Online API

Version 2.0.3

Introduction

The requests are made with the help of POST (payment method) and GET (reference method). Request body – is a JSON document.

Options of response HTTP statuses

HTTP status	Description
200 OK	Request is accepted and successfully processed
400 BadRequest	Request is not accepted for processing. Possible reasons: ● JSON parsing syntax error; ● missing mandatory fields or incorrect their values.
401 Unauthorized	Client authentication error: ● missing or incorrect header Authorization.
403 Forbidden	Forbidden operation
500 Internal Server Error	General technical error

Authentication

Basic http-authentication according to unique identifier and merchant key is used.

Example of request header

Authorization: Basic base64_str

where base64_str=base64(mid + ":" + mid_key)

Respond format

General parameters of respond

The respond is a json-document, containing the following fields.

Field	Type	Description	Mandate
status	string, enum of (success, error)	Request execution status: ● success – successfully processed ● error – an error occurred	+
result	Object	Request execution result	+ (status=success) - (status=error)
errors	Array of errors	Request processing errors.	+ (status=error) - (status=success)

Error parameters

Field	Type	Description	Mandate
code	string, enum	Error code	+
description	string{50}	Error description	-
parameterName	string{50}	Name of parameter, containing error	-

Example of respond with request processing errors

```json
{
"status": "error",
"errors": [
  {
    "code": "IllegalParameter",
    "parameterName": "bankId"
  },
  {
    "code": "MissingRequiredParameter",
     "description": "Missing required parameter"
  }
]
}
```

Example of successful request processing respond

```json
{
"status": "success",
"result": {
  "status": "created",
  "id": "321654987",
  "location": {
    "uri": "https://address/path/",
    "parameters": [
      {
        "name": "param1",
        "value": "value1"
      },
      {
        "name": "param2",
        "value": "value2"
      }
    ]
  }
}
}
```

Payment acceptance (pay-in)

Pay-in onlinebanking

POST /api2/payin/onlinebanking

Request parameters

Field	Type	Description	Mandate
bankId	string{4}	Bank identifier (appendix C)	+
order		Ordering information	+
order.moid	string{36}	Order identifier on the merchant side	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
endUser		Final beneficiary	+
endUser.firstName	string{50}	Name	+
endUser.lastName	string{50}	Surname	+
endUser.phone	string{15}	Telephone number	+
endUser.email	string{50}	E-mail	+
endUser.ipAddress	string{15}	IP-address	+
endUser.billingAddress		Payment address	+

endUser.billingAddress.zipCode	string{10}	ZIP code	+
endUser.billingAddress.country	string{2}	Country, format: ISO-3166-1-alpha-2.	+
endUser.billingAddress.city	string{50}	City	+
endUser.billingAddress.line1	string{50}	Street address	+
notifyUrl	string{256}	Merchant service operation notification address	+
returnUrl	string{256}	Merchant user interface address for client return upon operation execution (see Appendix F)	-
additionalParameters	additional parameters, array	Additional parameters	-
additionalParameters.name	string{50}	Additional parameter name	+
additionalParameters.value	string{50}	Additional parameter value	+

Example of request

```
curl https://serveraddress:443/api2/payin/onlinebanking \
 -X POST \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
 -H 'Content-Type: application/json' \
 -d '{
"bankId": "1",
"order": {
  "moid": "663774",
  "amount": {
```

```
        "value": "10050",
        "currency": "CNY"
      }
    },
    "endUser": {
      "firstName": "Nik",
      "lastName": "Nolte",
      "phone": "3 543 777 9870",
      "email": "endUser@example.com",
      "ipAddress": "222.222.222.222",
      "billingAddress": {
        "zipCode": "10101",
        "country": "CN",
        "city": "New York",
        "line1": "123 Broadway Street, Apt.10"
      }
    },
    "notifyUrl": "https://www.example.com/notify/",
    "returnUrl": "https://www.example.com/return/",
    "additionalParameters": [
      {
        "name": "name1",
        "value": "value1"
      },
      {
        "name": "name2",
        "value": "value2"
      }
    ]
  }'
```

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (Appendix A)	+
order.id	string{36}	Operation identifier	+

location		Redirect data. Redirect is performed only with the help of POST method	-
location.uri	string{50}	Payment redirect address	+
location.parameters	Array of object "parameter"	Array of objects name-value	+
location.parameters.parameter.name	string{50}	Name	+
location.parameters.parameter.value	string{50}	Value	+

