物资云接口定义

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1 交换标准说明

接口地址

物资云只有一个接口地址，就是

/DataApi3/Consumer

请求头

content-type=application/json

#药品物资云用以配置返回的Json禁用驼峰命名法，默认启用驼峰命名法
response-content-type=json2
#耗材物资云用以配置返回的Json启用驼峰命名法，默认禁用驼峰命名法
response-content-type=camel

参数

```
{
  "BusinessType": "MY003",
  "HospitalCode": "hospitalCode",
  "EventType": "post",
  "Data": [
    {
      "ID":"1",
      "OrderNo":"12121"
    }
  ]
}
```

其中

> BusinessType 是指具体业务代码
>
> HospitalCode 是指具体业务涉及的医院代码
>
> EventType 是指事件类型

支持事件

事件类型	说明	方式	数据格式说明
post	消息发送	异步	必须包含所有数据字段， 接收方根据数据标识判断是否存在， 不存在则执行添加操作，否则执行更新操作
update	状态更新	实时	只需要包含标识字段和需要更新的字段， 根据标识查找，找到后更新提供的字段， 主要用于更新各种数据状态
updateDownloadState	更新下载状态	实时	只需要包含标识字段，和结果标识， 如果失败需要包含失败信息
cancel	异常回退， 取消， 作废等操作	实时	只需要包含标识字段，不需要额外字段， 接收方直接对该标识对应的数据执行撤销作废 操作

返回结果

异步方法的返回结果

异步方法（post）返回消息确认结果，只有成功或失败:

```
{
  "Code": 0,
  "Message": "消息确认成功",
  "Completed":false
}
```

接收方消息处理成功后会向事件源发送一个 updateDownloadState 事件
因为发起 updateDownloadState 事件需要通过DEP返回，所以需要将参数封装在返回数据结构的Data
中，如下：

```json
{
    "BusinessType": "MY003",
    "HospitalCode": "hospitalCode",
    "EventType": "updateDownloadState",//这个不需要写，dep转发的时候会自己加
    "Data": [
        {
            "Code": 0,
            "ID":"1",
            "OrderNo":"12121",
            "Message": "消息处理成功",
            "ValueMaps":[
                {
                    "OldValue":"1",
                    "NewValue":"2"
                }
            ]
        }
    ]
}
```

