

中华人民共和国交通运输行业标准

JT/T XXXX—XXXX

海铁联运 列车运行追踪接口

Sea-rail intermodal transport—train tracking interface

(征求意见稿)

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# 前 言

本标准按照GB/T 1.1-2009给出的规则起草。

本标准由全国综合交通运输标准化技术委员会（SAC/TC 571）提出并归口。

本标准起草单位：连云港港口集团有限公司、青岛港（集团）有限公司、大连港集团有限公司、中国铁路上海局集团有限公司、交通运输部科学研究院

本标准主要起草人：

# 海铁联运 列车运行追踪接口

## 1 范围

本标准规定了海铁联运运输参与方之间进行列车及货物运行追踪所使用的数据交换接口的总体要求和接口描述。

本标准适用于海铁联运领域中整车、集装箱列车的运行追踪系统。

## 2 规范性引用文件

下列文件对于本文件的应用是必不可少的。凡是注日期的引用文件，仅注日期的版本适用于本文件。凡是不注日期的引用文件，其最新版本（包括所有的修改单）适用于本文件。

GB/T 7407 中国及世界主要海运贸易港口代码

## 3 术语和定义

下列术语与定义适用于本文件。

### 3.1

**海铁联运** sea-rail intermodal transport

采用海运和铁路两种运输方式完成的多式联运。

### 3.2

**口岸代理** port agent

在海铁联运的口岸地区，接受货主授权，在货物运输节点进行各类业务办理的企业。

### 3.3

**港口委托** dock entrust

在港口地区，用户通过合同的方式，委托码头或场站办理货物状态变更或发运的行为。

## 4 缩略语

以下缩略语适用于本文件。

FTP: 文件传输协议 (File Transfer Protocol)

HTTP: 超文本传输协议 (Hypertext Transfer Protocol)

JSON: JS 对象标记，是一种轻量级的数据交换格式 (JavaScript Object Notation)

SOAP: 简单对象访问协议，是用于交换XML编码信息的轻量级协议 (Simple Object Access Protocol)

WEB: 泛指网络、互联网 (Web)

XML: 可扩展标记语言 (Extensible Markup Language)

## 5 总体要求

### 5.1 业务要求

列车运行追踪接口通过海铁联运业务系统的业务关联获取数据，保证海运数据与铁运数据的有效衔接。

列车运行追踪接口可以通过WEB页面或系统对接等方式将数据传递给使用方。

列车运行追踪接口数据依赖海铁联运业务系统中铁路及海运的信息数据更新频度。

### 5.2 技术要求

列车运行追踪接口标准满足以下通用技术要求：

- a) 接口保持开放性，应部署在开放WEB环境，用户可以通过公网进行访问。
- b) 接口基于WebService方式进行数据交换。
- c) 接口应满足以下性能指标：
  - 1) 请求响应时间：80ms；
  - 2) 并发连接数：50个；
  - 3) 事务处理时间：200ms。

## 6 接口描述

### 6.1 数据交换结构

数据接口模型的XML Schame参见附录A。

### 6.2 主要接口

#### 6.2.1 列车车号位置实时追踪

##### 6.2.1.1描述：

按列车车号追踪列车当前位置。

##### 6.2.1.2接口函数声明：

String getlcinfoytrainno(String params)。

##### 6.2.1.3输入参数说明，见表1。

表 1 列车车号位置实时追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n. . 10	访问标识
2	access_token	M	an. . 22	应用认证信息
3	trainno	M	an. . 7	列车车号

##### 6.2.1.4返回值说明，见表2。

表 2 列车车号位置实时追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	departure_station_name	M	an..20	发站名
3	destination_station_name	M	an..20	到站名
4	ctnno	C	an11	集装箱箱号
5	current_location	M	an..20	当前位置
6	operation_time	M	an12	作业时间
7	status	M	an..10	状态（在途、终到）
8	vessel	C	an..100	船名航次
9	blno	C	an..100	提单号
10	cargo_name	M	an..40	品名
11	consignee	M	an..60	收货人
12	ship_date	M	an12	发运日期
13	destination_special_line	C	an..60	到达专用线
14	departure_specail_line	C	an..60	出发专用线
15	port_agent	M	an..40	口岸代理
16	Estimated_arrival_time	M	an..12	预计终到时间

## 6.2.2 车号历史轨迹追踪

### 6.2.2.1描述:

按车号追踪车辆在列车运行过程中停靠各站点及当前位置的历史轨迹，本接口访问多条记录。

### 6.2.2.2接口函数声明:

String getlclinfohisbytruck (String params)。

### 6.2.2.3输入参数说明，见表3。

表 3 车号历史轨迹追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	trainno	M	an..7	列车车号

### 6.2.2.4返回值说明，见表4。

表 4 车号历史轨迹追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	departure_station_name	M	an..20	发站名
3	destination_station_name	M	an..20	到站名
4	ctnno	C	an11	集装箱箱号
5	current_location	M	an..20	当前位置
6	operation_time	M	an12	作业时间
7	status	M	an..10	状态（在途、终到）
8	vessel	C	an..100	船名航次
9	blno	C	an..100	提单号
10	cargo_name	M	an..40	品名
11	consignee	M	an..60	收货人
12	ship_date	M	an12	发运日期
13	destination_special_line	C	an..60	到达专用线
14	departure_special_line	C	an..60	出发专用线
15	port_agent	M	an..40	口岸代理

### 6.2.3 列车车次追踪

#### 6.2.3.1描述:

按发运车次追踪列车位置信息，本接口访问多条记录。

#### 6.2.3.2接口函数声明:

String getlcinfoycc (String params)。

#### 6.2.3.3输入参数说明，见表5。

表 5 列车车次追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	trainsno	M	an..5	列车车次

#### 6.2.3.4返回值说明，见表6。

表 6 列车车次追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	departure_station_name	M	an..20	发站名
3	destination_station_name	M	an..20	到站名
4	trainno	M	an7	车号
6	ctnno	C	an11	集装箱箱号
6	current_location	M	an..20	当前位置
7	operation_time	M	an12	作业时间
8	status	M	an..10	状态（在途、终到）
9	vessel	C	an..100	船名航次
10	blno	C	an..100	提单号
11	cargo_name	M	an..40	品名
12	consignee	M	an..60	收货人
13	ship_date	M	an12	发运日期
14	destination_special_line	C	an..60	到达专用线
15	departure_specail_line	C	an..60	出发专用线
16	port_agent	M	an..40	口岸代理
17	estimated_arrival_time	M	an12	预计终到时间

## 6.2.4 列车箱号位置实时追踪

### 6.2.4.1 描述:

按集装箱箱号追踪列车当前位置。

### 6.2.4.2 接口函数声明:

String getlcinfoyctn(String params)。

### 6.2.4.3 输入参数说明，见表7。

表 7 列车箱号位置实时追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	ctnno	M	an..11	集装箱箱号