Example of respond

```json
{
"status": "success",
"result": {
  "order": {
      "status": "processing",
      "id": "f33dd-df23-fdsdv-324234"
  },
  "location": {
    "uri": "https://gateway.example.com/api2/2/payin/result",
    "parameters": [
      {
        "name": "amount",
        "value": "100.5"
      },
      {
        "name": "bankAccountNumber",
        "value": "6217856400017630250"
      },
      {
        "name": "bankName",
        "value": "中国银行"
      },
      {
        "name": "payeeName",
```

```
      "value": "王远"
    },
    {
      "name": "transferNote",
      "value": "41537100"
    }
  ]
 }
}
}
```

Pay-in onlinebanking status

Hereafter, at any point, there may be requested the operation status payin/onlinebanking

```
curl https://serveraddress:443/api2/payin/onlinebanking/status/<id> \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (Appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.actualAmount		Actual payment amount	+

order.actualAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.actualAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-

Example of respond

```
{
"status": "success",
"result": {
  "order": {
    "status": "done",
    "id": "f33dd-df23-fdsdv-324234",
    "moid": "1231123244412123",
    "amount": {
      "value": "10050",
      "currency": "CNY"
    },
    "actualAmount": {
      "value": "10050",
      "currency": "CNY"
    },
    "createdDateTime": "2017-10-23 14:36:21",
    "authorizationDateTime": "2017-10-23 14:46:21"
  }
}
}
```

Pay-in onlinebanking notification

Upon operation processing, notification is sent to the specified notifyUrl.

There are several attempts of notification delivery up to reception of final status in respond or up to maximal number of notification delivery attempts exceedance.

Request parameters

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (Appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.actualAmount		Actual payment amount	+
order.actualAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.actualAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-

Example of request

```
curl https://merchantaddress:443/notify \
 -X POST \
 -H 'Content-Type: application/json' \
 -d '{
"order": {
  "status":  "done",
  "id": "1234rf23rdfw33",
  "moid": "1231123244412123",
  "amount": {
    "value": "10050",
    "currency": "CNY"
  },
  "actualAmount": {
    "value": "10050",
    "currency": "CNY"
  },
  "createdDateTime": "2017-10-23 14:36:21",
  "authorizationDateTime": "2017-10-23 14:46:21"
}
}
'
```

Respond parameters

Field	Type	Description	Mandate
status	Fixed value: "success"	Notification acceptance success flag	+

Example of respond

```
{
"status": "success"
}
```

Pay-in p2p with redirect to the payment service page

```
POST /api2/payin/p2p
Request header:
-H 'Authorization': Basic 351a5f52bdbddbd6c028d3159a43c365'
```

Request parameters

Field	Type	Description	Mandate
order		Ordering information	+
order.moid	string{36}	Order identifier on the merchant side	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
endUser		Final beneficiary	+
endUser.firstName	string{50}	Name	+
endUser.lastName	string{50}	Surname	+
endUser.phone	string{15}	Telephone number	+
endUser.email	string{50}	E-mail	+
endUser.ipAddress	string{15}	IP-address	+
endUser.billingAddress		Payment address	+
endUser.billingAddress.zipCode	string{10}	ZIP code	+

endUser.billingAddress.country	string{2}	Country, format: ISO-3166-1-alpha-2.	+
endUser.billingAddress.city	string{50}	City	+
endUser.billingAddress.line1	string{50}	Street address	+
notifyUrl	string{256}	Merchant operation notification address	+
returnUrl	string{256}	Merchant user interface address for client return upon operation execution (see Appendix F)	-
additionalParameters	additional parameters, array	Additional parameters	-
additionalParameters.name	string{50}	Additional parameter name	+
additionalParameters.value	string{50}	Additional parameter value	+

Example of request

```
curl https://serveraddress:443/api2/payin/p2p \
 -X POST \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
 -H 'Content-Type: application/json' \
 -d '{
"order": {
  "moid": "663774",
  "amount": {
    "value": "10050",
    "currency": "CNY"
  }
},
```