实时方法的返回结果

实时方法（update,cancel,updateDownloadState）返回下消息处理结果:

```json
{
    "Code": 0,
    "Message": "消息处理成功",
    "Completed":false
}
```
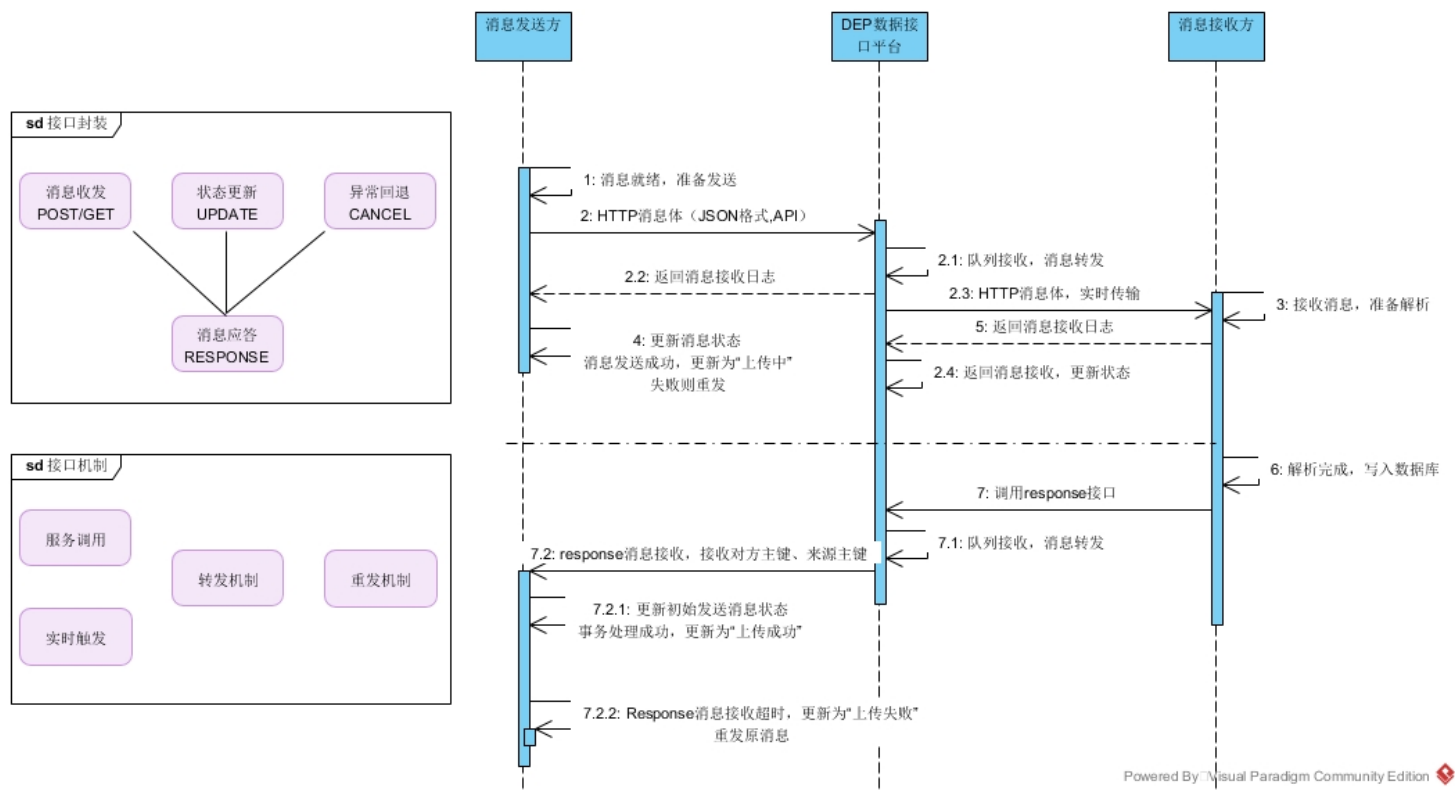
失败区分失败原因，并提供失败代码和消息:

```json
{
    "Code": 11002,
    "Message": "订单已开始配货，无法撤销。",
    "Completed":false
}
```

交换标准说明

sd 接口封装

| 消息收发 POST/GET | 状态更新 UPDATE | 异常回退 CANCEL |

消息应答 RESPONSE

sd 接口机制

服务调用　　转发机制　　重发机制

实时触发

消息发送方　　DEP数据接口平台　　消息接收方

1: 消息就绪，准备发送
2: HTTP消息体（JSON格式,API）
2.1: 队列接收，消息转发
2.2: 返回消息接收日志
2.3: HTTP消息体，实时传输
3: 接收消息，准备解析
5: 返回消息接收日志
4: 更新消息状态 消息发送成功，更新为"上传中" 失败则重发
2.4: 返回消息接收，更新状态
6: 解析完成，写入数据库
7: 调用response接口
7.1: 队列接收，消息转发
7.2: response消息接收，接收对方主键、来源主键
7.2.1: 更新初始发送消息状态 事务处理成功，更新为"上传成功"
7.2.2: Response消息接收超时，更新为"上传失败" 重发原消息

