目　录

常用SQL
客户信息
部分问题处理过程（针对老客户）
前端
接口过站
售后交付清单
测试跳转
自定义报表操作
昂湃液冷
硬件设置
SQL
SQL2
客户业务说明
系统参数
系统按钮
数据字典
数据字典类型

常用SQL

1.找登录账号密码

http://124.71.33.56/Content/sys/UserMessage.aspx
ip换客户IP，查看网页请求

http://124.71.33.56/content/sys/menu.aspx#

2.找某工单线体车间等信息

```
select  top 9999  W.NAME,l.name '线体',s.name  工站,r.name 工序 from CT_RO
UTESTEP_STATIONS c
left join CT_STATIONS s on c.station_id=s.station_id
left join ct_lines l on s.line_id=l.line_id
LEFT JOIN CT_WORK_CENTERS W ON W.WORK_CENTER_ID=L.WORK_CENTER_ID
left join QS_ROUTE_STEPS  r on c.route_step_id=r.route_step_id
LEFT JOIN QS_ROUTES_DEFINITIONS RT ON RT.ROUTE_STEP_ID=R.route_step_id
where
RT.route_id<>''
  and  RT.route_id=(select p.route_id from [Udit.SFC].[dbo].[qs_lots]  lo
t
                    left join [Udit.SFC].[dbo].[qs_products]  p on lot.pro
duct_id=p.product_id
                    where lot_name='JGTEST2332711')
```

3.综合查询相关查询

```
    -- 工单条码
       select SERIAL_NUMBER,QTY, '下一站'=isnull(r.name,'完工') from [Udi
t.sfc].[dbo].[qs_serial_numbers] s
     left join [Udit.sfc].[dbo].[qs_route_steps] r on s.next_step_id=r.ro
ute_step_id
     where lot_name=@lot;
     --工艺流程
     select  b.name '工艺名',c.name '工序名',a.seq,a.IS_OFFLINE from QS_RO
UTES_DEFINITIONS a
  left join QS_ROUTES  b on a.ROUTE_ID= b.ROUTE_ID
```

```
  left join QS_ROUTE_STEPS c on a.ROUTE_STEP_ID=c.ROUTE_STEP_ID
  where  a.route_id<>''
  and  a.route_id=(select p.route_id from [Udit.SFC].[dbo].[qs_lots]  lot
                   left join [Udit.SFC].[dbo].[qs_products]  p on lot.pro
duct_id=p.product_id
                   where lot_name=@lot)
  order by a.route_id
    工单所在车间线体一览
select  top 9999  W.NAME,l.name '线体',s.name  工站,r.name 工序 from CT_RO
UTESTEP_STATIONS c
left join CT_STATIONS s on c.station_id=s.station_id
left join ct_lines l on s.line_id=l.line_id
LEFT JOIN CT_WORK_CENTERS W ON W.WORK_CENTER_ID=L.WORK_CENTER_ID
left join QS_ROUTE_STEPS  r on c.route_step_id=r.route_step_id
LEFT JOIN QS_ROUTES_DEFINITIONS RT ON RT.ROUTE_STEP_ID=R.route_step_id
where
RT.route_id<>''
  and  RT.route_id=(select p.route_id from [Udit.SFC].[dbo].[qs_lots]  lo
t
                   left join [Udit.SFC].[dbo].[qs_products]  p on lot.pro
duct_id=p.product_id
                   where lot_name='JGTEST2332711')

    --工单wip
       select lot.Lot_Name 工单,[ProductName]  产品,lot.QUANTITY 工单数量 ,
[Station_Name]  工序站点,[Route_Step_Name]  工艺名称,[PASS]  通过数量,[Fai
l]  不良数,(lot.QUANTITY -[PASS]) 剩余板数,PASS_OUT 委外通过数,FAIL_OUT 委外
不良数  from  [Udit.SFC].[dbo].[CT_LotRouteStatus] (nolock) ctlot join [U
dit.SFC].[dbo].[QS_LOTS] (nolock) lot on ctlot.Lot_Name =lot.LOT_NAME
where lot.Lot_Name=@lot  ;

    --上料记录
      SELECT DISTINCT 工单,产品,工位,贴片面,机器号,模组,站位,UID,R.MATERIAL_
NO 料号, R.LOT_NO 批次,''规格,Datetime 时间,StatusCode 类型,AA.Operator 操
作员 ,AA.QUANTITY 数量 FROM(     select distinct  OrderName 工单, SetupNam
e 产品, line 工位, isnull(Face, '') 贴片面, station 机器号, Tableno 模组, p
ickup 站位,      CASE WHEN  UID = '' THEN REVERSE(SUBSTRING(REVERSE(Left(L
oadedRefillUID, charindex(':', LoadedRefillUID))), 2, 50)) ELSE UID END
 UID,       b.MATERIAL_NO 料号, b.LOT_NO 批次, b.SupplierPartNumber 规格,
a.Datetime,StatusCode,Operator,a.QUANTITY FROM[Udit.CHC].[dbo].[TraceDat
a](nolock) a     left join[Udit.Mms].[dbo].[mms_reels](nolock) b on a.uid
= b.REEL_BARCODE where ordername = @lot  and StatusCode in('SetupCheck_Tr
ue','SetdownCheck_True')  and StatusCode != 'IPQC_True' )AA   LEFT JOIN[U
dit.Mms].[dbo].[mms_reels]R(nolock) ON AA.UID = R.REEL_BARCODE   ORDER BY
时间,机器号,工位 DESC, 站位, R.MATERIAL_NO
```

```
    -- 不良记录
     select * from( select ROW_NUMBER() OVER(ORDER BY  def.INSPECT_TIME a
sc) a, def.serial_number 条码,CONVERT(varchar(12) , def.INSPECT_TIME, 102
 ) +' '+ CONVERT(varchar(12) , def.INSPECT_TIME, 108 )   记录时间,def.insp
ect_user 不良记录着,CONVERT(varchar(12) , def.REPAIR_TIME, 102 ) +' '+ CON
VERT(varchar(12) , def.REPAIR_TIME, 108 ) 维修时间,def.defect_type 缺陷分
类,def.DEFECT_LABEL 缺陷类型,def.DEFECT_LOCATION 缺陷位置,(case   when repa
ir_status=1 and rep.REPAIR_ACTION=1   then '已修' when rep.REPAIR_ACTION=2
then '报废'  when repair_status=2 then '误测'   else '未修' end) 状态,isnul
l(rep.REPAIR_DESC,'') 维修备注,rep.defectAnalysis 不良原因分析,  rep.defect
Category 不良类别, def.REPAIR_USER 维修者, org.OrganizeName 责任部门,(case
rep.REPAIR_ACTION when 1 then '正常维修' when 2 then '报废' else '' end  )
维修类型, def.QTY 数量    from [Udit.SFC].[dbo].[QS_DEFECTS] (nolock) def
left  join [Udit.SFC].[dbo].[QS_REPAIR_INFO] (nolock) rep on def.DEFECT_I
D=rep.DEFECT_ID left  join [Udit.Sys].[dbo].[sys_organize] (nolock) org o
n rep.dutyDept=org.OrganizeCode  where def.lot_name=@lot ) s where 1=1

 -- 绑定关联
      select LOT_NAME,SERIAL_NUMBER,STATION_NAME,MATERIEL_NO,ASSEMBLY_SN,
ASSEMBLY_TIME,ASSEMBLY_USER from [Udit.sfc].[dbo].[QS_ASSEMBLY] where lot
_name=@lot
--工艺流程
select  b.name '工艺名',c.name '工序名',a.seq,a.IS_OFFLINE from QS_ROUTES_
DEFINITIONS a
left join QS_ROUTES  b on a.ROUTE_ID= b.ROUTE_ID
left join QS_ROUTE_STEPS c on a.ROUTE_STEP_ID=c.ROUTE_STEP_ID
where  a.route_id<>''
and  a.route_id=(select p.route_id from [Udit.SFC].[dbo].[QS_SERIAL_NUMBE
RS]  s
 left join [Udit.SFC].[dbo].[qs_products]  p on s.MODEL_NO=p.name
 where s.serial_number='22100003')
order by a.route_id
```

```
--条码状态
SEELCT
--过站记录
       select w.SERIAL_NUMBER,w.LOT_NAME lot_name, w.MODEL_NO  model_no,
w.reelBarcode reelBarcode, CONVERT(varchar(12) ,
         w.START_TIME, 102 ) +' '+ CONVERT(varchar(12) , w.START_TIME, 10
8 )  start_time,
         w.XUSER xuser,(select name from [dbo].[QS_ROUTE_STEPS] (nolock)
where route_step_id=w.route_step_id) droute,sysline.ShortName ,  isnull((
select name from [dbo].[QS_ROUTE_STEPS] (nolock) where route_step_id=w.ne
xt_step_id),'完工') nroute, (case w.WIP_STATE when 0 then 'PASS' else 'Fai
l'end) WIP_STATE , (case SCAN_TYPE when 0 then '扫码过站' when 22 then '接
```

```
口过站' when 44 then '维修过站' when 45 then '跳站过站' when 70 then '解绑操
作' when 11 then '拆箱操作' when 99 then 'DCP数据采集' when 21 then '误判'
when 91 then '条码导入' when 77 then '误测' when 23 then 'RT过站' when 12 t
hen 'BL快修' when 13 then 'BL交换' when 14 then 'BL维修' when 24 then '委外
过站' else '其它操作' end ) SCAN_TYPE, (select L.NAME from [dbo].[CT_STATI
ONS] (nolock) s join [dbo].[CT_LINES] (nolock) l on s.LINE_ID=l.LINE_ID w
here s.STATION_ID=w.STATION_ID) 线别,n.level 等级  FROM [Udit.SFC].[dbo].
[view_wip] (nolock) w join [Udit.Sys].[dbo].[Sys_Resource] (nolock) sysli
ne on w.station_id=sysline.ResourceId left join [Udit.SFC].[dbo].QS_SERIA
L_NUMBERS(nolock) n on w.SERIAL_NUMBER=n.SERIAL_NUMBER
         where w.serial_number  = @sn ;
--箱号查询
     select           box.box_number,box.box_type,box.box_total,box.box_w
eight,box.lot_name,box.product_name,item.route_step_name ,item.create_use
r_name,item.create_time ,l.name line_name
    from ct_boxs box
left join CT_BOX_ITEMS item on box.box_number=item.box_number
left join [dbo].[CT_STATIONS] (nolock) s on s.STATION_ID=box.STATION_ID
left join [dbo].[CT_LINES] (nolock) l on s.LINE_ID=l.LINE_ID
where item.serial_number='22100003'

--载具查询
select car.lot_name ,car.product_name,car.car_number,car.car_size,item.cr
eate_time,item.create_user_name
 from CT_CARS_HISTORY car
left join CT_CAR_ITEMS_HISTORY item on item.car_number=car.car_number
where item.serial_number='22100003'

--拼版查询
              select distinct serial_number,serial_number_id ,pb, PANEL_I
NDEX from(select serial_number,serial_number_id ,pb='子板',PANEL_INDEX fro
m [Udit.SFC].DBO.QS_SERIAL_NUMBERS (nolock) where SERIAL_NUMBER_ID in(sel
ect ChildItemInventoryID from   [Udit.SFC].DBO.DW_PanelLinks (nolock) whe
re ParentItemInventoryID=(select top 1 ParentItemInventoryID from  [Udit.
SFC].DBO.DW_PanelLinks (nolock) where ChildItemInventoryID=(select top 1
 SERIAL_NUMBER_ID from  [Udit.SFC].DBO.QS_SERIAL_NUMBERS (nolock) where
        SERIAL_NUMBER =  @sn)))
        union all select serial_number,serial_number_id ,pb='母板',PANEL_I
NDEX from [Udit.SFC].DBO.QS_SERIAL_NUMBERS (nolock) where SERIAL_NUMBER_I
D= (select top 1 ParentItemInventoryID from   [Udit.SFC].DBO.DW_PanelLink
s (nolock) where ChildItemInventoryID=(select top 1 SERIAL_NUMBER_ID from
[Udit.SFC].DBO.QS_SERIAL_NUMBERS (nolock) where SERIAL_NUMBER =  @sn))
        union all select serial_number,serial_number_id ,pb='子板',PANEL_I
NDEX from [Udit.SFC].DBO.QS_SERIAL_NUMBERS (nolock) where SERIAL_NUMBER_I
D in(select ChildItemInventoryID from [Udit.SFC].DBO.DW_PanelLinks (noloc
k) where ParentItemInventoryID=(select top 1 SERIAL_NUMBER_ID from   [Udi
```

```
t.SFC].DBO.QS_SERIAL_NUMBERS where SERIAL_NUMBER =  @sn)) ) dd order by P
ANEL_INDEX;
--绑定关联
      select LOT_NAME,SERIAL_NUMBER,STATION_NAME,MATERIEL_NO,ASSEMBLY_SN,
ASSEMBLY_TIME,ASSEMBLY_USER from [Udit.sfc].[dbo].[QS_ASSEMBLY] where ser
ial_number=@sn
```