### 6.2.4.4 返回值说明，见表8。



表 8 列车箱号位置实时追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	departure_station_name	M	an..20	发站名
3	destination_station_name	M	an..20	到站名
4	trainno	M	an7	车号
5	current_location	M	an..20	当前位置
6	operation_time	M	an12	作业时间
7	status	M	an..10	状态（在途、终到）
8	vessel	C	an..100	船名航次
9	blno	C	an..100	提单号
10	cargo_name	M	an..40	品名
11	consignee	M	an..60	收货人
12	ship_date	M	an12	发运日期
13	destination_special_line	C	an..60	到达专用线
14	departure_specail_line	C	an..60	出发专用线
15	port_agent	M	an..40	口岸代理
16	estimated_arrival_time	M	an12	预计终到时间

### 6.2.5 海运提单列车位置追踪接口

#### 6.2.5.1描述:

按海运的船名航次提单号查询本提单下列车位置，本接口可返回多个记录。

#### 6.2.5.2接口函数声明:

String getlcinfofbyblno (String params)。

#### 6.2.5.3输入参数说明，见表9。

表 9 海运提单列车位置追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	vessel	M	an..30	船名，为国际通行标准英文船名
4	vayage	M	an..20	航次
5	blno	M	an..30	提单号

#### 6.2.5.4返回值说明，见表10。

表 8 海运提单列车位置追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	departure_station_name	M	an..20	发站名
3	destination_station_name	M	an..20	到站名
4	trainno	M	an7	车号
5	ctnno	C	an11	集装箱箱号
6	current_location	M	an..20	当前位置
7	operation_time	M	an12	作业时间
8	status	M	an..10	状态（在途、终到）
9	vessel	C	an..100	船名航次
10	blno	C	an..100	提单号
11	cargo_name	M	an..40	品名
12	consignee	M	an..60	收货人
13	ship_date	M	an12	发运日期
14	destination_special_line	C	an..60	到达专用线
15	departure_specail_line	C	an..60	出发专用线
16	port_agent	M	an..40	口岸代理
17	estimated_arrival_time	M	an12	预计终到时间

## 6.2.6 港口委托列车位置追踪

### 6.2.6.1 描述:

按用户在码头办理的作业委托号查询本委托下对应列车所在位置。

### 6.2.6.2 接口函数声明:

String getlcinfofywtno (String params)。

### 6.2.6.3 输入参数说明, 见表11。

表 11 港口委托列车位置追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	entrustno	M	an..30	码头作业委托号, 委托类型限定为装火车、卸火车、装船、卸船等货物作业过程委托
4	portcode	M	an..5	作业港口, 采用国际通用港口代码, 该代码按GB/T 7407规定

6.2.6.4返回值说明，见表12。

表 12 港口委托列车位置追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	departure_station_name	M	an..20	发站名
3	destination_station_name	M	an..20	到站名
4	trainno	M	an7	车号
5	ctnno	M	an11	集装箱箱号
6	current_location	M	an..20	当前位置
7	operation_time	M	an12	作业时间
8	status	M	an..10	状态（在途、终到）
9	vessel	C	an..100	船名航次
10	blno	C	an..100	提单号
11	cargo_name	M	an..40	品名
12	consignee	M	an..60	收货人
13	ship_date	M	an..12	发运日期
14	destination_special_line	C	an..60	到达专用线
15	departure_specail_line	C	an..60	出发专用线
16	port_agent	M	an..40	口岸代理
17	estimated_arrival_time	M	an12	预计终到时间

## 6.2.7 车号货物轨迹追踪

### 6.2.7.1描述：

按列车车号追踪货物在港口的海铁联运作业历史轨迹。

### 6.2.7.2接口函数声明：

String getportinfobytruck (String params)。

### 6.2.7.3输入参数说明，见表13。

表 13 车号货物轨迹追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	trainno	M	an..7	列车车号
4	portcode	M	an..5	作业港口，采用国际通用港口代码，该代码按GB/T 7407规定

### 6.2.7.4返回值说明，见表14。

表 14 车号货物轨迹追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	operation_place	M	an..30	作业地点
3	trainno	M	an7	车号
4	ctnno	C	an11	集装箱箱号
5	operation_time	M	an12	作业时间
6	status	M	an..10	状态（卸车、订舱、放行、装船、离港、 集港、放行、汽车出门、汽车进门、装车）
7	vessel	M	an..100	船名航次
8	blno	M	an..100	提单号
9	cargo_name	M	an..40	品名
10	consignee	M	an..60	收货人
11	demandno	M	an..30	需求受理号
12	ship_date	M	an12	发运日期
13	port_agent	M	an..40	口岸代理

### 6.2.8 箱号货物轨迹追踪

#### 6.2.8.1描述:

按箱号追踪货物在港口的海铁联运作业历史轨迹，本接口访问多条记录。

#### 6.2.8.2接口函数声明:

String getportinfobyctn (String params)。

#### 6.2.8.3输入参数说明，见表15。

表 15 箱号货物轨迹追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	ctnno	M	an..11	集装箱箱号
4	portcode	M	an..5	作业港口，采用国际通用港口代码，该代码按GB/T 7407规定

#### 6.2.8.4返回值说明，见表16。

表 16 箱号货物轨迹追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功； 1-未找到用户； 2-未获得授权； 3-服务访问超时。
2	operation_place	M	an..30	作业地点
3	trainno	M	an7	车号

表 16 (续)

序号	返回值名	是否必须	类型及长度	返回值说明
4	operation_time	M	an12	作业时间
5	status	M	an..10	状态（卸车、订舱、放行、装船、离港、集港、放行、汽车出门、汽车进门、装车）
6	vessel	M	an..100	船名航次
7	blno	M	an..100	提单号
8	cargo_name	M	an..40	品名
9	consignee	M	an..60	收货人
10	demandno	M	an..30	需求受理号
11	ship_date	M	an12	发运日期
12	port_agent	M	an..40	口岸代理

### 6.2.9 提单号货物轨迹追踪接口

#### 6.2.9.1 描述:

按海运提单号追踪货物在港口的海铁联运作业历史轨迹。

#### 6.2.9.2 接口函数声明:

String getportinfobyblno (String params)。

#### 6.2.9.3 输入参数说明, 见表17。

表 17 提单号货物轨迹追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	vessel	M	an..30	船名, 为国际通行标准英文船名
4	vayage	M	an..20	航次
5	blno	M	an..30	提单号

#### 6.2.9.4 返回值说明, 见表18。

表 18 提单号货物轨迹追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功; 1-未找到用户; 2-未获得授权; 3-服务访问超时。
2	operation_place	M	an..30	作业地点
3	trainno	M	an7	车号
4	ctnno	C	an11	集装箱箱号
5	operation_time	M	an12	作业时间
6	status	M	an..10	状态（卸车、订舱、放行、装船、离港、集港、放行、汽车出门、汽车进门、装车）
7	vessel	C	an..100	船名航次
8	blno	C	an..100	提单号
9	cargo_name	M	an..40	品名

表 18 (续)

序号	返回值名	是否必须	类型及长度	返回值说明
10	consignee	M	an..60	收货人
11	demandno	M	an..30	需求受理号
12	ship_date	M	an12	发运日期
13	port_agent	M	an..40	口岸代理