```
"endUser": {
  "firstName": "Nik",
  "lastName": "Nolte",
  "phone": "3 543 777 9870",
  "email": "endUser@example.com",
  "ipAddress": "222.222.222.222",
  "billingAddress": {
    "zipCode": "10101",
    "country": "CN",
    "city": "New York",
    "line1": "123 Broadway Street, Apt.10"
  }
},
"notifyUrl": "https://www.example.com/notify/",
"returnUrl": "https://www.example.com/return/",
"additionalParameters": [
  {
    "name": "name1",
    "value": "value1"
  },
  {
    "name": "name2",
    "value": "value2"
  }
]
}'
```

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.id	string{36}	Operation identifier	+
location		Redirect data. Redirect is performed only with the help of POST method	-

location.uri	string{50}	Payment redirect address	+
location.parameters	Array of object "parameter"	Array of objects name-value	+
location.parameters.parameter.name	string{50}	Name	+
location.parameters.parameter.value	string{50}	Value	+

Example of respond

```json
{
"status": "success",
"result": {
  "order": {
      "status": "processing",
      "id": "f33dd-df23-fdsdv-324234"
  },
  "location": {
    "uri": "https://gateway.example.com/api2/2/payin/result",
    "parameters": [
      {
        "name": "amount",
        "value": "100.5"
      },
      {
        "name": "bankAccountNumber",
        "value": "6217856400017630250"
      },
      {
        "name": "bankName",
        "value": "中国银行"
      },
      {
        "name": "payeeName",
        "value": "王远"
      },
      {
        "name": "transferNote",
        "value": "41537100"
      }
```

```
        ]
    }
}
}
```

Pay-in p2p status

Hereafter, at any point, there may be requested the operation status payin/p2p

```
curl https://serveraddress:443/api2/payin/p2p/status/<id> \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

where id - order identifier in our system,

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.actualAmount		Actual payment amount	+
order.actualAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.actualAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+

order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-
adjustmentTicketId	string{36}	Ticket identifier at transaction adjustment	-

Example of respond

```
{
"status": "success",
"result": {
  "order": {
    "status": "done",
    "id": "f33dd-df23-fdsdv-324234",
    "moid": "1231123244412123",
    "amount": {
      "value": "10050",
      "currency": "CNY"
    },
    "actualAmount": {
      "value": "10050",
      "currency": "CNY"
    },
    "createdDateTime": "2017-10-23 14:36:21",
    "authorizationDateTime": "2017-10-23 14:46:21"
  },
  "adjustmentTicketId": "123"
}
}
```

Pay-in p2p notification

Upon operation processing, notification is sent to the specified notifyUrl.

There are several attempts of notification delivery up to reception of final status in respond or up to maximal number of notification delivery attempts exceedance.

Request parameters

Field	Type	Description	Mandate
order		Ordering information	+

order.status	string, enum	Operation status (appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.actualAmount		Actual payment amount	+
order.actualAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.actualAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-

Example of request

```
curl https://merchantaddress:443/notify \
 -X POST \
 -H 'Content-Type: application/json' \
 -d '{
"order": {
  "status":  "done",
  "id": "1234rf23rdfw33",
  "moid": "1231123244412123",
```

```
  "amount": {
    "value": "10050",
    "currency": "CNY"
  },
  "actualAmount": {
    "value": "10050",
    "currency": "CNY"
  },
  "createdDateTime": "2017-10-23 14:36:21",
  "authorizationDateTime": "2017-10-23 14:46:21"
}
}
```

Respond parameters

Field	Type	Description	Mandate
status	Fixed value: "success"	Notification acceptance success flag	+

Example of respond

```
{
"status": "success"
}
```

Pay-in p2p without redirect

POST /api2/payin/p2p/direct

Request header:

-H 'Authorization': Basic 351a5f52bdbddbd6c028d3159a43c365'