2 耗材

2.1 MY003 医院耗材规格

根据代码 Code 判断存在性，不存在则添加。

post-上传数据

说明

示例请求

```json
{
    "BusinessType": "MY003",
    "HospitalCode": "{{hospitalCode}}",
    "EventType": "post",
    "Data": [
        {
            "MaterialCode": "",
            "MaterialNo": "",
            "MaterialSpecNo": "",
            "MaterialID": "",
            "MaterialName": "",
            "MaterialCommonName": "",
            "MaterialHospitalName": "",
            "StandardClassifyIds": "",
            "StandardClassifyName": "",
            "RegCertId": "",
            "RegCertNo": "",
            "MaterialSpecID": "",
            "MaterialSpecCode": "",
            "MaterialSpecName": "",
            "FactoryCode": "",
            "FactoryID": "",
            "SocialCreditID": "",
            "FactoryName": "",
            "Unit": "",
            "UnitName": "",
            "PYJC": "",
            "WBJC": "",
            "ManagementCategory": "",
            "SourceType": "",
            "SourceTypeName": "",
            "Brand": "",
            "PackUnit": "",
            "PackUnitName": "",
            "PackQuantity": "",
            "Price": "",
            "MaterialGenre": "",
            "PackNote": "",
            "OriginPlaceName": "",
            "MaterialType": "",
            "FixedNumber": "",
            "BarcodeType": "",
            "ExchangeCodeID": "",
            "RuleTitle": "",
            "CustomClassifyIds": "",
            "CustomClassifyName": "",
            "DepartmentID": "",
            "DepartmentName": "",
            "DepartmentCode": "{hospitalCode}",
            "Status": "",
            "UpdateTime": "",
```

```
        "UpdaterID": "",
        "UpdaterName": "",
        "CreateUserName": "",
        "CreateUserID": "",
        "UpdateToDepStatus": "",
        "GTIN": "",
        "PurchaseCategory": "",
        "ColdChainManagement": "",
        "ColdChainMinTemperature": "",
        "ColdChainMaxTemperature": "",
        "DepartmentMaterialCatalog": "",
        "MaterialSpecPY": "",
        "FactoryPY": "",
        "RowTimestamp": "",
        "CreateTime": ""
      }
    ]
  }
```

请求结果

```
{
  "OrderNo": null,
  "ID": null,
  "Result": true,
  "Code": 0,
  "Message": "成功"
}
```

2.2 MY004 企业信息

post-上传数据

> 说明

示例请求

```
{//标注为【必传】的字段不能少，否则插入数据库的时候可能回报错，其余的字段可不填
    "BusinessType": "MY004",          //必传
    "HospitalCode": "Test001",        //必传
    "EventType": "post",              //必传
    "Data": [
        {
            "Code": "BH2221110",    //编码 必传
            "Name": "测试", //名称 必传
            "Type":1,//企业类型（1：生产厂家、2：供应商） 必传
            "OrgTypeCode": "",                    //企业类型代码参照dep 必传
            "BusinessLic": "987654321012345678",//营业执照 必传
            "Persider": "制单人",                  //法人
            "PersiderTel":"", //法人电话
            "PersiderEmail":"",//法人邮箱
            "RegAddrString": "安徽省 合肥市 肥西县",//所属地区    省+空格+市+空格+县
            "RegisteredAddress": "ssasdsadasdas",           //注册地址
            "Contacter": "ppppp",                 //联系人姓名
            "ContactNumber": "13911111111",           //联系人电话
            "ContactEmail": "213123@qq.com"           //联系人邮箱
        }
    ]
}
```

请求结果

```
{
    "Code": 0,
    "Message": "成功",
    "Completed": true,
    "Data": [
        {
            "Code": 0,
            "Message": "新增成功",
            "OrderNo": "测试"
        }
    ]
}
```

2.3 MY014 供货关系

暂未维护

2.4 MY016 企业证件

> 包含企业证件，注册证等

post-上传数据

> 说明

示例请求

```json
{
    "BusinessType": "MY016",
    "HospitalCode": "201903070000008",
    "EventType": "post",
    "Data": [
        {
            "CompCode":"BH2221110",
            "CompType":1,
            "CredentialsNo":"cesi123",
            "Type":"01", //参照物质云平台类型
            "FromTime":"2017-01-03",
            "ExpiredTime":"2999-12-31",//2999-12-31长期
            "State":1
        }
    ]
}
```

请求结果

```json
{
    "Code": 0,
    "Message": "成功",
    "Completed": true,
}
```

2.5 MY019 物资分类

post-上传数据

> 说明

示例请求

```
{
  "BusinessType": "MY019",
  "HospitalCode": "320113426010230",
  "EventType": "post",
  "Data": [
    {
      "Name": "一级分类",
      "NO": "NO02",
      "ParentNO": ""
    },
    {
      "Name": "二级分类",
      "NO": "NO0101",
      "ParentNO": "NO01"
    }
  ]
}
```