SQL

```
ALTER TABLE table_name
ALTER COLUMN column_name new_data_type;
ALTER TABLE table_name
ADD column_name data_type [NULL | NOT NULL] [DEFAULT default_value]
```

```
--备料，调拨，其他单据
    select  a.[BillNo]
      ,a.[ContractCode]
   ,a.[inWarehouseCode] 仓库编码
   ,w.[WarehouseName] 备料仓名
   ,b.[RowId] 备料项次
   ,(b.[Num]-b.[RemainNum]) 已发数
   ,b.[Num] 需求数
   ,b.[MaterialCode]
   ,c.[REEL_BARCODE]
     ,c.[LOCATION]
     ,color.[name]
     ,color.[color] 需要颜色
   ,d.[color] 亮灯颜色
    FROM [Udit.Mms].[dbo].[mms_bills] a
    left join [Udit.Mms].[dbo].[mms_aibin_lightcolor] color on color.[pic
k_id]=a.[BillNo]
     left join [Udit.Mms].[dbo].[mms_billsdetail] b on b.[BillNo]=a.[Bill
No]
     left join [Udit.Mms].[dbo].[mms_REELS] c on c.[MATERIAL_NO]=b.[Mater
ialCode] and c.STATUS=1 and c.[WAREHOUSE]=a.[inWarehouseCode]
     left join [Udit.Mms].[dbo].[mms_aibins] d on d.[bin]=c.[LOCATION]
       left join [Udit.Mms].[dbo].[mms_warehouse] w on w.[WarehouseCode]=
a.[inWarehouseCode]
    where a.billNO='PD221207000003'
    union all
        select  a.[BillNo]
   ,a.[BillNo]
```

```
   ,a.[WarehouseCode] 仓库编码
   ,w.[WarehouseName] 备料仓名
   ,b.[RowId] 备料项次
   ,(r.[Num]-b.[Qty]) 已发数
   ,r.[Num] 需求数
   ,b.[Material_Code]
   ,c.[REEL_BARCODE]
     ,c.[LOCATION]
     ,color.[name]
     ,color.[color] 需要颜色
   ,d.[color] 亮灯颜色

    FROM [Udit.Mms].[dbo].[mms_transfer] a
    left join [Udit.Mms].[dbo].[mms_aibin_lightcolor] color on color.[pic
k_id]=a.[BillNo]
     left join [Udit.Mms].[dbo].[mms_transferreels] b on b.[BillNo]=a.[Bi
llNo]
     left join [Udit.Mms].[dbo].[mms_transferDetail] r on r.[BillNo]=a.[B
illNo]
     left join [Udit.Mms].[dbo].[mms_REELS] c on c.[MATERIAL_NO]=b.[Mater
ial_Code] and c.STATUS=1 and c.[WAREHOUSE]=a.[WarehouseCode]
     left join [Udit.Mms].[dbo].[mms_aibins] d on d.[bin]=c.[LOCATION]
       left join [Udit.Mms].[dbo].[mms_warehouse] w on w.[WarehouseCode]=
a.[WarehouseCode]
    where a.billNO='PD221207000003'
    union all
    SELECT  a.[BillNo]
      ,a.[ContractCode]
   ,b.[WarehouseCode] 仓库编码
   ,w.[WarehouseName] 备料仓名
   ,b.[RowId] 备料项次
   ,(b.[Num]-b.[RemainNum]) 已发数
   ,b.[Num] 需求数
   ,b.[MaterialCode]
   ,c.[REEL_BARCODE]
   ,c.[LOCATION]
   ,color.[name]
   ,color.[color] 需要颜色
   ,d.[color] 亮灯颜色
  FROM [Udit.Mms].[dbo].[mms_pick] a
  left join [Udit.Mms].[dbo].[mms_aibin_lightcolor] color on color.[pick_
id]=a.[BillNo]
  left join [Udit.Mms].[dbo].[mms_pickDetail] b on b.[BillNo]=a.[BillNo]
  left join [Udit.Mms].[dbo].[mms_REELS] c on c.[MATERIAL_NO]=b.[Material
Code] and c.STATUS=1 and c.[WAREHOUSE]=b.[WarehouseCode]
  left join [Udit.Mms].[dbo].[mms_aibins] d on d.[bin]=c.[LOCATION]
```

```
  left join [Udit.Mms].[dbo].[mms_warehouse] w on w.[WarehouseCode]=b.[Wa
rehouseCode]
  where [ContractCode] like '%PD221207000003'
  and  b.[RemainNum] >0
  order by b.[RowId] asc
```

```
--包装设置
select top 100 * from
SYS_PACK_SETTING
```

```
--跨库查询
select top 100* from
mms_reels(nolock) a
left join
openrowset('SQLOLEDB','124.71.33.56';'sa';'password.',[Udit.Mms].[dbo].[m
ms_reels]) b
on a.reel_barcode=b.reel_barcode
where a.reel_barcode=b.reel_barcode
```

```
-- IQC检验查询
select   top 200
'检验结果'=case when a.ApproveState='1' then '提交' when a.ApproveState=
'0' then '未提交' end
,a.BillNo '检验单号',a.Receive_BillNo  '收料单号'
,d.MaterialCode '物料编码',d.MaterialName '物料名称'
,s2.Merchantsname '供应商名称'
,d.Receive_Qty '来料数量',d.Sample_Qty '抽检数量'
,iq.attribute_value '扫描数量',iq1.attribute_value  '合格数量',iq2.attribut
e_value  '不合格数量'
,s.username '检验人',s.createDate '检验时间',s1.username '批准人',a.Approve
Date '批准时间'
from
mms_IQC_Orico_Master(nolock) a
left join [Udit.Sys].dbo.sys_user(nolock) s on a.createperson=s.usercode
left join [Udit.Sys].dbo.sys_user(nolock) s1 on a.ApprovePerson=s1.userco
de
left join mms_IQC_Orico_Detail(nolock) d on d.billno=a.billno
left join mms_receive(nolock) r on d.Receive_BillNo=r.billno
left join mms_merchants(nolock) s2 on r.SupplierCode=s2.MerchantsCode
left join mms_IQC_Result(nolock) re on r.billno=re.rebillno and d.rowid=r
e.rowid
left join mms_iqc_formcontents(nolock) iq on iq.id=a.billno and iq.[attri
bute_key]='SmokeNum'
```

```
left join mms_iqc_formcontents(nolock) iq1 on iq1.id=a.billno and iq1.[at
tribute_key]='GoodNum'
left join mms_iqc_formcontents(nolock) iq2 on iq2.id=a.billno and iq2.[at
tribute_key]='BadNum'
order by a.BillNo desc
```

```
-- 锁表查询
select request_session_id spid,OBJECT_NAME(resource_associated_entity_id)
tableName
from sys.dm_tran_locks where resource_type='OBJECT'
--杀死锁表进程
declare @spid int
Set @spid = 65 --锁表进程
declare @sql varchar(1000)
set @sql='kill '+cast(@spid as varchar)
exec(@sql)
```

```
SELECT a.billNo,a.equipment,a.createDate,b.*

  FROM [Udit.CHC].[dbo].[Tooling_SpotCheckMaster] A
  JOIN  [Udit.CHC].[dbo].[Tooling_SpotCheck] b ON  b.pid = A.id
  WHERE A.equipment='Q001693'
  ORDER BY A.createUser DESC
```

```
    SELECT rt.name,s.name,r.seq FROM
    QS_ROUTES_DEFINITIONS r
    right join QS_ROUTE_STEPS s on s.route_step_id=r. route_step_id
    right join qs_routes rt on rt.route_id=r.route_id
    WHERE r.ROUTE_ID =(
        SELECT ROUTE_ID FROM QS_PRODUCTS WHERE PRODUCT_ID=
            (SELECT PRODUCT_ID FROM QS_LOTS WHERE LOT_NAME='MO006958')
            )
    order  by seq  asc
```

收料

```
declare @date varchar(20)
set @date = '{date}'
if(@date='')
    begin
        set @date = getdate()
```

```
                --set @date = '2020-12-28'
    end

SELECT
re.BillNo 收料单号
,re.ApprovePerson 操作员
,CASE WHEN re.OriginalNum  like '%OT%' THEN  re.OriginalNum  ELSE '' END
送货单号
, convert(varchar(12),re.CreateDate,111) 时间
,rt.MaterialCode 物料编码
,CEILING(rt.Num) 送货数量
,rt.SrcBillNo 采购单号
,rt.MaterialName 名称
,mer.MerchantsName 供应商
,case when re.OriginalNum  like '%OT%' THEN '供应商送货' ELSE '内部收料' EN
D 收料类型

  FROM [Udit.Mms].[dbo].[mms_receive] re --收料单主表
  join [Udit.Mms].[dbo].[mms_receivedetail] rt ON rt.BillNo = re.BillNo
--收料单详情
  join [Udit.Mms].[dbo].[mms_merchants] mer ON mer.MerchantsCode = re.Sup
plierCode --供应商目录


where datediff (day,ApproveDate,GETDATE()) = 0 order by ApproveDate asc
--where CONVERT(varchar(100), ApproveDate, 23) = '2020-12-29' order by Ap
proveDate asc
```

查询收料状态

```
ALTER PROCEDURE [dbo].[receve_status_search]
@billno varchar(100),
@MaterialCode varchar(100),
@percharbill varchar(100),
@bill_status varchar(100),
@page int,
@row int
as
begin

declare @start_seq int,@end_seq int

set @start_seq = (@page - 1)*@row + 1
set @end_seq =@page*@row
```

```
select * from  (
select ROW_NUMBER() OVER(ORDER BY BillNo desc) erq, * from  (select  V2.B
illNo, V2.RowId, V2.SrcRowId ,V1.SupplierCode, V2.SRCBILLNO, V2.MaterialC
ode, v2.materialname, v2.Model,  v2.num, v2.checknum, v1.contractcode, (d
2.num - d2.remainnum) d2num, d1.erpbillno, v1.approvestate, isnull(d1.Bil
lNo, '')   cBillNo, isnull(d1.ERPBillNo, '') cERPBillNo,  case when v1.Ap
proveState = 0 then '收货中'    when(v1.ApproveState = 1 and v2.CheckNum i
s null) then '待IQC检验'    when(d1.BillNo is null and v2.CheckNum > 0) th
en '待入库'      when( v2.CheckNum = 0 and d1.BillType='Check_and_return')
then '已验退'     when(not  d1.BillNo is null and d1.ApproveState = 0) the
n '入库中'      when(not  d1.BillNo is null and d1.ApproveState = 1 and v
2.CheckNum > 0 and((d2.num - d2.remainnum) != 0 or(d2.num - d2.remainnum)
is null)) then '已入库'   when(not  d1.BillNo is null  and((d2.num - d2.re
mainnum) = 0 or(d2.num - d2.remainnum) is null)) then '待入库'    else '其
它' end  状态
from mms_receive (nolock)v1
inner join mms_receivedetail(nolock) v2 on v1.BillNo = v2.BillNo
left join mms_billsdetail(nolock) d2 on v2.BillNo = d2.SrcBillNo and v2.R
owId = d2.SrcRowId and v2.MaterialCode = d2.MaterialCode
left join mms_bills(nolock) d1 on d2.BillID = d1.id
where  v2.BillNo like '%'+ @billno +'%'
and v2.MaterialCode like     '%'+ @MaterialCode +'%'
and v2.SrcBillNo like '%'+ @percharbill +'%'
--and(    (    (    ((d2.num - d2.remainnum) != (case when exists(select
 * from mms_billsdetail where SrcBillNo = d2.SrcBillNo and RowID = d2.Row
ID and     (num - remainnum) != 0)then 0 else 1 end))))  or  (d1.ApproveS
tate = 0 and((d2.num - d2.remainnum) != 0 or(d2.num - d2.remainnum) is nu
ll))    )
) h where    状态 like '%'+@bill_status+'%')
k where erq >= @start_seq AND erq <= @end_seq


end
```

备份语句

```
备份语句
BACKUP DATABASE [Udit.Mms]
TO
  DISK = N'D:\test\mms_bak\mms_bak.bak'
WITH
  NAME = N'Udit.Mms - Backup',
  NOFORMAT, NOINIT, SKIP,
```

```
  STATS = 5
还原语句
  RESTORE DATABASE [Udit.Mms_test]
FROM
  DISK = N'D:\test\mms_bak\mms_bak.bak'
WITH
  FILE = 1,
  RECOVERY,
  STATS = 5;
```

标签取值

```
    select
    max(case item.CKEY when 'customer_material_no' then item.CVALUE else
''end ) 'customer_material_no'
    ,max(case item.CKEY when 'customer_material_name' then item.CVALUE el
se ''end ) 'customer_material_name'
    from
    [Udit.SFC].dbo.SYS_PRODUCT_BASEINFO_ITEMS(nolock)  item
    left join [Udit.SFC].dbo.SYS_PRODUCT_BASEINFO(nolock) s on item.PID=
s.id
    where
    s.PRODUCT_ID =(
    select PRODUCT_ID  from qs_products(nolock) where
    name=(select model_no from qs_serial_numbers(nolock) where serial_num
ber='{serial}')
    )
    and item.CKEY in('customer_material_no','customer_material_name')
```

校验装箱时水排码顺序扫描

```
ALTER PROCEDURE [dbo].[CHECK_PSN_IS_ORDER_SCAN]
    @productId nvarchar(100),
    @lotId nvarchar(100),
        @stationId nvarchar(100),
        @routeStepId nvarchar(100),
        @userId nvarchar(100),
        @boxId nvarchar(100),
        @serialNumberID nvarchar(100),
    @serialNumber VARCHAR(100)
```

```
AS
BEGIN

    --insert into [Udit.sys].[dbo].[sys_public]([key],[val]) values('CHEC
K_PSN_IS_ORDER_SCAN',@lotId+@serialNumber)
    declare @last_psn bigint
        declare @first_psn bigint
        DECLARE @PSN varchar(100)
    declare @lot_name varchar(100)
        declare @msg varchar(100)
        declare @error varchar(100)
    -- 找到该工单最后一个装箱的条码的客户码
        -- 找到工单
        select @lot_name=lot_name from qs_lots(nolock) where lot_id=@lotI
d
        -- 找到客户水排码
        select @PSN=ASSEMBLY_SN from QS_ASSEMBLY(nolock) where serial_Num
ber=@serialNumber
        --set @PSN=@serialNumber
        -- 找到本工单最一个装箱的水排码

        select top 1 @first_psn=customer_sn from [udit.csr].dbo.AP_CUSTOM
ER_SN(NOLOCK) where po=@lot_name order by customer_sn asc
    select top 1 @last_psn=ASSEMBLY_SN  from CT_BOX_ITEMS(nolock) item
        left join QS_ASSEMBLY(nolock) bing on item.SERIAL_NUMBER=bing.ser
ial_number
        where bing.lot_id=@lotId order by item.create_time desc
        if (@last_psn is null)

            begin
             if(@PSN=@first_psn)
          begin
                    set @msg='验证通过！'
                        set @error=0
                        --SELECT 0 AS errorcode, '验证通过！' AS msg
          end
             else
          begin
                        set @msg='请从第一个开始扫描'
                        set @error=1
                         --SELECT 1 AS errorcode, '请从第一个开始扫描！' AS
msg
          end

                select @error AS errorcode ,@msg AS msg
            end
```

```
        else
          begin
            -- 找到下一个水排码，如果和扫描的不一致，则提示
             if(@PSN=(@last_psn+1))
                        begin
                         set @msg='验证通过！'
                         set @error=0
                         --SELECT 0 AS errorcode, '验证通过！' AS msg
                        end
                 else

                    begin
                    set @msg='未按客户水排码顺序扫描，请更换！应扫描 :'+conv
ert(varchar(100),(@last_psn+1))
                        set @error=1
                        --SELECT 1 AS errorcode, '未按客户水排码顺序扫描，请
更换！应扫描 :'+convert(varchar(100),(@last_psn+1)) AS msg
                    end

                select @error AS errorcode ,@msg AS msg
            end
END
```