Request parameters

Field	Type	Description	Mandate
order		Ordering information	+
order.moid	string{36}	Order identifier on the merchant side	+
order.amount		Payment amount	+

order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
endUser		Final beneficiary	+
endUser.firstName	string{50}	Name	+
endUser.lastName	string{50}	Surname	+
endUser.phone	string{15}	Telephone number	+
endUser.email	string{50}	E-mail	+
endUser.ipAddress	string{15}	IP-address	+
endUser.billingAddress		Payment address	+
endUser.billingAddress.zipCode	string{10}	ZIP code	+
endUser.billingAddress.country	string{2}	Country, format: ISO-3166-1-alpha-2.	+
endUser.billingAddress.city	string{50}	City	+
endUser.billingAddress.line1	string{50}	Street address	+
notifyUrl	string{256}	Merchant service operation notification address	+
returnUrl	string{256}	Merchant user interface address for client return upon operation execution (see Appendix F)	-

additionalParameters	additional parameters, array	Additional parameters	-
additionalParameters.name	string{50}	Additional parameter name	+
additionalParameters.value	string{50}	Additional parameter value	+

Example of request:

```
curl https://serveraddress:443/api2/payin/p2p/direct \
 -X POST \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
 -H 'Content-Type: application/json' \
 -d '{
"order": {
  "moid": "663774",
  "amount": {
    "value": "10050",
    "currency": "CNY"
  }
},
"endUser": {
  "firstName": "Nik",
  "lastName": "Nolte",
  "phone": "3 543 777 9870",
  "email": "endUser@example.com",
  "ipAddress": "222.222.222.222",
  "billingAddress": {
    "zipCode": "10101",
    "country": "CN",
    "city": "New York",
    "line1": "123 Broadway Street, Apt.10"
  }
},
"notifyUrl": "https://www.example.com/notify/",
"returnUrl": "https://www.example.com/return/",
"additionalParameters": [
  {
    "name": "name1",
```

```
      "value": "value1"
    },
    {
      "name": "name2",
      "value": "value2"
    }
  ]
}'
```

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.id	string{36}	Operation identifier	+
payment		Details for p2p payment	
payment.parameters	Array of object "parameter"	Array of objects name-value	+
payment.parameters.parameter.name	string{50}	Name	+
payment.parameters.parameter.value	string{50}	Value	+
payment.parameters.parameter.description	string{100}	Parameter description	-

Example of respond

```
{
"status": "success",
"result": {
  "order": {
      "status": "processing",
      "id": "f33dd-df23-fdsdv-324234"
  },
```

```json
    "payment": {
      "parameters": [
        {
          "name": "amount",
          "value": "100.5"
        },
        {
          "name": "bankAccountNumber",
          "value": "6217856400017630250"
        },
        {
          "name": "bankName",
          "value": "中国银行"
        },
        {
          "name": "payeeName",
          "value": "王远"
        },
        {
          "name": "transferNote",
          "value": "41537100"
        }
      ]
    }
  }
}
```

Pay-in p2p direct status

Hereafter, at any point, there may be requested the operation status payin/p2p

```
curl https://serveraddress:443/api2/payin/p2p/direct/status/<id> \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

where id - order identifier in our system.

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+

order.status	string, enum	Operation status (appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.actualAmount		Actual payment amount	+
order.actualAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.actualAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-
adjustmentTicketId	string{36}	Ticket identifier at transaction adjustment	-

Example of respond

```
{
"status": "success",
"result": {
  "order": {
    "status": "done",
```

```
    "id": "f33dd-df23-fdsdv-324234",
    "moid": "1231123244412123",
    "amount": {
      "value": "10050",
      "currency": "CNY"
    },
    "actualAmount": {
      "value": "10050",
      "currency": "CNY"
    },
    "createdDateTime": "2017-10-23 14:36:21",
    "authorizationDateTime": "2017-10-23 14:46:21"
  }
 }
 }
```

Pay-in p2p direct notification

Upon operation processing, notification is sent to the specified notifyUrl.

There are several attempts of notification delivery up to reception of final status in respond or up to maximal number of notification delivery attempts exceedance.

Request parameters

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.actualAmount		Actual payment amount	+

order.actualAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.actualAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-

Example of request

```
curl https://merchantaddress:443/notify \
 -X POST \
 -H 'Content-Type: application/json' \
 -d '{
"order": {
  "status":  "done",
  "id": "1234rf23rdfw33",
  "moid": "1231123244412123",
  "amount": {
    "value": "10050",
    "currency": "CNY"
  },
  "actualAmount": {
    "value": "10050",
    "currency": "CNY"
  },
  "createdDateTime": "2017-10-23 14:36:21",
  "authorizationDateTime": "2017-10-23 14:46:21"
}
}
'
```

Respond parameters

Field	Type	Description	Mandate
status	Fixed value: "success"	Notification acceptance success flag	+

Example of respond

