open api

DDC查询

POST 查询DDC流转记录

POST /ddcoai/sys/v1/ddcsearch/transfer/searches

查询DDC流转记录

Body 请求参数

```json
{
  "title": "RequestPageInfo«InOaiDdcSearchSearchesTransfer»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiDdcSearchSearchesTransfer",
      "required": [
        "ddcId"
      ],
      "type": "object",
      "properties": {
        "ddcId": {
          "type": "string",
          "description": "DDC ID",
          "example": "22"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
```

```
        "example": 5
      }
    },
    "x-apifox-folder": "Schemas"
  }
},
"x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	RequestPageInfo%C2%ABInOaiDdcSearchSearchesTransfer%C2%BB	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfoPage%C2%ABList%C2%ABOutOaiDdcSearchSearchesTransfer%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST 查询DDC列表

POST /ddcoai/sys/v1/ddcsearch/ddc/searches

查询DDC列表

> Body 请求参数

```
{
  "title": "RequestPageInfo«InOaiDdcSearchSearchesDdc»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiDdcSearchSearchesDdc",
      "type": "object",
      "properties": {
        "ddcIdOrDdcOwner": {
          "type": "string",
          "description": "DDC ID 或 DDC 所有者",
          "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
        }
      },
      "x-apifox-folder": "Schemas"
```

```
        },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
          "example": 5
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	RequestPageInfo%C2%ABInOaiDdcSearchSearchesDdc%C2%BB	false	none

返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfoPage%C2%ABList%C2%ABOutOaiDdcSearchSearchesDdc%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

DDC链账户管理

POST DDC链账户-查看详情

POST /ddcoai/sys/v1/opb/account/check/details/search

调用方：平台方

服务方：Open-API

说明：查看DDC链账户的基本信息

Body 请求参数

```json
{
  "title": "InOaiOpbAccountCheckDetailsSearch",
  "required": [
    "opbChainClientAddress",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountCheckDetailsSearch	false	none

返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABOutOaiOpbAccountCheckDetailsSearch%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-（冻结）链账户

POST /ddcoai/sys/v1/opb/account/freeze

调用方：平台方

服务方：Open-API

说明：对平台方的用户的链账户做冻结操作，另冻结和解冻仅应用于链账户是否可进行BSN官方DDC业务处理，并不会影响已发生的交易数据和被冻结链账户内的业务费、能量值余额等。

> Body 请求参数

```
{
  "title": "InOaiOpbAccountFreeze",
  "required": [
    "opbChainClientAddress",
    "opbChainClientFrozenDesc",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainClientFrozenDesc": {
      "type": "string",
      "description": "原因"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountFreeze	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABstring%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST 开通DDC链账户

POST /ddcoai/sys/v1/opb/account/createddc/save

调用方：平台方
服务方：Open-API
说明：基于已有的开放链链账户开通DDC。只有开通DDC的链账户才能启用BSN-DDC业务功能。

Body 请求参数

```json
{
  "title": "InOaiOpbDdcAccountCreateSave",
  "required": [
    "opbChainClientAddress",
    "opbChainClientType"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "已有的链账户地址：如果已开通DDC则不需要调（调"DDC链账户-查看详情"接口查询是否开通过DDC）"
    },
    "opbChainClientType": {
      "type": "integer",
      "description": "用户类型(1=平台方 2=平台方的用户)",
      "format": "int32",
      "example": 1
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	InOaiOpbDdcAccountCreateSave	false	none

返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABstring%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-（解冻）链账户

POST /ddcoai/sys/v1/opb/account/unfreeze

调用方：平台方

服务方：Open-API

说明：对平台方的用户的链账户做解冻操作，另冻结和解冻仅应用于链账户是否可进行BSN官方DDC业务处理，并不会影响已发生的交易数据和被冻结链账户内的业务费、能量值余额等。

> Body 请求参数

```json
{
  "title": "InOaiOpbAccountFreeze",
  "required": [
    "opbChainClientAddress",
    "opbChainClientFrozenDesc",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainClientFrozenDesc": {
      "type": "string",
      "description": "原因"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountFreeze	false	none

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABstring%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-GAS充值结果查询

POST /ddcoai/sys/v1/opb/account/%20gas/result/searche

调用方：平台方
服务方：Open-API
说明： 平台方可通过Open API对所属DDC链账户的GAS充值结果进行查询。

Body 请求参数

```json
{
  "title": "InOaiOpbAccountGasResultSearch",
  "required": [
    "clientReqSn",
    "opbChainClientAddress"
  ],
  "type": "object",
  "properties": {
    "clientReqSn": {
      "type": "string",
      "description": "第三方流水号"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountGasResultSearch	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABOutOaiOpbAccountGasResultSearche%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-链账户状态查询

POST /ddcoai/sys/v1/opb/account/freeze/status

调用方：平台方

服务方：Open-API

说明：可以查询平台方所属链账户的冻结，解冻状态。主要分为运营方的操作和平台方的操作

> Body 请求参数

```json
{
  "title": "InOaiOpbAccountFreezeStatus",
  "required": [
    "opbChainClientAddress",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountFreezeStatus	false	none

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABOutOaiOpbAccountFreezeStatus%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-业务费充值

POST /ddcoai/sys/v1/opb/account/business/save

调用方：平台方

服务方：Open-API

说明： 如果使用官方合约发起DDC交易则需要业务费，因此可通过Open API给平台方所属DDC链账户进行充值。

Body 请求参数

```
{
  "title": "InOaiOpbAccountBusinessSave",
  "required": [
    "businessMoney",
    "opbChainClientAddress",
    "opbChainId",
    "thirdBillNo"
  ],
  "type": "object",
  "properties": {
    "businessMoney": {
      "type": "integer",
      "description": "充值业务费金额(单位：分)",
      "format": "int64"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
```

```
      "format": "int32"
    },
    "thirdBillNo": {
      "type": "string",
      "description": "第三方流水号"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountBusinessSave	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABstring%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-能量值充值

POST /ddcoai/sys/v1/opb/account/gas/save

调用方：平台方
服务方：Open-API
说明：平台方通过Open API给平台方的用户充值能量值

> Body 请求参数

```
{
  "title": "InOaiOpbAccountGasSave",
  "required": [
    "businessMoney",
    "opbChainClientAddress",
    "opbChainId",
    "thirdBillNo"
  ],
  "type": "object",
  "properties": {
```

```
      "businessMoney": {
        "type": "integer",
        "description": "充值GAS金额",
        "format": "int64"
      },
      "opbChainClientAddress": {
        "type": "string",
        "description": "DDC链账户地址"
      },
      "opbChainId": {
        "type": "integer",
        "description": "开放链框架ID",
        "format": "int32"
      },
      "thirdBillNo": {
        "type": "string",
        "description": "第三方流水号"
      }
    },
    "x-apifox-folder": "Schemas"
  }
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountGasSave	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABstring%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST DDC链账户-业务费充值结果查询

POST /ddcoai/sys/v1/opb/account/business/result/searche

调用方：平台方
服务方：Open-API
说明：平台方可通过Open API对所属DDC链账户的业务费充值结果进行查询。

```
{
  "title": "InOaiOpbAccountBusinessResultSearch",
  "required": [
    "clientReqSn",
    "opbChainClientAddress"
  ],
  "type": "object",
  "properties": {
    "clientReqSn": {
      "type": "string",
      "description": "第三方流水号"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apitoken	header	string	true	apitoken
body	body	InOaiOpbAccountBusinessResultSearch	false	none

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABOutOaiOpbAccountBusinessResultSearche%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST 新创建链账户

POST /ddcoai/sys/v1/opb/account/create/save

调用方：平台方
服务方：Open-API
说明：生成链账户后，平台方通过官方门户OpenAPI登记注册链账户。只有开通DDC的链账户才能启用BSN-DDC业务功能。
新建时可以不开通DDC，再调xxx接口继续开通DDC

```json
{
  "title": "InOaiOpbAccountCreateSave",
  "required": [
    "opbChainClientName",
    "opbChainClientType",
    "opbChainId",
    "opbKeyType",
    "proof"
  ],
  "type": "object",
  "properties": {
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称",
      "example": "XXXXX"
    },
    "opbChainClientPass": {
      "type": "string",
      "description": "秘钥托管密码(根据链账户类型为1，值必填)",
      "example": "1"
    },
    "opbChainClientType": {
      "type": "integer",
      "description": "用户类型(1=平台方 2=平台方的用户)",
      "format": "int32",
      "example": 1
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链框架ID（调用接口：OPB-框架列表查询）",
      "format": "int32",
      "example": 1
    },
    "opbClientAddress": {
      "type": "string",
      "description": "上传链账户地址(根据链账户类型为3，值必填)",
      "example": "3"
    },
    "opbKeyType": {
      "type": "integer",
      "description": "链账户类型（调用接口：OPB-框架支持的链账户类型）",
      "format": "int32",
      "example": 1
    },
    "opbPublicKey": {
      "type": "string",
      "description": "上传公钥公钥(根据链账户类型为2，值必填)",
      "example": "2"
    },
    "openDdc": {
      "type": "integer",
      "description": "是否开通DDC<br/> 1-不开通<br/> 5=开通<br/> ",
      "format": "int32",
      "example": 1
    },
    "proof": {
      "type": "string",
```

