

京东区块链浏览器 API

1. 全局异常应答

Response	<pre>{ "error": { "errorCode": 500, "errorMessage": "this is an error message" }, "success": false }</pre>
Response Instruction	errorCode：业务异常状态码，非 Http 应答码； errorMessage：异常说明

该应答为全局异常应答，正确的应答在下述对应的章节中。

2. 获取账本列表

URL	/ledgers
Method	GET
Response	<pre>{ "data": [{ "value": "67nubBh1nBtv9otJTkWw89WXSq7XnxshL74u33f5ipNYS" }, { "value": "6EqXsS9c1nfm6XPorwgstGLd1rdAywbQKrTfoaxe4SYY9" }], "success": true }</pre>
Response Instruction	value 为账本 Hash 的 Base58 编码结果

3. 获取指定账本信息

URL	/ledgers/{ledgerHash}
Method	GET
Request Instruction	{ ledgerHash }：账本 Hash 的 Base58 编码结果
Response	<pre>{ "data": { "adminInfo": { "metadata": { "participantsHash": { "value": "F4evU3YyKryMCBNsrPg7NwBz1NX" } } } } }</pre>

```
    },
    "seed": "amQ=",
    "setting": {
      "consensusSetting": {
        "hostSettingValue": "Z2V0SG9zdFNldHRpbmdWYWx1ZQ==",
        "systemSettingValue": "Z2V0U3lzdGVtU2V0dGluZ1ZhbHVI"
      },
      "cryptoSetting": {
        "autoVerifyHash": false,
        "hashAlgorithm": "SHA256"
      }
    }
  },
  "participantCount": 1234
},
"hash": {
  "value": "3uqhFboGY1M"
},
"latestBlock": {
  "adminAccountHash": {
    "value": "SpXTn"
  },
  "contractAccountSetHash": {
    "value": "SpXTq"
  },
  "dataAccountSetHash": {
    "value": "SpXTo"
  },
  "hash": {
    "value": "fPcnPW1xx"
  },
  "height": 1000,
  "previousHash": {
    "value": "2y1mCD6"
  },
  "transactionSetHash": {
    "value": "3vZUqf6yrKn"
  },
  "userAccountSetHash": {
    "value": "SpXTp"
  }
},
"latestBlockHash": {
  "value": "4BoCfJESYPMpDBZVNgKN1j9vuD"
},
"latestBlockHeight": 26266,
"nextBlockEditor": {},
},
"success": true
```

	}
Response Instruction	

4. 获取成员列表

URL	/ledgers/{ledgerHash}/participants
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	<pre>{ "data": [{ "hostAddress": { "host": "172.62.35.123", "port": 5566, "secure": true }, "pubKey": { "value": "UUM8Ku9aypHYnNkJRuFnKEYSuXT" }, "id": 0, "name": "jd1" }, { "hostAddress": { "host": "172.62.35.230", "port": 7788, "secure": false }, "pubKey": { "value": "S76SHyu8p164" }, "id": 1, "name": "jd2" }], "success": true }</pre>
Response Instruction	

5. 获取最新区块

URL	/ledgers/{ledgerHash}/blocks/latest
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果

Response	<pre>{ "data": { "adminAccountHash": { "value": "SpXTn" }, "contractAccountSetHash": { "value": "SpXTq" }, "dataAccountSetHash": { "value": "SpXTo" }, "hash": { "value": "fPcnPW1xx" }, "height": 12358, "ledgerHash": { "value": "6GNP3H3WjGeQ7kbyu6LFhRtpmkdiTi7ENEpULW1FJjwgu" }, "previousHash": { "value": "2y1mCD6" }, "transactionSetHash": { "value": "3vZUqf6yrKn" }, "userAccountSetHash": { "value": "SpXTP" } }, "success": true }</pre>
Response Instruction	data 中的 height 为最新区块的高度

6. 获取交易总数

URL	/ledgers/{ledgerHash}/txs/count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	<pre>{ "data": 123, "success": true }</pre>
Response Instruction	data 为当前账本交易总数