```
{
"status": "success"
}
```

p2p transaction adjustment

POST /api2/payin/p2p/adjustment

Request header:

-H 'Authorization': Basic 351a5f52bdbddbd6c028d3159a43c365'

Request parameters

Field	Type	Description	Mandate
orderId	string{36}	Order identifier on the merchant side	+
image	jpg, jpeg, png (20MB max)	Payment confirmation screenshot	+

Example of request:

```
curl https://serveraddress:443/api2/payin/p2p/adjustment \
 -X POST \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
 -H 'Content-Type: multipart/form-data' \
- F 'orderId=1223'
 -F 'image=@data.jpg'
```

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.id	string{36}	Operation identifier	+

payment		Details for p2p payment	
adjustmentTicketId	string{36}	Ticket identifier at transaction adjustment	+

Example of respond

```
{
"status": "success",
"result": {
  "order": {
      "status": "adjustment",
      "id": "f33dd-df23-fdsdv-324234"
  },
  "adjustmentTicketId": "123"
}
```

Out payments (pay-out)

Payot banktransfer

POST /api2/payout/banktransfer

Request header:

-H 'Authorization': Basic 351a5f52bdbddbd6c028d3159a43c365'

Request parameters

Field	Type	Description	Mandate
order		Ordering information	
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+

order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
bank		Bank information	
bank.id	string{4}	Appendix C	+
bank.branch	string{50}	Address of the account-opening branch	+
bank.accountName	string{50}	Customer name in Simplified Chinese	+
bank.cardNumber	string{20}	Withdrawal bank card Number	+
bank.province	number{6}, enum	Appendix D	+
bank.area	number{6}, enum	Appendix E	+
additionalParameters	additional parameters, array	Additional parameters	-
additionalParameters.name	string{50}	Additional parameter name	+
additionalParameters.value	string{50}	Additional parameter value	+
notifyUrl	string{256}	Merchant service operation notification address	+

Example of request

```
{
"order": {
  "moid": "1231123244412123",
  "amount": {
    "value": 1222,
```

```json
      "currency": "CNY"
    }
  },
  "notifyUrl": "https://185.117.73.231:8443/notify",
  "bank": {
    "id": "1",
    "branch": "广东分行广州北京路支行",
    "accountName": "何国荣",
    "cardNumber": "12345678901234567890",
    "province": 230000,
    "area": 110100
  },
  "additionalParameters": [
    {
      "name": "name1",
      "value": "value1"
    },
    {
      "name": "name2",
      "value": "value2"
    }
  ]
}
```

Respond parameters

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.id	string{36}	Operation identifier	+
location.uri	string{50}	Pay-out redirect address. Redirect is performed only with the help of POST method	-
location.parameters	Array of object "parameter"	Array of objects name-value	+
location.parameters.parameter.name	string{50}	Name	+
location.parameters.parameter.value	string{50}	Value	+

Example of respond

```
{
"status": "success",
"result": {
  "order": {
      "status": "processing",
      "id": "f33dd-df23-fdsdv-324234"
  },
  "location": {
    "uri": "https://gateway.example.com/api2/2/payout/result",
    "parameters": [
      {
        "name": "amount",
        "value": "100.5"
      },
      {
```

```
      "name": "bankAccountNumber",
      "value": "6217856400017630250"
    },
    {
      "name": "bankName",
      "value": "中国银行"
    },
    {
      "name": "payeeName",
      "value": "王远"
    },
    {
      "name": "transferNote",
      "value": "41537100"
    }
  ]
 }
}
}
```

Pay-out banktransfer status

Hereafter, at any point, there may be requested the operation status payout/banktransfer

```
curl https://serveraddress:443/api2/payout/banktransfer/status/<id> \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

where id - order identifier in our system.

Result field parameters in respond

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+

order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-

Example of respond

```
{
"status": "success",
"result": {
  "order": {
      "status": "done",
      "id": "f33dd-df23-fdsdv-324234",
      "moid": "1231123244412123",
      "amount": {
        "value": "10050",
         "currency": "CNY"
      },
      "createdDateTime": "2017-10-23 14:36:21",
      "authorizationDateTime": "2017-10-23 14:46:21"
  }
}
}
```

Pay-out banktransfer notification

Upon operation processing, notification is sent to the specified notifyUrl.