### 6.2.10 港口委托货物轨迹追踪

#### 6.2.10.1 描述:

按港口委托号追踪货物在港口的海铁联运作业历史轨迹。

#### 6.2.10.2 接口函数声明:

String getportinfobytno(String params)。

#### 6.2.10.3 输入参数说明, 见表19。

表 19 港口委托货物轨迹追踪接口输入参数说明

序号	参数名	是否必须	类型及长度	参数说明
1	access_id	M	n..10	访问标识
2	access_token	M	an..22	应用认证信息
3	entrustno	M	an..30	码头作业委托号, 委托类型限定为装火车、卸火车、装船、卸船等货物作业过程委托
4	portcode	M	an..5	作业港口, 采用国际通用港口代码, 该代码按GB/T 7407规定

#### 6.2.10.4 返回值说明, 见表20。

表 20 港口委托货物轨迹追踪接口返回值说明

序号	返回值名	是否必须	类型及长度	返回值说明
1	message	M	an..1	调用结果标志。0-接口调用成功; 1-未找到用户; 2-未获得授权; 3-服务访问超时。
2	operation_place	M	an..30	作业地点
3	trainno	M	an7	车号
4	ctnno	C	an11	箱号集装箱
5	operation_time	M	an12	作业时间
6	status	M	an..10	状态(卸车、订舱、放行、装船、离港、集港、放行、汽车出门、汽车进门、装车)。
7	vessel	M	an..100	船名航次
8	blno	M	an..100	提单号
9	cargo_name	M	an..40	品名
10	consignee	M	an..60	收货人
11	demandno	M	an..30	需求受理号
12	ship_date	M	an12	发运日期
13	port_agent	M	an..40	口岸代理

### 6.3 接口应用实例

接口应用实例参见附录B。

附录 A  
(资料性附录)  
海铁联运列车运行追踪接口 XML Schema

A.1 列车车号位置实时追踪

输入 XML Schema:

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "http://example.com/root.json",
  "type": "object",
  "required": [
    "head",
    "data"
  ],
  "properties": {
    "head": {
      "$id": "#/properties/head",
      "type": "object",
      "required": [
        "Access_Id",
        "Access-Token"
      ],
      "properties": {
        "Access_Id": {
          "$id": "#/properties/head/properties/Access_Id",
          "type": "string",
          "maxLength": 20
        },
        "Access-Token": {
          "$id": "#/properties/head/properties/Access-Token",
          "type": "string",
          "maxLength": 40
        }
      }
    },
    "data": {
      "$id": "#/properties/data",
      "type": "object",
      "required": [
        "Trainno"
      ],
      "properties": {
```



```
"Trainno": {
"$id": "#/properties/data/properties/Trainno",
"type": "string",
"maxLength": 7,
"minlength": 7
}}}}}
```

返回信息 XML Schema:

```
{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"message"
],
"properties": {
"message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer",
"default": 1
},
"data": {
```

```

"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"required": [
"departure_station_name",
"destination_station_name",
"current_location",
"operation_time",
"status",
"cargo_name",
"consignee",
"ship_date",
"port_agent",
"estimated_arrival_time"
],
"properties": {
"departure_station_name": {
"$id": "#/properties/data/items/properties/departure_station_name",
"type": "string",
"maxlength":20
},
"destination_station_name": {
"$id": "#/properties/data/items/properties/destination_station_name",
"type": "string",
"maxlength":20
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11
},
"current_location": {
"$id": "#/properties/data/items/properties/current_location",
"type": "string",
"maxlength":20
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,

```

```

"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"destination_special_line": {
"$id": "#/properties/data/items/properties/destination_special_line",
"type": "string",
"maxlength":60
},
"departure_specail_line": {
"$id": "#/properties/data/items/properties/departure_specail_line",
"type": "string",
"maxlength":60
},

```

```

"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength": 40
},
"estimated_arrival_time": {
"$id": "#/properties/data/items/properties/estimated_arrival_time",
"type": "string",
"maxlength":12,
"minlength":12
}}}}}}}}

```

## A.2 车号历史轨迹追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access-Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",
"maxLength": 20
},
"Access-Token": {
"$id": "#/properties/head/properties/Access-Token",
"type": "string",
"maxLength": 40
}
}
}
},
"data": {

```

```

"$id": "#/properties/data",
"type": "object",
"required": [
  "Trainno"
],
"properties": {
  "Trainno": {
"$id": "#/properties/data/properties/Trainno",
"type": "string",
"maxLength": 7,
"minlength": 7
}}}}

```

返回信息 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
  "head",
  "data"
],
"properties": {
  "head": {
"$id": "#/properties/head",
"type": "object",
"required": [
  "message"
],
"properties": {
  "message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
}
},
  "data": {
"$id": "#/properties/data",
"type": "object",
"required": [
  "total",
  "data"
],
"properties": {

```

```

"total": {
"$id": "#/properties/data/properties/total",
"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"required": [
"departure_station_name",
"destination_station_name",
"current_location",
"operation_time",
"status",
"cargo_name",
"consignee",
"ship_date",
"port_agent"
],
"properties": {
"departure_station_name": {
"$id": "#/properties/data/items/properties/departure_station_name",
"type": "string",
"maxlength":20
},
"destination_station_name": {
"$id": "#/properties/data/items/properties/destination_station_name",
"type": "string",
"maxlength":20
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11
},
"current_location": {
"$id": "#/properties/data/items/properties/current_location",
"type": "string",
"maxlength":20
}
}
},

```

```

"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"destination_special_line": {
"$id": "#/properties/data/items/properties/destination_special_line",
"type": "string",
"maxlength":60
},
"departure_specail_line": {

```

```

"$id": "#/properties/data/items/properties/departure_specail_line",
"type": "string",
"maxlength":60
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength": 40
}}}}}}}}

```

### A. 3 列车车次追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access-Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",
"maxLength": 20
},
"Access-Token": {
"$id": "#/properties/head/properties/Access-Token",
"type": "string",
"maxLength": 40
}
}
},
"data": {
"$id": "#/properties/data",
"type": "object",

```



```

"required": [
  "TrainsOrder"
],
"properties": {
  "TrainsOrder": {
    "$id": "#/properties/data/properties/TrainsOrder",
    "type": "string",
    "maxLength": 7,
    "minlength": 5
  }
}
}
}
}

```

返回信息 XML Schema:

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "http://example.com/root.json",
  "type": "object",
  "required": [
    "head",
    "data"
  ],
  "properties": {
    "head": {
      "$id": "#/properties/head",
      "type": "object",
      "required": [
        "message"
      ],
      "properties": {
        "message": {
          "$id": "#/properties/head/properties/message",
          "type": "string"
        }
      }
    }
  },
  "data": {
    "$id": "#/properties/data",
    "type": "object",
    "required": [
      "total",
      "data"
    ],
    "properties": {
      "total": {
        "$id": "#/properties/data/properties/total",

```