```
      "description": "DDC业务开通凭证",
      "example": "1"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	InOaiOpbAccountCreateSave	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABstring%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

DDC链账户-费用明细

POST 业务费明细

POST /ddcoai/sys/v1/opb/free/business/cost/searches

调用方：平台方

服务方：Open-API

说明：调用官方DDC合约将产生业务费，可通过此接口查询业务费交易明细

> Body 请求参数

```
{
  "title": "RequestPageInfo«InOaiOpbAccountBusinessCostSearches»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiOpbAccountBusinessCostSearches",
```

```json
      "type": "object",
      "properties": {
        "opbChainClientAddress": {
          "type": "string",
          "description": "链账户地址"
        },
        "opbChainClientName": {
          "type": "string",
          "description": "链账户名称"
        },
        "opbChainId": {
          "type": "integer",
          "description": "开放联盟链框架",
          "format": "int32"
        },
        "serialNumber": {
          "type": "string",
          "description": "流水号"
        },
        "tradingEndTime": {
          "type": "string",
          "description": "交易日期结束  yyyy-MM-dd"
        },
        "tradingStartTime": {
          "type": "string",
          "description": "交易日期开始  yyyy-MM-dd"
        },
        "tradingType": {
          "type": "string",
          "description": "交易类型  1=生成 2=流转  10=销毁"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
          "example": 5
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
```

```
  }
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	RequestPageInfo%C2%ABInOaiOpbAccountBusinessCostSearches%C2%BB	false	none

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfoPage%C2%ABList%C2%ABOutOaiOpbAccountBusinessCostSearches%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST 能量值明细

POST /ddcoai/sys/v1/opb/free/gas/cost/searches

调用方：平台方

服务方：Open-API

说明：调用官方DDC合约涉及到链交易能量值消耗，此接口可查询具体交易明细。

Body 请求参数

```json
{
  "title": "RequestPageInfo«InOaiOpbAccountGasCostSearches»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiOpbAccountGasCostSearches",
      "type": "object",
      "properties": {
        "opbChainClientAddress": {
          "type": "string",
          "description": "链账户地址"
        },
        "opbChainClientName": {
          "type": "string",
          "description": "链账户名称"
        },
        "opbChainId": {
          "type": "integer",
          "description": "开放联盟链框架",
          "format": "int32"
```

```
        },
        "serialNumber": {
          "type": "string",
          "description": "流水号"
        },
        "tradingEndTime": {
          "type": "string",
          "description": "交易日期结束    yyyy-MM-dd"
        },
        "tradingStartTime": {
          "type": "string",
          "description": "交易日期开始    yyyy-MM-dd"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
          "example": 5
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	RequestPageInfo%C2%ABInOaiOpbAccountGasCostSearches%C2%BB	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfoPage%C2%ABList%C2%ABOutOaiOpbAccountGasCostSearches%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

项目管理

POST 项目管理-创建项目

POST /ddcoai/sys/v1/opb/project/save

调用方：平台方
服务方：Open-API
说明：平台方使用项目ID和项目key接入OPB网关并发起合约交易。特别提醒是新建的项目默认不开启项目key，需要到DDC官方门户手动开启

> Body 请求参数

```json
{
  "title": "InOpbOaiProjectSave",
  "required": [
    "opbChainId",
    "opbProjectName"
  ],
  "type": "object",
  "properties": {
    "opbChainId": {
      "type": "integer",
      "description": "框架ID",
      "format": "int32"
    },
    "opbProjectName": {
      "type": "string",
      "description": "项目名称"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	InOpbOaiProjectSave	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABOutOaiProjectSave%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST 项目管理-项目列表

POST /ddcoai/sys/v1/opb/project/searches

调用方：平台方
服务方：Open-API
说明：查询通过API创建的项目列表

> Body 请求参数

```json
{
  "title": "RequestPageInfo«InOpbOaiProjectSearches»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOpbOaiProjectSearches",
      "type": "object",
      "properties": {
        "clientId": {
          "type": "integer",
          "format": "int32"
        },
        "opbChainId": {
          "type": "integer",
          "description": "开放联盟链框架",
          "format": "int32"
        },
        "opbProjectName": {
          "type": "string",
          "description": "项目名称"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
```

```
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
          "example": 5
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	RequestPageInfo%C2%ABInOpbOaiProjectSearches%C2%BB	false	none

返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfoPage%C2%ABList%C2%ABOutOaiOpbProjectSearches%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

通用接口

POST OPB-框架支持的链账户类型

POST /ddcoai/sys/v1/opb/frame/opbaccounttype/searches

OPB-框架支持的链账户类型

Body 请求参数

```
{
  "title": "InOaiOpbAccountClientTypeSearches",
```

```
  "required": [
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链链ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken
body	body	InOaiOpbAccountClientTypeSearches	false	none

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABList%C2%ABOutOaiOpbAccountClientTypeSearches%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

POST 开放联盟链框架 - 列表查询

POST /ddcoai/sys/v1/opb/frame/framework/searches

调用方：平台方
服务方：Open-API
说明：查询支持DDC的OPB框架列表

请求参数

名称	位置	类型	必选	说明
apiToken	header	string	true	apiToken

> 返回示例

返回结果

状态码	状态码含义	说明	数据模型
200	OK	OK	ResultInfo%C2%ABList%C2%ABOutOaiOpbAccountFrameworkSearches%C2%BB%C2%BB
201	Created	Created	Inline
401	Unauthorized	Unauthorized	Inline
403	Forbidden	Forbidden	Inline
404	Not Found	Not Found	Inline

返回数据结构

数据模型

InOaiOpbAccountBusinessCostSearches

```
{
  "title": "InOaiOpbAccountBusinessCostSearches",
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "链账户地址"
    },
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链框架",
      "format": "int32"
    },
    "serialNumber": {
      "type": "string",
      "description": "流水号"
    },
    "tradingEndTime": {
      "type": "string",
      "description": "交易日期结束  yyyy-MM-dd"
    },
    "tradingStartTime": {
      "type": "string",
      "description": "交易日期开始  yyyy-MM-dd"
    },
    "tradingType": {
      "type": "string",
      "description": "交易类型  1=生成 2=流转  10=销毁"
    }
  },
  "x-apifox-folder": "Schemas"
```

```
}
```

InOaiOpbAccountBusinessCostSearches

属性

名称	类型	必选	约束	说明
opbChainClientAddress	string	false	none	链账户地址
opbChainClientName	string	false	none	链账户名称
opbChainId	integer(int32)	false	none	开放联盟链框架
serialNumber	string	false	none	流水号
tradingEndTime	string	false	none	交易日期结束 yyyy-MM-dd
tradingStartTime	string	false	none	交易日期开始 yyyy-MM-dd
tradingType	string	false	none	交易类型 1=生成 2=流转 10=销毁

InOaiOpbAccountFreeze

```
{
  "title": "InOaiOpbAccountFreeze",
  "required": [
    "opbChainClientAddress",
    "opbChainClientFrozenDesc",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainClientFrozenDesc": {
      "type": "string",
      "description": "原因"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountFreeze

属性

名称	类型	必选	约束	说明
opbChainClientAddress	string	true	none	DDC链账户地址
opbChainClientFrozenDesc	string	true	none	原因
opbChainId	integer(int32)	true	none	开放链框架ID

OutOaiOpbAccountBusinessResultSearche

```json
{
  "title": "OutOaiOpbAccountBusinessResultSearche",
  "required": [
    "clientReqSn",
    "opbChainClientAddress",
    "rechargeState"
  ],
  "type": "object",
  "properties": {
    "clientReqSn": {
      "type": "string",
      "description": "第三方流水号"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "链账户地址"
    },
    "rechargeState": {
      "type": "integer",
      "description": "业务费充值状态",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbAccountBusinessResultSearche

属性

名称	类型	必选	约束	说明
clientReqSn	string	true	none	第三方流水号
opbChainClientAddress	string	true	none	链账户地址
rechargeState	integer(int32)	true	none	业务费充值状态

RequestPageInfo«InOpbOaiProjectSearches»

