":"OK","tid":21746800056691,"balance":"3.40","hmac":"e7a6b7871b231359c
a953545d785ccb855f2fc8a40ddb6d583ffffee9ae738f0f"}
> Time spent: 87ms

[ Credit 0.50 + wrong user ID ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621f","currency":"EUR","amount":"0.50","t
id":11746800056691,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actio
nid":"C11746800064112","i_extparam":"TestExtParam123","hmac":"3f8ccd94849a442a7a2ca8a
ba4a7787a7abf1788d706a5ca22d22f000695b958"}
> Recv:{"error":"Invalid userid","hmac":"8d0093157cd4af2a6cb5a5a92fe97ba611e7beab8ed2
8e1c1397006bfbfd8975"}
> Time spent: 70ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851f","currency":"USD","amount":"0.50","t
id":21746800056691,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actio
nid":"C21746800064112","i_extparam":"TestExtParam123","hmac":"4f5d6af98b62b60ca7549f2
2a271ba111337f29a06a5ee886c5d79e17f64dd08"}
> Recv:{"error":"Invalid userid","hmac":"8d0093157cd4af2a6cb5a5a92fe97ba611e7beab8ed2
8e1c1397006bfbfd8975"}
> Time spent: 72ms

```

```
[ Credit 0.50 + wrong currency ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "USD", "amount": "0.50", "tid": "11746800056691", "i_gameid": "1gm1746800056671", "i_gamedesc": "998:roulette", "i_action_id": "C11746800064112", "i_extparam": "TestExtParam123", "hmac": "3ff405d71c73def4847097dc9fd9a92a95dc977348caaf30dd09d0cec0459a7" }
> Recv:{ "error": "Invalid currency", "hmac": "370f66d7e0db3abcd96a055643bfca4ffee3cd74616bc7264aa74a0ebb24180e" }
> Time spent: 75ms
---- Request:balance ----
> Sent:{ "type": "balance", "userid": "62447203ee621", "currency": "USD", "i_gamedesc": "998:roulette", "i_extparam": "TestExtParam123", "hmac": "8486bd562aa3c900a9e2e4d525c06e0cd98b9a94ade0eceb176b67a880d97" }
> Recv:{ "error": "Invalid currency", "hmac": "370f66d7e0db3abcd96a055643bfca4ffee3cd74616bc7264aa74a0ebb24180e" }
> Time spent: 73ms

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "EUR", "amount": "0.50", "tid": "21746800056691", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_action_id": "C21746800064112", "i_extparam": "TestExtParam123", "hmac": "d6eebdf867eba433e406da22f9b66f7c58c3d03495b6a742ed5ee6b07c9abc66" }
> Recv:{ "error": "Invalid currency", "hmac": "370f66d7e0db3abcd96a055643bfca4ffee3cd74616bc7264aa74a0ebb24180e" }
> Time spent: 69ms
---- Request:balance ----
> Sent:{ "type": "balance", "userid": "6244721467851", "currency": "EUR", "i_gamedesc": "998:roulette", "i_extparam": "TestExtParam123", "hmac": "3af28a226c617fa1ae5b3f7ca6738875e328415bef14278974214f98d885e6a5" }
> Recv:{ "error": "Invalid currency", "hmac": "370f66d7e0db3abcd96a055643bfca4ffee3cd74616bc7264aa74a0ebb24180e" }
> Time spent: 69ms

[ Credit 0.51 (same TID) + wrong amount ]
---- Request:credit ----
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.51", "tid": "11746800056691", "i_gameid": "1gm1746800056671", "i_gamedesc": "998:roulette", "i_action_id": "C11746800064112", "i_extparam": "TestExtParam123", "hmac": "f7696484df42d5642dfcc9610e2e24e849ef1034af8dde4a112406b40b5543bc" }
> Recv:{ "error": "Transaction Failed", "balance": "3.40", "hmac": "55c7a53d511f487bce468254b668df76a89ed6950dbe7376ab48cde7eef05b04" }
> Time spent: 81ms

---- Request:credit ----
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.51", "tid": "21746800056691", "i_gameid": "2gm1746800056671", "i_gamedesc": "998:roulette", "i_action_id": "C21746800064112", "i_extparam": "TestExtParam123", "hmac": "7dbea90383a0945dfc9dd21438c5c06247b62a2490e28753df8a10bc5093cf3f" }
> Recv:{ "error": "Transaction Failed", "balance": "3.40", "hmac": "55c7a53d511f487bce468254b668df76a89ed6950dbe7376ab48cde7eef05b04" }
> Time spent: 88ms
```