```

"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"required": [
"departure_station_name",
"destination_station_name",
"current_location",
"operation_time",
"status",
"trainno",
"cargo_name",
"consignee",
"ship_date",
"port_agent",
"estimated_arrival_time"
],
"properties": {
"departure_station_name": {
"$id": "#/properties/data/items/properties/departure_station_name",
"type": "string",
"maxlength":20
},
"destination_station_name": {
"$id": "#/properties/data/items/properties/destination_station_name",
"type": "string",
"maxlength":20
},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",
"type": "string",
"maxlength":7,
"minlength":7
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11

```

```

},
"current_location": {
"$id": "#/properties/data/items/properties/current_location",
"type": "string",
"maxlength":20
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},

```

```

"destination_special_line": {
"$id": "#/properties/data/items/properties/destination_special_line",
"type": "string",
"maxlength":60
},
"departure_specail_line": {
"$id": "#/properties/data/items/properties/departure_specail_line",
"type": "string",
"maxlength":60
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength": 40
},
"estimated_arrival_time": {
"$id": "#/properties/data/items/properties/estimated_arrival_time",
"type": "string",
"maxlength":12,
"minlength":12
}}}}}}}}

```

#### A. 4 列车箱号位置实时追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access-Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",

```

```

    "maxLength": 20
  },
  "Access_Token": {
    "$id": "#/properties/head/properties/Access_Token",
    "type": "string",
    "maxLength": 40
  }
},
"data": {
  "$id": "#/properties/data",
  "type": "object",
  "required": [
    "Ctnno"
  ],
  "properties": {
    "Ctnno": {
      "$id": "#/properties/data/properties/Ctnno",
      "type": "string",
      "maxLength": 11,
      "minlength": 11
    }
  }
}
}
}
}
}
}
}

```

返回信息 XML Schema:

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "http://example.com/root.json",
  "type": "object",
  "required": [
    "head",
    "data"
  ],
  "properties": {
    "head": {
      "$id": "#/properties/head",
      "type": "object",
      "required": [
        "message"
      ],
      "properties": {

```

```

"message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer",
"default": 1
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"required": [
"departure_station_name",
"destination_station_name",
"current_location",
"operation_time",
"status",
"trainno",
"cargo_name",
"consignee",
"ship_date",
"port_agent",
"estimated_arrival_time"
],
"properties": {
"departure_station_name": {
"$id": "#/properties/data/items/properties/departure_station_name",
"type": "string",
"maxlength":20

```

```

},
"destination_station_name": {
"$id": "#/properties/data/items/properties/destination_station_name",
"type": "string",
"maxlength":20
},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",
"type": "string",
"maxlength":7,
"minlength":7
},
"current_location": {
"$id": "#/properties/data/items/properties/current_location",
"type": "string",
"maxlength":20
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},

```

```

"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"destination_special_line": {
"$id": "#/properties/data/items/properties/destination_special_line",
"type": "string",
"maxlength":60
},
"departure_specail_line": {
"$id": "#/properties/data/items/properties/departure_specail_line",
"type": "string",
"maxlength":60
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength": 40
},
"estimated_arrival_time": {
"$id": "#/properties/data/items/properties/estimated_arrival_time",
"type": "string",
"maxlength":12,
"minlength":12
}}}}}}}}

```

#### A. 5 海运提单列车位置追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {

```



```

"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access-Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",
"maxLength": 20
},
"Access-Token": {
"$id": "#/properties/head/properties/Access-Token",
"type": "string",
"maxLength": 40
}
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"Vessel",
"Voyage",
"Blno"
],
"properties": {
"Vessel": {
"$id": "#/properties/data/properties/Vessel",
"type": "string",
"maxLength": 30
},
"Voyage": {
"$id": "#/properties/data/properties/Voyage",
"type": "string",
"maxLength": 20
},
"Blno": {
"$id": "#/properties/data/properties/Blno",
"type": "string",
"maxLength": 30
}
}
}

```

}}}}}

返回信息 XML Schema:

```
{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "http://example.com/root.json",
  "type": "object",
  "required": [
    "head",
    "data"
  ],
  "properties": {
    "head": {
      "$id": "#/properties/head",
      "type": "object",
      "required": [
        "message"
      ],
      "properties": {
        "message": {
          "$id": "#/properties/head/properties/message",
          "type": "string"
        }
      }
    },
    "data": {
      "$id": "#/properties/data",
      "type": "object",
      "required": [
        "total",
        "data"
      ],
      "properties": {
        "total": {
          "$id": "#/properties/data/properties/total",
          "type": "integer",
          "default": 1
        },
        "data": {
          "$id": "#/properties/data",
          "type": "array",
          "items": {
            "$id": "#/properties/data/items",
            "type": "object",
```

```

"required": [
"departure_station_name",
"destination_station_name",
"current_location",
"operation_time",
"status",
"trainno",
"cargo_name",
"consignee",
"ship_date",
"port_agent",
"estimated_arrival_time"
],
"properties": {
"departure_station_name": {
"$id": "#/properties/data/items/properties/departure_station_name",
"type": "string",
"maxlength":20
},
"destination_station_name": {
"$id": "#/properties/data/items/properties/destination_station_name",
"type": "string",
"maxlength":20
},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",
"type": "string",
"maxlength":7,
"minlength":7
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11
},
"current_location": {
"$id": "#/properties/data/items/properties/current_location",
"type": "string",
"maxlength":20
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",

```

```

"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"destination_special_line": {
"$id": "#/properties/data/items/properties/destination_special_line",
"type": "string",
"maxlength":60
},
"departure_specail_line": {
"$id": "#/properties/data/items/properties/departure_specail_line",
"type": "string",

```

```

    "maxlength":60
  },
  "port_agent": {
    "$id": "#/properties/data/items/properties/port_agent",
    "type": "string",
    "maxlength": 40
  },
  "estimated_arrival_time": {
    "$id": "#/properties/data/items/properties/estimated_arrival_time",
    "type": "string",
    "maxlength":12,
    "minlength":12
  }}}}}}}

```

#### A.6 港口委托列车位置追踪

输入 XML Schema:

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "http://example.com/root.json",
  "type": "object",
  "required": [
    "head",
    "data"
  ],
  "properties": {
    "head": {
      "$id": "#/properties/head",
      "type": "object",
      "required": [
        "Access_Id",
        "Access-Token"
      ],
      "properties": {
        "Access_Id": {
          "$id": "#/properties/head/properties/Access_Id",
          "type": "string",
          "maxLength": 20
        },
        "Access-Token": {
          "$id": "#/properties/head/properties/Access-Token",
          "type": "string",
          "maxLength": 40
        }
      }
    }
  }
}

```

```

},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"Entrustno",
"PortCode"
],
"properties": {
"Entrustno": {
"$id": "#/properties/data/properties/Entrustno",
"type": "string",
"maxLength": 30
},
"PortCode": {
"$id": "#/properties/data/properties/PortCode",
"type": "string",
"maxLength": 5,
"minlength": 5
}}}}

```

返回信息 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"message"
],
"message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
}
},
"data": {