```json
{
  "title": "RequestPageInfo«InOpbOaiProjectSearches»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOpbOaiProjectSearches",
      "type": "object",
      "properties": {
        "clientId": {
          "type": "integer",
          "format": "int32"
        },
        "opbChainId": {
          "type": "integer",
          "description": "开放联盟链框架",
          "format": "int32"
        },
        "opbProjectName": {
          "type": "string",
          "description": "项目名称"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
```

```
            "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
          "example": 5
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

RequestPageInfo«InOpbOaiProjectSearches»

属性

名称	类型	必选	约束	说明
data	InOpbOaiProjectSearches	true	none	none
page	InPage	true	none	none

PageInfo

```
{
  "title": "PageInfo",
  "type": "object",
  "properties": {
    "firstPage": {
      "type": "boolean"
    },
    "lastPage": {
      "type": "boolean"
    },
    "pageNum": {
      "type": "integer",
      "format": "int32"
    },
    "pageSize": {
      "type": "integer",
      "format": "int32"
    },
    "pages": {
      "type": "integer",
      "format": "int32"
    },
    "total": {
```

```
      "type": "integer",
      "format": "int64"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

PageInfo

属性

名称	类型	必选	约束	说明
firstPage	boolean	false	none	none
lastPage	boolean	false	none	none
pageNum	integer(int32)	false	none	none
pageSize	integer(int32)	false	none	none
pages	integer(int32)	false	none	none
total	integer(int64)	false	none	none

OutOaiOpbAccountFrameworkSearches

```
{
  "title": "OutOaiOpbAccountFrameworkSearches",
  "required": [
    "opbAlgorithmType",
    "opbChainId",
    "opbChainName"
  ],
  "type": "object",
  "properties": {
    "opbAlgorithmType": {
      "type": "integer",
      "description": "开放联盟链链算法名称",
      "format": "int32"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链链ID",
      "format": "int32"
    },
    "opbChainName": {
      "type": "string",
      "description": "开放联盟链链名称"
    }
```

```
    },
    "x-apifox-folder": "Schemas"
  }
```

OutOaiOpbAccountFrameworkSearches

属性

名称	类型	必选	约束	说明
opbAlgorithmType	integer(int32)	true	none	开放联盟链链算法名称
opbChainId	integer(int32)	true	none	开放联盟链链ID
opbChainName	string	true	none	开放联盟链链名称

InPage

```
{
  "title": "InPage",
  "required": [
    "pageNum"
  ],
  "type": "object",
  "properties": {
    "pageNum": {
      "type": "integer",
      "description": "分页：从1开始",
      "format": "int32",
      "example": 1
    },
    "pageSize": {
      "type": "integer",
      "description": "每页大小，由前端控制。如果不传则全部查询",
      "format": "int32",
      "example": 5
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InPage

属性

名称	类型	必选	约束	说明
pageNum	integer(int32)	true	none	分页：从1开始
pageSize	integer(int32)	false	none	每页大小，由前端控制。如果不传则全部查询

OutOaiOpbProjectSearches

```
{
  "title": "OutOaiOpbProjectSearches",
  "required": [
    "opbChainName",
    "opbProjectId",
    "opbProjectName"
  ],
  "type": "object",
  "properties": {
    "opbChainName": {
      "type": "string",
      "description": "开放联盟链框架"
    },
    "opbProjectId": {
      "type": "string",
      "description": "项目ID"
    },
    "opbProjectKey": {
      "type": "string",
      "description": "项目KEY"
    },
    "opbProjectName": {
      "type": "string",
      "description": "项目名称"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbProjectSearches

属性

名称	类型	必选	约束	说明
opbChainName	string	true	none	开放联盟链框架
opbProjectId	string	true	none	项目ID
opbProjectKey	string	false	none	项目KEY
opbProjectName	string	true	none	项目名称

ResultInfo«OutOaiOpbAccountFreezeStatus»

```json
{
  "title": "ResultInfo«OutOaiOpbAccountFreezeStatus»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "title": "OutOaiOpbAccountFreezeStatus",
      "required": [
        "opsPlatformState",
        "platformSetState"
      ],
      "type": "object",
      "properties": {
        "opsPlatformState": {
          "type": "integer",
          "description": "运营方设置状态(1=冻结    2=已启用(未冻结)    3=冻结中    4=解
冻中)",
          "format": "int32"
        },
        "platformSetState": {
          "type": "integer",
          "description": "平台方设置状态(1=冻结    2=已启用(未冻结)    3=冻结中    4=解
冻中)",
          "format": "int32"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "errorLogCode": {
```

```
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfo«OutOaiOpbAccountFreezeStatus»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiOpbAccountFreezeStatus](#)	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

ResultInfoPage«List«OutOaiOpbProjectSearches»»

```
{
  "title": "ResultInfoPage«List«OutOaiOpbProjectSearches»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
```

```
            "title": "OutOaiOpbProjectSearches",
            "required": [
              "opbChainName",
              "opbProjectId",
              "opbProjectName"
            ],
            "type": "object",
            "properties": {
              "opbChainName": {
                "type": "string",
                "description": "开放联盟链框架"
              },
              "opbProjectId": {
                "type": "string",
                "description": "项目ID"
              },
              "opbProjectKey": {
                "type": "string",
                "description": "项目KEY"
              },
              "opbProjectName": {
                "type": "string",
                "description": "项目名称"
              }
            },
            "x-apifox-folder": "Schemas"
          }
        },
        "errorLogCode": {
          "type": "string",
          "description": "此标记同时写入到日志文件中，方便查找",
          "example": "0"
        },
        "message": {
          "type": "string",
          "description": "都是消息编码，前端自行国际化处理",
          "example": "0"
        },
        "resultPageInfo": {
          "title": "PageInfo",
          "type": "object",
          "properties": {
            "firstPage": {
              "type": "boolean"
            },
            "lastPage": {
              "type": "boolean"
            },
            "pageNum": {
              "type": "integer",
              "format": "int32"
            },
            "pageSize": {
              "type": "integer",
              "format": "int32"
            },
            "pages": {
              "type": "integer",
```

```
            "format": "int32"
          },
          "total": {
            "type": "integer",
            "format": "int64"
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "x-apifox-folder": "Schemas"
  }
```

ResultInfoPage«List«OutOaiOpbProjectSearches»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiOpbProjectSearches]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理
resultPageInfo	PageInfo	false	none	none

InOpbOaiProjectSearches

```
{
  "title": "InOpbOaiProjectSearches",
  "type": "object",
  "properties": {
    "clientId": {
      "type": "integer",
      "format": "int32"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链框架",
      "format": "int32"
    },
    "opbProjectName": {
      "type": "string",
      "description": "项目名称"
    }
```

```
    },
    "x-apifox-folder": "Schemas"
  }
```

InOpbOaiProjectSearches

属性

名称	类型	必选	约束	说明
clientId	integer(int32)	false	none	none
opbChainId	integer(int32)	false	none	开放联盟链框架
opbProjectName	string	false	none	项目名称

ResultInfoPage«List«OutOaiDdcSearchSearchesTransfer»»

```
{
  "title": "ResultInfoPage«List«OutOaiDdcSearchSearchesTransfer»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
        "title": "OutOaiDdcSearchSearchesTransfer",
        "required": [
          "ddcId",
          "ddcTransferId",
          "ddcType",
          "fromOptChainClientAddress",
          "platformDdcId",
          "toOptChainClientAddress",
          "tradeHash",
          "tradeTime",
          "tradeType",
          "transQuantity"
```

```json
    ],
    "type": "object",
    "properties": {
      "ddcId": {
        "type": "string",
        "description": "DDC ID",
        "example": "22"
      },
      "ddcTransferId": {
        "type": "string",
        "description": "DDC 流转记录ID",
        "example": "22"
      },
      "ddcType": {
        "type": "integer",
        "description": "DDC 类型 721=721合约    1155=1155合约    默认0",
        "format": "int32"
      },
      "fromOptChainClientAddress": {
        "type": "string",
        "description": "源帐户地址",
        "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
      },
      "platformDdcId": {
        "type": "string",
        "description": "平台DDC ID",
        "example": "22"
      },
      "toOptChainClientAddress": {
        "type": "string",
        "description": "目标帐户地址",
        "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
      },
      "tradeHash": {
        "type": "string",
        "description": "交易Hash",
        "example": "e3dd417b08a1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
      },
      "tradeTime": {
        "type": "object",
        "description": "交易时间",
        "example": "2021-12-07 15:08:01"
      },
      "tradeType": {
        "type": "integer",
        "description": "交易类型   1=生成 2=流转   10=销毁",
        "format": "int32",
        "example": 1
      },
      "transQuantity": {
        "type": "integer",
        "description": "流转数量",
        "format": "int64",
        "example": 1
      }
    },
    "x-apifox-folder": "Schemas"
}
```

```
      },
      "errorLogCode": {
        "type": "string",
        "description": "此标记同时写入到日志文件中，方便查找",
        "example": "0"
      },
      "message": {
        "type": "string",
        "description": "都是消息编码，前端自行国际化处理",
        "example": "0"
      },
      "resultPageInfo": {
        "title": "PageInfo",
        "type": "object",
        "properties": {
          "firstPage": {
            "type": "boolean"
          },
          "lastPage": {
            "type": "boolean"
          },
          "pageNum": {
            "type": "integer",
            "format": "int32"
          },
          "pageSize": {
            "type": "integer",
            "format": "int32"
          },
          "pages": {
            "type": "integer",
            "format": "int32"
          },
          "total": {
            "type": "integer",
            "format": "int64"
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "x-apifox-folder": "Schemas"
  }
```