客户信息

杰成服务器
创明
好帮手丰诺
博凯悦todesk
江机
信佳
苏州硕贝德
凯尔
博源

杰成服务器

```
电脑密码  dwmes  ToDesk:732 927 557  254416
```

星酷

```
todesk
914969869
a12345678A*
桌面密码
jianxin2022#
```

昂湃液冷

```
均维服务器
向日葵
256131870
Aa123456
桌面密码
drmwe123

昂湃服务器
todesk
```

```
738571895
g402k6qw
桌面密码
Ap_88888888
```

```
```

创明

```
目前已停用
349 346 490
3wqvmc
桌面密码
chammes.2015
```

好帮手丰诺

```
 数据库 向日葵远程 893343575  fn852
服务器 853295655 fn852
桌面密码  123@abc
todesk数据库
762 301 059
035708
服务器todesk
492886410
080788
```

景欣泰向日葵

```
658 842 264
密码需和客户要
```

博凯悦todesk

```
508771549
Bkymes88
桌面密码
administrator
abc@123
```

博源todesk web

```
783148568
kt525yvx

桌面密码
TP0922%web
数据库服务器todesk
144196457
m5f72hsu


向日葵
946 356 231
Rz4ynl
TP0922%db
mes账号
panamosheng
Ab@112233
博源供应商端口
http://183.239.134.162:8500/


 华为接口
https://openapi.huawei.com/eSupplier/#/main
scs_z001ut
mfl7788@123
新增或更新标签（updateLabel）
来自 https://openapi.huawei.com/eSupplier/#/detail/51/75
https://openapi.huawei.com/eSupplier/#/detail/51/75
TOPOWQJZHUSU963.TOPOWQJZHUSU963.TOPOWQJZHUSU963.TOPOWQJZHUSU963.TOPOWQJZH
USU*963.0606
```

江机

```
向日葵
958 405 018
973tze
```

信佳

```
mes账号 test test1234
http://10.10.22.2:804

好料回仓 22.2
信佳东莞
好料回仓8.2


http://192.168.8.12     正式端口


http://192.168.8.12:8077    测试端口


http://192.168.8.15 测试环境
192.168.8.15 系统登录账号：dwuser 密码是：Suga2023@.


 116.6.82.226
suga1234
```

海业向日葵

```
510277437
123456

桌面密码
mes.123
sa  数据库
mes.123

todesk
277017612
056537
server=192.168.1.250;uid=sa;pwd=mes.123
```

晶华显示

```
ToDesk设备代码:946 704 048
临时密码:111222
向日葵：
我的识别码:152343116
密码：123456
```

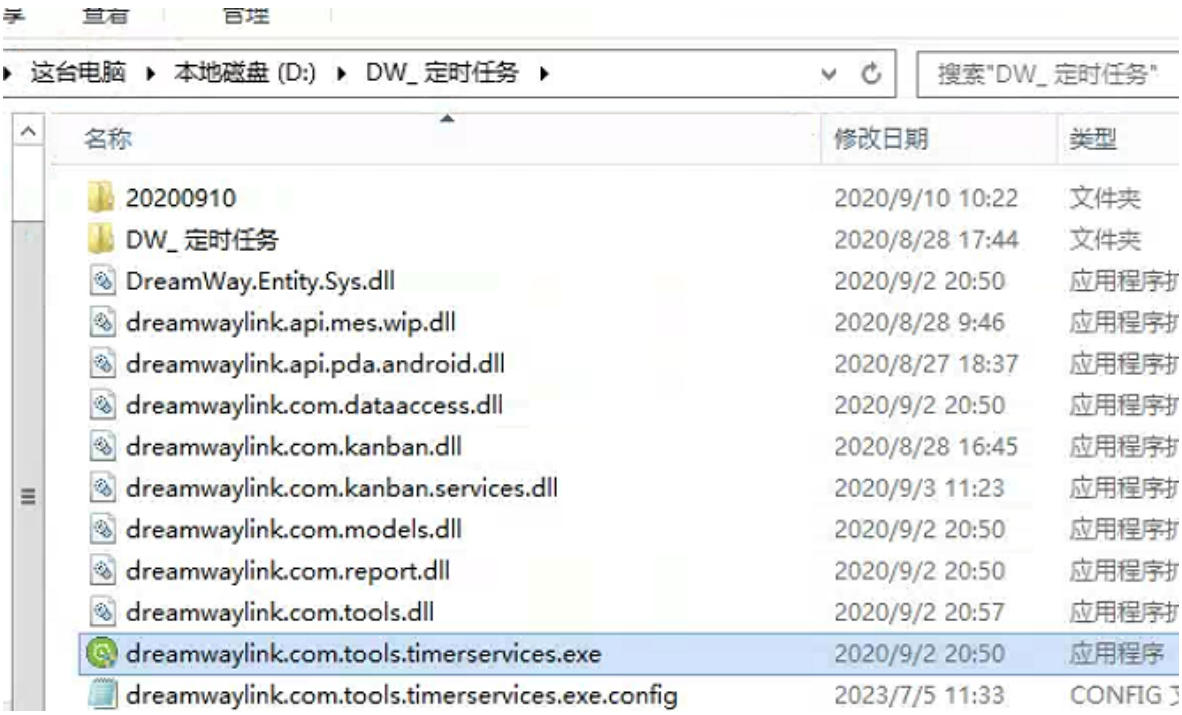
敦实

```
151 283 825
dt2023
桌面密码
ABCabc123
```

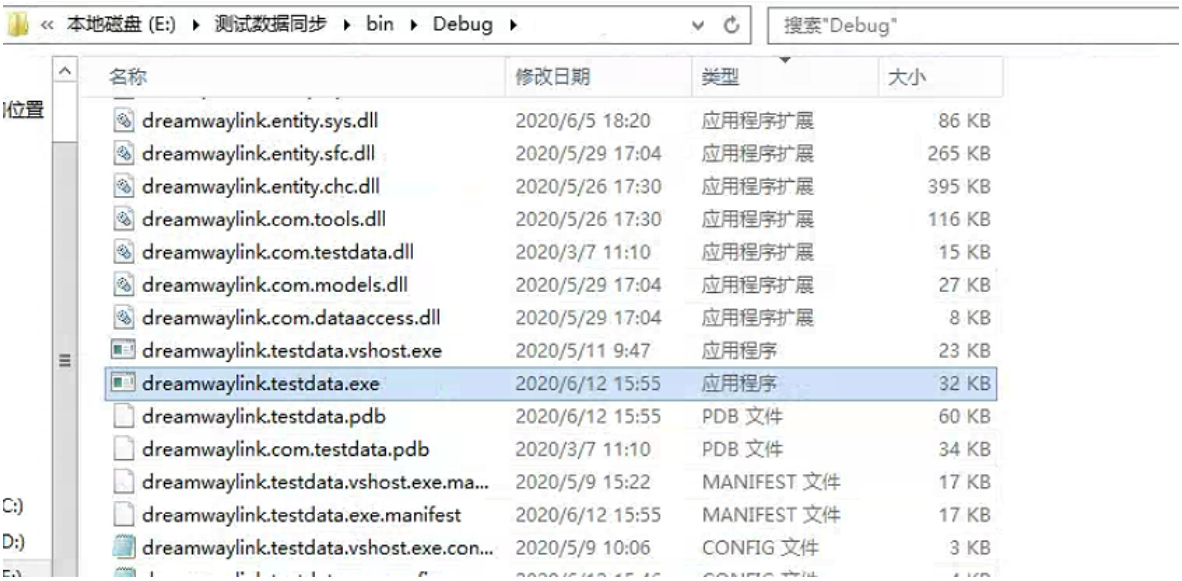
苏州硕贝德

```
服务器
远程 192.168.125.40
账号lcpmes      密码mesSZLCP321!@#

数据库 192.168.125.40
sa     mesSZLCP321!@#
192.168.125.40:8081 批次模式测试端口
192.168.125.40:  sip  批次正式端口

优先使用
邀请您使用ToDesk 进行远程协助
我的被控ID：719109477 密码：123456
账号lcpmes      密码mesSZLCP321!@#

ToDesk下载地址 www.todesk.com
外网地址
http://222.92.121.235:8006/
\\Win-8m6tpm67ki6\共享文件

server=192.168.125.40;uid=sa;pwd=mesSZLCP321!@#;database=Udit.sfc
```

苏州硕贝德定时任务路径（已停用，请勿启用!)



测试数据同软件路径



维力谷

```
http://4193083s8f.wicp.vip:8090/
账户 lp
密码111111
应用服务器 向日葵:
```

```
439104291
a123456
服务器类型 登录类型          登录账户      密码

应用服务器       XT800: 64813815
应用服务器 IP（192.168.1.250） administrator     Hnqx90823
数据库服务器 向日葵: 432574070 a123456
数据库服务器 IP（192.168.1.251） administrator     Hnqx90823
数据库登录 IP（192.168.1.251） sa             @mes2021
ERP数据库登录 IP（192.168.1.101） sa             Hnqx90823
```

裕铭力科

```
服务器：192.168.1.141
服务器密码：Ymlk101
todesk：825 694 702
密码：y07q875a
TD: 340381273
密码：Aa123123

MES 帐号 lp 密码：111111

ERP 服务器
192.168.1132，sa  123
```

乐苏

```
向日葵
730 707 520
OUav3BC
```

安徽凯尔：

```
http://58.210.213.42:8061/   外网
http://192.168.135.211:8061/  内网

WiFi
```

```
账号：office
密码：Ahkerr123456
WiFi
账号：2F-CHEJIAN
密码：kerr888@

ERP
账号：mesah
密码：mesah

MES
账号：sa
密码：AHKERR@2022


server=192.168.135.211,1476;database=udit.mms;user=sa;pwd=AHKERR@2022
```

苏州凯尔

```
内网地址 192.168.135.211
外网地址 http://58.210.213.42:8060/
数据库端口        58.210.213.42,8040/
开机密码 JSkerr@123
桌面远程     192.168.135.211
账号：administrator
密码：JSkerr@123
pda账号: 100  1

MES数据库密码 sa  kerrmes@2020
ERP数据库地址  192.168.135.27
ERP账户 测试 dwmes   密码 dw@q2
              正式 mes  dw@mes2021


vpn下载地址
https://58.210.213.42:7443/
vpn
kerr018    dw@vpn2024


江苏省苏州市漕湖街道春耀路21号


server=192.168.135.211;database=udit.mms;user=sa;pwd=kerrmes@2020
```

部署目录

惠州硕贝德

```
新访问方式
todesk
598921266
449413zt

https://59.33.254.78:10443
172.16.6.7:33809
账号：S00092 密码：CRQ$%^456

账号：mes 密码：mesSRV321!@#
账号 JW 密码 a,123456

天线供应商平台登录系统地址：http://59.33.254.78:45678
账号：A1030密码：A1030vu

汽车电子 todesk
798182107
Wrr3h2pt

天线平台 59.33.254.78:33810    172.16.6.7:8080
天线供应商平台 59.33.254.78:45678    172.16.6.7:8022
智联mes 59.33.254.78:33811    172.16.6.7:80
智联供应商 59.33.254.78:33815    172.16.6.7:8083

VPN账号密码
JW
a,123456

新服务器
```

```
172.16.6.7   administrator  ABCabc@123mes

旧服务器地址
172.16.6.8
远程桌面172.16.6.7:33809
账号：mes
密码：mesSRV321!@#



新服务器
VPN 账号密码 JW  a,123456
172.16.6.10:3389
administrator
ABCabc@123mes
```

亚华

```
MES服务器 登录密码：Jxyh0001

数据库账号：sa     密码：Jxyh0001


向日葵地址：334 946 672

向日葵密码：12346578

ToDesk:
设备代码:446 552 561
临时密码:438846

MES系统网址：https://192.168.16.246/
```

兆兴博拓深圳

```
pcheck 802端口
pda   8077端口
移动货架  8089端口
移动货架测试端口8024
192.168.2.250
ZXBT深圳
administrator
Z2023!a@pwd!
数据库
server=192.168.73.250;uid=sa;pwd=@zxbt123
```

优力普

```
向日葵
185 911 145
8ja585
密码空
```

#金日

```
金日汝湖
Todesk(新)
554 391 438
g7285r2s
桌面密码：Gdczly@2025
```

#汽车电子

```
todesk
501177081
密码：Speed@23
Administrator / mesSERVER10.36!@#456
账号
lp
000000
```