请求结果

```
{
  "Code": 0,
  "Message": "成功",
  "Completed": true,
  "Data": [
    {
      "OrderNo": "NO02",
      "Code": 0,
      "Message": "保存成功"
    },
    {
      "OrderNo": "NO0101",
      "Code": 0,
      "Message": "保存成功"
    }
  ]
}
```

2.6 MY101 订单信息

post下载订单

订单下载，如果订单号存在，则为更新

示例请求

示例请求

```json
{
    "BusinessType": "MY101",
    "HospitalCode": "test02",
    "EventType": "post",
    "Data": [
        {
            "ID": "20170828150936000001",
            "ID3": null,
            "ProductType": "0",
            "HospitalCode": "test02",
            "OrderNO": "Test20170809B00401",
            "SupplierCode": "苏0001",
            "Supplier": "测试供应商",
            "DistributionSiteCode": "03",
            "DistributionSite": "药库03",
            "ArrivalTime": "2016-12-28 14:55:01",
            "Creator": "制单人",
            "CreateTime": "2016-12-28 14:55:01",
            "Auditor": null,
            "AuditTime": null,
            "State": "0",
            "Memo": "金石订单1",
            "PPOrderNO": null,
            "OrderType": "0",
            "OrderLevel": "0",
            "Employee": "**",
            "SumQuantity": 4,
            "Amount": 13.8,
            "Abandoner": null,
            "AbandonTime": null,
            "AbandonType": null,
            "AbandonReason": null,
            "AcceptTime": null,
            "Source": null,
            "PurchaseDetail": [
                {
                    "ID": "20170828150936000010001",
                    "ID3": null,
                    "UniCode": "A.185770.1",
                    "UniCode3": "X00069400310010",
                    "Name": "克拉霉素分散片",
                    "Spec": "0.125g",
                    "Manufacturer": "成都恒瑞制药有限公司",
                    "Unit": "盒",
                    "Price": 1.2,
                    "Quantity": 1,
                    "Amount": 1.2,
                    "State": "0",
                    "Memo": "明细备注",
                    "Seq": 1141451443,
                    "PurchasePlanDetailID": null,
```

```
            "DeptCode": "科室编码1",
            "DeptName": "科室名称1",
            "StoreCode": "库房编码1",
            "StoreName": "库房名称1",
            "AbandonType": null,
            "AbandonReason": null
         }
      ]
   }
 ]
}
```

请求结果

```
{
  "Code": 0,
  "Message": "成功",
  "Completed": true,
  "Data": [
    {
      "ID": "20170828150936000001",
      "OrderNo": "1223"
    }
  ]
}
```

update-更新订单状态

审核，弃审，等操作

示例请求

```
{
    "BusinessType": "MY101",
    "HospitalCode": "320113426010230",
        "EventType":"update",
    "Data": [
        {
            "ID3": "20181023152047000001",
            "State": "6"
        },
        {
            "ID3": "20181102142707000001",
            "State": "7"
        }
    ]
}
```

请求结果

```
{
  "Code": 0,
  "Message": "成功",
  "Completed": true,
  "Data": [
    {
      "Code": 0,
      "Message": "成功"
    },
    {
      "Code": 0,
      "Message": "成功"
    }
  ]
}
```

2.7 MY102 配送单信息

post-上传数据

说明

示例请求

```json
{
    "BusinessType": "MY102",
    "HospitalCode": "test02",
    "EventType": "post",
    "Data": [
        {
            "HospitalCode": "test02",
            "OrderNO": "PS20190322",
            "SupplierCode": "苏0001"
        }
    ]
}
```

请求结果

```json
{
    "Code": 0,
    "Message": "成功",
    "Completed": true,
    "Data": [
        {
            "Code": 0,
            "OrderNO": "PS20190322"
        }
    ]
}
```