ResultInfoPage«List«OutOaiDdcSearchSearchesTransfer»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiDdcSearchSearchesTransfer]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理
resultPageInfo	PageInfo	false	none	none

OutOaiOpbAccountGasCostSearches

```
{
  "title": "OutOaiOpbAccountGasCostSearches",
  "required": [
    "gasNum",
    "opbChainClientAddress",
    "opbChainClientName",
    "opbChainId",
    "opbChainName",
    "serialNumber",
    "tradingTime"
  ],
  "type": "object",
  "properties": {
    "gasNum": {
      "type": "number",
      "description": "能量值(50长度8个小数点:50,8)",
      "format": "bigdecimal"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "链账户地址"
    },
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链框架ID",
      "format": "int32"
    },
    "opbChainName": {
```

```
      "type": "string",
      "description": "开放联盟链框架名称"
    },
    "serialNumber": {
      "type": "string",
      "description": "流水号"
    },
    "tradingTime": {
      "type": "string",
      "description": "交易时间 yyyy-MM-dd HH:mm:ss"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbAccountGasCostSearches

属性

名称	类型	必选	约束	说明
gasNum	number(bigdecimal)	true	none	能量值(50长度8个小数点:50,8)
opbChainClientAddress	string	true	none	链账户地址
opbChainClientName	string	true	none	链账户名称
opbChainId	integer(int32)	true	none	开放联盟链框架ID
opbChainName	string	true	none	开放联盟链框架名称
serialNumber	string	true	none	流水号
tradingTime	string	true	none	交易时间 yyyy-MM-dd HH:mm:ss

OutOaiOpbAccountCheckDetailsSearch

```
{
  "title": "OutOaiOpbAccountCheckDetailsSearch",
  "required": [
    "business",
    "createDate",
    "did",
    "gasNum",
    "opbChainClientAddress",
    "opbChainClientName",
    "opbChainClientType",
```

```
      "opbChainName",
      "opbChainType",
      "opsPlatformState",
      "platformSetState"
    ],
  "type": "object",
  "properties": {
    "business": {
      "type": "integer",
      "description": "业务费余额(分)",
      "format": "int64"
    },
    "createDate": {
      "type": "string",
      "description": "创建时间"
    },
    "did": {
      "type": "string",
      "description": "DID"
    },
    "gasNum": {
      "type": "number",
      "description": "能量值余额(最大50长度8个小数点)",
      "format": "bigdecimal"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "链账户地址"
    },
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称"
    },
    "opbChainClientType": {
      "type": "integer",
      "description": "用户类型(1=平台方 ， 2=平台方的用户)",
      "format": "int32"
    },
    "opbChainName": {
      "type": "string",
      "description": "开放联盟链框架"
    },
    "opbChainType": {
      "type": "string",
      "description": "链账户类型"
    },
    "openDdcYn": {
      "type": "integer",
      "description": "是否开通过DDC:<br/>1=未开通（只开通OPB没有上DDC合约）<br/>5=已开通
",
      "format": "int32"
    },
    "opsPlatformState": {
      "type": "integer",
      "description": "运营方设置状态(1=冻结      2=已启用(未冻结)      3=冻结中      4=解冻
中)",
      "format": "int32"
    },
```

```
    "platformSetState": {
      "type": "integer",
      "description": "平台方设置状态(1=冻结      2=已启用(未冻结)      3=冻结中      4=解冻
中)",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbAccountCheckDetailsSearch

属性

名称	类型	必选	约束	说明
business	integer(int64)	true	none	业务费余额(分)
createDate	string	true	none	创建时间
did	string	true	none	DID
gasNum	number(bigdecimal)	true	none	能量值余额(最大50长度8个小数点)
opbChainClientAddress	string	true	none	链账户地址
opbChainClientName	string	true	none	链账户名称
opbChainClientType	integer(int32)	true	none	用户类型(1=平台方，2=平台方的用户)
opbChainName	string	true	none	开放联盟链框架
opbChainType	string	true	none	链账户类型
openDdcYn	integer(int32)	false	none	是否开通过DDC:1=未开通（只开通OPB没有上DDC合约）5=已开通
opsPlatformState	integer(int32)	true	none	运营方设置状态(1=冻结 2=已启用(未冻结) 3=冻结中 4=解冻中)
platformSetState	integer(int32)	true	none	平台方设置状态(1=冻结 2=已启用(未冻结) 3=冻结中 4=解冻中)

ResultInfo«List«OutOaiOpbAccountFrameworkSearches»»

```
{
  "title": "ResultInfo«List«OutOaiOpbAccountFrameworkSearches»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
        "title": "OutOaiOpbAccountFrameworkSearches",
        "required": [
          "opbAlgorithmType",
          "opbChainId",
          "opbChainName"
        ],
        "type": "object",
        "properties": {
          "opbAlgorithmType": {
            "type": "integer",
            "description": "开放联盟链链算法名称",
            "format": "int32"
          },
          "opbChainId": {
            "type": "integer",
            "description": "开放联盟链链ID",
            "format": "int32"
          },
          "opbChainName": {
            "type": "string",
            "description": "开放联盟链链名称"
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
```

```
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfo«List«OutOaiOpbAccountFrameworkSearches»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiOpbAccountFrameworkSearches]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

InOpbOaiProjectSave

```
{
  "title": "InOpbOaiProjectSave",
  "required": [
    "opbChainId",
    "opbProjectName"
  ],
  "type": "object",
  "properties": {
    "opbChainId": {
      "type": "integer",
      "description": "框架ID",
      "format": "int32"
    },
    "opbProjectName": {
      "type": "string",
      "description": "项目名称"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOpbOaiProjectSave

属性

名称	类型	必选	约束	说明
opbChainId	integer(int32)	true	none	框架ID
opbProjectName	string	true	none	项目名称

InOaiDdcSearchSearchesTransfer

```
{
  "title": "InOaiDdcSearchSearchesTransfer",
  "required": [
    "ddcId"
  ],
  "type": "object",
  "properties": {
    "ddcId": {
      "type": "string",
      "description": "DDC ID",
      "example": "22"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiDdcSearchSearchesTransfer

属性

名称	类型	必选	约束	说明
ddcId	string	true	none	DDC ID

ResultInfo«OutOaiProjectSave»

```
{
  "title": "ResultInfo«OutOaiProjectSave»",
  "required": [
    "code",
    "errorLogCode",
```

```
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "title": "OutOaiProjectSave",
      "required": [
        "opbProjectId"
      ],
      "type": "object",
      "properties": {
        "opbProjectId": {
          "type": "string",
          "description": "项目ID"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfo«OutOaiProjectSave»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	OutOaiProjectSave	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

OutOaiDdcSearchSearchesDdc

```
{
  "title": "OutOaiDdcSearchSearchesDdc",
  "required": [
    "ddcId",
    "ddcName",
    "ddcOwners",
    "ddcPubTotal",
    "ddcState",
    "ddcType",
    "opsMgrState",
    "platformDdcId"
  ],
  "type": "object",
  "properties": {
    "ddcId": {
      "type": "string",
      "description": "DDC ID",
      "example": "22"
    },
    "ddcName": {
      "type": "string",
      "description": "DDC 名称",
      "example": "DDC1"
    },
    "ddcOwners": {
      "type": "string",
      "description": "DDC 所有者",
      "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
    },
    "ddcPubTotal": {
      "type": "integer",
      "description": "DDC 发行总数量  1155数量      721为1",
      "format": "int64"
    },
    "ddcState": {
      "type": "integer",
      "description": "DDC 状态  1=正常  2=销毁  默认0",
      "format": "int32",
      "example": 0
    },
    "ddcSymbol": {
      "type": "string",
      "description": "DDC 符号",
      "example": "DDC-A"
    },
    "ddcType": {
      "type": "integer",
      "description": "DDC 类型 721=721合约    1155=1155合约    默认0",
      "format": "int32"
    },
    "ddcUri": {
      "type": "string",
```

```
      "description": "DDC URI",
      "example": "https://ddc.reddate.com/{id}.json"
    },
    "opsMgrState": {
      "type": "integer",
      "description": "DDC 运营管理状态    1=冻结   2=正常（解冻）      默认0",
      "format": "int32",
      "example": 0
    },
    "platformDdcId": {
      "type": "string",
      "description": "平台DDC ID",
      "example": "22"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiDdcSearchSearchesDdc

属性

名称	类型	必选	约束	说明
ddcId	string	true	none	DDC ID
ddcName	string	true	none	DDC 名称
ddcOwners	string	true	none	DDC 所有者
ddcPubTotal	integer(int64)	true	none	DDC 发行总数量 1155数量 721为1
ddcState	integer(int32)	true	none	DDC 状态 1=正常 2=销毁 默认0
ddcSymbol	string	false	none	DDC 符号
ddcType	integer(int32)	true	none	DDC 类型 721=721合约 1155=1155合约 默认0
ddcUri	string	false	none	DDC URI
opsMgrState	integer(int32)	true	none	DDC 运营管理状态 1=冻结 2=正常（解冻） 默认0
platformDdcId	string	true	none	平台DDC ID

OutOaiDdcSearchSearchesTransfer

