

WMS 接口

(1) 更新库存信息

a、api 接口

| | |
|--------|--|
| URL | http://106.14.196.176:8082/api/storage/UpdateBinInfo |
| Method | http post json |
| Return | 正确：{ Result：“OK”，“Code”: ErrorCode.OK } 错误：{ Result：“NA”，“Code”: ErrorCode.WrongParameter } |

b、示例代码

```
class:
public class ViewStorageBin
{
    public string Operation { get; set; }//”add”-入库增加数量, “minus”-出库减少数量

    public int ID { get; set; }

    public int PlateID { get; set; }//料盘号 , 暂定与库位号一致

    public string Type { get; set; }//”bottle”, “lid”
    public string Color { get; set; }//”light”, “dark”
    public int Number { get; set; }
}
```

| 编号 | 字段名称 | 字段释义 |
|----|---------|------|
| 1 | ID | 库位编号 |
| 2 | PlateID | 料盘号 |
| 2 | Type | 类型 |
| 3 | Color | 颜色 |
| 4 | Number | 数量 |

备注：

ID：1-60

类型：“bottle”-盖子，“lid”-盖体

颜色：“dark”-深色，“light”-浅色

Number: 零件数量

```
public class ResultData
{
    public string Result { get; set; }
    public ErrorCode Code { get; set; }
}

public enum ErrorCode
{
    OK = 0,
    UserNotLogined,
    WrongParameter,
    Exception
}
```

目前数据库存储两个库位信息，测试更新这两个库位的数量，如图

| | ID | PlateID | Type | Color | Number |
|---|----|---------|--------|-------|--------|
| 1 | 1 | 1 | bottle | light | 10 |
| 2 | 2 | 2 | lid | dark | 6 |

sample code:

```
var url = "http://106.14.196.176:8082/api/storage/UpdateBinInfo";
HttpRequest httpWebRequest = (HttpRequest)WebRequest.Create(url);
httpWebRequest.ContentType = "application/json";
httpWebRequest.Method = "POST";
httpWebRequest.Timeout = 1000000;

var data = new ViewStorageBin() { Operation = "minus", ID = 2, PlateID = 2, Color = "dark", Type = "lid",
```

Number = 3 };//将库位2的零件数量减3个

```
string jsonData = JsonConvert.SerializeObject(data);
byte[] buff = Encoding.UTF8.GetBytes(jsonData);
httpWebRequest.ContentLength = buff.Length;
Stream httpRequestStream = httpWebRequest.GetRequestStream();
httpRequestStream.Write(buff, 0, buff.Length);
httpRequestStream.Close();
HttpWebResponse httpWebResponse = (HttpWebResponse)httpWebRequest.GetResponse();
StreamReader streamReader = new StreamReader(httpWebResponse.GetResponseStream());
string responseContent = streamReader.ReadToEnd();
var result1 = JsonConvert.DeserializeObject<ResultData>(responseContent);
Console.WriteLine("minus state : " + result1.result);
```

```
streamReader.Close();
httpWebResponse.Close();
httpWebRequest.Abort();

///添加引用

using Newtonsoft.Json;
```

(2)设备状态

1) 堆垛机状态

a、api 接口

| | |
|--------|--|
| URL | http://106.14.196.176:8082/api/storage/UpdateStackerState |
| Method | http post json |
| Return | 正确：{ Result：“OK”，“Code”: ErrorCode.OK } 错误：{ Result：“NA”，“Code”: ErrorCode.WrongParameter } |

b、示例代码

```
class:
public class ViewStackerState
{
    public DateTime PickTime { get; set; }
    public string StackerPositon { get; set; }
    public double StackerWalkingCurrent { get; set; }
    public double StackerWalkingSpeed { get; set; }
    public double StackerLiftingCurrent { get; set; }
    public double StackerLiftingSpeed { get; set; }
    public double StackerStackingCurrent { get; set; }
    public double StackerStackingSpeed { get; set; }
}
```