```
[ Credit 0.50 (for debit of 0.10) with new tid, i_gameid and i_actionid - are the same ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.50","tid":11746800056692,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"C11746800064112","i_extparam":"TestExtParam123","hmac":"7c94b5a0476eab3637ce3adb44f8c0ec0738c0c8ae1d6fbde5d8c61b759b9778"}
> Recv:{"status":"OK","tid":11746800056692,"balance":"3.40","hmac":"d98d77f1ee4f0331a8675d37fcc8e6de3f4aa7e82885b069bc7c9c7e6f04948"}
> Time spent: 139ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.50","tid":21746800056692,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"C21746800064112","i_extparam":"TestExtParam123","hmac":"91200a893d758ca61e2833de87b2e9294775c39f12bf76467af0a2484a562168"}
> Recv:{"status":"OK","tid":21746800056692,"balance":"3.40","hmac":"4f11705eb854560e4cc68b078dcac2858d94fb92b773446a544d5f51f45a97ab"}
> Time spent: 131ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"62447203ee621","currency":"EUR","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"c62ae1ff243b0369fd6c5d5a263447f4cb782e5112e07293c22a3b8800b8dfa2"}
> Recv:{"status":"OK","balance":"3.40","hmac":"4215661ba7df5542753befdbe7c1c0bfbed46a3d9356298c3fa9e58ff1903889"}
> Time spent: 89ms

---- Request:balance ----
> Sent:{"type":"balance","userid":"6244721467851","currency":"USD","i_gamedesc":"998:roulette","i_extparam":"TestExtParam123","hmac":"2a91dbde95a9d4dde92eca75dd8e7428d0a8a0cf8a743fcacf9f11d1c03b7d323"}
> Recv:{"status":"OK","balance":"3.40","hmac":"4215661ba7df5542753befdbe7c1c0bfbed46a3d9356298c3fa9e58ff1903889"}
> Time spent: 81ms

[ Debit 0.15 ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.15","tid":11746800056693,"i_gameid":"1gm1746800056671","i_gamedesc":"998:roulette","i_actionid":"D11746800064114","i_extparam":"TestExtParam123","hmac":"668435ec412c4e270720a11e2b50ae96196ef65113adcd3a9e3ea207e2971e45"}
> Recv:{"status":"OK","tid":11746800056693,"balance":"3.25","hmac":"09afe0e3c64f0023cd79f6cbc06dfe3c659ba5baa183cb6e5614cd11eb712"}
> Time spent: 134ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.15","tid":21746800056693,"i_gameid":"2gm1746800056671","i_gamedesc":"998:roulette","i_actionid":
```

```

d": "D21746800064114", "i_extparam": "TestExtParam123", "hmac": "abe8476dcbb7b4b3548178b56
f18fdcdf16c5b6149ad64fec199a30c91141001"
> Recv: {"status": "OK", "tid": "21746800056693", "balance": "3.25", "hmac": "817e2fbb320edc07f
8d93d379b8ee2586eff5722377b0c66d9fc178328bc6997"
> Time spent: 146ms

[ Debit 0.50 ]
---- Request:debit ----
> Sent: {"type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.50", "tid
": "11746800056694", "i_gameid": "1gm1746800056672", "i_gamedesc": "998:roulette", "i_actioni
d": "D11746800064115", "i_extparam": "TestExtParam123", "hmac": "dad69e8fb1f843983c75bc793
9997adecd11e4dede90e99e7d52f8deb5eb76a"}
> Recv: {"status": "OK", "tid": "11746800056694", "balance": "2.75", "hmac": "2c1c83f2b7ae2f434
a9b95c3548a62dc781e0374887d385eb34f350fbe850716"
> Time spent: 147ms

---- Request:debit ----
> Sent: {"type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.50", "tid
": "21746800056694", "i_gameid": "2gm1746800056672", "i_gamedesc": "998:roulette", "i_actioni
d": "D21746800064115", "i_extparam": "TestExtParam123", "hmac": "7120e9b5652c146db569f4fb0
ecc3e375984c5c2a1cbcc8a98d80645ddcbfde3"}
> Recv: {"status": "OK", "tid": "21746800056694", "balance": "2.75", "hmac": "15481734b869bb675
655920cb11cce4c4138bad1d4f5c26c7873b5500964f0d6"
> Time spent: 145ms