There are several attempts of notification delivery up to reception of final status in respond or up to maximal number of notification delivery attempts exceedance.

Request parameters

Field	Type	Description	Mandate
order		Ordering information	+
order.status	string, enum	Operation status (appendix A)	+
order.moid	string{36}	Merchant order id	+
order.amount		Payment amount	+
order.amount.value	number(10)	Payment amount numerical value in minor units of currency	+
order.amount.currency	string{3}	Payment amount currency, format: ISO-4217	+
order.createdDateTime	string{20}	Payment creation date in format "yyyy-MM-dd HH:mi:ss"	+
order.id	string{36}	Order identifier	+
order.authorizationDateTime	string{20}	Payment authorization date in format "yyyy-MM-dd HH:mi:ss"	-

Example of request

```
curl https://merchantaddress:443/notify \
 -X POST \
 -H 'Content-Type: application/json' \
 -d '{
"order": {
  "status":  "done",
  "id": "1234rf23rdfw33",
  "moid": "1231123244412123",
  "amount": {
    "value": "10050",
    "currency": "CNY"
  },
  "createdDateTime": "2017-10-23 14:36:21",
```

```
    "authorizationDateTime": "2017-10-23 14:46:21"
}
}'
```

Respond parameters

Field	Type	Description	Mandate
status	Fixed value: "success"	Notification acceptance success flag	+

Example of respond

```
{
"status": "success"
}
```

Pay-in transactions list request

POST /api2/payin/<payment method>/list

Request header:

-H 'Authorization': Basic 351a5f52bdbddbd6c028d3159a43c365'

Request parameters

Field	Type	Description	Mandate
dateTimeInterval		Time interval, for which you need to obtain data. (Should not exceed one month)	+
dateTimeInterval.startInclusive	string{36}	Time interval start	+
dateTimeInterval.endExclusive	string{36}	Time interval end	+
lastMark	string{10}	Order identifier, before which the data will not be given	-

limit	string{4}	Maximum number of orders in return respond (max - 1000)	+
statuses	Array of object order statuses (Appendix A)	Order statuses	+

Example of request:

```
curl https://serveraddress:443/api2/payin/list \
 -X POST \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
 -H 'Content-Type: application/json' \
 -d '{
 "dateTimeInterval": {
   "endExclusive": "2018-07-02T10:15:30",
   "startInclusive": "2018-06-11T10:15:30"
 },
 "lastMark": "12",
 "limit": "555",
 "statuses": [
   "created",
   "processing"
 ]
}'
```

Result field parameters in respond

Field	Type	Description	Mandate
orders	Array of object 'order'	Array of objects of type 'order'	+
orders.order.status	string, enum	Operation status (appendix A)	+
orders.order.id	string{36}	Operation identifier	+
orders.order.moid	string{36}	Operation identifier on	

		merchant side	
orders.order.bank	string{4}	Bank identifier	+
orders.order.netAmount		Deposit amount	+
orders.order.netAmount.value	number(10)	Payment amount numerical value in minor units of currency	+
orders.order.netAmount.currency	string{3}	Payment amount currency, format: ISO-4217	+
orders.order.totalAmount		deposit amount with commission	+
orders.order.totalAmount.value	number(10)	Deposit numerical value in minor units of currency	+
orders.order.totalAmount.currency	string{3}	Deposit currency, format: ISO-4217	+
orders.order.createdDateTime	string{36}	Order creation date	+
orders.order.additionalParameters	additional parameters , array	Additional parameters	-
orders.order.additionalParameters.name	string{50}	Additional parameter name	+

orders.order.additionalParameters.value	string{50}	Additional parameter value	+
lastMark	string{10}	Identifier of payment, before which the data are given	+

Example of respond

```
{
 "status": "success",
 "result": {
   "orders": [
     {
       "status": "created",
       "id": "15",
       "moid": "order111",
       "bank": "ABC",
       "netAmount": {
         "value": "118",
         "currency": "CNY"
       },
       "totalAmount": {
         "value": "100",
         "currency": "CNY"
       },
       "createdDateTime": "2018-06-13T10:13:13",
       "additionalParameters": [
         {
           "name": "param1",
           "value": "value1"
         },
         {
           "name": "param2",
           "value": "value2"
         }
       ]
     },
     {
       "status": "done",
```

```json
      "id": "23",
      "moid": "order207",
      "bank": "ABC",
      "merchantAmount": {
        "value": "428",
        "currency": "CNY"
      },
      "totalAmount": {
        "value": "401",
        "currency": "CNY"
      },
      "createdDateTime": "2018-07-01T22:39:55",
      "authorizationDateTime": "2018-07-02T22:39:55"
    }
  ],
  "lastMark": "23"
 }
}
```