```

```

"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"required": [
"departure_station_name",
"destination_station_name",
"current_location",
"operation_time",
"status",
"trainno",
"cargo_name",
"consignee",
"ship_date",
"port_agent",
"estimated_arrival_time"
],
"properties": {
"departure_station_name": {
"$id": "#/properties/data/items/properties/departure_station_name",
"type": "string",
"maxlength":20
},
"destination_station_name": {
"$id": "#/properties/data/items/properties/destination_station_name",
"type": "string",
"maxlength":20
},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",

```

```
"type": "string",
"maxlength":7,
"minlength":7
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11
},
"current_location": {
"$id": "#/properties/data/items/properties/current_location",
"type": "string",
"maxlength":20
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
```



```

"type": "string",
"maxlength":60
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"destination_special_line": {
"$id": "#/properties/data/items/properties/destination_special_line",
"type": "string",
"maxlength":60
},
"departure_specail_line": {
"$id": "#/properties/data/items/properties/departure_specail_line",
"type": "string",
"maxlength":60
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength": 40
},
"estimated_arrival_time": {
"$id": "#/properties/data/items/properties/estimated_arrival_time",
"type": "string",
"maxlength":12,
"minlength":12
}}}}}}}}

```

#### A. 7 车号货物轨迹追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",

```

```

"type": "object",
"required": [
"Access_Id",
"Access_Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",
"maxLength": 20
},
"Access_Token": {
"$id": "#/properties/head/properties/Access_Token",
"type": "string",
"maxLength": 40
}
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"Trainno"
],
"properties": {
"Trainno": {
"$id": "#/properties/data/properties/Trainno",
"type": "string",
"maxLength": 7,
"minlength": 7
}
}
}
}
}
}

```

返回信息 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",

```

```

"type": "object",
"required": [
"message"
],
"properties": {
"message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"title": "The Items Schema",
"required": [
"operation_place",
"trainno",
"operation_time",
"status",
"vessel",
"blno",
"cargo_name",
"consignee",
"demandno",
"ship_date",
"port_agent"
],

```

```

"properties": {
  "operation_place": {
    "$id": "#/properties/data/items/properties/operation_place",
    "type": "string",
    "maxlength":30
  },
  "trainno": {
    "$id": "#/properties/data/items/properties/trainno",
    "type": "string",
    "maxlength":7,
    "minlength":7
  },
  "ctnno": {
    "$id": "#/properties/data/items/properties/ctnno",
    "type": "string",
    "maxlength":11,
    "minlength":11
  },
  "operation_time": {
    "$id": "#/properties/data/items/properties/operation_time",
    "type": "string",
    "maxlength":12,
    "minlength":12
  },
  "status": {
    "$id": "#/properties/data/items/properties/status",
    "type": "string",
    "maxlength":10
  },
  "vessel": {
    "$id": "#/properties/data/items/properties/vessel",
    "type": "string",
    "maxlength":100
  },
  "blno": {
    "$id": "#/properties/data/items/properties/blno",
    "type": "string",
    "maxlength":100
  },
  "cargo_name": {
    "$id": "#/properties/data/items/properties/cargo_name",
    "type": "string",
    "maxlength":40
  }
}

```

```

},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"demandno": {
"$id": "#/properties/data/items/properties/demandno",
"type": "string",
"maxlength":30
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength":40
}}}}}}}}

```

#### A.8 箱号货物轨迹追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access-Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",

```

```

"type": "string",
"maxLength": 20
},
"Access-Token": {
"$id": "#/properties/head/properties/Access-Token",
"type": "string",
"maxLength": 40
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"Trainno"
],
"properties": {
"Ctnno"
],
"properties": {
"Ctnno": {
"$id": "#/properties/data/properties/Ctnno",
"type": "string",
"maxLength": 11,
"minlength": 11
}}}}}

```

返回信息 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"message"
],
"properties": {

```

```

"message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"title": "The Items Schema",
"required": [
"operation_place",
"trainno",
"operation_time",
"status",
"vessel",
"blno",
"cargo_name",
"consignee",
"demandno",
"ship_date",
"port_agent"
],
"properties": {
"operation_place": {
"$id": "#/properties/data/items/properties/operation_place",
"type": "string",
"maxlength":30

```

```

},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",
"type": "string",
"maxlength":7,
"minlength":7
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"demandno": {
"$id": "#/properties/data/items/properties/demandno",
"type": "string",
"maxlength":30
},

```



```

"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength":40
}}}}}}}}

```

#### A.9 提单号货物轨迹追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access_Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",
"maxLength": 20
},
"Access_Token": {
"$id": "#/properties/head/properties/Access_Token",
"type": "string",
"maxLength": 40
}
}
}
},
"data": {

```

```

"$id": "#/properties/data",
"type": "object",
"required": [
  "Vessel",
  "Voyage",
  "Blno"
],
"properties": {
  "Vessel": {
    "$id": "#/properties/data/properties/Vessel",
    "type": "string",
    "maxLength": 30
  },
  "Voyage": {
    "$id": "#/properties/data/properties/Voyage",
    "type": "string",
    "maxLength": 20
  },
  "Blno": {
    "$id": "#/properties/data/properties/Blno",
    "type": "string",
    "maxLength": 30
  }
}
}
}
}
}

```

返回信息 XML Schema:

```

{
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "http://example.com/root.json",
  "type": "object",
  "required": [
    "head",
    "data"
  ],
  "properties": {
    "head": {
      "$id": "#/properties/head",
      "type": "object",
      "required": [
        "message"
      ],
      "properties": {
        "message": {
          "$id": "#/properties/head/properties/message",
          "type": "string"
        }
      }
    }
  }
}

```

```

}
}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"title": "The Items Schema",
"required": [
"operation_place",
"trainno",
"operation_time",
"status",
"vessel",
"blno",
"cargo_name",
"consignee",
"demandno",
"ship_date",
"port_agent"
],
"properties": {
"operation_place": {
"$id": "#/properties/data/items/properties/operation_place",
"type": "string",
"maxlength":30
},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",

```

```

"type": "string",
"maxlength":7,
"minlength":7
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"demandno": {
"$id": "#/properties/data/items/properties/demandno",

```

```

"type": "string",
"maxlength":30
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength":40
}}}}}}}}

```

#### A. 10 港口委托货物轨迹追踪

输入 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"Access_Id",
"Access-Token"
],
"properties": {
"Access_Id": {
"$id": "#/properties/head/properties/Access_Id",
"type": "string",
"maxLength": 20
},
"Access-Token": {
"$id": "#/properties/head/properties/Access-Token",
"type": "string",
"maxLength": 40
}
}
}
}

```

```

}
},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"Entrustno",
"PortCode"
],
"properties": {
"Entrustno": {
"$id": "#/properties/data/properties/Entrustno",
"type": "string",
"maxLength": 30
},
"PortCode": {
"$id": "#/properties/data/properties/PortCode",
"type": "string",
"maxLength": 5,
"minlength": 5
}}}}