[ Credit -0.50 (wrong amount) ]
---- Request:credit ----
> Sent: {"type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "-0.50", "t
id": "11746800056695", "i_gameid": "1gm1746800056672", "i_gamedesc": "998:roulette", "i_actio
nid": "C11746800064115", "i_extparam": "TestExtParam123", "hmac": "671e0e249c4d4ebe0144317
e13d9c3f9bdee6ce71799b34f3b7461f9f09f50d9"
> Recv: {"error": "Invalid parameters", "hmac": "b73765c580d9699bb58079d2f33378c4e9aa36de
dc241ac76abc1a0f859c9c52"
> Time spent: 74ms

---- Request:credit ----
> Sent: {"type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "-0.50", "t
id": "21746800056695", "i_gameid": "2gm1746800056672", "i_gamedesc": "998:roulette", "i_actio
nid": "C21746800064115", "i_extparam": "TestExtParam123", "hmac": "263be5d0f7a3c16138a22c7
971b9cde3ccaa7cf4516ba384842c067f63390459"
> Recv: {"error": "Invalid parameters", "hmac": "b73765c580d9699bb58079d2f33378c4e9aa36de
dc241ac76abc1a0f859c9c52"
> Time spent: 80ms

[ Debit 0.25 ]
---- Request:debit ----
> Sent: {"type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.25", "tid
": "11746800056696", "i_gameid": "1gm1746800056673", "i_gamedesc": "998:roulette", "i_actioni
d": "D11746800064115", "i_extparam": "TestExtParam123", "hmac": "dad69e8fb1f843983c75bc793
9997adecd11e4dede90e99e7d52f8deb5eb76a"}

```

```

d":"D11746800064116","i_extparam":"TestExtParam123","hmac":"bef13595f366742b8fdcf1ec4
8005d2218ff98a2be1f9b38101146cbacb8a93b"}
> Recv:{"status":"OK","tid":11746800056696,"balance":"2.50","hmac":"b18ae519c6ba541e6
b7a88a54a0a2734f0e2f77206302becd518a69b74c1acd1"}
> Time spent: 141ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.25","tid
":21746800056696,"i_gameid":"2gm1746800056673","i_gamedesc":"998:roulette","i_actioni
d":D21746800064116,"i_extparam":"TestExtParam123","hmac":e420559102652dc878311ff65
988c4048162a0332f8b2065fa0e298675483889}
> Recv:{"status":"OK","tid":21746800056696,"balance":"2.50","hmac":2d3b5a3928b015f89
69a2b634de72314bed6a70a3559fb8d486f1058b51bbf52"}
> Time spent: 133ms

[ Debit cancellation 0.25 ]
---- Request:credit ----
> Sent:{"type":"credit","userid":"62447203ee621","currency":"EUR","amount":"0.25","ti
d":11746800056697,"i_gameid":"1gm1746800056673","i_gamedesc":"998:roulette","subtype"
:"cancel","i_actionid":D11746800064116,"i_extparam":"TestExtParam123","hmac":d929c
bce5bcf08ab712f3fd59306d4df73459eaff01c1387a6bd697d2abc1990}
> Recv:{"status":"OK","tid":11746800056697,"balance":"2.75","hmac":bacecf43f3ff7632a
5e544f29f4d93f401cc94dbb6414ee2d6397abe037f110e"}
> Time spent: 139ms

---- Request:credit ----
> Sent:{"type":"credit","userid":"6244721467851","currency":"USD","amount":"0.25","ti
d":21746800056697,"i_gameid":"2gm1746800056673","i_gamedesc":"998:roulette","subtype"
:"cancel","i_actionid":D21746800064116,"i_extparam":"TestExtParam123","hmac":73270
d9f813e0545b3f766e5992641e5109ae05f9cbf2512adc12ae0887edc27}
> Recv:{"status":"OK","tid":21746800056697,"balance":"2.75","hmac":b15846a475570bd05
8c7b5d6611f165b76ae9ed00a9a3407374705f0b8b3dede"}
> Time spent: 142ms