#外协

```
服务器远程：
todesk
879 799 337
Aa123456789.
桌面：
mesSERVER10.35!@#456
```

#长沙兆兴博拓

```
926 270 715
Cs1958Y!
用户 administrator
密码 waBZ1927*
```

` 耀登 不在线

```松湖精工服务器 dotesk
604044181
7uenza4
桌面密码
pinelake2023
```

尚远

```
todesk
122194212
Mes.9999
windows密码
Admin202211@123
```

仁德

```
ToDesk:
设备代码:496 413 447
临时密码:c0z6p8pv
MES服务器:
Administrator
密码：Admin@rde

ERP测试环境帐套：
账号：W.G
密码：123
```

伟创

```
向日葵
614 254 269
```

```
PC192168
```

附件

- 深圳兆兴博拓vpn.zip
- 信佳vpn.zip

部分问题处理过程（针对老客户）

1.博源整箱条码只有一个过站问题

```
-- 1.先查箱内条码下一站是否一致
select s.serial_number,s.next_route_sptes ,r.name
from
[Udit.SFC].dbo.qs_serial_numbers (nolock) s
left join [Udit.SFC].dbo.QS_ROUTE_STEPS (nolock) r on s.NEXT_STEP_ID=r.ro
ute_step_id
where s.serial_number in(
select serial_number from CT_BOX_ITEMS(nolock) where
box_number in(@box_number)
)
--2.如果结果有两个工序名，则需更新条码状态到上一站 一般是更新到称重
update
[Udit.SFC].dbo.qs_serial_numbers
set next_step_id=@route_step

where serial_number in(
select serial_number from CT_BOX_ITEMS(nolock) where
box_number in(@box_number)
)
--华为关联箱号查询
select hw.shipmentNum,hw.barcode,box.box_number,s.serial_number,s.lot_nam
e,c.box_weight from HW_B2B_ASNLabel (nolock) hw
--  serial_number 为箱号 bing_sn 为华为asn
left join QS_BINDING (nolock) b on b.BINDING_SN=hw.barcode

left join CT_BOX_ITEMS (nolock) box on box.box_number=b.serial_number
left join ct_boxs (nolock) c on box.box_number=c.box_number
left join qs_serial_numbers (nolock) s on box.serial_number=s.serial_numb
er

where
hw.shipmentNum='J23C13ANT'
```

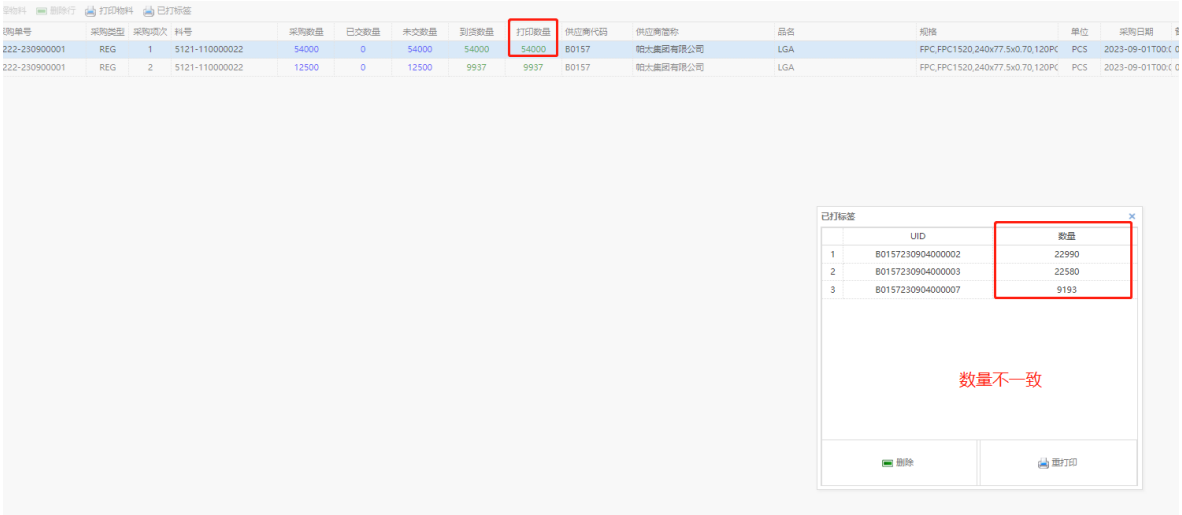
```
-- 扩展同类型问题处理方式
--a.单条码跳站
create PROCEDURE [dbo].[jump_js]
  @sn_id AS varchar(200) ,
    @route_step_name AS varchar(200)
```

```
    @route_step_name AS varchar(200)
AS
BEGIN
    declare @temp_sn varchar(100)
    declare @route_step_id varchar(100)
    select @temp_sn = serial_number from [Udit.sfc].dbo.QS_SERIAL_NUMBERS
(nolock)
    where serial_number_id=@sn_id
    select @route_step_id =route_step_id from [Udit.sfc].dbo.qs_route_ste
ps(nolock) where [name]=@route_step_name
 if @temp_sn is null
    begin
        select @temp_sn+'条码不存在！' msg
    end
 else if @route_step_id is null
     begin
            select @route_step_name+'工序不存在！' msg
        end
 else
        BEGIN
         begin  Try
             begin  TransAction

             update [Udit.sfc].dbo.QS_SERIAL_NUMBERS set next_step_id = @
route_step_id where serial_number = @temp_sn

             -- 提交
             commit TransAction
             select @temp_sn +'跳站成功！下一站'+@route_step_name msg
         end try
         begin catch
         -- 出错回滚
            Rollback TransAction
            select '跳站失败！' msg

         end catch
    END

END
--b.其他跳站，按工单跳站暂时不支持，一般没这种业务需求
ALTER PROCEDURE [dbo].[mix_jump_js]
  @sn AS varchar(200) ,
    @type as int, -- 1 单条码 2 拼版 3 箱号 4 工单
    @route_step_name AS varchar(200)
AS
BEGIN
    declare @temp_sn_id varchar(100)
```

```
    declare @route_step_id varchar(100)
    declare @tep_parent_id varchar(100)
    declare @tep_sn varchar(100)
    declare @tep_box varchar(100)
    declare @tmp_lot varchar(100)
    if @type=1
        begin
        select @temp_sn_id = serial_number_id from [Udit.sfc].dbo.QS_SERI
AL_NUMBERS (nolock)
            where serial_number=@sn
        if @temp_sn_id is null
            begin
                select @sn+'条码不存在！' msg
            end
        exec jump_js @temp_sn_id,@route_step_name
        end
    if @type=2 -- 拼版
        begin
            select @temp_sn_id = serial_number_id from [Udit.sfc].dbo.QS_
SERIAL_NUMBERS (nolock)
            where serial_number=@sn
            if @temp_sn_id is null
                begin
                    select @sn+'条码不存在！' msg
                end
            else
                begin
                    select @tep_parent_id = ParentItemInventoryID from
 [Udit.sfc].dbo.DW_PanelLinks (nolock)
                    where ChildItemInventoryID = @temp_sn_id
                    if  @tep_parent_id is null
                        begin
                        select '找不到母版，无拼版关系！' msg
                        end
                    else
                        begin
                        declare @wiplist table
                         (
                            serial_number_id nvarchar(150)
                         )
                        insert  @wiplist select ChildItemInventoryID from
[Udit.sfc].dbo.DW_PanelLinks (nolock) where ParentItemInventoryID=@tep_pa
rent_id
                        insert  @wiplist select @tep_parent_id

                        while(exists(select top 1 1 from @wiplist))
```

```
                                begin
                                 select top 1 @tep_sn=serial_number_id from @
wiplist
                                    exec jump_js @tep_sn,@route_step_name
                                    delete from @wiplist where serial_number_
id=@tep_sn
                                end

                            end

                    end
            end
        if @type=3 --箱号
            begin
                select top 1 @tep_box = box_number from ct_box_items (nolock)
where  box_number=@sn  --此时sn为箱号
                if @tep_box is null
                    begin
                        select @sn+'找不到箱号！' msg
                    end
                else
                    begin
                        declare @box_items table
                            (
                                serial_number_id nvarchar(150)
                            )
                            insert  @box_items select s.serial_number_id from
ct_box_items (nolock) b
                                    left join qs_serial_numbers (nolock) s on
s.serial_number=b.serial_number where b.box_number=@tep_box


                            while(exists(select top 1 1 from @box_items))
                                begin
                                 select top 1 @tep_sn=serial_number_id from @
box_items
                                    exec jump_js @tep_sn,@route_step_name
                                    delete from @box_items where serial_numbe
r_id=@tep_sn
                                end

                    end
            end


END
```

~~# 2.凯尔收料打印数量实际数量和打印数量不一致问题,目前已修复~~




```
select *from mms_receivereels where billno='RN2309040004'
select *from mms_receivedetail where billno='RN2309040004'
--根据实际数量修改mms_receivedetail 某一个项次的 Print_Qty
```

3.数据库数据条码或者编码存在空格的问题

```
-- 看客户输入编码和数据库实际是否存在空格差异
-- 例如
select *from QS_ASSEMBLY where ASSEMBLY_SN=@sn
```

4.各种列名不存在，对象名不存在

根据下列查询结果看具体是哪个表

```
select a.name 表名 ,b.name 列名
from sys.columns b,sys.objects a
where object_name(b.object_id)=a.name
and b.name='Enabled'
```

5.更新注意，先在测试环境进行，测试通过再到正式环境

```
a.先比较文件时间大小，防止差异过大导致影响其他功能
b.备份需更新的文件，建文件夹，以日期命名，方便还原时用
```

6.博凯悦和丰诺产品已过站未分板问题处理方式

```
1.获取母版条码id
select ParentItemInventoryID from DW_PanelLinks where ChildItemInventoryI
D=@SERIAL_NUMBER_ID
2.获取子母版条码
select MODEL_NO 产品,LOT_NAME 工单,SERIAL_NUMBER 条码 from [Udit.SFC].[db
o].QS_SERIAL_NUMBERS （nolock）
where SERIAL_NUMBER_ID in(SELECT ChildItemInventoryID FROM DW_PanelLinkHi
stories where ParentItemInventoryID=@ParentItemInventoryID)
or SERIAL_NUMBER_ID in (ParentItemInventoryID)
3.将这些条码一起更新NEXT_STEP_ID ,如果完工还需更新serial_number_states 为 0
```

解除拼版关系存储， 输入任意一个子板条码即可

```
 create PROCEDURE [dbo].[Unlinks]
  @sn AS varchar(100)
AS
BEGIN
    -- routine body goes here, e.g.
    -- SELECT 'Navicat for SQL Server'
    declare @temp_sn_id varchar(100)
    declare @tep_parent_id varchar(100)
    select @temp_sn_id = serial_number_id from [Udit.sfc].dbo.QS_SERIAL_N
UMBERS (nolock)
    where serial_number=@sn
 if @temp_sn_id is null
    begin
        select '条码不存在！' msg
    end
 else
  begin
        select @tep_parent_id = ParentItemInventoryID from  [Udit.sfc].db
o.DW_PanelLinks (nolock)
```

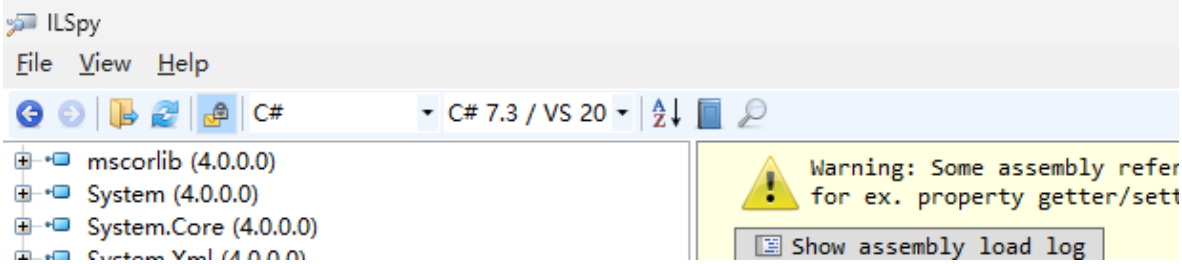
```
        where ChildItemInventoryID = @temp_sn_id
        if  @tep_parent_id is null

            begin
            select '找不到母版，无需分板！' msg
            end
        else
        BEGIN
         begin  Try
             begin  TransAction

             -- 更新新serial_numbers panel_inde 为0
             update [Udit.sfc].dbo.QS_SERIAL_NUMBERS
             set panel_index = 0
             where serial_number_id in(select ChildItemInventoryID from
 [Udit.sfc].dbo.DW_PanelLinks (nolock)
                                                                    w
here ParentItemInventoryID = @tep_parent_id
                                                                  )
             -- 更新拼版模板状态为分板serial_number_state 为3
             update [Udit.sfc].dbo.QS_SERIAL_NUMBERS
             set serial_number_state = 3
             where serial_number_id  = @tep_parent_id


             -- 插入拼版记录到历史表
             INSERT INTO [dbo].[DW_PanelLinkHistories]([ID], [DateAdded_B
aseDateTimeUTC],
             [DateRemoved_BaseDateTimeUTC], [PositionX],[PositionY],[Posi
tionZ],
             [Operator],  [ProductRouteTransactionID], [ParentItemInvento
ryID],
             [ChildItemInventoryID],  [PanelIndex])

             select newid(),DateAdded_DateTime,
             getdate(),[PositionX],[PositionY],[PositionZ],
             'admin',ProductRouteTransactionID,[ParentItemInventoryID],
             [ChildItemInventoryID],[PanelIndex]
             from [Udit.sfc].dbo.DW_PanelLinks (nolock) where ParentItemI
nventoryID= @tep_parent_id

             -- 删除拼版关系
             delete [Udit.sfc].dbo.DW_PanelLinks where ParentItemInventor
yID= @tep_parent_id

             -- 提交
             commit TransAction
```

```
            select '解除拼版关系成功！' msg
        end try
        begin catch
        -- 出错回滚
           Rollback TransAction
           select '解除拼版关系失败！' msg

        end catch
    END
    end
END
```

