Clound MES 工站接口

一,包含文件

MESNCO.dll

Newtonsoft.Json.dll

WebSocket-Sharp.dll

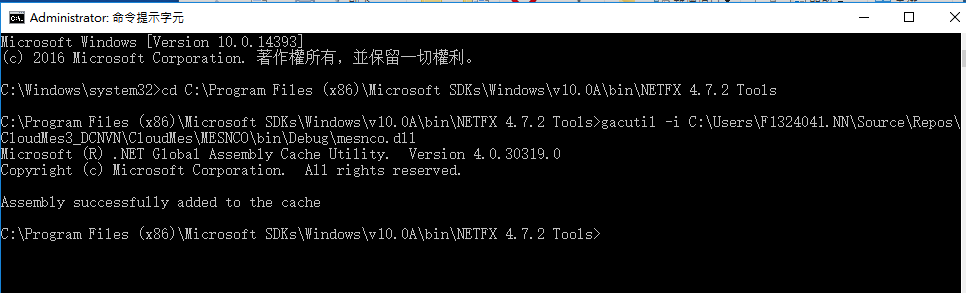
二,安装

以管理员运行CMD

用gacutil.exe -i 加载全局缓存

gacutil.exe位置如下

C:\Program Files (x86)\Microsoft SDKs\Windows\v10.0A\bin\NETFX 4.7.2 Tools



用regasm.exe注册组件

regasm.exe位置如下

C:\Windows\Microsoft.NET\Framework\v4.0.30319



三,接口

接口类型:

MESNCO.IStationObj

MESNCO.StationObj

方法:

string SetConnPara(string \_MESConnStr, string \_MES\_USER, string \_MES\_PWD);

string SetStation(string StationName, string Line);

string StationInput(string InputName, string Value);

string GetSNStationKPList(string SN);

string ScanKP(string SN, string KP\_Item);

string ScanKPTest(string SN, string KP\_Item);

string TEST();

string GetCurrStationObj();

void CloseConn();

string GetWWN\_Datasharing(string WSN, string VSSN, string CSSN);

string UpdateWWN\_Datasharing(string JsonData);

string UpdateJuniperTest(string JsonData);

string TE\_PASSSTATION(string SN, string TE\_SESTATION);

1 SetConnPara

MESConnStr 连接参数

\_MES\_USER 用户名

\_MES\_PWD 密码

返回OK表示成功

其他表示异常描述信息

2 SetStation

StationName 工站名称

Line 线别

返回OK表示成功

其他表示异常描述信息

3 StationInput

InputName 输入名称

Value 输入的值

返回OK开头的字符串表示成功,除OK外其他的是工站提示信息

其他表示异常描述信息

4 GetSNStationKPList

SN 机台的SN

返回KP对象表示成功,失败会抛出异常

KP对象见附件.

5 ScanKPTest / ScanKP

SN 机台的SN

KP\_Item 扫描的KP对象

返回OK表示成功

其他表示异常描述信息

6 GetCurrStationObj

返回当前工站对象

7 CloseConn

关闭当前连接

8 GetWWN\_Datasharing

查询WWN\_Datasharing

9 UpdateWWN\_Datasharing

更新WWN\_Datasharing

10 UpdateJuniperTest

更新UpdateJuniperTest

11 TE\_PASSSTATION

調用MES過站

輸入SN，TE\_SESTATION工站名称

返回OK表示TE調用過站成功

其他表示异常描述信息

四,使用逻辑

1. 创建StationObj对象.
2. 调用SetConnPara 连接到MES服务器
3. 调用SetStation初始化工站
4. 调用GetSNStationKPList获取KP列表
5. 调用ScanKPTest检查KP数据
6. 调用ScanKP绑定KP
7. 调用GetWWN\_Datasharing获取WWN\_Datasharing数据 返回数据见附件2
8. 调用UpdateWWN\_Datasharing更新WWN\_Datasharing数据 发送数据见附件2.如果ID栏位为空则会新增一条数据,ID系统会自动生成.
9. 调用其它需要接口