2.8 MY104 退货单信息

post-上传数据

> 说明

示例请求

```json
{
    "BusinessType": "MY104",
    "HospitalCode": "test02",
    "EventType": "post",
    "Data": [
        {
            "HospitalCode": "test02",
            "OrderNO": "thd0010",
            "SupplierCode": "苏0001",
            "DistributionSiteCode": "03",
            "Creator": "制单人",
            "CreateTime": "2016-12-28 14:55:01",
            "Memo": "备注",
            "RefundDetail": [
                {
                    "ID3": "123",
                    "UniCode": "A.101116.1",
                    "Quantity": 1,
                    "Price": 1.2,
                    "Amount": 1.2,
                    "BatchNO": "生产批号",
                    "ProductionDate": "2016-01-01",
                    "InvalidDate": "2017-01-01",
                    "Memo": "明细备注",
                    "DistributionDetailID3": "9fe7fcfe-9fcb-4ecc-8806-e0644f3e2a9e"
                }
            ]
        }
    ]
}
```

请求结果

```json
{
    "Code": 0,
    "Message": "成功",
    "Completed": true,
    "Data": [
        {
            "Code": 0,
            "OrderNo": "thd0010"
        }
    ]
}
```

2.9 MY106 配送单验收

2.10 MY109 发票验收

post-上传数据

> 说明

示例请求

```
{
  "BusinessType": "MY109",
  "HospitalCode": "test02",
  "EventType": "post",
  "Data": [
    {
      "ID": "FP20190123001",
      "DetectionAmount": "2",
      "DetectionState": "1",
      "DetectionMemo": "通过",
      "Acceptor": "验收人"
    }
  ]
}
```

请求结果

```
{
  "Code": 0,
  "Message": "成功",
  "Completed": true,
  "Data": [
    {
      "OrderNo": "FP20190123001",
      "Code": 0
    }
  ]
}
```

2.11 MY110 平台基础规格

post-上传数据

示例请求

```json
{
  "BusinessType": "MY110",
  "HospitalCode": "test02",
  "EventType": "post",
  "Data": [
    {
      "UniCode": "A.176183.10",
      "Brand": "品牌ABC",
      "StdClassificationNO": "NO0201",
      "ApprovalNumber": "测试bbb2",
      "Name": "耗材01",
      "Spec": "耗材规格",
      "TradeName": "",
      "ManufacturerCode": "黔20160024",
      "Manufacturer": "贵州天安药业股份有限公司",
      "ApprovalTime": "2014-09-01",
      "Unit": "瓶",
      "UnitRatio": 10,
      "PackUnit": "盒",
      "PackNote": "850mg×60片/瓶,塑料瓶",
      "PackQuantity": 60,
      "ReferencePrice": 0,
      "RetailPrice": 0,
      "SimpleCharacter": "hc",
      "Range": "范围",
      "Memo": null,
      "Type": "0",
      "ID3": "tttttt002",
      "Category": "1",
      "MaterialsProps": 1,
      "PurchaseCategory": 1,
      "Enable": true,
      "ColdChainTempFrom": 12.3,
      "ColdChainTempTo": 45.6
    }
  ]
}
```