7.某应用报错找问题步骤

1.找到界面，打开f12，重复一遍报错操作，查看网页里的请求，找到报错的请求和传参，检查数据是够异常，如果不能解决，提需求找开发处理

反编译工具



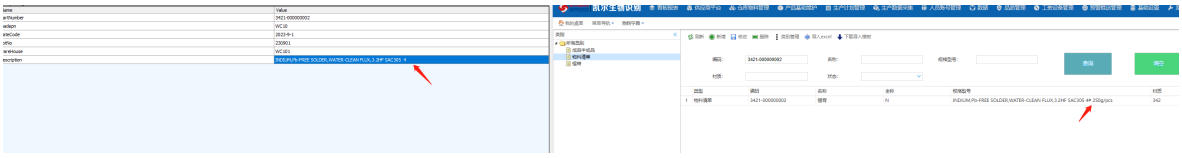
8.乐苏修改pass数量步骤

```
--查询本工单本工序产出的条码
select * from QS_INJECTION_MOULD where lotNo='GD2023020519539'
and stepId='2b53751f-2b6d-42f2-8783-c19fd0efb1a3'
and type = 1

--查询工序id
SELECT * FROM [Udit.SFC].[dbo].[QS_ROUTE_STEPS] where name='包装全检'

--需要手动插入一条记录(数量为少的数量)
insert into [Udit.SFC].[dbo].[QS_INJECTION_MOULD]
SELECT newid() [id]
      ,[lotNo]
      ,'B23020701174'[serialNumber]
```

```
      ,[stepId]
      ,[type]
      ,[createDate]
      ,[createUser]
      ,[equipment]
      ,[stationId]
      ,'3612'[qty]
  FROM [Udit.SFC].[dbo].[QS_INJECTION_MOULD]
  where id='9722a749-d9ee-422e-bd36-19fde5b61ef4'

--查询综合wip
select top 10 * from CT_LotRouteStatus where Lot_Name='GD2023031422436'
and Route_Step_Name='包装全检'
```

~~# 9.凯尔特殊字符截断请求~~ 已修复

```
修改物料描述即可解决
或者请求里面不解析特殊字符encodeURIComponent(description)
```



10.芒果db删条码

```
查条码
db.QS_SERIAL_NUMBERS.find({SERIAL_NUMBER:{$in:[
    "CN0GVWW7SQC0034E1104A00"
]}});
删条码
db.QS_SERIAL_NUMBERS.remove({SERIAL_NUMBER:"CN0GVWW7SQC0034E1104A00"}, {j
ustOne: true})
```

11.Pda升级方式(没源码，无需重新编译的情况)

```
1.到客户那里拿升级包，[dreamwaylink.wgt]文件
2.改后缀为.zip ，解压缩到本地
3.用Hbuilder x 打开，点击运行，在自己电脑跑起来
```

4.更改完成后，更改**manifest.**json文件的版本号，两处均要修改

5.然后再次压缩，更改文件名为[dreamwaylink.wgt]
6.先到客户备份原升级包，文件夹名为当天日期【2023**xxxx**】，然后将改好的文件更新到客户服务器**version**目录下，更改**version.**txt为最新版本号

12.博源特殊标签取值

```
  create PROCEDURE [dbo].[n-box]
  @start AS int ,
  @end_num AS int ,
    @box varchar(50)
AS
BEGIN
    --取箱号里的1-n个条码，并排序
    SELECT SN ,MAC,SEQ FROM (
    select s.serial_number SN,Q.ASSEMBLY_SN MAC,row_number() over(order b
y B.serial_number) SEQ from qs_serial_numberS(nolock) s
    left join ct_box_items b on s.serial_number=b.serial_number
    left join QS_ASSEMBLY q on s.serial_number=q.serial_number
    where
    B.box_number=@box
    )A
    WHERE
      SEQ >= @start and SEQ <= @end_num
 ORDER BY SEQ

    -- SELECT 'Navicat for SQL Server'
END
```

13.海业特殊标签取值

```
--序号
create PROCEDURE [dbo].[carton_index]
  @box AS varchar(50)
AS
BEGIN
SELECT right('000'+convert(varchar,A1.SEQ),3) SEQ,
A1.BOX_NUMBER,
right('000'+convert(varchar,ceiling(cast(L.QUANTITY as float)/A1.box_siz
e)),3) QUANTITY
    FROM
    qs_lots L ,
(
    SELECT row_number() over(order by A1.box_number) SEQ,BOX_NUMBER,LOT_N
AME,box_size
    FROM CT_BOXS A1
    WHERE LOT_NAME=(SELECT  lot_name from ct_boxs where box_number=@box )
```

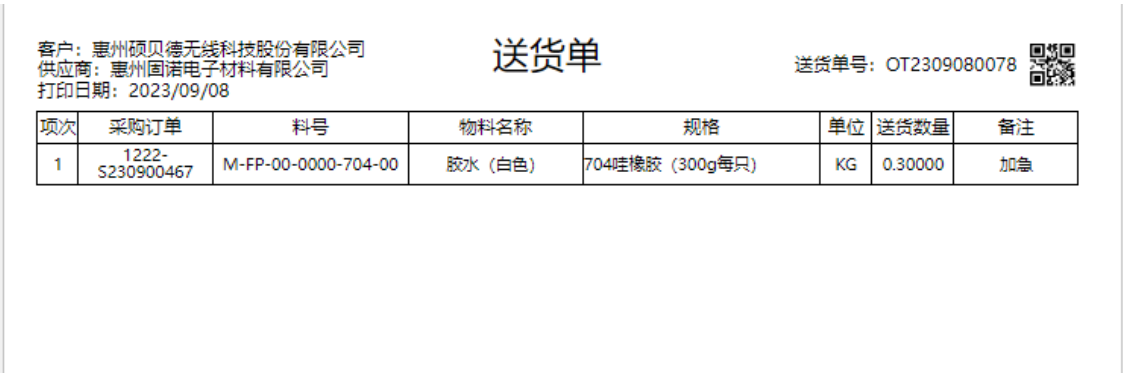
```
    )A1
    where A1.box_number=@box
    AND L.LOT_NAME=A1.LOT_NAME
    -- SELECT 'Navicat for SQL Server'
END
```

14.丰诺郭工uid数据

```
select CONVERT(varchar,a.REEL_BARCODE) '条码', a.MATERIAL_NO
 ,'状态'= case  when a.status='0' then '未上架' else '已上架' end
,a.QUANTITY 现有数量,a.InitialQuantity 初始数量, a.WAREHOUSE,a.AREA,a.LOT_N
O,a.DATECODE,a.CREATE_TIME,a.CREATE_DATECODE
,a.DESCRIPTION '描述',a.SPECIFICATION '规格'
,b.Quality_Days '保质期天数'
, '过期剩余' =DATEDIFF(day,getdate(), a.ExpirationDate)
,a.ExpirationDate '过期时间'
from mms_reels a
left join mms_material b on a.MATERIAL_NO=b.MaterialCode

where
b.MaterialType <>'3962cea0-9ac5-484c-af1a-098c20b54287'
and (status=1 or status=0)
order by 状态
```

15.硕贝德标签问题

Content/business/Content/dobusiness/templete/NewOutStock.mrt
Content/business/Content/dobusiness/templete/OutStock.mrt
修改字段模板中变量类型
智联的模板目前是outStock.mrt
代码里面写的如果客户是SPEED,则调用outStock.mrt
天线没更新后端，调用的是NewOutStock.mrt



客户：惠州硕贝德无线科技股份有限公司
供应商：惠州国诺电子材料有限公司
打印日期：2023/09/08

送货单

送货单号：OT2309080078

项次	采购订单	料号	物料名称	规格	单位	送货数量	备注
1	1222-S230900467	M-FP-00-0000-704-00	胶水（白色）	704哇橡胶（300g每只）	KG	0.30000	加急

16.凯尔扣料记录查询

```
select a.[Identifier] PCBSN条码,a.WorkOrder,b.uid,c.lot_no ,c.MATERIAL_NO
 物料编码
FROM [Udit.CHC].[dbo].[ItemTraceHistories](nolock) a    left  join [Udit.
CHC].[dbo].[ItemTraceData](nolock) b on b.[Guid]=a.[PCheckingProductUID]
left join [Udit.Mms].[dbo].[mms_REELS](nolock) c on c.[REEL_BARCODE]= b.
[UID]
where
a.Identifier in(
select serial_number from [Udit.SFC].dbo.ct_box_items where box_number in
(select serial_number from [Udit.SFC].dbo.ct_box_items where box_number
='C9200-585002102%230906000678')

)
```

特殊字符前端拦截问题处理

```
ValidateRequest="false"
```

硕贝德同步数据异常处理

```
有wip_id 没有neweid 的是未同步的数据
    select s.lot_name ,s.SERIAL_NUMBER ,m.NeweID,t.WIP_ID ,r.name , m.key
name ,m.value ,

  (case q.WIP_STATE when 0 then 'PASS' else 'Fail'end) WIP_STATE  from
    [Udit.SFC].dbo.qs_serial_numbers(nolock) s
    left join   [testdata].[dbo].testdataMainnew_asyn(nolock) t on s.SERI
AL_NUMBER_ID=t.SERIAL_NUMBER_ID
  left join [testdata].[dbo].[testdataFrom](nolock) m on t.NeweID=m.NeweI
D
  left join [Udit.SFC].dbo.[QS_WIP](nolock) q on q.WIP_ID=t.WIP_ID
    left join [Udit.SFC].dbo.QS_ROUTE_STEPS(nolock)  r on q.ROUTE_STEP_id
=r.ROUTE_STEP_ID
    where r.name='成品组装-性能测试'
    and q.MODEL_NO in('F-0L-80-0020-000-K0',
                        'F-0L-80-0029-000-K0',
                        'F-0L-80-0031-000-K0' ,
                        'F-0L-80-0024-000-K0'
```

```
    )
    --and q.lot_name='1312-Z240101212'
    and m.NeweID is null
    1.查询结果保留 wip_id  删除[testdataMainnew_asyn] 对应的wip_id 数据
    2.芒果Db删除
    批量修改
db.testdata.updateMany({wipID:{$in:[
 '21406ce2-8b9b-4898-a1c6-122f24d98f2e',
'bde0df66-c1fd-4b3b-a99f-f8f1d7954dc2',
'3bd236ed-15cc-48fa-83e4-5790626ef0ff',
'398c239f-5ee8-433c-9f98-830c8c40d995'
]}},{
    "$set":{
        "state":0
    }
},{"multi":true})
```

```
select * from Tooling_ResourceControl where code in('GD-300','GD-350','GD
-250')
select * from mms_Expansion where pid='77215bd6-2977-4abf-92f8-5e6ec4d432
80' and ftype='周期初始化次数'
```

附件

- 新建 文本文档 (3).txt
- ILSpy_反编译工具.zip

前端

```
// 计算百分比
var pre=(a,b)=>{return (a/b*100).toFixed(2)+'%' }
```

```
var isFloat = false;
var arr=['CM2','G','KG','L','M','M2','ML','MM'];
isFloat = arr.includes(返回的物料单位);
```

```
  var state = true;
    var count=0;
    var count2=0;
    for(var k =0; k < selelist.length; k++ ){
       var contA=selelist[k].MaterialCode.indexOf("A");
console.log(contA);
          if(contA!=-1){
           count=count+1;
          }
          var countB=selelist[k].MaterialCode.indexOf("B");
           if(countB!=-1){count2=count2+1;}
    }
    if(count!=selelist.length&count2!=selelist.length){state = false;}
```

```
-- 截取@u后面的字符  特殊格式二维码，@u后面是uid
let pn=(a)=>{ if(a.indexOf("@U")!=-1){ return a.slice(a.indexOf("@U")+2)}
else{return a}}
```

```
let pnuid=(a)=>{if(a.split('@').length==7){return a.slice(0,(a.indexOf(
'@'))); }else{return a;} }
```

```
var relationObj={
 "ALL" :"全部" ,
 "delivery" :"送货单",
 "receive" :"收料单" ,
 "material_instock" :"入库单" ,
 "warehouse_return" :"仓退单" ,
 "pick" :"发料单" ,
 "production_return_intosetof" :"生产退料单" ,
 "transfer" :"调拨单" ,
```

```
 "material_pandian" :"盘点单" ,
 "googs_instock" :"完工入库单" ,
 "shipment" :"出货单" ,
 "sale_return" :"销售退货单" ,
 "Lend_out" :"借出单" ,
 "Borrow" :"借入单" ,
 "Lend_and_return" :"借出归还单" ,
 "Borrow_and_return" :"借入归还单" ,
 "outsourced_return" :"委外退货单" ,
 "scrap_reveive_other" :"报废单" ,
 "GetMateOut" :"零星物料领用作业" ,
 "GetMateba" :"内部物料退库作业" ,
 "GetMkorba" :"托工物料重工作业" ,
 "GetBaord" :"订单退货处理作业"

}
let re_value=(name)=>{return relationObj[name];}
```

```
encodeURIComponent(newsernumber)
```

接口过站

1.绑定过站示例

`http://124.71.33.56/wip/Complete2`


```
{
    "lotName":"15111-22021208001",
    "inputSerials":[{"boxNumber":"","boxWeight":0,"weight":0,"assemblys":[{"key":"音乐卡","value":"07000299"},{"key":"数据线绑定","value":"HAWEI10011"},{"key":"三卡绑定","value":"07000298"}],"serialNmuber":"202212090006","labelAttr":"[]","quantity":0,"parentSerialNumber":"","planBillId":"","index":0,"isX":false,"wipID":"","defects":[]}],
    "station_name":"w-三卡",
    "userID":"wsj",
    "stepName":"w-三卡",
    "stime":"",
    "etime":"",
    "SCAN_TYPE":"0"
}
```


