

## 4、WMS 与 ERP

### (1) 更新库存信息

///信息类

```
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 string Type { get; set; }  
    public string Color { get; set; }  
    public int Number { get; set; }  
}
```

///返回

```
public class ResultData
```

```
{  
    public string Result { get; set; } // "OK"-上传成功, "NA"-上传失败  
}
```

///上传示例代码:

```
var url = "http://localhost:63045/api/storage/UpdateBinInfo";
```

```
    HttpWebRequest httpWebRequest = (HttpWebRequest)WebRequest.Create(url);
```

```
    httpWebRequest.ContentType = "application/json";
```

```
    httpWebRequest.Method = "POST";
```

```
    httpWebRequest.Timeout = 1000000;
```

```
    httpWebRequest.KeepAlive = false;
```

```
    var data = new ViewStorageBin() { Operation = "minus", ID = 2, Color = "light", 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); // 解析返
```

回的数据

```
    Console.WriteLine("minus state : " + result1.result);
```

```
    streamReader.Close();
```

```
    httpWebResponse.Close();
```

```

        httpWebRequest.Abort();
    }
    catch (Exception ex)
    {
        Console.WriteLine(ex.Message);
    }
}

///添加引用
using Newtonsoft.Json;

```

## (2)设备状态

### A、堆垛机状态

```

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; }
}

```

### B、堆垛机报警信息

```

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

```

### C、AGV状态

```

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

```

### D、AGV报警信息

```

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

```