```
{
  "title": "OutOaiDdcSearchSearchesTransfer",
  "required": [
```

```json
      "ddcId",
      "ddcTransferId",
      "ddcType",
      "fromOptChainClientAddress",
      "platformDdcId",
      "toOptChainClientAddress",
      "tradeHash",
      "tradeTime",
      "tradeType",
      "transQuantity"
  ],
  "type": "object",
  "properties": {
    "ddcId": {
      "type": "string",
      "description": "DDC ID",
      "example": "22"
    },
    "ddcTransferId": {
      "type": "string",
      "description": "DDC 流转记录ID",
      "example": "22"
    },
    "ddcType": {
      "type": "integer",
      "description": "DDC 类型 721=721合约   1155=1155合约   默认0",
      "format": "int32"
    },
    "fromOptChainClientAddress": {
      "type": "string",
      "description": "源帐户地址",
      "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
    },
    "platformDdcId": {
      "type": "string",
      "description": "平台DDC ID",
      "example": "22"
    },
    "toOptChainClientAddress": {
      "type": "string",
      "description": "目标帐户地址",
      "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
    },
    "tradeHash": {
      "type": "string",
      "description": "交易Hash",
      "example": "e3dd417b08a1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
    },
    "tradeTime": {
      "type": "object",
      "description": "交易时间",
      "example": "2021-12-07 15:08:01"
    },
    "tradeType": {
      "type": "integer",
      "description": "交易类型   1=生成 2=流转   10=销毁",
      "format": "int32",
      "example": 1
```

```
    },
    "transQuantity": {
      "type": "integer",
      "description": "流转数量",
      "format": "int64",
      "example": 1
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiDdcSearchSearchesTransfer

属性

名称	类型	必选	约束	说明
ddcId	string	true	none	DDC ID
ddcTransferId	string	true	none	DDC 流转记录ID
ddcType	integer(int32)	true	none	DDC 类型 721=721合约 1155=1155合约 默认0
fromOptChainClientAddress	string	true	none	源帐户地址
platformDdcId	string	true	none	平台DDC ID
toOptChainClientAddress	string	true	none	目标帐户地址
tradeHash	string	true	none	交易Hash
tradeTime	object	true	none	交易时间
tradeType	integer(int32)	true	none	交易类型 1=生成 2=流转 10=销毁
transQuantity	integer(int64)	true	none	流转数量

InOaiOpbAccountGasSave

```
{
  "title": "InOaiOpbAccountGasSave",
  "required": [
    "businessMoney",
    "opbChainClientAddress",
    "opbChainId",
    "thirdBillNo"
  ],
  "type": "object",
```

```
  "properties": {
    "businessMoney": {
      "type": "integer",
      "description": "充值GAS金额",
      "format": "int64"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    },
    "thirdBillNo": {
      "type": "string",
      "description": "第三方流水号"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountGasSave

属性

名称	类型	必选	约束	说明
businessMoney	integer(int64)	true	none	充值GAS金额
opbChainClientAddress	string	true	none	DDC链账户地址
opbChainId	integer(int32)	true	none	开放链框架ID
thirdBillNo	string	true	none	第三方流水号

ResultInfo«string»

```
{
  "title": "ResultInfo«string»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
```

```
        "description": "成功：0，失败：-1",
        "format": "int32",
        "example": 0
      },
      "data": {
        "type": "string"
      },
      "errorLogCode": {
        "type": "string",
        "description": "此标记同时写入到日志文件中，方便查找",
        "example": "0"
      },
      "message": {
        "type": "string",
        "description": "都是消息编码，前端自行国际化处理",
        "example": "0"
      }
    },
    "x-apifox-folder": "Schemas"
}
```

ResultInfo«string»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	string	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

InOaiDdcSearchSearchesDdc

```
{
  "title": "InOaiDdcSearchSearchesDdc",
  "type": "object",
  "properties": {
    "ddcIdOrDdcOwner": {
      "type": "string",
      "description": "DDC ID 或 DDC 所有者",
      "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiDdcSearchSearchesDdc

属性

名称	类型	必选	约束	说明
ddcIdOrDdcOwner	string	false	none	DDC ID 或 DDC 所有者

RequestPageInfo«InOaiDdcSearchSearchesTransfer »

```
{
  "title": "RequestPageInfo«InOaiDdcSearchSearchesTransfer»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiDdcSearchSearchesTransfer",
      "required": [
        "ddcId"
      ],
      "type": "object",
      "properties": {
        "ddcId": {
          "type": "string",
          "description": "DDC ID",
          "example": "22"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
```

```
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
          "example": 5
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

RequestPageInfo«InOaiDdcSearchSearchesTransfer»

属性

名称	类型	必选	约束	说明
data	InOaiDdcSearchSearchesTransfer	true	none	none
page	InPage	true	none	none

InOaiOpbAccountFreezeStatus

```
{
  "title": "InOaiOpbAccountFreezeStatus",
  "required": [
    "opbChainClientAddress",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
```

```
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountFreezeStatus

属性

名称	类型	必选	约束	说明
opbChainClientAddress	string	true	none	DDC链账户地址
opbChainId	integer(int32)	true	none	开放链框架ID

InOaiOpbAccountBusinessSave

```
{
  "title": "InOaiOpbAccountBusinessSave",
  "required": [
    "businessMoney",
    "opbChainClientAddress",
    "opbChainId",
    "thirdBillNo"
  ],
  "type": "object",
  "properties": {
    "businessMoney": {
      "type": "integer",
      "description": "充值业务费金额(单位：分)",
      "format": "int64"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    },
    "thirdBillNo": {
      "type": "string",
      "description": "第三方流水号"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountBusinessSave

属性

名称	类型	必选	约束	说明
businessMoney	integer(int64)	true	none	充值业务费金额(单位：分)
opbChainClientAddress	string	true	none	DDC链账户地址
opbChainId	integer(int32)	true	none	开放链框架ID
thirdBillNo	string	true	none	第三方流水号

OutOaiOpbAccountClientTypeSearches

```
{
  "title": "OutOaiOpbAccountClientTypeSearches",
  "required": [
    "opbCertType",
    "opbCertTypeName",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbCertType": {
      "type": "integer",
      "description": "证书模式类型",
      "format": "int32"
    },
    "opbCertTypeName": {
      "type": "string",
      "description": "证书模式名称"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链链ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbAccountClientTypeSearches

属性

名称	类型	必选	约束	说明
opbCertType	integer(int32)	true	none	证书模式类型
opbCertTypeName	string	true	none	证书模式名称
opbChainId	integer(int32)	true	none	开放联盟链链ID

InOaiOpbAccountBusinessResultSearch

```json
{
  "title": "InOaiOpbAccountBusinessResultSearch",
  "required": [
    "clientReqSn",
    "opbChainClientAddress"
  ],
  "type": "object",
  "properties": {
    "clientReqSn": {
      "type": "string",
      "description": "第三方流水号"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountBusinessResultSearch

属性

名称	类型	必选	约束	说明
clientReqSn	string	true	none	第三方流水号
opbChainClientAddress	string	true	none	DDC链账户地址

InOaiOpbAccountCreateSave

