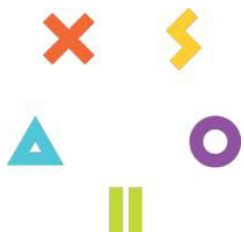

Cash
API Guide
Xsolla
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Chapter 1. API Characteristics

The Cash API enables your games to sell virtual goods and services. The Cash API offers the following benefits:

- **Players order directly from your game.** Players stay in your game and order payments directly from their game accounts, decreasing the possibility of making mistaken payments to the wrong account, and keeping players focused on your game.
- **You build custom packs of virtual goods and services.** You build the most convenient and advantageous packs of virtual services and goods tailored to the specific needs and desires of your users.
- **You control payment reconciliation.** When one of your users pays for a pack, we send in return to the game the exact and entire amount that the user paid. We send the exact amount received from the payment system, even if it is different than the price of the packs ordered. We don't stop the payment if it's less than order's amount and we don't give change if it's more. We let you control how to handle payments within your game.

Audience

This document is intended for developers who want to integrate the Xsolla Cash API into their websites, games, and applications. It assumes you are familiar with the basic concepts of APIs, HTTP request methods, and the [REST](#) style of software architecture.

Requirements for Your Application

Your application:

- Should accept HTTP or HTTPS requests from the following IP addresses: 94.103.26.178 and 94.103.26.181
- Must handle parameters passed by the GET method
- Must create a response in XML format in UTF-8
- Must perform data exchange in the request-response mode. Response must take up max. 60 seconds. Otherwise, connection will be terminated by timeout

Request Format

The Xsolla system sends you requests in HTTP or HTTPS URLs, for example:

```
https://test.project.com?&command=pay&id=7534545&v1=
ORD12345&v2=&v3=&amount=123.45&currency=USD&datetime=20110718225603&md5=
d3ec77cdbabe7cd2db0965887ca0e0f9
```

Each payment in the Xsolla system has a unique identifier which is passed to the developer via the **id** parameter. It is used to accomplish mutual settlement and matching.

In a payment request, the Xsolla system passes the payment date via the date parameter in the following format: YYYYMMDDHHMMSS. Date is used to accomplish mutual settlement and matching.

amount is a fractional number accurate to hundredths. “.” (point) is used as a separator.

In a payment request, the Xsolla system passes the payment date via the date parameter in the following format: YYYYMMDDHHMMSS. Date is used to accomplish mutual settlement and matching.

Response Format

Return your response to system requests in XML format in UTF-8, with the following structure:

```
<response>
  <result></result>
  <description></description>
  <fields>
    <id></id>
    <order></order>
    <amount></amount>
    <currency></currency>
    <datetime></datetime>
    <sign></sign>
  </fields>
</response>
```

Your database must not contain two successfully processed payments with the same id. If the system repeats a request with an id already existing in your database, then your application must return the processing result of the previous request.

Result Codes

Code	Description
0	Success
10	Repeat notification about the order execution
20	Incorrect order ID
30	Temporary error (the notification must be repeated)
40	Fatal error (it is necessary to inform the project about the error)

Chapter 2. Balance Increase Request

pay

In each successful transactional event, Xsolla server will send the transaction details to developer's Payment Script URL. This is specified in your project details at Xsolla Merchant Account. Transaction details are sent by GET method and contain the parameters listed below.

Request Parameters

Field Name	Type	Description	Required?	Example
command	String	For the balance increase request, the value must be pay	Yes	
id	String	Order ID in Xsolla system. Your database must not contain two transactions with the same ID. If the system sends a repeated request with an existing ID, the your payment application must return the result for the previous request.	Yes	7555545
v1	String	The user ID that is unique to your platform. Length limit is 255 characters.	Yes	ORD12345
v2	String	Additional ID parameter. Length limit is 200 characters.	No	0
v3	String	Additional ID parameter. Length limit is 100 characters.	No	0