[ Debit 0.25 ]
---- Request:debit ----
> Sent:{"type":"debit","userid":"62447203ee621","currency":"EUR","amount":"0.25","tid
":11746800056698,"i_gameid":1gm1746800056674,"i_gamedesc":998:roulette,"i_actioni
d":D11746800064117,"i_extparam":TestExtParam123,"hmac":f8bddb3719d2001ab23c9b784
340a2db2a70115340fc68caad957fb124116703}
> Recv:{"status":"OK","tid":11746800056698,"balance":"2.50","hmac":377835295a210abbe
cb114762c4f6b8434ace66f8cae9514f3cd821aa93c9d2e}
> Time spent: 184ms

---- Request:debit ----
> Sent:{"type":"debit","userid":"6244721467851","currency":"USD","amount":"0.25","tid
":21746800056698,"i_gameid":2gm1746800056674,"i_gamedesc":998:roulette,"i_actioni
d":D21746800064117,"i_extparam":TestExtParam123,"hmac":e0397af9ef0b10eed9ad3570e
24480a3633a089dfe05137c167c73b2db563a6e}
> Recv:{"status":"OK","tid":21746800056698,"balance":"2.50","hmac":a71fdc4351609f115
7adb8948bdc9d9416f7bf5b6a933a1454381b47b8d04c91"}

```

```
> Time spent: 153ms
```

```
[ Credit 0.50 ]
```

```
---- Request:credit ----
```

```
> Sent:{ "type": "credit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.50", "tid": "11746800056699", "i_gameid": "1gm1746800056674", "i_gamedesc": "998:roulette", "i_action_id": "C11746800064117", "i_extparam": "TestExtParam123", "hmac": "4680c57ecfbe3b961bea897976876c72010fc2cc1153e4802631b386b0085c97"}
```

```
> Recv:{ "status": "OK", "tid": "11746800056699", "balance": "3.00", "hmac": "84aa9d4f326b96fec a0b78ed26a3713959a96d2941e1f36bc7ebb66835c3a705"}
```

```
> Time spent: 152ms
```

```
---- Request:credit ----
```

```
> Sent:{ "type": "credit", "userid": "6244721467851", "currency": "USD", "amount": "0.50", "tid": "21746800056699", "i_gameid": "2gm1746800056674", "i_gamedesc": "998:roulette", "i_action_id": "C21746800064117", "i_extparam": "TestExtParam123", "hmac": "c629225faec3d0fe495e10a793c988e552b91ab778c3274ee440f83ab4611204"}
```

```
> Recv:{ "status": "OK", "tid": "21746800056699", "balance": "3.00", "hmac": "fcdca4622fef298edfa638985ad8d44f3f863125ac128c43e79fc249ecc5a127"}
```

```
> Time spent: 153ms
```

```
[ Credit cancellation 0.50 ]
```

```
---- Request:debit ----
```

```
> Sent:{ "type": "debit", "userid": "62447203ee621", "currency": "EUR", "amount": "0.50", "tid": "11746800056700", "i_gameid": "1gm1746800056674", "i_gamedesc": "998:roulette", "subtype": "cancel", "i_actionid": "C11746800064117", "i_extparam": "TestExtParam123", "hmac": "5989b6c2877487a7b1e02c3cd6bf53e0e744b781a77f27866f98816f16393894"}
```

```
> Recv:{ "status": "OK", "tid": "11746800056700", "balance": "2.50", "hmac": "b4ff41b5e04f27678b718f63631fc1b3e88fda6a99bbb81f16b0fa40ffe89117"}
```

```
> Time spent: 147ms
```

```
---- Request:debit ----
```

```
> Sent:{ "type": "debit", "userid": "6244721467851", "currency": "USD", "amount": "0.50", "tid": "21746800056700", "i_gameid": "2gm1746800056674", "i_gamedesc": "998:roulette", "subtype": "cancel", "i_actionid": "C21746800064117", "i_extparam": "TestExtParam123", "hmac": "39b63f4f8abd0c103b78bfafb02949721453d30c5299fc8f9de9274edd94ebb3"}
```

```
> Recv:{ "status": "OK", "tid": "21746800056700", "balance": "2.50", "hmac": "92033f3731e4a376d7a94255c2bd6ca7dc1da5c62e144e650431ea3675bb0e"}
```

```
> Time spent: 126ms
```

```
=====
```

```
==== OK ====
```