```json
{
  "title": "InOaiOpbAccountCreateSave",
  "required": [
    "opbChainClientName",
    "opbChainClientType",
    "opbChainId",
    "opbKeyType",
    "proof"
  ],
  "type": "object",
  "properties": {
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称",
      "example": "XXXXX"
    },
    "opbChainClientPass": {
      "type": "string",
      "description": "秘钥托管密码(根据链账户类型为1，值必填)",
      "example": "1"
    },
    "opbChainClientType": {
      "type": "integer",
      "description": "用户类型(1=平台方 2=平台方的用户)",
      "format": "int32",
      "example": 1
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链框架ID（调用接口：OPB-框架列表查询）",
      "format": "int32",
      "example": 1
    },
    "opbClientAddress": {
      "type": "string",
      "description": "上传链账户地址(根据链账户类型为3，值必填)",
      "example": "3"
    },
    "opbKeyType": {
      "type": "integer",
      "description": "链账户类型（调用接口：OPB-框架支持的链账户类型）",
      "format": "int32",
      "example": 1
    },
    "opbPublicKey": {
      "type": "string",
      "description": "上传公钥公钥(根据链账户类型为2，值必填)",
      "example": "2"
    },
    "openDdc": {
      "type": "integer",
      "description": "是否开通DDC<br/> 1-不开通<br/> 5=开通<br/> ",
      "format": "int32",
      "example": 1
    },
    "proof": {
      "type": "string",
```

```
        "description": "DDC业务开通凭证",
        "example": "1"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountCreateSave

属性

名称	类型	必选	约束	说明
opbChainClientName	string	true	none	链账户名称
opbChainClientPass	string	false	none	秘钥托管密码(根据链账户类型为1，值必填)
opbChainClientType	integer(int32)	true	none	用户类型(1=平台方 2=平台方的用户)
opbChainId	integer(int32)	true	none	开放联盟链框架ID（调用接口：OPB-框架列表查询）
opbClientAddress	string	false	none	上传链账户地址(根据链账户类型为3，值必填)
opbKeyType	integer(int32)	true	none	链账户类型（调用接口：OPB-框架支持的链账户类型）
opbPublicKey	string	false	none	上传公钥公钥(根据链账户类型为2，值必填)
openDdc	integer(int32)	false	none	是否开通DDC 1-不开通 5=开通
proof	string	true	none	DDC业务开通凭证

ResultInfo«OutOaiOpbAccountGasResultSearche»

```
{
  "title": "ResultInfo«OutOaiOpbAccountGasResultSearche»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
```

```
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "title": "OutOaiOpbAccountGasResultSearche",
      "required": [
        "clientReqSn",
        "opbChainClientAddress",
        "rechargeState"
      ],
      "type": "object",
      "properties": {
        "clientReqSn": {
          "type": "string",
          "description": "第三方流水号"
        },
        "opbChainClientAddress": {
          "type": "string",
          "description": "链账户地址"
        },
        "rechargeState": {
          "type": "integer",
          "description": "GAS充值状态",
          "format": "int32"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfo«OutOaiOpbAccountGasResultSearche»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	OutOaiOpbAccountGasResultSearche	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

InOaiOpbAccountGasResultSearch

```json
{
  "title": "InOaiOpbAccountGasResultSearch",
  "required": [
    "clientReqSn",
    "opbChainClientAddress"
  ],
  "type": "object",
  "properties": {
    "clientReqSn": {
      "type": "string",
      "description": "第三方流水号"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountGasResultSearch

属性

名称	类型	必选	约束	说明
clientReqSn	string	true	none	第三方流水号
opbChainClientAddress	string	true	none	DDC链账户地址

InOaiOpbAccountCheckDetailsSearch

```
{
  "title": "InOaiOpbAccountCheckDetailsSearch",
  "required": [
    "opbChainClientAddress",
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "DDC链账户地址"
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放链框架ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountCheckDetailsSearch

属性

名称	类型	必选	约束	说明
opbChainClientAddress	string	true	none	DDC链账户地址
opbChainId	integer(int32)	true	none	开放链框架ID

InOaiOpbAccountGasCostSearches

```
{
  "title": "InOaiOpbAccountGasCostSearches",
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
      "type": "string",
      "description": "链账户地址"
    },
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称"
```

```
    },
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链框架",
      "format": "int32"
    },
    "serialNumber": {
      "type": "string",
      "description": "流水号"
    },
    "tradingEndTime": {
      "type": "string",
      "description": "交易日期结束  yyyy-MM-dd"
    },
    "tradingStartTime": {
      "type": "string",
      "description": "交易日期开始  yyyy-MM-dd"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountGasCostSearches

属性

名称	类型	必选	约束	说明
opbChainClientAddress	string	false	none	链账户地址
opbChainClientName	string	false	none	链账户名称
opbChainId	integer(int32)	false	none	开放联盟链框架
serialNumber	string	false	none	流水号
tradingEndTime	string	false	none	交易日期结束 yyyy-MM-dd
tradingStartTime	string	false	none	交易日期开始 yyyy-MM-dd

RequestPageInfo«InOaiOpbAccountGasCostSearches»

```
{
  "title": "RequestPageInfo«InOaiOpbAccountGasCostSearches»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
```

```json
    "properties": {
      "data": {
        "title": "InOaiOpbAccountGasCostSearches",
        "type": "object",
        "properties": {
          "opbChainClientAddress": {
            "type": "string",
            "description": "链账户地址"
          },
          "opbChainClientName": {
            "type": "string",
            "description": "链账户名称"
          },
          "opbChainId": {
            "type": "integer",
            "description": "开放联盟链框架",
            "format": "int32"
          },
          "serialNumber": {
            "type": "string",
            "description": "流水号"
          },
          "tradingEndTime": {
            "type": "string",
            "description": "交易日期结束    yyyy-MM-dd"
          },
          "tradingStartTime": {
            "type": "string",
            "description": "交易日期开始    yyyy-MM-dd"
          }
        },
        "x-apifox-folder": "Schemas"
      },
      "page": {
        "title": "InPage",
        "required": [
          "pageNum"
        ],
        "type": "object",
        "properties": {
          "pageNum": {
            "type": "integer",
            "description": "分页：从1开始",
            "format": "int32",
            "example": 1
          },
          "pageSize": {
            "type": "integer",
            "description": "每页大小，由前端控制。如果不传则全部查询",
            "format": "int32",
            "example": 5
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "x-apifox-folder": "Schemas"
}
```

RequestPageInfo«InOaiOpbAccountGasCostSearches»

属性

名称	类型	必选	约束	说明
data	InOaiOpbAccountGasCostSearches	true	none	none
page	InPage	true	none	none

RequestPageInfo«InOaiDdcSearchSearchesDdc»

```
{
  "title": "RequestPageInfo«InOaiDdcSearchSearchesDdc»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiDdcSearchSearchesDdc",
      "type": "object",
      "properties": {
        "ddcIdOrDdcOwner": {
          "type": "string",
          "description": "DDC ID 或 DDC 所有者",
          "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "page": {
      "title": "InPage",
      "required": [
        "pageNum"
      ],
      "type": "object",
      "properties": {
        "pageNum": {
          "type": "integer",
          "description": "分页：从1开始",
          "format": "int32",
          "example": 1
        },
        "pageSize": {
          "type": "integer",
          "description": "每页大小，由前端控制。如果不传则全部查询",
          "format": "int32",
```

```
        "example": 5
      }
    },
    "x-apifox-folder": "Schemas"
  }
},
"x-apifox-folder": "Schemas"
}
```

RequestPageInfo«InOaiDdcSearchSearchesDdc»

属性

名称	类型	必选	约束	说明
data	InOaiDdcSearchSearchesDdc	true	none	none
page	InPage	true	none	none

RequestPageInfo«InOaiOpbAccountBusinessCostSearches»

```
{
  "title": "RequestPageInfo«InOaiOpbAccountBusinessCostSearches»",
  "required": [
    "data",
    "page"
  ],
  "type": "object",
  "properties": {
    "data": {
      "title": "InOaiOpbAccountBusinessCostSearches",
      "type": "object",
      "properties": {
        "opbChainClientAddress": {
          "type": "string",
          "description": "链账户地址"
        },
        "opbChainClientName": {
          "type": "string",
          "description": "链账户名称"
        },
        "opbChainId": {
          "type": "integer",
          "description": "开放联盟链框架",
          "format": "int32"
        },
        "serialNumber": {
          "type": "string",
```

```
            "description": "流水号"
          },
          "tradingEndTime": {
            "type": "string",
            "description": "交易日期结束　yyyy-MM-dd"
          },
          "tradingStartTime": {
            "type": "string",
            "description": "交易日期开始　yyyy-MM-dd"
          },
          "tradingType": {
            "type": "string",
            "description": "交易类型　1=生成 2=流转　10=销毁"
          }
        },
        "x-apifox-folder": "Schemas"
      },
      "page": {
        "title": "InPage",
        "required": [
          "pageNum"
        ],
        "type": "object",
        "properties": {
          "pageNum": {
            "type": "integer",
            "description": "分页：从1开始",
            "format": "int32",
            "example": 1
          },
          "pageSize": {
            "type": "integer",
            "description": "每页大小，由前端控制。如果不传则全部查询",
            "format": "int32",
            "example": 5
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "x-apifox-folder": "Schemas"
  }
```