2.装箱接口示例

`http://124.71.33.56/BOX/executeBoxing?`


```
{
    "boxNumber":"tw20230820",
    "boxType":"1级",
    "boxSize":"3",
    "userID":"wsj",
    "lotName":"15111-22021208001",
    "stationName":"w-包装",
    "stepName":"w-包装",
    "serialNumber":"202212090006",
    "SCAN_TYPE":"0"
}
```


3.装箱过站接口示例

`http://124.71.33.56/wip/Complete2`


```
{
    "lotName":"15111-22021208001",
    "inputSerials":[{"boxNumber":"tw20230819","boxWeight":130,"weight":0,
"assemblys":[],"serialNmuber":"202212090006","labelAttr":"[]","quantity":
0,"parentSerialNumber":"","planBillId":"","index":0,"isX":false,"wipID":
"","defects":[]}],
    "station_name":"w-包装",
    "userID":"wsj",
    "stepName":"w-包装",
    "stime":"",
    "etime":"",
    "SCAN_TYPE":"0"



}
```


4.测试数据请求

`http://124.71.33.56/wip/Complete2`


```
{"SCAN_TYPE":99,
"inputSerials":[{"SerialNmuber":"WT0009","defects":[],"index":4,"isX":fal
se,"testdatas":[{"key":"Pad_4_0","value":"Height175.76,Area123.38%,Volume
144.57%,ShiftX80.60,ShiftY182.03"},{"key":"Pad_5_0","value":"Height175.0
0,Area122.74%,Volume143.20%,ShiftX-93.45,ShiftY126.74"},{"key":"Pad_3_0",
"value":"Height183.16,Area123.70%,Volume151.05%,ShiftX65.93,ShiftY249.51"
},{"key":"Pad_9_0","value":"Height175.21,Area123.81%,Volume144.62%,ShiftX
-121.89,ShiftY-174.48"},{"key":"Pad_2_0","value":"Height160.20,Area111.4
7%,Volume119.05%,ShiftX127.69,ShiftY-14.34"},{"key":"Pad_1_0","value":"He
ight168.97,Area110.27%,Volume124.22%,ShiftX115.28,ShiftY-52.27"},{"key":
"Pad_1_0~4","value":"Height155.35,Area110.22%,Volume114.15%,ShiftX29.01,S
hiftY137.99"},{"key":"Pad_2_0~4","value":"Height173.06,Area106.78%,Volume
123.20%,ShiftX-118.40,ShiftY127.21"},{"key":"Pad_1_0~5","value":"Height16
2.09,Area108.94%,Volume117.72%,ShiftX-110.54,ShiftY125.25"}]}],
"lotName":"15111-22021208001",
"station_name":"w-测试",
"stepName":"w-测试",
"userID":"wsj"
}
```

5.不良数据请求

`http://124.71.33.56/wip/Complete2`

```
{
    "lotName":"15111-22110001",
    "inputSerials":[{"boxNumber":"","boxWeight":"","weight":0,"assemblys"
:[],"serialNmuber":"584988498","labelAttr":"[]","quantity":0,"parentSeria
lNumber":"","planBillId":"","index":0,"isX":false,"wipID":"",
"defects":[
{
"defectType":"SMT",
"defectCode":"缺件",
"defectLocation":""
}
]
}],
    "station_name":"w-测试",
    "userID":"wsj",
    "stepName":"w-测试",
    "stime":"",
    "etime":"",
    "SCAN_TYPE":"0"
}
```

6.苏州凯尔sip8050双面板启用拼版模式绑定示例

```
业务场景，双面贴码（客户要求两面不同码），第一面过站到前几道工序，后面工序翻面标签到底部，扫描反面条码
"parentSerialNumber":"20230228004  为第一面条码
"value": "test20230830005" 为第二面条码
mes逻辑检查某绑定条码数量是否为1，如果多个绑定此码，则不去找主码
此处只能绑定一个子板的，否则后面工序无法过站
```

```
{"lotName": "20230829002",
"inputSerials":
[{"boxNumber":"","boxWeight":0,"weight":0,"serialNmuber":"","assemblys":
[{
          "key": "绑定T面",
          "value": "test20230830005"
```

```
        }],"labelAttr":"[]","quantity":1,"parentSerialNumber":"2023022800
4",
"planBillId":"","index":1,"isX":false,"wipID":"","defects":[]},{"boxNumbe
r":"","boxWeight":0,"weight":0,"serialNmuber":"","assemblys":[],"labelAtt
r":"[]","quantity":1,"parentSerialNumber":"20230228004",
"planBillId":"","index":2,"isX":false,"wipID":"","defects":[]},{"boxNumbe
r":"","boxWeight":0,"weight":0,"serialNmuber":"","assemblys":[],"labelAtt
r":"[]","quantity":1,"parentSerialNumber":"20230228004",
"planBillId":"","index":3,"isX":false,"wipID":"","defects":[]},{"boxNumbe
r":"","boxWeight":0,"weight":0,"serialNmuber":"","assemblys":[],"labelAtt
r":"[]","quantity":1,"parentSerialNumber":"20230228004",
"planBillId":"","index":4,"isX":false,"wipID":"","defects":[]}],
"stime": "",
"etime": "",
"station_name":"SMT-2line-1轨-投板",
"stepName": "投板",
"userID": "A0239",
"SCAN_TYPE": 99
}
```


7.不良录入需要传入具体的子板条码，可根据下述接口得到

http://192.168.135.211:8050/Content/datasearch/query_KERR.aspx?Oper=list&text=test20240705001&page=1&rows=60

参数text 为母版码
返回数据如下： serial_number 为子板条码


```
{"total":0,"rows":[{"serial_number":"20240705001","serial_number_id":"e59
d9c6b-dc75-4ec6-a8bc-bcf7cbec0399","pb":"母板","PANEL_INDEX":0},
{"serial_number":"1c248aec-5a77-4709-9691-6b866f329ce3","serial_number_i
d":"3b6ba5e5-b9ad-4bd7-b76d-f5219839c5f7","pb":"子板","PANEL_INDEX":1},
{"serial_number":"a5948367-8c6d-4a38-a044-ceec63c1ce91","serial_number_i
d":"911c4b21-27ef-49c4-ba32-c435324531d2","pb":"子板","PANEL_INDEX":2},
{"serial_number":"a63e0f4f-1768-43be-b8cb-e3e305981ad7","serial_number_i
d":"dcc401e6-4060-4ed9-8024-d85a5d3a2fe3","pb":"子板","PANEL_INDEX":3},
{"serial_number":"f2991f66-4fa7-4fe3-9fa9-3e4d9244aa7b","serial_number_i
d":"25def6e4-17d7-42ce-9290-a7e76e9f3eab","pb":"子板","PANEL_INDEX":4}]}
```


8.不良录入 实例

拼版记录不良需要传serialNmuber才会有不良记录

接口地址 http://192.168.135.211:8050/wip/Complete2 提交示范：


```
{"lotName": "20230829002",
"inputSerials":
[{"boxNumber":"","boxWeight":0,"weight":0,"serialNmuber":"1c248aec-5a77-4
709-9691-6b866f329ce3","assemblys":[],"labelAttr":"[]","quantity":1,"pare
ntSerialNumber":"20240705001",
"planBillId":"","index":1,"isX":false,"wipID":"","defects":[{
        "defectCode": "ERC26_AOI",
        "defectLocation": "X01",
        "defectPartNumber": "5811-202000001",
        "defectType": "少锡"
    }]},{"boxNumber":"","boxWeight":0,"weight":0,"serialNmuber":"","assem
blys":[],"labelAttr":"[]","quantity":1,"parentSerialNumber":"20240705001"
,
"planBillId":"","index":2,"isX":false,"wipID":"","defects":[]},{"boxNumbe
r":"","boxWeight":0,"weight":0,"serialNmuber":"","assemblys":[],"labelAtt
r":"[]","quantity":1,"parentSerialNumber":"20240705001",
"planBillId":"","index":3,"isX":false,"wipID":"","defects":[]},{"boxNumbe
r":"","boxWeight":0,"weight":0,"serialNmuber":"","assemblys":[],"labelAtt
r":"[]","quantity":1,"parentSerialNumber":"20240705001",
"planBillId":"","index":4,"isX":false,"wipID":"","defects":[]}],
"stime": "",
"etime": "",
"station_name":"SMT-2line-2轨-SPI",
"stepName": "BOT-SPI",
"userID": "A0239",
"SCAN_TYPE": 99
}
```

售后交付清单

项目范围说明书★
《项目合同》★
《项目组织结构》★
《项目成员联系方式》★
《项目启动报告》★
《详细需求清单》SOW★
软件客制化开发计划★
项目管理主计划★
项目计划变更单★
系统试运行报告★
培训通知、培训报名表、培训签到表、培训计划/讲义、培训工作总结★
问题跟踪表★
需求变更跟踪表★
会议签到表、会议纪要★
遗留问题双方确认单★
项目验收总结报告★
系统功能变更单★
会议，培训签到表★
远程连接方式★

测试跳转

Array

arrayMax arrayMin chunk compact countOccurrences deepFlatten difference distinctValuesOfArray dropElements everyNth filterNonUnique flatten flattenDepth groupBy head initial initializeArrayWithRange initializeArrayWithValues intersection last mapObject nthElement pick pull remove sample shuffle similarity symmetricDifference tail take takeRight union without zip

Browser

bottomVisible currentURL elementIsVisibleInViewport getScrollPosition getURLParameters redirect scrollToTop

Date

getDaysDiffBetweenDates JSONToDate toEnglishDate

Function

chainAsync compose curry functionName pipe promisify runPromisesInSeries sleep

Math

arrayAverage arraySum collatz digitize distance factorial fibonacci gcd hammingDistance isDivisible isEven lcm median palindrome percentile powerset randomIntegerInRange randomNumberInRange round standardDeviation

Media

speechSynthesis

Node

JSONToFile readFileLines

Object

cleanObj objectFromPairs objectToPairs shallowClone truthCheckCollection

String

自定义报表操作

JSON下拉框

json$[{“id”:”1”,”text”:”11”},{“id”:”2”,”text”:”22”}]

@参数名称	参数类型	控件类型	显示名称	*号必填	默认值	COMBO绑定$
@lot_name	varchar	textbox	工单编码			
333	444	combobox	eee			json$[{"id":"","text":""},{"id":"0","text":"A"},{"id":"1","text":"B"}]

SQL下拉框

sql$select ‘%’ id,’全部’ text union all select ParametricCode id,Name text from [SolderPasteControl] a join ParametricCodeInfo b on a.CurrentWorkStation=b.ParametricCode GROUP BY ParametricCode,Name
这里sql语句一定要定义ID和text，示例：【sql$select NAME id, NAME text from 表名】

COMBO绑定$
sql$select '%' id,'全部' text union all select ParametricCode id,Name text from [SolderPasteControl] a join ParametricCodeInfo b on a.CurrentWorkStation=b.ParametricCode G

通过子报表功能绑定下级报表

两个参数控制 1.子报表id 2.参数赋值传值给子报表

参数设置 子报表设置 系统参数

添加 删除

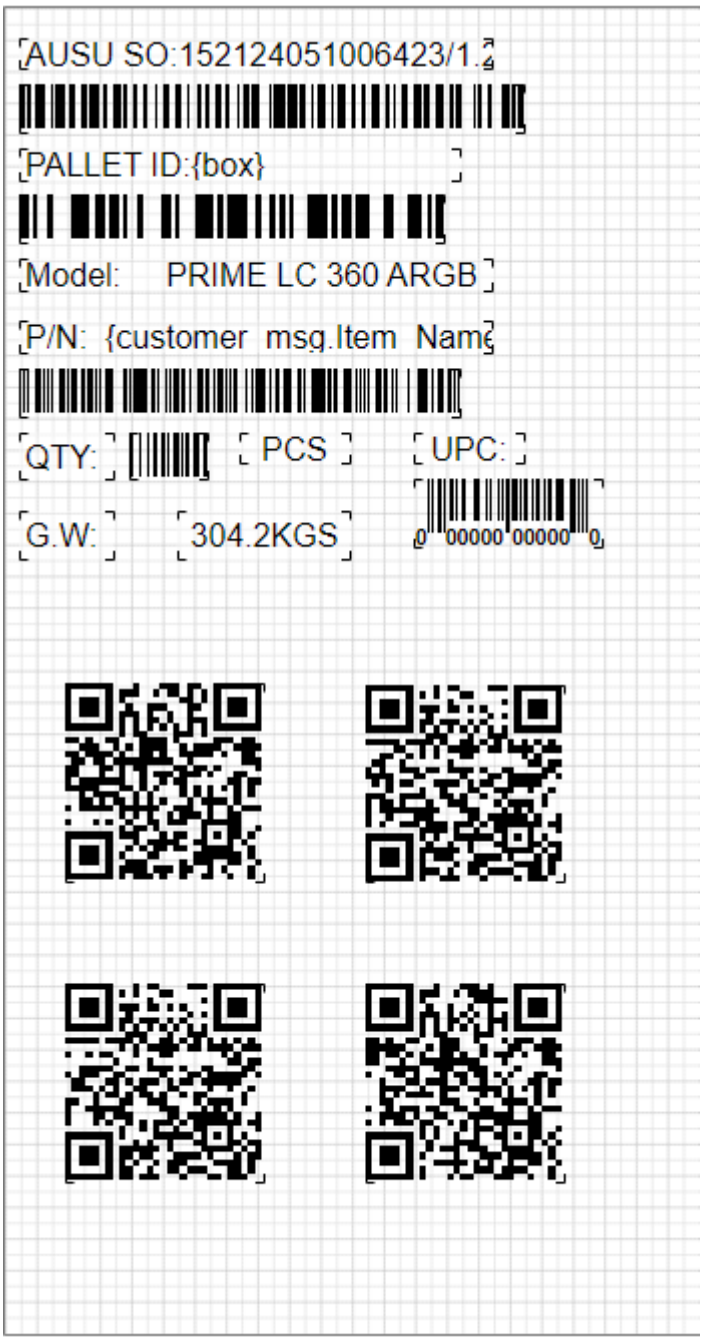
	列名	创建类型	显示	默认宽度	列内容位置	子报表ID	绑定参数
1	ID	存在列	☐	0			
2	pojectcode	存在列	☑	50		f847ae61-5ce6-ee19-1746-8cc22440f401	@aaaa=Name||@bbb=@1
3	Name	存在列	☑	0			
4	SQLvalue	存在列	☑	600			
5	CreateTime	存在列	☑	200			
6	CreateUser	存在列	☑	0			
7	Enable	存在列	☑	0			
8	connectionString	存在列	☑	0			