| 编号 | 字段名称 | 字段释义 |
|----|-----------------------|---------|
| 1 | PickTime | 采集时间 |
| 2 | StackerPosition | 堆垛机位置 |
| 3 | StackerWalkingCurrent | 堆垛机行走电流 |
| 4 | StackerWalkingSpeed | 堆垛机行走速度 |
| 5 | StackerLiftingCurrent | 堆垛机提升电流 |

| | | |
|---|------------------------|---------|
| 6 | StackerLiftingSpeed | 堆垛机提升速度 |
| 7 | StackerStackingCurrent | 堆垛机堆垛电流 |
| 8 | StackerStackingSpeed | 堆垛机堆垛速度 |

```

public class ResultData
{
    public string Result { get; set; }
    public ErrorCode Code { get; set; }
}
public enum ErrorCode
{
    OK = 0,
    UserNotLogined,
    WrongParameter,
    Exception
}

```

sample code: 参考 (1) 更新库存信息

2) 堆垛机报警信息

a、api 接口

| | |
|--------|---|
| URL | http://106.14.196.176:8082/api/storage/UpdateStackerAlarmInfo |
| Method | http post json |
| Return | <p>正确 : { Result" : "OK", "Code": ErrorCode.OK }</p> <p>错误 : { Result" : "NA", "Code": ErrorCode.WrongParameter }</p> |

b、示例代码

class:

```

public class ViewStackerAlarmInfo
{
    public DateTime PickTime { get; set; }
    public int AlarmType { get; set; }
    public string AlarmInfo { get; set; }
}

```

| 编号 | 字段名称 | 字段释义 |
|----|----------|------|
| 1 | PickTime | 采集时间 |

| | | |
|---|-----------|------|
| 2 | AlarmType | 报警类别 |
| 3 | AlarmInfo | 报警信息 |

```

public class ResultData
{
    public string Result { get; set; }
    public ErrorCode Code { get; set; }
}

public enum ErrorCode
{
    OK = 0,
    UserNotLogined,
    WrongParameter,
    Exception
}

```

sample code: 参考 (1) 更新库存信息

3) AGV状态

a、api 接口

| | |
|--------|---|
| URL | http://106.14.196.176:8082/api/storage/UpdateAGVState |
| Method | http post json |
| Return | <p>正确 : { Result": "OK", "Code": ErrorCode.OK }</p> <p>错误 : { Result": "NA", "Code": ErrorCode.WrongParameter }</p> |

b、示例代码

class:

```

public class ViewAGVState
{
    public DateTime PickTime { get; set; }
    public float AGVPosition { get; set; }
    public float AGVPower { get; set; }
}

```

| 编号 | 字段名称 | 字段释义 |
|----|-------------|----------|
| 1 | PickTime | 采集时间 |
| 2 | AGVPosition | AGV 位置信息 |

| | | |
|---|----------|--------|
| 3 | AGVPower | AGV 电量 |
|---|----------|--------|

```

public class ResultData
{
    public string Result { get; set; }
    public ErrorCode Code { get; set; }
}
public enum ErrorCode
{
    OK = 0,
    UserNotLogined,
    WrongParameter,
    Exception
}

```

sample code: 参考（1）更新库存信息

4) AGV报警信息

a、api 接口

| | |
|--------|---|
| URL | http://106.14.196.176:8082/api/storage/UpdateAGVAlarmInfo |
| Method | http post json |
| Return | <p>正确：{ Result”：“OK”，“Code”: ErrorCode.OK }</p> <p>错误：{ Result”：“NA”，“Code”: ErrorCode.WrongParameter }</p> |

b、示例代码

class:

```

public class ViewAGVAlarmInfo
{
    public DateTime PickTime { get; set; }
    public int AlarmType { get; set; }
    public string AlarmInfo { get; set; }
}

```

| 编号 | 字段名称 | 字段释义 |
|----|-----------|------|
| 1 | PickTime | 采集时间 |
| 2 | AlarmType | 报警类别 |
| 3 | AlarmInfo | 报警信息 |

```
public class ResultData
{
    public string Result { get; set; }
    public ErrorCode Code { get; set; }
}
public enum ErrorCode
{
    OK = 0,
    UserNotLogined,
    WrongParameter,
    Exception
}
```

sample code: 参考 (1) 更新库存信息