RequestPageInfo«InOaiOpbAccountBusinessCostSearches»

属性

名称	类型	必选	约束	说明
data	InOaiOpbAccountBusinessCostSearches	true	none	none
page	InPage	true	none	none

ResultInfoPage«List«OutOaiDdcSearchSearchesDdc »»

```
{
  "title": "ResultInfoPage«List«OutOaiDdcSearchSearchesDdc»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
        "title": "OutOaiDdcSearchSearchesDdc",
        "required": [
          "ddcId",
          "ddcName",
          "ddcOwners",
          "ddcPubTotal",
          "ddcState",
          "ddcType",
          "opsMgrState",
          "platformDdcId"
        ],
        "type": "object",
        "properties": {
          "ddcId": {
            "type": "string",
            "description": "DDC ID",
            "example": "22"
          },
          "ddcName": {
            "type": "string",
            "description": "DDC 名称",
            "example": "DDC1"
          },
          "ddcOwners": {
            "type": "string",
            "description": "DDC 所有者",
            "example": "0x1eb54d19fc9ef9f7494cbb24546ffe3dd417b08a"
          },
          "ddcPubTotal": {
            "type": "integer",
            "description": "DDC 发行总数量   1155数量          721为1",
            "format": "int64"
          },
          "ddcState": {
```

```
          "type": "integer",
          "description": "DDC 状态  1=正常  2=销毁  默认0",
          "format": "int32",
          "example": 0
        },
        "ddcSymbol": {
          "type": "string",
          "description": "DDC 符号",
          "example": "DDC-A"
        },
        "ddcType": {
          "type": "integer",
          "description": "DDC 类型 721=721合约   1155=1155合约   默认0",
          "format": "int32"
        },
        "ddcUri": {
          "type": "string",
          "description": "DDC URI",
          "example": "https://ddc.reddate.com/{id}.json"
        },
        "opsMgrState": {
          "type": "integer",
          "description": "DDC 运营管理状态  1=冻结  2=正常（解冻）    默认0",
          "format": "int32",
          "example": 0
        },
        "platformDdcId": {
          "type": "string",
          "description": "平台DDC ID",
          "example": "22"
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "errorLogCode": {
    "type": "string",
    "description": "此标记同时写入到日志文件中，方便查找",
    "example": "0"
  },
  "message": {
    "type": "string",
    "description": "都是消息编码，前端自行国际化处理",
    "example": "0"
  },
  "resultPageInfo": {
    "title": "PageInfo",
    "type": "object",
    "properties": {
      "firstPage": {
        "type": "boolean"
      },
      "lastPage": {
        "type": "boolean"
      },
      "pageNum": {
        "type": "integer",
        "format": "int32"
```

```
        },
        "pageSize": {
          "type": "integer",
          "format": "int32"
        },
        "pages": {
          "type": "integer",
          "format": "int32"
        },
        "total": {
          "type": "integer",
          "format": "int64"
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfoPage«List«OutOaiDdcSearchSearchesDdc»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiDdcSearchSearchesDdc]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理
resultPageInfo	PageInfo	false	none	none

InOaiOpbDdcAccountCreateSave

```
{
  "title": "InOaiOpbDdcAccountCreateSave",
  "required": [
    "opbChainClientAddress",
    "opbChainClientType"
  ],
  "type": "object",
  "properties": {
    "opbChainClientAddress": {
```

```
      "type": "string",
      "description": "已有的链账户地址：如果已开通DDC则不需要调（调"DDC链账户-查看详情"接口
查询是否开通过DDC）"
    },
    "opbChainClientType": {
      "type": "integer",
      "description": "用户类型(1=平台方 2=平台方的用户)",
      "format": "int32",
      "example": 1
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbDdcAccountCreateSave

属性

名称	类型	必选	约束	说明
opbChainClientAddress	string	true	none	已有的链账户地址：如果已开通DDC则不需要调（调"DDC链账户-查看详情"接口查询是否开通过DDC）
opbChainClientType	integer(int32)	true	none	用户类型(1=平台方 2=平台方的用户)

InOaiOpbAccountClientTypeSearches

```
{
  "title": "InOaiOpbAccountClientTypeSearches",
  "required": [
    "opbChainId"
  ],
  "type": "object",
  "properties": {
    "opbChainId": {
      "type": "integer",
      "description": "开放联盟链链ID",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

InOaiOpbAccountClientTypeSearches

属性

名称	类型	必选	约束	说明
opbChainId	integer(int32)	true	none	开放联盟链链ID

ResultInfoPage«List«OutOaiOpbAccountBusinessCostSearches»»

```
{
  "title": "ResultInfoPage«List«OutOaiOpbAccountBusinessCostSearches»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
        "title": "OutOaiOpbAccountBusinessCostSearches",
        "required": [
          "businessMoney",
          "opbChainClientAddress",
          "opbChainClientName",
          "opbChainName",
          "serialNumber",
          "tradingTime",
          "tradingType"
        ],
        "type": "object",
        "properties": {
          "businessMoney": {
            "type": "integer",
            "description": "业务费（分）",
            "format": "int64"
          },
          "opbChainClientAddress": {
            "type": "string",
            "description": "链账户地址"
          },
          "opbChainClientName": {
            "type": "string",
```

```json
          "description": "链账户名称"
        },
        "opbChainName": {
          "type": "string",
          "description": "开放联盟链框架名称"
        },
        "serialNumber": {
          "type": "string",
          "description": "流水号"
        },
        "tradingTime": {
          "type": "string",
          "description": "交易时间  yyyy-MM-dd HH:mm:ss"
        },
        "tradingType": {
          "type": "integer",
          "description": "交易类型(1=充值  2=业务费扣费)",
          "format": "int32"
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "errorLogCode": {
    "type": "string",
    "description": "此标记同时写入到日志文件中，方便查找",
    "example": "0"
  },
  "message": {
    "type": "string",
    "description": "都是消息编码，前端自行国际化处理",
    "example": "0"
  },
  "resultPageInfo": {
    "title": "PageInfo",
    "type": "object",
    "properties": {
      "firstPage": {
        "type": "boolean"
      },
      "lastPage": {
        "type": "boolean"
      },
      "pageNum": {
        "type": "integer",
        "format": "int32"
      },
      "pageSize": {
        "type": "integer",
        "format": "int32"
      },
      "pages": {
        "type": "integer",
        "format": "int32"
      },
      "total": {
        "type": "integer",
        "format": "int64"
```

```
        }
      },
      "x-apifox-folder": "Schemas"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfoPage«List«OutOaiOpbAccountBusinessCostSearches»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiOpbAccountBusinessCostSearches]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理
resultPageInfo	PageInfo	false	none	none

ResultInfoPage«List«OutOaiOpbAccountGasCostSearches»»

```
{
  "title": "ResultInfoPage«List«OutOaiOpbAccountGasCostSearches»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
```

```json
        "title": "OutOaiOpbAccountGasCostSearches",
        "required": [
          "gasNum",
          "opbChainClientAddress",
          "opbChainClientName",
          "opbChainId",
          "opbChainName",
          "serialNumber",
          "tradingTime"
        ],
        "type": "object",
        "properties": {
          "gasNum": {
            "type": "number",
            "description": "能量值(50长度8个小数点:50,8)",
            "format": "bigdecimal"
          },
          "opbChainClientAddress": {
            "type": "string",
            "description": "链账户地址"
          },
          "opbChainClientName": {
            "type": "string",
            "description": "链账户名称"
          },
          "opbChainId": {
            "type": "integer",
            "description": "开放联盟链框架ID",
            "format": "int32"
          },
          "opbChainName": {
            "type": "string",
            "description": "开放联盟链框架名称"
          },
          "serialNumber": {
            "type": "string",
            "description": "流水号"
          },
          "tradingTime": {
            "type": "string",
            "description": "交易时间 yyyy-MM-dd HH:mm:ss"
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    },
    "resultPageInfo": {
      "title": "PageInfo",
```

```
        "type": "object",
        "properties": {
          "firstPage": {
            "type": "boolean"
          },
          "lastPage": {
            "type": "boolean"
          },
          "pageNum": {
            "type": "integer",
            "format": "int32"
          },
          "pageSize": {
            "type": "integer",
            "format": "int32"
          },
          "pages": {
            "type": "integer",
            "format": "int32"
          },
          "total": {
            "type": "integer",
            "format": "int64"
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "x-apifox-folder": "Schemas"
  }
```