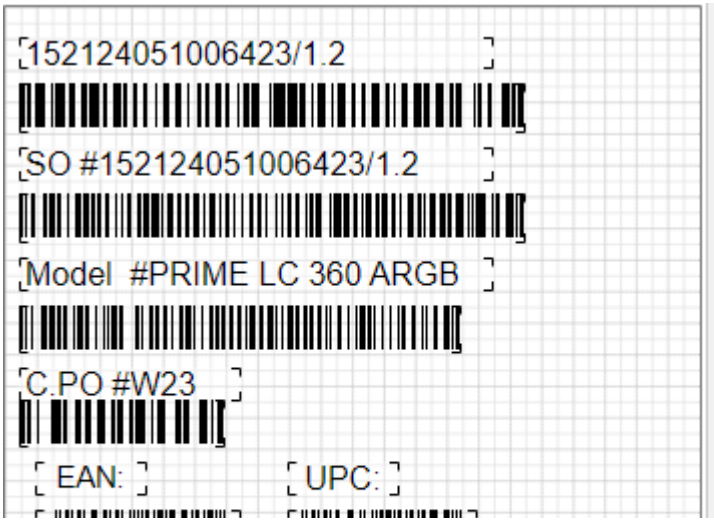
昂湃液冷

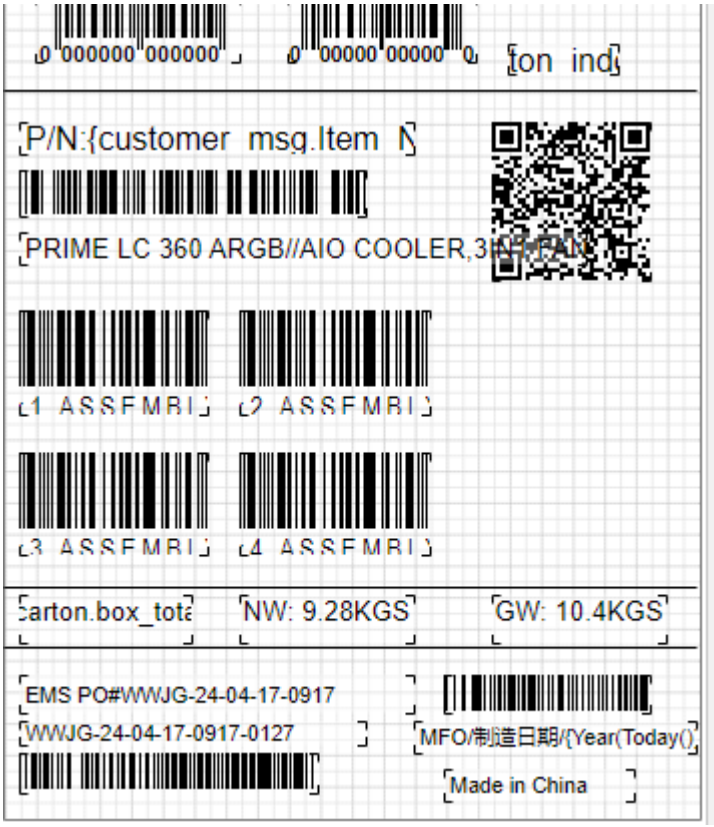
水排码标签

数据源

exec [Udit.Mms].[dbo].[AP_CREATE_CUSTOMER_SN] ‘{serial}’,’{stationid}’,’{userCode}’,’{stepid}’

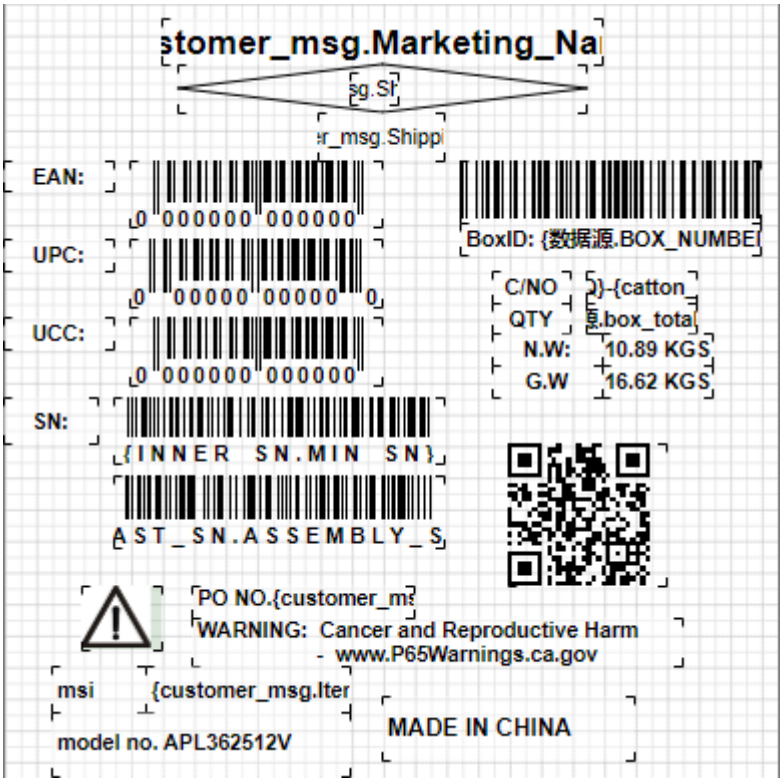

AUSU SO:152124051006423/1.2
PALLET ID:{box}
Model: PRIME LC 360 ARGB
P/N: {customer_msg.Item_Name}
QTY:
PCS
UPC:
G.W:
304.2KGS
0 00000 00000 0


152124051006423/1.2
SO #152124051006423/1.2
Model #PRIME LC 360 ARGB
C.PO #W23
EAN:
UPC:


000000 000000
00000 00000
P/N:{customer msg.Item
PRIME LC 360 ARGB//AIO COOLER,3IN1 FAN
1 ASSEMBL
2 ASSEMBL
3 ASSEMBL
4 ASSEMBL
NW: 9.28KGS
GW: 10.4KGS
EMS PO#WWJG-24-04-17-0917
WWJG-24-04-17-0917-0127
MFO/制造日期/{Year(Today()
Made in China

P/N:{customer_msg.Item_Name}
ENA
000000 000000
Serial Number: {数据源.ASSEMBLY_SN}
ENA
00000 00000
Check Number
数据源.CHK
Made in China

customer_msg.Marketing_Nam
S/N:{数据源.ASSEMBLY_SN}
{数据源.SupMaterialCo
model no. APL362512V
EAN:
0 000000 000000
JAN:
0 000000 000000
UPC:
0 00000 00000 0
UK
CA


stomer_msg.Marketing_Na
EAN:
0 000000 000000
UPC:
0 00000 00000 0
UCC:
0 000000 000000
SN:
{INNER SN.MIN SN}
AST_SN.ASSEMBLY_S
BoxID: {数据源.BOX_NUMBE
C/NO
QTY
N.W: 10.89 KGS
G.W 16.62 KGS
PO NO.{customer_ms
WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov
msi {customer_msg.Iter
model no. APL362512V
MADE IN CHINA

S/N:{数据源.ASSEMBLY_SN}
CW-9061018-WW
MADE IN CHINA
RMN:RWF0117
8 40006 68543 2
help: corsair.co

CORSAIR
UK CA
10
Corsair Components,Ltd.
1020Eskdale Road,Winnersh Triangle
Wokingham,RG41 5TS,UK
Corsair Memory,BV.
Wormerweg 8,1311 XB,Almere,Netherlan
M/N(型號/型号):RWF0117
Rating(電壓電流/电压电流)12~1.0A
MADE IN CHINA(中國製造/中国制造)
CAN ICE S(B)/NMB(B)
CW 9061016 WW
源.CUSTOMER

硬件设置

金珂华电子秤设置

金珂华 M 款天平隐藏参数设定操作说明

用户参数设定：

开机状态长按【置零】键液晶显示“USER-S”进入用户参数设定。
短按【单位】键切换 P1-P5 参数，短按【置零】键进入设置对应参数,液晶显示“SAVE”时短按【去皮】键确定用户参数保存退出。

P1-X:称重速度设定	X:1-3	1=快，2=中，3=慢　默认 2
P2-X:RS232 打印方式	X: 1-4	1：连续发送 2：按键发送 3:重量稳定发送一次（归零后才可以再次发送） 4: 重量稳定发送（稳定一次发送一次）默认 2
P3-X:RS232 通讯格式设定	X:1-9	9 种通讯格式　默认通讯方式 2
P4-X：背光设定	X:1-3	1：背光长灭 2：重量稳定 8 秒熄灭背光 3：背光常亮 默认 2 重量稳定后 8 秒熄灭背光

九种格式分别为：

1、=00000.0
等号分隔符正序
2、0.0
纯数字加回车
3、ST,GS,+　　0.0 g
4、+　　0.0　g
兼容 xiangping
5、0.00000=
等号分隔符反序
6、ST GS 000000.0 g
7、0.0
纯数字无回车
8、0039　　000　　000
连接银豹专用格式
9、000000
备用格式

SQL

查询返回当前配置的内存值和当前使用的值的相关信息

```
SELECT [name], [value], [value_in_use]

FROM sys.configurations

WHERE [name] = 'max server memory (MB)' OR [name] = 'min server memory (M
B)';

修改内存的大小
sp_configure 'show advanced options', 1;

RECONFIGURE;

sp_configure 'max server memory (MB)', 4096; -- 设置最大内存限制为4GB

RECONFIGURE;
```

启用对表的压缩

```
EXEC sp_estimate_data_compression_savings 'Production', 'TransactionHisto
ry', NULL, NULL, 'ROW';


ALTER TABLE Production.TransactionHistory REBUILD PARTITION = ALL

WITH (DATA_COMPRESSION = ROW);

GO
```

启用索引压缩

```
SELECT name, index_id

FROM sys.indexes

WHERE OBJECT_NAME (object_id) = N'TransactionHistory';


EXEC sp_estimate_data_compression_savings
```

```
    @schema_name = 'Production',

    @object_name = 'TransactionHistory',

    @index_id = 2,

    @partition_number = NULL,

    @data_compression = 'PAGE';


ALTER INDEX IX_TransactionHistory_ProductID ON Production.TransactionHist
ory REBUILD PARTITION = ALL WITH (DATA_COMPRESSION = PAGE);

GO
```

读取错误日志

```
EXEC sp_readerrorlog 0, 1, 'database', 'start'
```

限制错误日志大小

```
USE [master];

GO


EXEC xp_instance_regwrite N'HKEY_LOCAL_MACHINE',

    N'Software\Microsoft\MSSQLServer\MSSQLServer',

    N'ErrorLogSizeInKb', REG_DWORD, 5120;

GO

CHECKPOINT检查点
CHECKPOINT [ checkpoint_duration ]
```

查询是否有死锁

```
WITH    CTE_SID ( BSID, SID, sql_handle )

  AS ( SELECT   blocking_session_id ,

                        session_id ,
```

```
                        sql_handle

                FROM    sys.dm_exec_requests

                WHERE   blocking_session_id <> 0

                UNION ALL

                SELECT  A.blocking_session_id ,

                        A.session_id ,

                        A.sql_handle

                FROM    sys.dm_exec_requests A

                       JOIN CTE_SID B ON A.SESSION_ID = B.BSID

              )

    SELECT  C.BSID ,  C.SID , S.login_name , S.host_name , S.status ,S.cp
u_time ,

            S.memory_usage ,S.last_request_start_time , S.last_request_en
d_time ,S.logical_reads ,

            S.row_count ,

            q.text

    FROM    CTE_SID C

            JOIN sys.dm_exec_sessions S ON C.sid = s.session_id

            CROSS APPLY sys.dm_exec_sql_text(C.sql_handle) Q

ORDER BY sid
```

查看阻塞超时设置

`SELECT @@LOCK_TIMEOUT`

查看数据库的负载

```
SELECT substring (a.name,0,20) as [数据库名],

[连接数] = (SELECT COUNT(*) FROM master..sysprocesses b WHERE a.dbid = b.d
```

```
bid), [阻塞进程] = (SELECT COUNT(*)

FROM master..sysprocesses b

WHERE a.dbid = b.dbid AND blocked <> 0),

[总内存] = ISNULL((SELECT SUM(memusage) FROM master..sysprocesses b WHERE
 a.dbid = b.dbid),0),

[总IO] = ISNULL((SELECT SUM(physical_io) FROM master..sysprocesses b WHER
E a.dbid = b.dbid),0),

[总CPU] = ISNULL((SELECT SUM(cpu) FROM master..sysprocesses b

WHERE a.dbid = b.dbid),0), [总等待时间] = ISNULL((SELECT SUM(waittime)

FROM master..sysprocesses b

WHERE a.dbid = b.dbid),0) FROM master.dbo.sysdatabases a WITH (nolock)

WHERE  DatabasePropertyEx(a.name,'Status') = 'ONLINE'

ORDER BY [数据库名]
```