请求结果

```json
{
  "Code": 0,
  "Message": "成功",
  "Completed": true
}
```

2.12 MY114 跟台订单

post-上传数据

> 说明

示例请求

```json
{
    "BusinessType": "MY114",
    "HospitalCode": "201902200000000001",
    "EventType": "post",
    "Data": [
        {
            "patientName": "小李",
            "patientSex": "男",
            "ID": null,
            "ID3": "201803021400014000001",
            "ProductType": "1",
            "HospitalCode": "201902200000000001",
            "OrderNO": "Test002",
            "SupplierCode": "GB000001",
            "Supplier": "物资云耗材合并版供应商",
            "DistributionSiteCode": null,
            "DistributionSite": null,
            "Creator": "制单人",
            "CreateTime": "2016-12-28 14:55:01",
            "Auditor": null,
            "AuditTime": null,
            "State": "2",
            "Memo": "备注",
            "Managed": true,
            "DeptCode": "C001",
            "DeptName": "C001科室",
            "StoreCode": "T001",
            "StoreName": "T001库房",
            "SurgeryName": "手术名称",
            "HospitalizationNo": "382183712831",
            "CertificateNo": "341267198007155362",
            "PatientName": "小李",
            "PatientSex": "男",
            "SurgeonName": "医生姓名",
            "SurgeryTime": "2018-05-28 14:55:01",
            "ArrivalTime": "2018-05-25 14:55:01",
            "DeliveryAddress": "合肥市a区a医院",
            "SurgeryMemo": "手术备注",
            "SurgeryDetails": [
                {
                    "surgeryID": "201803021400014000001",
                    "ID": "2018030214001400000010001",
                    "ID3": null,
                    "UniCode": "ggbh001",
                    "UniCode3": null,
                    "Name": "手术刀",
                    "Spec": "10mm",
                    "Manufacturer": "测试生产厂家2017110",
                    "Unit": "枚",
                    "Price": 1.2,
                    "Quantity": 1,
```

```json
          "Amount": 1.2,
          "State": "0",
          "Memo": "明细备注",
          "HisCode": null,
          "Seq": 1,
          "AbandonType": null,
          "AbandonReason": null
        },
        {
          "surgeryID": "201803021400140000001",
          "ID": "201803021400140000010002",
          "ID3": null,
          "UniCode": "A.213332.8",
          "UniCode3": null,
          "Name": "住院部桌子",
          "Spec": "上传01",
          "Manufacturer": "合肥生产厂商",
          "Unit": "根",
          "Price": 4.2,
          "Quantity": 3,
          "Amount": 12.6,
          "State": "0",
          "Memo": "明细备注2",
          "HisCode": null,
          "Seq": 2,
          "AbandonType": null,
          "AbandonReason": null
        }
      ]
    }
  ]
}
```

请求结果

```json
{
    "Code": 0,
    "Message": "成功",
    "Completed": true,
    "Data": [
        {
            "OrderNo": "Test002",//订单编号
            "ID": "201803021400140000001",//--ID3，院内订单ID
            "Code": 0,
            "Message": "跟台订单【Test002】成功。"
        }
    ]
}
```

2.13 MY118 发票凭证

post-上传数据

示例请求

```
{//标注为【必传】的字段不能少，否则插入数据库的时候可能回报错，其余的字段可不填
    "BusinessType": "MY118",           //必传
    "HospitalCode": "Test001",         //必传
    "EventType": "post",               //必传
    "Data": [
        {
            "ID3": "20170828150936000001",
            "HospitalCode": "320113426010230",   //必传
            "SupplierCode": "1",                  //必传
            "DateTime": "2019-01-17 14:55:01",
            "Creator": "制单人",                   //必传
            "CreateTime": "2019-01-17 14:55:01",//必传
            "IsCreateInvoice": 0,
            "OrderNo": "NO00167",                 //必传
            "VoucherType": 1,                     //凭证类型
            "Status": 1,
            "Memo": "备注",
            "InvoiceCredentialDetail": [          //必传
                {
                    "ScanTime": "2018-12-28 14:55:01",
                    "CreateTime": "2018-11-20 14:55:01",
                    "ID3": "20170828150936000002",
                    "UniCode": "A.1011336.1",                //必传
                    "BatchNO": "生产批号",                    //必传
                    "SterilzeDate": "2018-12-28 14:55:01",   //必传
                    "InvalidDate": "2028-12-28 14:55:01",    //必传
                    "MasterBarCode": "bh23456",              //商品主条码
                    "SlaveBarCode": "code2334245",           //商品从条码
                    "Price": 12,                             //必传
                    "Quantity": 3,                           //必传
                    "Unit": "箱",                            //必传
                    "Amount": 36,                            //必传
                    "RetailPrice": 15,//零售价                //必传
                    "Operator": "操作员candy",
                    "HospitalizationNo": "住院号001",         //必传
                    "PatientName": "患者姓名张三",            //必传
                    "Source": "1",                                    //必须是最大长度为"1"的字符串或数组类型
                    "ChargeEncode": "hhhh",
                    "ExecutDept": "执行科室1",
                    "Store": "库房名称1",
                    "DistributionDetailID3": "1111111111"
                },
                {
                    "ScanTime": "2018-12-28 14:55:01",
                    "CreateTime": "2018-11-28 14:55:01",
                    "ID3": "20170828150936000003",
                    "UniCode": "A.1011336.1",
                    "BatchNO": "生产批号",
                    "SterilzeDate": "2018-12-28 14:55:01",
                    "InvalidDate": "2028-12-28 14:55:01",
                    "MasterBarCode": "bh23456",
```

```
                    "SlaveBarCode": "code2334245",
                    "Price": 15,
                    "Quantity": 4,
                    "Unit": "箱",
                    "Amount": 60,
                    "RetailPrice": 20,
                    "Operator": "操作员candy",
                    "HospitalizationNo": "住院号002",
                    "PatientName": "患者姓名李四",
                    "Source": "1",
                    "ChargeEncode": "hhhh2",
                    "ExecutDept": "执行科室2",
                    "Store": "库房名称2",
                    "DistributionDetailID3": "222222"
                }
            ]
        }
    ]
}
```