Pay-out transactions list request

POST /api2/payout/<payout method>/list

Request header:

-H 'Authorization': Basic 351a5f52bdbddbd6c028d3159a43c365'

Request parameters

Field	Type	Description	Mandate
dateTimeInterval		Time interval, for which you need to obtain data (Should not exceed one month)	+
dateTimeInterval.startInclusive	string{36}	Time interval start	+
dateTimeInterval.endExclusive	string{36}	Time interval end	+

lastMark	string{10}	Order identifier, before which the data will not be given	-
limit	string{4}	Maximum number of orders in return respond (max - 1000)	+
statuses	Array of object order statuses (Appendix A)	Order statuses	+

Example of request

```
curl https://serveraddress:443/api2/payout/list \
 -X POST \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
 -H 'Content-Type: application/json' \
 -d '{
 "dateTimeInterval": {
   "endExclusive": "2018-07-02T10:15:30",
   "startInclusive": "2018-06-11T10:15:30"
 },
 "lastMark": "12",
 "limit": "555",
 "statuses": [
   "created",
   "processing"
 ]
}'
```

Result field parameters in respond

Field	Type	Description	Mandate
orders	Array of object 'order'	Array of objects of type 'order'	+
orders.order.status	string, enum	Operation status (appendix A)	+

orders.order.id	string{36}	Operation identifier	+
orders.order.moid	string{36}	Operation identifier on merchant side	
orders.order.bank	string{4}	Bank identifier	+
orders.order.payoutAmount		Pay-out amount	+
orders.order.payoutAmount.value	number(10)	Pay-out numerical value in minor units of currency	+
orders.order.payoutAmount.currency	string{3}	Pay-out amount currency, format: ISO-4217	+
orders.order.totalAmount		Pay-out amount less commission	+
orders.order.totalAmount.value	number(10)	Pay-out numerical value in minor units of currency	+
orders.order.totalAmount.currency	string{3}	Pay-out amount currency, format: ISO-4217	+
orders.order.createdDateTime	string{36}	Order creation time	+
orders.order.additionalParameters	additional parameters, array	Additional parameters	-

orders.order.additionalParameters.name	string{50}	Additional parameter name	+
orders.order.additionalParameters.value	string{50}	Additional parameter value	+
lastMark	string{10}	Identifier of payment, before which the data are given	+

Example of respond

```json
{
 "status": "success",
 "result": {
   "orders": [
     {
       "status": "created",
       "id": "15",
       "moid": "order111",
       "bank": "ABC",
       "payoutAmount": {
         "value": "118",
         "currency": "CNY"
       },
       "totalAmount": {
         "value": "100",
         "currency": "CNY"
       },
       "createdDateTime": "2018-06-13T10:13:13",
       "additionalParameters": [
         {
           "name": "param1",
           "value": "value1"
         },
         {
           "name": "param2",
           "value": "value2"
         }
```

```json
        ]
      },
      {
        "status": "done",
        "id": "23",
        "moid": "order207",
        "bank": "ABC",
        "merchantAmount": {
          "value": "428",
          "currency": "CNY"
        },
        "totalAmount": {
          "value": "401",
          "currency": "CNY"
        },
        "createdDateTime": "2018-07-01T22:39:55",
        "authorizationDateTime": "2018-07-02T22:39:55"
      }
    ],
    "lastMark": "23"
  }
}
```

Pay-out banktransfer balance

```
curl https://serveraddress:443/api2/payout/balance/<currencyCode>/ \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

where currencyCode – is the balance currency, format: ISO-4217.

Result field parameters in respond

Field	Type	Description	Mandate
balance		Amount available for pay-outs	+
balance.value	number(10)	Balance numerical value in minor units of currency	+
balance.currency	string{3}	Balance currency, format: ISO-4217	+

Example of respond