Field Name	Type	Description	Required?	Example
amount	Float	Sum of payment made by the user. amount is a fraction with an accuracy of a hundredth. A point '.' is used as a separation symbol (example - 208.59).	Yes	123.45
currency	string	Order currency	Yes	RUR
datetime	String	Date in the following format YYYYMMDDHHMMSS	Yes	20110718225603
test	Integer	Value of test payment (could be test=1, test=0). 1 means test transactions was made. Payments to not occur for test transactions.	No	1
bonus	String	Promotional campaign is a secret word supplied by your account manager*	No	bonussum
md5	String	The string for unsanctioned access prevention	Yes	7c0a367c3f903d75d 782f9e031d6623bfafec5e51045d05c

* You can always find out more information about promotional campaigns from your Xsolla account manager.

Generating the md5 Signature

The signature is required for payment processing security. It is generated with an md5 hash algorithm from the string that is derived by concatenating the parameters specified below.

```
md5(<v1><amount><currency><id><secret_key>)
```

secret_key is the secret word that you chose for your Personal Account.

Example

Sign generation with id **7555545**, ID order **ORD12345**, for a project with secret key **test**, is as follows:

```
$md5string='ORD12345123.45USD7555545test';
$signature=md5('ORD12345123.45USD7555545test');
```



```
d3ecd4cdbabe7cd2db0965887ca0e0f9
```

In response to our system's request, your payment application should generate an XML-answer in UTF-8. It includes all the parameters, sent in the GET-request from our system:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <result>0</result>
  <description>Success</description>
  <fields>
    <id>7555545</id>
    <order>ORD12345</order>
    <amount>123.45</amount>
    <currency>USD</currency>
    <datetime>20110718225603</datetime>
    <sign>d3ecd4cdbabe7cd2db0965887ca0e0f9</sign>
  </fields>
</response>
```

If balance increase was not successful:

```
<?xml version="1.0" encoding="UTF-8"?>
<response>
  <result>30</result>
  <description>Temporary error</description>
</response>
```

Result Field Values

Code	Description
0	Success
10	Repeat notification about the order execution
20	Incorrect order ID
30	Temporary error (the notification must be repeated)
40	Fatal error (it is necessary to inform the project about the error)

Important! In case of request retry for a transaction that has already been successfully processed, your payment application should generate an XML as if the request were accepted for the first time. **amount** of the first transaction must be passed in.

Chapter 3. Roll-Back Request

cancel

This function is optional. Your Xsolla account manager can advise you on whether you need to implement payment roll-back. Our server sends payment details for roll-back to the Payment Script URL specified in the project details of your Xsolla Merchant Account. Payment details are sent by GET method and contain the parameters listed below.

Request Parameters

Field Name	Type	Description	Required?	Example
command	String	Requests payment roll-back	Yes	cancel
id	String	Order ID in Xsolla system passed via <i>id</i> parameter of <i>pay</i> request	Yes	7555545
md5	String	The string for unsanctioned access prevention	Yes	7c0a367c3f903d75d782f9e031d6623b

Generating the md5 Signature

The signature is required for payment processing security. It is generated with an md5 hash algorithm from the string that is derived by concatenating the parameters specified below.

```
md5(<command><id><secret_key>)
```

secret_key is the secret word that you chosen for your Personal Account.

Example

The string for signature computing contains the following parameters:

```
secret key = "test"
id = "7555545"
command = "cancel"
```

The string before applying MD5 hash would be:

cancel7555545test

MD5 hash of this string would be

15f928750accd96cd14faf62d5b588db

As a response to this request, your payment application should generate one of the following responses in XML:

If payment roll-back was successful:

```
<response>
  <result>0</result>
</response>
```

If payment roll-back was not successful:

```
<response>
  <result>2</result>
  <comment>this payment ID does not exist</comment>
</response>
```

Result Field Values

Result	Description
0	Payment indicated in the request was successfully cancelled
2	Payment indicated in the request was not found
7	Payment indicated in the request cannot be cancelled