ResultInfoPage«List«OutOaiOpbAccountGasCostSearches»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiOpbAccountGasCostSearches]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理
resultPageInfo	PageInfo	false	none	none

ResultInfo«OutOaiOpbAccountBusinessResultSearche»

```json
{
  "title": "ResultInfo«OutOaiOpbAccountBusinessResultSearche»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "title": "OutOaiOpbAccountBusinessResultSearche",
      "required": [
        "clientReqSn",
        "opbChainClientAddress",
        "rechargeState"
      ],
      "type": "object",
      "properties": {
        "clientReqSn": {
          "type": "string",
          "description": "第三方流水号"
        },
        "opbChainClientAddress": {
          "type": "string",
          "description": "链账户地址"
        },
        "rechargeState": {
          "type": "integer",
          "description": "业务费充值状态",
          "format": "int32"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
```

```
    }
```

ResultInfo«OutOaiOpbAccountBusinessResultSearche»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	OutOaiOpbAccountBusinessResultSearche	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

ResultInfo«List«OutOaiOpbAccountClientTypeSearches»»

```
{
  "title": "ResultInfo«List«OutOaiOpbAccountClientTypeSearches»»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "type": "array",
      "items": {
        "title": "OutOaiOpbAccountClientTypeSearches",
        "required": [
          "opbCertType",
          "opbCertTypeName",
          "opbChainId"
        ],
        "type": "object",
        "properties": {
```

```
          "opbCertType": {
            "type": "integer",
            "description": "证书模式类型",
            "format": "int32"
          },
          "opbCertTypeName": {
            "type": "string",
            "description": "证书模式名称"
          },
          "opbChainId": {
            "type": "integer",
            "description": "开放联盟链链ID",
            "format": "int32"
          }
        },
        "x-apifox-folder": "Schemas"
      }
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfo«List«OutOaiOpbAccountClientTypeSearches»»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	[OutOaiOpbAccountClientTypeSearches]	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

ResultInfo«OutOaiOpbAccountCheckDetailsSearch»

```json
{
  "title": "ResultInfo«OutOaiOpbAccountCheckDetailsSearch»",
  "required": [
    "code",
    "errorLogCode",
    "message"
  ],
  "type": "object",
  "properties": {
    "code": {
      "type": "integer",
      "description": "成功：0，失败：-1",
      "format": "int32",
      "example": 0
    },
    "data": {
      "title": "OutOaiOpbAccountCheckDetailsSearch",
      "required": [
        "business",
        "createDate",
        "did",
        "gasNum",
        "opbChainClientAddress",
        "opbChainClientName",
        "opbChainClientType",
        "opbChainName",
        "opbChainType",
        "opsPlatformState",
        "platformSetState"
      ],
      "type": "object",
      "properties": {
        "business": {
          "type": "integer",
          "description": "业务费余额(分)",
          "format": "int64"
        },
        "createDate": {
          "type": "string",
          "description": "创建时间"
        },
        "did": {
          "type": "string",
          "description": "DID"
        },
        "gasNum": {
          "type": "number",
          "description": "能量值余额(最大50长度8个小数点)",
          "format": "bigdecimal"
        },
        "opbChainClientAddress": {
          "type": "string",
```

```json
          "description": "链账户地址"
        },
        "opbChainClientName": {
          "type": "string",
          "description": "链账户名称"
        },
        "opbChainClientType": {
          "type": "integer",
          "description": "用户类型(1=平台方 ， 2=平台方的用户)",
          "format": "int32"
        },
        "opbChainName": {
          "type": "string",
          "description": "开放联盟链框架"
        },
        "opbChainType": {
          "type": "string",
          "description": "链账户类型"
        },
        "openDdcYn": {
          "type": "integer",
          "description": "是否开通过DDC:<br/>1=未开通（只开通OPB没有上DDC合约）<br/>5=已开通 ",
          "format": "int32"
        },
        "opsPlatformState": {
          "type": "integer",
          "description": "运营方设置状态(1=冻结    2=已启用(未冻结)     3=冻结中    4=解冻中)",
          "format": "int32"
        },
        "platformSetState": {
          "type": "integer",
          "description": "平台方设置状态(1=冻结    2=已启用(未冻结)     3=冻结中    4=解冻中)",
          "format": "int32"
        }
      },
      "x-apifox-folder": "Schemas"
    },
    "errorLogCode": {
      "type": "string",
      "description": "此标记同时写入到日志文件中，方便查找",
      "example": "0"
    },
    "message": {
      "type": "string",
      "description": "都是消息编码，前端自行国际化处理",
      "example": "0"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

ResultInfo«OutOaiOpbAccountCheckDetailsSearch»

属性

名称	类型	必选	约束	说明
code	integer(int32)	true	none	成功：0，失败：-1
data	OutOaiOpbAccountCheckDetailsSearch	false	none	none
errorLogCode	string	true	none	此标记同时写入到日志文件中，方便查找
message	string	true	none	都是消息编码，前端自行国际化处理

OutOaiOpbAccountFreezeStatus

```
{
  "title": "OutOaiOpbAccountFreezeStatus",
  "required": [
    "opsPlatformState",
    "platformSetState"
  ],
  "type": "object",
  "properties": {
    "opsPlatformState": {
      "type": "integer",
      "description": "运营方设置状态(1=冻结     2=已启用(未冻结)     3=冻结中     4=解冻
中)",
      "format": "int32"
    },
    "platformSetState": {
      "type": "integer",
      "description": "平台方设置状态(1=冻结     2=已启用(未冻结)     3=冻结中     4=解冻
中)",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbAccountFreezeStatus

属性

名称	类型	必选	约束	说明
opsPlatformState	integer(int32)	true	none	运营方设置状态(1=冻结 2=已启用(未冻结) 3=冻结中 4=解冻中)
platformSetState	integer(int32)	true	none	平台方设置状态(1=冻结 2=已启用(未冻结) 3=冻结中 4=解冻中)

OutOaiOpbAccountBusinessCostSearches

```
{
  "title": "OutOaiOpbAccountBusinessCostSearches",
  "required": [
    "businessMoney",
    "opbChainClientAddress",
    "opbChainClientName",
    "opbChainName",
    "serialNumber",
    "tradingTime",
    "tradingType"
  ],
  "type": "object",
  "properties": {
    "businessMoney": {
      "type": "integer",
      "description": "业务费（分）",
      "format": "int64"
    },
    "opbChainClientAddress": {
      "type": "string",
      "description": "链账户地址"
    },
    "opbChainClientName": {
      "type": "string",
      "description": "链账户名称"
    },
    "opbChainName": {
      "type": "string",
      "description": "开放联盟链框架名称"
    },
    "serialNumber": {
      "type": "string",
      "description": "流水号"
    },
    "tradingTime": {
      "type": "string",
      "description": "交易时间  yyyy-MM-dd HH:mm:ss"
```

```
      },
      "tradingType": {
        "type": "integer",
        "description": "交易类型(1=充值    2=业务费扣费)",
        "format": "int32"
      }
    },
    "x-apifox-folder": "Schemas"
  }
```

OutOaiOpbAccountBusinessCostSearches

属性

名称	类型	必选	约束	说明
businessMoney	integer(int64)	true	none	业务费（分）
opbChainClientAddress	string	true	none	链账户地址
opbChainClientName	string	true	none	链账户名称
opbChainName	string	true	none	开放联盟链框架名称
serialNumber	string	true	none	流水号
tradingTime	string	true	none	交易时间 yyyy-MM-dd HH:mm:ss
tradingType	integer(int32)	true	none	交易类型(1=充值 2=业务费扣费)

OutOaiOpbAccountGasResultSearche

```
{
  "title": "OutOaiOpbAccountGasResultSearche",
  "required": [
    "clientReqSn",
    "opbChainClientAddress",
    "rechargeState"
  ],
  "type": "object",
  "properties": {
    "clientReqSn": {
      "type": "string",
      "description": "第三方流水号"
    },
    "opbChainClientAddress": {
      "type": "string",
```

```
      "description": "链账户地址"
    },
    "rechargeState": {
      "type": "integer",
      "description": "GAS充值状态",
      "format": "int32"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiOpbAccountGasResultSearche

属性

名称	类型	必选	约束	说明
clientReqSn	string	true	none	第三方流水号
opbChainClientAddress	string	true	none	链账户地址
rechargeState	integer(int32)	true	none	GAS充值状态

OutOaiProjectSave

```
{
  "title": "OutOaiProjectSave",
  "required": [
    "opbProjectId"
  ],
  "type": "object",
  "properties": {
    "opbProjectId": {
      "type": "string",
      "description": "项目ID"
    }
  },
  "x-apifox-folder": "Schemas"
}
```

OutOaiProjectSave

属性

名称	类型	必选	约束	说明
opbProjectId	string	true	none	项目ID