7. 获取合约总数

URL	/ledgers/{ledgerHash}/contracts/count
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Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 789, "success": true }
Response Instruction	data 为当前账本合约总数

8. 获取用户总数

URL	/ledgers/{ledgerHash}/users/count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 100, "success": true }
Response Instruction	data 为当前账本用户总数

9. 获取账户总数

URL	/ledgers/{ledgerHash}/accounts/count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 200, "success": true }
Response Instruction	data 为当前账本账户总数

10. 获取某个区块新增交易数量

URL	/ledgers/{ledgerHash}/blocks/height/{blockHeight}/txs/additional-count 或 /ledgers/{ledgerHash}/blocks/hash/{blockHash}/txs/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { blockHash } : 区块 Hash 的 Base58 编码结果 ;

	{ blockHeight } : 区块高度
Response	{ "data": 300, "success": true }
Response Instruction	data 为当前账本新增交易数量（即最新区块包含交易数量）

11. 获取新增交易数量

URL	/ledgers/{ledgerHash}/txs/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 300, "success": true }
Response Instruction	data 为当前账本新增交易数量（即最新区块包含交易数量）

12. 获取某个区块新增账户数量

URL	/ledgers/{ledgerHash}/blocks/height/{blockHeight}/accounts/additional-count 或 /ledgers/{ledgerHash}/blocks/hash/{blockHash}/accounts/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { blockHash } : 区块 Hash 的 Base58 编码结果 ; { blockHeight } : 区块高度
Response	{ "data": 300, "success": true }
Response Instruction	data 为当前账本新增账户数量（即最新区块包含账户数量）

13. 获取新增账户数量

URL	/ledgers/{ledgerHash}/accounts/additional-count
Method	GET

Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 400, "success": true }
Response Instruction	data 为当前账本新增账户数量 (即最新区块增加账户数量)

14. 获取某个区块新增用户数量

URL	/ledgers/{ledgerHash}/blocks/height/{blockHeight}/users/additional-count 或 /ledgers/{ledgerHash}/blocks/hash/{blockHash}/users/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { blockHash } : 区块 Hash 的 Base58 编码结果 ; { blockHeight } : 区块高度
Response	{ "data": 300, "success": true }
Response Instruction	data 为当前账本新增交易数量 (即最新区块包含用户数量)

15. 获取新增用户数量

URL	/ledgers/{ledgerHash}/users/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 400, "success": true }
Response Instruction	data 为当前账本新增用户数量

16. 获取某个区块新增合约数量

URL	/ledgers/{ledgerHash}/blocks/height/{blockHeight}/contracts/additional-count 或
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	/ledgers/{ledgerHash}/blocks/hash/{blockHash}/contracts/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { blockHash } : 区块 Hash 的 Base58 编码结果 ; { blockHeight } : 区块高度
Response	{ "data": 300, "success": true }
Response Instruction	data 为当前账本新增合约数量 (即最新区块包含合约数量)

17. 获取新增合约数量

URL	/ledgers/{ledgerHash}/contracts/additional-count
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果
Response	{ "data": 400, "success": true }
Response Instruction	data 为当前账本新增合约数量

18. 获取用户详情

URL	/ledgers/{ledgerHash}/users/{address}
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { address } : 用户地址
Response	{ "data": { "address": "www.jdchain.user.jd.com", "pubKey": { "value": "sR4AF" } }, "success": true }
Response Instruction	

19. 获取账户详情

URL	/ledgers/{ledgerHash}/accounts/{address}
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { address } : 账户地址
Response	{ "data": { "address": "www.jdchain.dataaccount.jd.com", "pubKey": { "value": "UUi8Ku8aypHYnNkJRuFnkEYSuXT" } }, "success": true }
Response Instruction	

20. 获取合约详情

URL	/ledgers/{ledgerHash}/contracts/{address}
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { address } : 合约地址
Response	{ "data": { "address": "www.jdchain.contract.jd.com", "chaincodeVersion": 1, "pubKey": { "value": " UUi8Ku8aypHYnNkJRuFnkEYSuXT" } }, "success": true }
Response Instruction	