```json
{
 "status": "success",
 "result": {
   "balance": {
     "value": "6362",
     "currency": "CNY"
   }
 }
}
```

Appendix A

Order status codes

created	Created
processing	Processing
done	Done
rejected	Rejected
refunded	Refunded
adjustment	Order is sent for adjustment

Appendix B

Error codes

HTTP-status	Error code	Description
200	ProviderNotAvailable	Provider is not available
200	BankNotAvailable	Bank is not available
200	MinAmountLimit	Amount is less than minimal limit
200	MaxAmountLimit	Amount is more than maximal limit
200	DailyLimit	Daily limit is exceeded
200	LocalLimit	Local limit is exceeded
200	AdjustmentNotAvialible	Adjustment is not available
400	MissingRequiredParameter	Mandatory parameter is missing
400	IllegalParameter	Parameter has invalid value
400	OrderDuplication	Order with such number already exists
401	MissingRequiredHeader	Mandatory header is missing
401	IllegalHeader	Header field has invalid value
403	OperationForbidden	Forbidden operation for this merchant
500	TechnicalError	Technical error. The request may equiprobably be executed and not executed.

Example of failure respond #1

```json
{
"status": "error",
"errors": [
  {
    "code": "IllegalParameter",
    "parameterName": "bankId"
  },
```

```
  {
    "code": "MissingRequiredParameter",
    "parameterName": "order"
  }
]
}
```

Example of failure respond #2

```
{
"status": "error",
"errors": [
  {
    "code": "TechnicalError",
    "description": "Technical error"
  }
]
}
```

Appendix C

Banks of China list request

Pay-in banks

```
GET /api2/dictionary/china/banks/payin/list
curl https://serveraddress:443/api2/dictionary/china/banks/payin/list \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

Pay-out banks

```
GET /api2/dictionary/china/banks/payout/list
curl https://serveraddress:443/api2/dictionary/china/banks/payout/list \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

Respond parameters

There returns the array of objects, consisting of the following parameters.

Field	Type	Description	Mandate
id	string{4}	Bank identifier	+
code	string{10}	Bank code	+
description	string{50}	Bank description	+
name	string{50}	Bank original name	+

Example of respond

```
{
 "status": "success",
 "result": {
   "banks": [
     {
       "id": "1",
       "code": "ABC",
       "description": "Agricultural Bank of China",
```

```
            "name": "中国农业银行"
        },
        {
            "id": "2",
            "code": "BCOM",
            "description": "Bank of Communications",
            "name": "中国交通银行"
        }
    ]
}
}
```

Appendix D

Provinces of China list request

```
GET /api2/dictionary/china/provinces/list
curl https://serveraddress:443/api2/dictionary/china/provinces/list \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

Respond parameters

There returns the array of objects, consisting of the following parameters.

Field	Type	Description	Mandate
code	number{6}	Province code	+
name	string{50}	Province name	+

Example of respond

```
{
 "status": "success",
 "result": {
   "provinces": [
      {
        "code": "110000",
        "name": "北京市"
      },
      {
        "code": "230000",
        "name": "黑龙江省"
      }
   ]
 }
}
```

Appendix E

Cities of China list request

GET /api2/dictionary/china/areas/list

```
curl https://serveraddress:443/api2/dictionary/china/areas/list \
 -X GET \
 -H 'Authorization: Basic 351a5f52bdbddbd6c028d3159a43c365' \
```

Respond parameters

There returns the array of objects, consisting of the following parameters.

Field	Type	Description	Mandate
code	number{6}	City code	+
name	string{50}	City	+

Example of respond

```
{
 "status": "success",
 "result": {
   "areas": [
     {
       "code": "131000",
       "name": "廊坊市"
     },
     {
       "code": "150200",
       "name": "包头市"
     }
   ]
 }
}
```

Appendix F

returnUrl parameters

Upon the client return to the merchant page after payment there are additionally transferred the following parameters.

Field	Type	Description	Mandate
orderId	string{36}	Order identifier	+
moid	string{36}	Order identifier on the merchant side	+
status	string, enum	Operation status (Appendix A)	+

Appendix G

Testing and integration

For initial testing and integration the service provides test system identifiers. In test mode, for P2P and Withdrawal requests the service equiprobably returns the statuses DONE and REJECTED.