```

返回信息 XML Schema:

```

{
"$schema": "http://json-schema.org/draft-07/schema#",
"$id": "http://example.com/root.json",
"type": "object",
"required": [
"head",
"data"
],
"properties": {
"head": {
"$id": "#/properties/head",
"type": "object",
"required": [
"message"
],
"properties": {
"message": {
"$id": "#/properties/head/properties/message",
"type": "string"
}
}
}
}

```

```

},
"data": {
"$id": "#/properties/data",
"type": "object",
"required": [
"total",
"data"
],
"properties": {
"total": {
"$id": "#/properties/data/properties/total",
"type": "integer"
},
"data": {
"$id": "#/properties/data",
"type": "array",
"items": {
"$id": "#/properties/data/items",
"type": "object",
"title": "The Items Schema",
"required": [
"operation_place",
"trainno",
"operation_time",
"status",
"vessel",
"blno",
"cargo_name",
"consignee",
"demandno",
"ship_date",
"port_agent"
],
"properties": {
"operation_place": {
"$id": "#/properties/data/items/properties/operation_place",
"type": "string",
"maxlength":30
},
"trainno": {
"$id": "#/properties/data/items/properties/trainno",
"type": "string",
"maxlength":7,

```

```

"minlength":7
},
"ctnno": {
"$id": "#/properties/data/items/properties/ctnno",
"type": "string",
"maxlength":11,
"minlength":11
},
"operation_time": {
"$id": "#/properties/data/items/properties/operation_time",
"type": "string",
"maxlength":12,
"minlength":12
},
"status": {
"$id": "#/properties/data/items/properties/status",
"type": "string",
"maxlength":10
},
"vessel": {
"$id": "#/properties/data/items/properties/vessel",
"type": "string",
"maxlength":100
},
"blno": {
"$id": "#/properties/data/items/properties/blno",
"type": "string",
"maxlength":100
},
"cargo_name": {
"$id": "#/properties/data/items/properties/cargo_name",
"type": "string",
"maxlength":40
},
"consignee": {
"$id": "#/properties/data/items/properties/consignee",
"type": "string",
"maxlength":60
},
"demandno": {
"$id": "#/properties/data/items/properties/demandno",
"type": "string",
"maxlength":30
}

```



```
},
"ship_date": {
"$id": "#/properties/data/items/properties/ship_date",
"type": "string",
"maxlength":12,
"minlength":12
},
"port_agent": {
"$id": "#/properties/data/items/properties/port_agent",
"type": "string",
"maxlength":40
}}}}}}}}
```

附录 B  
(资料性附录)

海铁联运列车运行追踪接口应用实例

B.1 海铁联运列车运行追踪接口应用实例说明

输入参数表定义如下:

- 代码(Code Name):输入参数对应代码。
- 是否必须(Constraints): 对输入参数在接口中的制约。  
  - M(Mandatory)为必备型;
  - O(Optional)为可选型;
  - C(Conditional)为条件型,对于代码与参数说明的数据项,两者至少应选择其中之一;
- 类型和长度(Type/Length): 数据元的数据取值类型和最大字节数:
  - a 字符型
  - n 数字型
  - an 数字字符型
  - n8 固定的八位数字长度
  - an..35 35 个数字字符的不定长度
- 参数说明(Description): 对应输入参数的简要说明。

B.2 列车车号位置实时追踪

接口函数声明

WebService 定义:

String getLcinfoBytruck(String inParam) , 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getLcinfoBytruck, POST

输入:

表 B.1 列车车号位置实时追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access_Token	M	an..22	应用认证信息
Trainno	M	an..7	列车车号

输入参数以 json 格式描述举例如下。

```
{
  "head":{
    "Access_Id": "0000000001",
    "Access_Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Trainno":"4623665"
  }
}
```

输出:

返回结果以 json 格式描述举例如下。

```
{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 1,
    "data": [
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",
        "ctnno":"CCLU2845007",
        "current_location":"徐州北",
        "operation_time":"201906101524",
        "status":"在途",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "ship_date":"201906081935",
        "destination_special_line":"连云港港口专用铁路",
        "departure_specail_line":"",
        "port_agent":"连云港鹏辉货运代理有限公司",
        "estimated_arrival_time":"201906230839"
      }
    ]
  }
}
```

### B.3 车号历史轨迹追踪

接口函数声明

WebService 定义:

String getLcinfohisbytruck (String inParam), 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getLcinfohisbytruck, POST

输入:

表 B.6 车号历史轨迹追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access-Token	M	an..22	应用认证信息
Trainno	M	an..7	列车车号

输入参数以 json 格式描述举例如下。

```

{
  "head":{
    "Access_Id": "0000000001",
    "Access-Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Trainno":"4623665"
  }
}

```

输出:

返回结果以 json 格式描述举例如下。

```

{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 2,
    "data": [
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",
        "ctnno":"CCLU2845007",
        "current_location":"徐州北",
        "operation_time":"201906101524",
        "status":"在途",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "ship_date":"201906081935",
        "destination_special_line":"连云港港口专用铁路",
        "departure_specail_line":"",
        "port_agent":"连云港鹏辉货运代理有限公司",
        "estimated_arrival_time":"201906230839"
      },
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",
        "ctnno":"CCLU2845007",
        "current_location":"云台山",
        "operation_time":"201906100643",
        "status":"在途",
        "vessel":"HARMONY YUNGANG/19035W",

```

```

        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "ship_date":"201906081935",
        "destination_special_line":"连云港港口专用铁路",
        "departure_specail_line":"",
        "port_agent":"连云港鹏辉货运代理有限公司",
        "estimated_arrival_time":"201906230839"
    }
]
}
}

```

#### B.4 列车车次追踪

接口函数声明

WebService 定义:

String getlcinfobycc (String inParam) , 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getlcinfobycc, POST

输入:

表 B.5 列车车次追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n. . 10	访问标识
Access_Token	M	an. . 22	应用认证信息
Trainsno	M	an. . 5	列车车次

输入参数以 json 格式描述举例如下。

```

{
    "head":{
        "Access_Id": "0000000001",
        "Access_Token":"00001B02A36F442E00D33F"
    },
    "data":{
        "Trainsno":"89830"
    }
}

```

输出:

返回结果以 json 格式描述举例如下。

```

{
    "head":{
        "message": "0"
    },
    "data":{
        "total": 2,