五,附件

1,KP\_LIST对象

{

"KPS":[]

"MPNs":[]

"Repalce": {},

"KPRule": []

}

"KPS"数组里面放的是待绑定KP的对象,

主要关注:

SCANTYPE 值为PN的项目VALUE传料号

SCANTYPE 值为SN的项目VALUE传SN

EXVALUE1里面保存Location的值,在绑定时请注意匹配

{

"ID": "VERTIV000000000000000000000000018DX8",

"R\_SN\_ID": "VERTIV000000000000000000000000018KQ1",

"SN": "2001100197BWK46",

"VALUE": null,

"PARTNO": "VT02312730",

"KP\_NAME": "BAT",

"MPN": "VT02312730",

"SCANTYPE": "PN",

"ITEMSEQ": 6.0,

"SCANSEQ": 7.0,

"DETAILSEQ": 1.0,

"STATION": "FI2",

"REGEX": "^2102312430{1}[0-9]{3}[0-9,A-C]{1}[0-9,A-Z]{2}[0-9,A-Z]{4}$",

"VALID\_FLAG": 1.0,

"EXKEY1": null,

"EXVALUE1": null,

"EXKEY2": null,

"EXVALUE2": null,

"EDIT\_TIME": "2020-01-12 05:29:38",

"EDIT\_EMP": "G6005873"

}

数据举例:

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"KPS": [

{

"ID": "VERTIV000000000000000000000000018DX8",

"R\_SN\_ID": "VERTIV000000000000000000000000018KQ1",

"SN": "2001100197BWK46",

"VALUE": null,

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"KP\_NAME": "BAT",

"MPN": "VT02312730",

"SCANTYPE": "PN",

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"EXVALUE1": null,

"EXKEY2": null,

"EXVALUE2": null,

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"EDIT\_EMP": "G6005873"

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"VALUE": null,

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"KP\_NAME": "BAT",

"MPN": "VT02312730",

"SCANTYPE": "PN",

"ITEMSEQ": 6.0,

"SCANSEQ": 8.0,

"DETAILSEQ": 1.0,

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"VALID\_FLAG": 1.0,

"EXKEY1": null,

"EXVALUE1": null,

"EXKEY2": null,

"EXVALUE2": null,

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"EDIT\_EMP": "G6005873"

},

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"R\_SN\_ID": "VERTIV000000000000000000000000018KQ1",

"SN": "2001100197BWK46",

"VALUE": null,

"PARTNO": "VT31013932",

"KP\_NAME": "Manual",

"MPN": "VT31013932",

"SCANTYPE": "PN",

"ITEMSEQ": 7.0,

"SCANSEQ": 9.0,

"DETAILSEQ": 1.0,

"STATION": "FI2",

"REGEX": "VT31013932",

"VALID\_FLAG": 1.0,

"EXKEY1": null,

"EXVALUE1": null,

"EXKEY2": null,

"EXVALUE2": null,

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"EDIT\_EMP": "G6005873"

},

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"R\_SN\_ID": "VERTIV000000000000000000000000018KQ1",

"SN": "2001100197BWK46",

"VALUE": null,

"PARTNO": "VT31013935",

"KP\_NAME": "Manual",

"MPN": "VT31013935",

"SCANTYPE": "PN",

"ITEMSEQ": 8.0,

"SCANSEQ": 10.0,

"DETAILSEQ": 1.0,

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"VALID\_FLAG": 1.0,

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"EXVALUE1": null,

"EXKEY2": null,

"EXVALUE2": null,

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"EDIT\_EMP": "G6005873"

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"PARTNO": "VT31013932",

"MPN": "VT31013932",

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"EDIT\_TIME": "2019-07-17 16:39:33",

"EDIT\_EMP": "G6003734"

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"ID": "VERTIV00000000000000000000000000012Y",

"SKUNO": "VT01201983",

"PARTNO": "VT31013935",

"MPN": "VT31013935",

"MFRCODE": "-",

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"EDIT\_EMP": "G6003734"

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"SKUNO": "VT01201983",

"PARTNO": "VT02312426",

"MPN": "VT02312426",

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"EDIT\_EMP": "G6004112"