21. 获取指定区块详情

URL	/ledgers/{ledgerHash}/blocks/height/{blockHeight} 或 /ledgers/{ledgerHash}/blocks/hash/{blockHash}
Method	GET

Request Instruction	<p>{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ;</p> <p>{ blockHash } : 区块 Hash 的 Base58 编码结果 ;</p> <p>{ blockHeight } : 区块高度</p>
Response	<pre>{ "data": { "adminAccountHash": { "value": "SpXTn" }, "contractAccountSetHash": { "value": "SpXTq" }, "dataAccountSetHash": { "value": "SpXTo" }, "hash": { "value": "fPcnPW1xx" }, "height": 12358, "ledgerHash": { "value": "6GNP3H3WjGeQ7kbyu6LFhRtpmkdiTi7ENEpULW1FJjwgu" }, "previousHash": { "value": "2y1mCD6" }, "transactionSetHash": { "value": "3vZUqf6yrKn" }, "userAccountSetHash": { "value": "SpXTp" } }, "success": true }</pre>
Response Instruction	

22. 获取指定交易详情

URL	/ledgers/{ledgerHash}/txs/{contentHash}
Method	GET
Request Instruction	<p>{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ;</p> <p>{ contentHash } : 交易内容 Hash 的 Base58 编码结果</p>
Response	<pre>{ "data": {</pre>

```
"adminAccountHash": {
  "value": "2y1mCD6"
},
"blockHeight": 123456,
"contractAccountSetHash": {
  "value": "9h2UYTxc"
},
"dataAccountSetHash": {
  "value": "3vZUqf6yrKn"
},
"endpointSignatures": [{
  "digest": {
    "algorithm": "ED25519",
    "rawDigest": "emhhbmdzYW4="
  },
  "pubKey": {
    "value": "S76SHyu8p164"
  }
}, {
  "digest": {
    "algorithm": "ED25519",
    "rawDigest": "bGlzaQ=="
  },
  "pubKey": {
    "value": "S76SHz1gLqEL"
  }
}],
"executionState": "SUCCESS",
"hash": {
  "value": "DuQMsm4j3GeZ"
},
"nodeSignatures": [{
  "digest": {
    "algorithm": "ED25519",
    "rawDigest": "d2FuZ3d1"
  },
  "pubKey": {
    "value": "S76SHz8DsfNc"
  }
}, {
  "digest": {
    "algorithm": "ED25519",
    "rawDigest": "emhhb2xpdQ=="
  },
  "pubKey": {
    "value": "S76SHzEmQVWt"
  }
}],
"transactionContent": {
```

```
"hash": {
  "value": "fH9d8BYxU"
},
"ledgerHash": {
  "value": "6EqXXS9c1njm6XPorwgstGLd1rdAywbQKrTfoaxe4SYY9"
},
"operations": [{
  "accountAddress": "31xnWp5RYLThS47S6yfwqbUW3toZrw5Mm3t",
  "writeSet": [{
    "expectedVersion": 25,
    "key": "Name",
    "value": "QUFB"
  }]
}, {
  "addressSignature": {
    "digest": {
      "algorithm": "ED25519",
      "rawDigest": "d2FuZ3d1"
    },
    "pubKey": {
      "value": "6gtyw9HjZbi"
    }
  },
  "chainCode": "emhbbmdzYW4=",
  "contractID": {
    "address": "31kiRWCxNm8tYxhFK5wnDp3wNxCuiVyDA7",
    "pubKey": {
      "value": "KXywstVY1tEAgEsc7kox48L"
    }
  }
}, {
  "args": "YXJncw==",
  "contractAddress": "contract-address",
  "event": "contract-event"
}, {
  "accountID": {
    "address": "31r5f9D8kCxkiat2GvRJfjNi1fnFvaWaBEu",
    "pubKey": {
      "value": "5CYw7ztKJRxVt6Mfgz6vSQ"
    }
  },
  "addressSignature": {
    "digest": {
      "algorithm": "ED25519",
      "rawDigest": "emhbb2xpdQ=="
    },
    "pubKey": {
      "value": "6gtyw9HjZbi"
    }
  }
}
```