```

```

    "data": [
      {
        "departure_station_name": "连云港港口",
        "destination_station_name": "霍尔果斯境",
        "trainno": "4623665",
        "ctnno": "CCLU2845007",
        "current_location": "徐州北",
        "operation_time": "201906101524",
        "status": "在途",
        "vessel": "HARMONY YUNGANG/19035W",
        "blno": "FLEY21093290",
        "cargo_name": "旧汽车",
        "consignee": "阿拉木图",
        "ship_date": "201906081935",
        "destination_special_line": "连云港港口专用铁路",
        "departure_specail_line": "",
        "port_agent": "连云港鹏辉货运代理有限公司",
        "estimated_arrival_time": "201906230839"
      },
      {
        "departure_station_name": "连云港港口",
        "destination_station_name": "霍尔果斯境",
        "trainno": "3426447",
        "ctnno": "CCLU5096640",
        "current_location": "徐州北",
        "operation_time": "201906101524",
        "status": "在途",
        "vessel": "HARMONY YUNGANG/19035W",
        "blno": "FLEY21093290",
        "cargo_name": "旧汽车",
        "consignee": "阿拉木图",
        "ship_date": "201906081935",
        "destination_special_line": "连云港港口专用铁路",
        "departure_specail_line": "",
        "port_agent": "连云港鹏辉货运代理有限公司",
        "estimated_arrival_time": "201906230839"
      }
    ]
  }
}

```

## B.5 集装箱列车位置追踪

接口函数声明

WebService 定义:

String getlcinfobyctn(String inParam) , 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getlcinfobyctn, POST

输入:

表 B. 2 集装箱列车位置追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n. . 10	访问标识
Access_Token	M	an. . 22	应用认证信息
Ctnno	M	an. . 11	集装箱箱号

输入参数以 json 格式描述举例如下。

```
{
  "head":{
    "Access_Id": "0000000001",
    "Access_Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Ctnno":"CCLU2845007"
  }
}
```

输出:

返回结果以 json 格式描述举例如下。

```
{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 1,
    "data": [
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",
        "trainno":"4623665",
        "current_location":"徐州北",
        "operation_time":"201906101524",
        "status":"在途",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "ship_date":"201906081935",
        "destination_special_line":"连云港港口专用铁路",
        "departure_specail_line": "",
        "port_agent":"连云港鹏辉货运代理有限公司",

```

```

        "estimated_arrival_time":"201906230839"
    }
]
}
}

```

## B.6 海运提单列车位置追踪

接口函数声明

WebService 定义:

String getLcinfoByBlno(String inParam), 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/ getLcinfoByBlno, POST

输入:

表 B.3 海运提单列车位置追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access_Token	M	an..22	应用认证信息
Vessel	M	an..30	海运船名, 采用标准英文船名
Voyage	M	an..20	海运航次号
Blno	M	an..30	海运提单号

输入参数以 json 格式描述举例如下。

```

{
  "head":{
    "Access_Id": "0000000001",
    "Access_Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Vessel":"HARMONY YUNGANG",
    "Voyage":"19035W",
    "Blno":"FLEY21093290"
  }
}

```

输出:

返回结果以 json 格式描述举例如下。

```

{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 2,
    "data": [
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",

```



```

"trainno":"4623665",
"ctnno":"CCLU2845007",
"current_location":"徐州北",
"operation_time":"201906101524",
"status":"在途",
"vessel":"HARMONY YUNGANG/19035W",
"blno":"FLEY21093290",
"cargo_name":"旧汽车",
"consignee":"阿拉木图",
"ship_date":"201906081935",
"destination_special_line":"连云港港口专用铁路",
"departure_specail_line":"",
"port_agent":"连云港鹏辉货运代理有限公司",
"estimated_arrival_time":"201906230839"
    },
    {
"departure_station_name":"连云港港口",
"destination_station_name":"霍尔果斯境",
"trainno":"3426447",
"ctnno":"CCLU5096640",
"current_location":"徐州北",
"operation_time":"201906101524",
"status":"在途",
"vessel":"HARMONY YUNGANG/19035W",
"blno":"FLEY21093290",
"cargo_name":"旧汽车",
"consignee":"阿拉木图",
"ship_date":"201906081935",
"destination_special_line":"连云港港口专用铁路",
"departure_specail_line":"",
"port_agent":"连云港鹏辉货运代理有限公司",
"estimated_arrival_time":"201906230839"
    }
]
}
}

```

## B.7 港口委托列车位置追踪

接口函数声明

WebService 定义:

String getlcnfobywtno (String inParam) , 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/ getlcnfobywtno, POST

输入:

表 B. 4 海运提单列车位置追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access-Token	M	an..22	应用认证信息
Entrustno	M	an..30	码头作业委托号, 委托类型限定为装火车、卸火车、装船、卸船等货物作业过程委托
PortCode	M	an..5	采用 GB/T 7407 标准规定

输入参数以 json 格式描述举例如下。

```
{
  "head":{
    "Access_Id": "0000000001",
    "Access-Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Entrustno":"1118055411",
    "PortCode":"CNLYG"
  }
}
```

输出:

返回结果以 json 格式描述举例如下。

```
{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 2,
    "data": [
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",
        "trainno":"4623665",
        "ctnno":"CCLU2845007",
        "current_location":"徐州北",
        "operation_time":"201906101524",
        "status":"在途",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "ship_date":"201906081935",
        "destination_special_line":"连云港港口专用铁路",
        "departure_specail_line": "",
        "port_agent":"连云港鹏辉货运代理有限公司",

```

```

        "estimated_arrival_time":"201906230839"
      },
      {
        "departure_station_name":"连云港港口",
        "destination_station_name":"霍尔果斯境",
        "trainno":"3426447",
        "ctnno":"CCLU5096640",
        "current_location":"徐州北",
        "operation_time":"201906101524",
        "status":"在途",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "ship_date":"201906081935",
        "destination_special_line":"连云港港口专用铁路",
        "departure_specail_line":"",
        "port_agent":"连云港鹏辉货运代理有限公司",
        "estimated_arrival_time":"201906230839"
      }
    ]
  }
}

```

## B.8 车号货物轨迹追踪

接口函数声明

WebService 定义:

String getportinfoobytruck (String inParam), 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getportinfoobytruck, POST

输入:

表 B.8 箱号货物轨迹追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access-Token	M	an..22	应用认证信息
Trainno	M	an..7	装卸火车车号
PortCode	M	an..5	采用 GB/T 7407 标准规定

输入参数以 json 格式描述举例如下。

```

{
  "head":{
    "Access_Id": "0000000001",
    "Access-Token":"00001B02A36F442E00D33F"
  },

```

```
"data":{
  "Trainno":"4623665",
  "PortCode":"CNLYG"
}
}
```

输出:

返回结果以 json 格式描述举例如下。

```
{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 3,
    "data": [
      {
        "operation_place":"连云港中哈国际物流基地",
        "trainno":"4623665",
        "ctnno":"CCLU2845007",
        "operation_time":"201906071908",
        "status":"装车",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "demandno":"201905HY331808",
        "ship_date":"20190608",
        "port_agent":"连云港鹏辉货运代理有限公司"
      },
      {
        "operation_place":"连云港中哈国际物流基地",
        "trainno":"4623665",
        "ctnno":"CCLU2845007",
        "operation_time":"201906071233",
        "status":"进门",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
        "demandno":"",
        "ship_date":"",
        "port_agent":"连云港鹏辉货运代理有限公司"
      },
      {
```

```

"operation_place":"连云港新东方国际货柜码头",
"trainno":"4623665",
"ctnno":"CCLU2845007",
"operation_time":"201906071215",
"status":"出门",
"vessel":"HARMONY YUNGANG/19035W",
"blno":"FLEY21093290",
"cargo_name":"旧汽车",
"consignee":"阿拉木图",
"demandno":"",
"ship_date":"",
"port_agent":"连云港鹏辉货运代理有限公司"
}
]
}