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"MPN": "VT03035781",

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"EDIT\_EMP": "G6004112"

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"PARTNO": "VT03021989",

"MPN": "VT03021989",

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"EDIT\_TIME": "2019-03-11 19:00:19",

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"ID": "VERTIV0000000000000000000000000000FV",

"SKUNO": "VT01201983",

"PARTNO": "VT03022059",

"MPN": "VT03022059",

"MFRCODE": null,

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"EDIT\_EMP": "G6004112"

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"MPN": "VT02312430",

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"EDIT\_EMP": "G6004112"

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"MPN": "VT03021988",

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"PARTNO": "VT29040950",

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"REGEX": "^0419{1}[0-9,A-Z]{5}$",

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"EDIT\_TIME": "2020-01-08 18:04:35",

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"SCANTYPE": "PN",

"MPN": "VT31013935",

"PARTNO": "VT31013935",

"ID": "VERTIV0000000000000000000000000001D5"

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"EDIT\_TIME": "2019-07-23 10:59:07",

"REGEX": "^VT02312730$",

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"MPN": "VT02312730",

"PARTNO": "VT02312730",

"ID": "VERTIV0000000000000000000000000000TM"

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"EDIT\_TIME": "2019-07-23 11:31:53",

"REGEX": "^[0-9]{4}[0-9,A-Z]{5}$",

"SCANTYPE": "SN",

"MPN": "VT03035778",

"PARTNO": "VT03035778",

"ID": "VERTIV0000000000000000000000000000BG"

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"REGEX": "^041{1}[0-9,A-Z]{6}$",

"SCANTYPE": "SN",

"MPN": "VT03021989",

"PARTNO": "VT03021989",

"ID": "VERTIV0000000000000000000000000000BF"

}

],

"KPTrims": []

}

附件2

[

{

"ID": "TEST0001",

"WSN": "2102130969218B17001F",

"SKU": "VT02130969",

"VSSN": "PPO",

"VSKU": "N/A",

"CSSN": "N/A",

"CSKU": "N/A",

"MAC": null,

"WWN": null,

"MAC\_BLOCK\_SIZE": 0.0,

"WWN\_BLOCK\_SIZE": 0.0,

"LASTEDITBY": "SYSTEM",

"LASTEDITDT": "2020-03-14 00:00:00",

"MACTB0": null,

"MACTB1": null,

"MACTB2": null,

"MACTB3": null,

"MACTB4": null,

"WWNTB0": null,

"WWNTB1": null,

"WWNTB2": null,

"WWNTB3": null,

"WWNTB4": null

}

]

附件3 Juniper上傳測試數據r\_test\_juniper

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{

"ID": "TEST0001",

"SYSSERIALNO": "2102130969218B17001F",

"TESTDATE": "2020-03-14 00:00:00",

"EVENTNAME": "ICT",

"STATUS": "PASS",

"PART\_NUMBER": "BU12O1800T01",

"CM\_ODM\_PARTNUMBER": "BU12O1800T01",

"SERIAL\_NUMBER": "2102130969218B17001F",

"PHASE": null,

"PART\_NUMBER\_REVISION": "01",

"UNIQUE\_TEST\_ID": "000000001",

"TEST\_START\_TIMESTAMP": "2020-03-14 00:00:00",

"TEST\_STEP": "2020-03-14 00:00:00",

"TEST\_CYCLE\_TEST\_LOOP": "1",

"CAPTURE\_TIME": "2020-03-14 00:00:00",

"TEST\_RESULT": "PASS",

"FAILCODE": "PASS",

"TEST\_STATION\_NUMBER": "ST01",

"TEST\_STATION\_NAME": "ICT",

"LOAD\_DATE": "2020-03-14 00:00:00",

"FILE\_NAME": "2102130969218B17001F.txt",

"LASTEDITDT": "2020-03-14 00:00:00",

"LASTEDITBY": "EMP\_NO",

"TESTERNO": "ST01",

"TATIME": "2020-03-14 00:00:00"

}

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