请求结果

```
{
  "Code": 0,
  "Message": "成功",
  "Completed": true,
  "Data": [
    {
      "Code": 0,
      "Message": "发票凭证下载到监管平台成功"
    }
  ]
}
```

3 药品

3.1 YY001 医院信息

3.2 YY002 配送点消息

4 附录

4.1 数据字典

数据字典 主要是对一般常用的枚举类型的定义。

1 订单类型

数值	说明
0	日常采购
1	特需采购

2 订单级别

数值	说明
0	普通
1	紧急

3 查询类别

数值	说明
0	普通
1	下载

4 下载状态

数值	说明
0	未下载
1	已下载
2	全部

5 单位类型

数值	说明
1	生产厂家
2	供应商

6 生产厂家类型

数值	说明
1	生产厂家(境内)
2	生产厂家(境外)
5	国外厂家(国内分公司)

7 供应商类型

数值	说明
3	代理商(国内)
4	代理商(港澳台)

8 产品类型

数值	说明
0	药品
1	耗材

9 消耗类型

数值	说明
1	正常消耗

数值	说明
2	撤销

10 消耗来源

数值	说明
1	门诊
2	住院

11 报损报溢类型

数值	说明
1	报损
2	报溢

12 销售类型

数值	说明
0	普通
1	赠送
2	寄售

13 中药类型

数值	说明
1	饮片
2	方剂

14 数据状态

数值	说明
0	有效
2	供应商接收订单
3	已验收
4	验收已确认
9	作废

15 配送检品状态

数值	说明
0	验收不通过
1	验收通过

16 性别

数值	说明
1	男
2	女
9	其他

17 代煎代配类型

数值	说明
0	院内处理
1	代煎快递
2	代配快递
3	代煎自提

数值	说明
4	代配自提

18 数据操作类型

数值	说明
0	新增
9	删除

19 配送检品数据状态

数值	说明
0	待验收/检品
1	已验收/检品
2	验收结果已确认

20 处方状态

数值	说明
00	作废
10	抓药开始
11	抓药完成
20	煎药开始
21	煎药完成
30	配送开始
31	收药

21 配送单据类型

数值	说明
1	普通单据
2	代销
3	临时

22 发票类型

数值	说明
1	根据订单生成
2	根据配送生成
3	根据退货生成
4	根据消耗生成
5	根据红冲生成

23 跟台订单状态

数值	说明
0	待提交
1	待审核
2	审核不通过
3	审核通过
5	待配货
7	已配货
9	已验收
10	审核前撤销
11	采购拒收
12	已拒收(供应商)

> 说明：假如状态前面带"-",表示"部分"。如"-5"表示"部分待配货"。

24 普通订单状态

数值	说明
1	待配货
2	已拒绝
3	配货中
4	已配货
5	已验收
6	预弃审
7	已弃审

4.2 数据格式

> **数据格式** 主要是对一般常用的数据类型的格式定义。

1 时间日期格式

数值	示例
yyyy-MM-dd	2016-01-01
yyyy-MM-dd HH:mm:ss	2016-01-01 13:13:13