```

#### B.9 箱号货物轨迹追踪

接口函数声明

WebService 定义:

String getportinfobyctn (String inParam) , 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getportinfobyctn, POST

输入:

表 B.7 箱号货物轨迹追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access-Token	M	an..22	应用认证信息
Ctnno	M	an..11	集装箱箱号
PortCode	M	an..5	采用 GB/T 7407 标准规定

输入参数以 json 格式描述举例如下。

```

{
  "head":{
    "Access_Id": "0000000001",
    "Access-Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Ctnno":"CCLU2845007",
    "PortCode":"CNLYG"
  }
}

```

输出:

返回结果以 json 格式描述举例如下。

```
{
```

```

"head":{
  "message": "0"
},
"data":{
"total": 3,
  "data": [
    {
      "operation_place":"连云港中哈国际物流基地",
      "trainno":"4623665",
      "operation_time":"201906071908",
      "status":"装车",
      "vessel":"HARMONY YUNGANG/19035W",
      "blno":"FLEY21093290",
      "cargo_name":"旧汽车",
      "consignee":"阿拉木图",
      "demandno":"201905HY331808",
      "ship_date":"20190608",
      "port_agent":"连云港鹏辉货运代理有限公司"
    },
    {
      "operation_place":"连云港中哈国际物流基地",
      "trainno":"苏 G1652E",
      "operation_time":"201906071233",
      "status":"进门",
      "vessel":"HARMONY YUNGANG/19035W",
      "blno":"FLEY21093290",
      "cargo_name":"旧汽车",
      "consignee":"阿拉木图",
      "demandno":"",
      "ship_date":"",
      "port_agent":"连云港鹏辉货运代理有限公司"
    },
    {
      "operation_place":"连云港新东方国际货柜码头",
      "trainno":"苏 G1652E",
      "operation_time":"201906071215",
      "status":"出门",
      "vessel":"HARMONY YUNGANG/19035W",
      "blno":"FLEY21093290",
      "cargo_name":"旧汽车",
      "consignee":"阿拉木图",
      "demandno":"",
      "ship_date":"",

```

```

        "port_agent": "连云港鹏辉货运代理有限公司"
      }
    ]
  }
}

```

## B.10 提单号货物轨迹追踪

接口函数声明

WebService 定义:

String getportinfobyblno (String inParam), 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/ getportinfobyblno, POST

输入:

表 B.9 箱号货物轨迹追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access_Token	M	an..22	应用认证信息
Vessel	M	an..30	海运船名, 采用标准英文船名
Voyage	M	an..20	海运航次号
Blno	M	an..30	海运提单号

输入参数以 json 格式描述举例如下。

```

{
  "head":{
    "Access_Id": "0000000001",
    "Access_Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Vessel":"HARMONY YUNGANG",
    "Voyage":"19035W",
    "Blno":"FLEY21093290"
  }
}

```

输出:

返回结果以 json 格式描述举例如下。

```

{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 3,
    "data": [
      {

```

```

"operation_place":"连云港中哈国际物流基地",
"trainno":"4623665",
"ctnno":"CCLU2845007",
"operation_time":"201906071908",
"status":"装车",
"vessel":"HARMONY YUNGANG/19035W",
"blno":"FLEY21093290",
"cargo_name":"旧汽车",
"consignee":"阿拉木图",
    "demandno":"201905HY331808",
"ship_date":"20190608",
"port_agent":"连云港鹏辉货运代理有限公司"
    },
    {
"operation_place":"连云港中哈国际物流基地",
"trainno":"苏 G1652E",
    "ctnno":"CCLU2845007",
"operation_time":"201906071233",
"status":"进门",
"vessel":"HARMONY YUNGANG/19035W",
"blno":"FLEY21093290",
"cargo_name":"旧汽车",
"consignee":"阿拉木图",
    "demandno":"",
"ship_date":"",
"port_agent":"连云港鹏辉货运代理有限公司"
    },
    {
"operation_place":"连云港新东方国际货柜码头",
"trainno":"苏 G1652E",
"ctnno":"CCLU2845007",
"operation_time":"201906071215",
"status":"出门",
"vessel":"HARMONY YUNGANG/19035W",
"blno":"FLEY21093290",
"cargo_name":"旧汽车",
"consignee":"阿拉木图",
    "demandno":"",
"ship_date":"",
"port_agent":"连云港鹏辉货运代理有限公司"
    }
    ]
}

```



}

### B.11 港口委托货物轨迹追踪

接口函数声明

WebService 定义:

String getportinfobywtno(String inParam), 命名空间为IBulkTrainsTrackService。

RESTful 地址:

http://server:port/BulkTrainsTrackService/getportinfobywtno, POST

输入:

表 B.10 港口委托货物轨迹追踪输入参数

代码	是否必须	类型及长度	参数说明
Access_Id	M	n..10	访问标识
Access_Token	M	an..22	应用认证信息
Entrustno	M	an..30	码头作业委托号, 委托类型限定为装火车、卸火车、装船、卸船等货物作业过程委托
PortCode	M	an..5	采用 GB/T 7407 标准规定

输入参数以 json 格式描述举例如下。

```
{
  "head":{
    "Access_Id": "0000000001",
    "Access_Token":"00001B02A36F442E00D33F"
  },
  "data":{
    "Entrustno":"1118055411",
    "PortCode":"CNLYG"
  }
}
```

输出:

返回结果以 json 格式描述举例如下。

```
{
  "head":{
    "message": "0"
  },
  "data":{
    "total": 3,
    "data": [
      {
        "operation_place":"连云港中哈国际物流基地",
        "trainno":"4623665",
        "ctnno":"CCLU2845007",
        "operation_time":"201906071908",
        "status":"装车",
        "vessel":"HARMONY YUNGANG/19035W",

```

```

        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
            "demandno":"201905HY331808",
        "ship_date":"20190608",
        "port_agent":"连云港鹏辉货运代理有限公司"
        },
        {
        "operation_place":"连云港中哈国际物流基地",
        "trainno":"苏 G1652E",
            "ctnno":"CCLU2845007",
        "operation_time":"201906071233",
        "status":"进门",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
            "demandno":"",
        "ship_date":"",
        "port_agent":"连云港鹏辉货运代理有限公司"
        },
        {
        "operation_place":"连云港新东方国际货柜码头",
        "trainno":"苏 G1652E",
            "ctnno":"CCLU2845007",
        "operation_time":"201906071215",
        "status":"出门",
        "vessel":"HARMONY YUNGANG/19035W",
        "blno":"FLEY21093290",
        "cargo_name":"旧汽车",
        "consignee":"阿拉木图",
            "demandno":"",
        "ship_date":"",
        "port_agent":"连云港鹏辉货运代理有限公司"
        }
    ]
}
}

```