	<pre> } }, { "userID": { "address": "321ZeecJ99N7RJGSHkRqkfBZDEAxRMHd6d5", "pubKey": { "value": "3qHAWiGwaF6FU2o7Lg" } } }] }, "userAccountSetHash": { "value": "fPcnPW1xx" } }, "success": true } </pre>
Response Instruction	

23. 获取指定区块交易列表

URL	/ledgers/{ledgerHash}/blocks/height/{blockHeight}/txs? fromIndex=xx&count=yy 或 /ledgers/{ledgerHash}/blocks/hash/{blockHash}/txs? fromIndex=xx&count=yy
Method	GET
Request Instruction	{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ; { blockHash } : 区块 Hash 的 Base58 编码结果 ; { blockHeight } : 区块高度 ; fromIndex : 起始指针 (针对该区块); count : 要查询的交易数量
Response	<pre> { "data": [{ "adminAccountHash": { "value": "2y1mCD6" }, "blockHeight": 123456, "contractAccountSetHash": { "value": "9h2UYTxc" }, "dataAccountSetHash": { "value": "3vZUqf6yrKn" }, "endpointSignatures": [{ </pre>

```
    "digest": {
      "algorithm": "ED25519",
      "rawDigest": "emhbbmdzYW4="
    },
    "pubKey": {
      "value": "S76SHyu8p164"
    }
  }, {
    "digest": {
      "algorithm": "ED25519",
      "rawDigest": "bGlzaQ=="
    },
    "pubKey": {
      "value": "S76SHz1gLqEL"
    }
  }
}],
"executionState": "SUCCESS",
"hash": {
  "value": "DuQMsm4j3GeZ"
},
"nodeSignatures": [{
  "digest": {
    "algorithm": "ED25519",
    "rawDigest": "d2FuZ3d1"
  },
  "pubKey": {
    "value": "S76SHz8DsfNc"
  }
}, {
  "digest": {
    "algorithm": "ED25519",
    "rawDigest": "emhbb2xpdQ=="
  },
  "pubKey": {
    "value": "S76SHzEmQVWt"
  }
}],
"transactionContent": {
  "hash": {
    "value": "fH9d8BYxU"
  },
  "ledgerHash": {
    "value": "6EqXXS9c1njm6XPorwgstGLd1rdAywbQKrTfoaxe4SYY9"
  },
  "operations": [{
    "accountAddress": "31xnWp5RYLThS47S6yfwqbUW3toZrw5Mm3t",
    "writeSet": [{
      "expectedVersion": 25,
      "key": "Name",
```

```
        "value": "QUFB"
      }
    }, {
      "addressSignature": {
        "digest": {
          "algorithm": "ED25519",
          "rawDigest": "d2FuZ3d1"
        },
        "pubKey": {
          "value": "6gtyw9HjZbi"
        }
      },
      "chainCode": "emhhbmdzYW4=",
      "contractID": {
        "address": "31kiRWCxNm8tYxhFK5wnDp3wNxCuiVyDA7",
        "pubKey": {
          "value": "KXywstVY1tEAgEsc7kox48L"
        }
      }
    }, {
      "args": "YXJncw==",
      "contractAddress": "contract-address",
      "event": "contract-event"
    }, {
      "accountID": {
        "address": "31r5f9D8kCxkiat2GvRJfjNi1fnFvaWaBEu",
        "pubKey": {
          "value": "5CYw7ztKJRxVt6Mfgz6vSQ"
        }
      },
      "addressSignature": {
        "digest": {
          "algorithm": "ED25519",
          "rawDigest": "emhhb2xpdQ=="
        },
        "pubKey": {
          "value": "6gtyw9HjZbi"
        }
      }
    }, {
      "userID": {
        "address": "321ZeecJ99N7RJGSHkRqkfBZDEAxRMHd6d5",
        "pubKey": {
          "value": "3qHAWiGwaF6FU2o7Lg"
        }
      }
    }
  },
  "userAccountSetHash": {
```

```
        "value": "fPcnPW1xx"
      }
    },
    {
      "adminAccountHash": {
        "value": "2y1mCD6"
      },
      "blockHeight": 123456,
      "contractAccountSetHash": {
        "value": "9h2UYTxc"
      },
      "dataAccountSetHash": {
        "value": "3vZUqf6yrKn"
      },
      "endpointSignatures": [{
        "digest": {
          "algorithm": "ED25519",
          "rawDigest": "emhbbmdzYW4="
        },
        "pubKey": {
          "value": "S76SHyu8p164"
        }
      }, {
        "digest": {
          "algorithm": "ED25519",
          "rawDigest": "bGlzaQ=="
        },
        "pubKey": {
          "value": "S76SHz1gLqEL"
        }
      }
    ],
    "executionState": "SUCCESS",
    "hash": {
      "value": "DuQMsm4j3GeZ"
    },
    "nodeSignatures": [{
      "digest": {
        "algorithm": "ED25519",
        "rawDigest": "d2FuZ3d1"
      },
      "pubKey": {
        "value": "S76SHz8DsfNc"
      }
    }, {
      "digest": {
        "algorithm": "ED25519",
        "rawDigest": "emhbb2xpdQ=="
      },
      "pubKey": {
```



```

        "value": "S76SHzEmQVWt"
    },
    },
    "transactionContent": {
        "hash": {
            "value": "fH9d8BYxU"
        },
        "ledgerHash": {
            "value": "6EqXXS9c1njm6XPorwgstGLd1rdAywbQKrTfoaxe4SYY9"
        },
        "operations": [
            {
                "accountAddress": "31xnWp5RYLThS47S6yfwqbUW3toZrw5Mm3t",
                "writeSet": [
                    {
                        "expectedVersion": 25,
                        "key": "Name",
                        "value": "QUFB"
                    }
                ]
            },
            {
                "addressSignature": {
                    "digest": {
                        "algorithm": "ED25519",
                        "rawDigest": "d2FuZ3d1"
                    },
                    "pubKey": {
                        "value": "6gtyw9HjZbi"
                    }
                },
                "chainCode": "emhhbmdzYW4=",
                "contractID": {
                    "address": "31kiRWCxNm8tYxhFK5wnDp3wNxLCuiVyDA7",
                    "pubKey": {
                        "value": "KXywstVY1tEAgEsc7kox48L"
                    }
                }
            },
            {
                "args": "YXJncw==",
                "contractAddress": "contract-address",
                "event": "contract-event"
            },
            {
                "accountID": {
                    "address": "31r5f9D8kCxkiat2GvRJfjNi1fnFvaWaBEu",
                    "pubKey": {
                        "value": "5CYw7ztKJRxVt6Mfgz6vSQ"
                    }
                },
                "addressSignature": {
                    "digest": {
                        "algorithm": "ED25519",
                        "rawDigest": "emhhb2xpdQ=="
                    }
                }
            }
        ]
    }
}

```

	<pre> }, "pubKey": { "value": "6gtyw9HjZbi" } }, { "userID": { "address": "321ZeecJ99N7RJGSHkRqkfBZDEAxRMHd6d5", "pubKey": { "value": "3qHAWiGwaF6FU2o7Lg" } } } }], "userAccountSetHash": { "value": "fPcnPW1xx" } }], "success": true } </pre>
Response Instruction	

24. 获取指定账户存储集合

URL	/ledgers/{ledgerHash}/accounts/{address}/entries?keys=xx&keys=yy
Method	POST
Request Instruction	<p>{ ledgerHash } : 账本 Hash 的 Base58 编码结果 ;</p> <p>{ address } : 账户地址 ;</p> <p>keys : 表单方式按顺序提交</p>
Response	<pre> { "data": [{ "key": "key1", "nil": false, "type": "TEXT", "value": "value1", "version": 1 }, { "key": "key2", "nil": false, "type": "TEXT", "value": "value2", "version": 2 }] } </pre>

	<pre>], "success": true }</pre>
Response Instruction	