整理索引碎片

```
第一步：查询表的索引碎片情况

DBCC SHOWCONTIG WITH ALL_INDEXES；

第二步：删除并重建索引

第三步：使用DROP_EXISTING子句重建索引

第四步：执行DBCC DBREINDEX

第五步：执行DBCC INDEXDEFRAG


Select 'DBCC INDEXDEFRAG ('+DB_Name()+','+Object_Name(ID)+','+Cast(INDID
As Varchar)+')'+Char(10)

From SysIndexes

Where ID Not IN (Select ID From SYSObjects Where xType='S')
```

查询索引

```
SELECT CASE  WHEN t.[type] = 'U' THEN'表'

             WHEN t.[type] = 'V' THEN '视图'  END AS '类型',

       SCHEMA_NAME(t.schema_id) + '.' + t.[name] AS '(表/视图)名称',

       i.[name] AS 索引名称,

       SUBSTRING(column_names, 1, LEN(column_names) - 1) AS '列名',

       CASE WHEN i.[type] = 1 THEN '聚集索引'

            WHEN i.[type] = 2 THEN  '非聚集索引'

            WHEN i.[type] = 3 THEN  'XML索引'

           WHEN i.[type] = 4 THEN '空间索引'

           WHEN i.[type] = 5 THEN '聚簇列存储索引'

           WHEN i.[type] = 6 THEN '非聚集列存储索引'

       WHEN i.[type] = 7 THEN'非聚集哈希索引'

           END AS '索引类型',

      CASE  WHEN i.is_unique = 1 THEN'唯一' ELSE '不唯一' END AS '索引是否唯一'

FROM sys.objects t

    INNER JOIN sys.indexes i

        ON t.object_id = i.object_id

    CROSS APPLY

(

    SELECT col.[name] + ', '

    FROM sys.index_columns ic

        INNER JOIN sys.columns col
```

```
            ON ic.object_id = col.object_id

                AND ic.column_id = col.column_id

    WHERE ic.object_id = t.object_id

          AND ic.index_id = i.index_id

    ORDER BY col.column_id

    FOR XML PATH('')

) D(column_names)

WHERE t.is_ms_shipped <> 1

      AND index_id > 0

ORDER BY i.[name];
```

整理索引

```
select 'drop index ' + index_name + ' on ' + tab_name + ';' ,a.tab_name,
 a.index_Type,a.index_colum FROM (

SELECT CASE  WHEN t.[type] = 'U' THEN'表'

             WHEN t.[type] = 'V' THEN '视图'  END AS '类型',

       SCHEMA_NAME(t.schema_id) + '.' + t.[name] AS 'tab_name',

       i.[name] AS index_name,

       SUBSTRING(column_names, 1, LEN(column_names) - 1) AS 'index_colum'
,

       CASE WHEN i.[type] = 1 THEN '聚集索引'

            WHEN i.[type] = 2 THEN  '非聚集索引'

            WHEN i.[type] = 3 THEN  'XML索引'

           WHEN i.[type] = 4 THEN '空间索引'
```

```
            WHEN i.[type] = 5 THEN '聚簇列存储索引'

            WHEN i.[type] = 6 THEN '非聚集列存储索引'

        WHEN i.[type] = 7 THEN'非聚集哈希索引'

            END AS index_Type,

       CASE  WHEN i.is_unique = 1 THEN'唯一' ELSE '不唯一' END AS 'index_only'

FROM sys.objects t

    INNER JOIN sys.indexes i

        ON t.object_id = i.object_id

    CROSS APPLY

(

    SELECT col.[name] + ', '

    FROM sys.index_columns ic

        INNER JOIN sys.columns col

            ON ic.object_id = col.object_id

                AND ic.column_id = col.column_id

    WHERE ic.object_id = t.object_id

          AND ic.index_id = i.index_id

    ORDER BY col.column_id

    FOR XML PATH('')

) D(column_names)

WHERE t.is_ms_shipped <> 1

      AND index_id > 0

) a
```

```sql
where a.index_TYpe = '非聚集索引' and a.index_only = '不唯一';


select 'create index ' + 'idx_' + tab_name + '_' + a.index_colum + ' on '
+ tab_name + '('  + a.index_colum + ');',

       a.tab_name, a.index_Type,a.index_colum FROM (

SELECT CASE  WHEN t.[type] = 'U' THEN'表'

             WHEN t.[type] = 'V' THEN '视图'  END AS '类型',

       SCHEMA_NAME(t.schema_id) + '.' + t.[name] AS 'tab_name',

       i.[name] AS index_name,

       SUBSTRING(column_names, 1, LEN(column_names) - 1) AS 'index_colum'
,

       CASE WHEN i.[type] = 1 THEN '聚集索引'

            WHEN i.[type] = 2 THEN  '非聚集索引'

            WHEN i.[type] = 3 THEN  'XML索引'

           WHEN i.[type] = 4 THEN '空间索引'

           WHEN i.[type] = 5 THEN '聚簇列存储索引'

           WHEN i.[type] = 6 THEN '非聚集列存储索引'

       WHEN i.[type] = 7 THEN'非聚集哈希索引'

           END AS index_Type,

      CASE  WHEN i.is_unique = 1 THEN'唯一' ELSE '不唯一' END AS 'index_on
ly'

FROM sys.objects t

    INNER JOIN sys.indexes i

        ON t.object_id = i.object_id

    CROSS APPLY
```

```
(

    SELECT col.[name] + ', '

    FROM sys.index_columns ic

        INNER JOIN sys.columns col

           ON ic.object_id = col.object_id

               AND ic.column_id = col.column_id

    WHERE ic.object_id = t.object_id

          AND ic.index_id = i.index_id

    ORDER BY col.column_id

    FOR XML PATH('')

) D(column_names)

WHERE t.is_ms_shipped <> 1

      AND index_id > 0

) a

where a.index_TYpe = '非聚集索引' and index_only = '不唯一'
```

查看哪些表占用了比较大的磁盘空间

```
select o.name, SUM(p.reserved_page_count) as reserved_page_count,

               SUM(p.used_page_count) as used_page_count,

              SUM( case when(p.index_id<2) then (p.in_row_data_page_count
+ p.lob_used_page_count+p.row_overflow_used_page_count) else p.lob_used_p
age_count+p.row_overflow_used_page_count end ) as DataPages,

              SUM( case when (p.index_id<2) then row_count else 0 end ) a
s rowCounts

from sys.dm_db_partition_stats p
```

```
inner join sys.objects o on p.object_id=o.object_id group by o.name order
by rowCounts desc
```

查看表的占用情况

```
SELECT

name '表名',

convert (char(11), row_Count) as '数据条数',

(reservedpages * 8) '已用空间(KB)',

(pages * 8) '数据占用空间(KB)',

(CASE WHEN usedpages > pages THEN (usedpages - pages) ELSE 0 END) * 8 '索
引占用空间(KB)',

(CASE WHEN reservedpages > usedpages THEN (reservedpages - usedpages) ELS
E 0 END) * 8 '未用空间(KB)',

LTRIM (STR (reservedpages * 8/1024/1024, 15, 0) + ' GB') as '已用空间(GB)'

from(

SELECT name,

SUM (reserved_page_count) as reservedpages ,

SUM (used_page_count) as usedpages ,

SUM (

    CASE

        WHEN (index_id < 2) THEN (in_row_data_page_count + lob_used_page_
count + row_overflow_used_page_count)

        ELSE lob_used_page_count + row_overflow_used_page_count

    END

    ) as pages,
```

```sql
SUM (

    CASE

        WHEN (index_id < 2) THEN row_count

        ELSE 0

    END

    )  as row_Count

FROM sys.dm_db_partition_stats

inner join sys.objects on sys.dm_db_partition_stats.object_id=sys.object
s.object_id

where type='U'

group by sys.objects.name

union

SELECT sys.objects.name,

sum(reserved_page_count) as reservedpages,

sum(used_page_count) as usedpages,

0 as pages,

0 as row_count

from sys.objects inner join sys.internal_tables on

 sys.objects.object_id = sys.internal_tables.parent_id

inner join sys.dm_db_partition_stats on sys.dm_db_partition_stats.object_
id=sys.internal_tables.object_id

where sys.internal_tables.internal_type IN (202,204,211,212,213,214,215,2
16)

group by sys.objects.name) t

order by '已用空间(KB)' desc
```

查看物理读高的100条SQL

```
SELECT TOP 100

 a.session_id,a.client_net_address,

 qs.total_physical_reads,qs.execution_count,

 qs.total_physical_reads /qs.execution_count as avg_io,

 qt.text, db_name(qt.dbid) as dbname, qt.objectid

 FROM sys.dm_exec_query_stats qs

  CROSS apply sys.dm_exec_sql_text(qs.sql_handle) as qt

  Left join (select a.session_id, a.sql_handle sql_handle,b.client_net_ad
dress  client_net_address

             From sys. dm_exec_requests  a, sys.dm_exec_connections b

             where a.session_id = b.session_id

             ) a on qs.sql_handle = a. sql_handle

  ORDER BY qs.total_physical_reads desc
```

查看逻辑读高的100条SQL

```
SELECT TOP 100

a.session_id,a.client_net_address,

 qs.total_logical_reads,qs.execution_count,

 qs.total_logical_reads /qs.execution_count as avg_io,

 qt.text, db_name(qt.dbid) as dbname

 FROM sys.dm_exec_query_stats qs

 cross apply sys.dm_exec_sql_text(qs.sql_handle) as qt

 Left join (select a.session_id, a.sql_handle sql_handle,b.client_net_add
```

```
ress  client_net_address

             From sys. dm_exec_requests  a, sys.dm_exec_connections b

             where a.session_id = b.session_id

             ) a on qs.sql_handle = a. sql_handle

 ORDER BY qs.total_logical_reads desc
```

查看CPU高的100条SQL

```
SELECT TOP 20

    total_worker_time/1000 AS [总消耗CPU 时间(ms)],execution_count [运行次数],

    qs.total_worker_time/qs.execution_count/1000 AS [平均消耗CPU 时间(ms)],

    last_execution_time AS [最后一次执行时间],max_worker_time /1000 AS [最大执行时间(ms)],

    SUBSTRING(qt.text,qs.statement_start_offset/2+1,

        (CASE WHEN qs.statement_end_offset = -1

        THEN DATALENGTH(qt.text)

        ELSE qs.statement_end_offset END -qs.statement_start_offset)/2 + 1)

    AS [使用CPU的语法], qt.text [完整语法],

    qt.dbid, dbname=db_name(qt.dbid),

    qt.objectid,object_name(qt.objectid,qt.dbid) ObjectName

FROM sys.dm_exec_query_stats qs WITH(nolock)

CROSS apply sys.dm_exec_sql_text(qs.sql_handle) AS qt

WHERE execution_count>1

ORDER BY  total_worker_time DESC
```

查看内存消耗高的SQL

```
SELECT a.session_id,a.client_net_address,SS.SUM_EXECUTION_COUNT,

T.TEXT,

SS.SUM_TOTAL_ELAPSED_TIME,

SS.SUM_TOTAL_WORKER_TIME,

SS.SUM_TOTAL_LOGICAL_READS,

SS.SUM_TOTAL_LOGICAL_WRITES

FROM (SELECT S.PLAN_HANDLE,

SUM(S.EXECUTION_COUNT)SUM_EXECUTION_COUNT,

SUM(S.TOTAL_ELAPSED_TIME)SUM_TOTAL_ELAPSED_TIME,

SUM(S.TOTAL_WORKER_TIME)SUM_TOTAL_WORKER_TIME,

SUM(S.TOTAL_LOGICAL_READS)SUM_TOTAL_LOGICAL_READS,

SUM(S.TOTAL_LOGICAL_WRITES)SUM_TOTAL_LOGICAL_WRITES

FROM SYS.DM_EXEC_QUERY_STATS S

GROUP BY S.PLAN_HANDLE

) AS SS

CROSS APPLY SYS.dm_exec_sql_text(SS.PLAN_HANDLE)T

 Left join (select a.session_id, a.plan_handle plan_handle,b.client_net_a
ddress  client_net_address

             From sys. dm_exec_requests  a, sys.dm_exec_connections b

             where a.session_id = b.session_id

             ) a on ss.plan_handle = a. plan_handle

ORDER BY SUM_TOTAL_LOGICAL_READS DESC
```

查找执行慢的SQL

```
SELECT a.session_id,a.client_net_address,

(total_elapsed_time / execution_count)/1000 N'平均时间ms'

,total_elapsed_time/1000 N'总花费时间ms'

,total_worker_time/1000 N'所用的CPU总时间ms'

,total_physical_reads N'物理读取总次数'

,total_logical_reads/execution_count N'每次逻辑读次数'

,total_logical_reads N'逻辑读取总次数'

,total_logical_writes N'逻辑写入总次数'

,execution_count N'执行次数'

,SUBSTRING(st.text, (qs.statement_start_offset/2) + 1, ((CASE statement_e
nd_offset WHEN -1 THEN DATALENGTH(st.text) ELSE qs.statement_end_offset E
ND - qs.statement_start_offset)/2) + 1) N'执行语句'

,st.text

,creation_time N'语句编译时间'

,last_execution_time N'上次执行时间'

FROM sys.dm_exec_query_stats AS qs

CROSS APPLY sys.dm_exec_sql_text(qs.sql_handle) st

Left join (select a.session_id, a.sql_handle sql_handle,b.client_net_addr
ess  client_net_address

             From sys. dm_exec_requests  a, sys.dm_exec_connections b

             where a.session_id = b.session_id

             ) a on qs.sql_handle = a. sql_handle

ORDER BY total_elapsed_time / execution_count DESC
```

查看正在执行的SQL语句

```
SELECT   spid,

         blocked,

         DB_NAME(sp.dbid) AS DBName,

         program_name,

         waitresource,

         lastwaittype,

         sp.loginame,

         sp.hostname,

         a.[Text] AS [TextData],

         SUBSTRING(A.text, sp.stmt_start / 2,

         (CASE WHEN sp.stmt_end = -1 THEN DATALENGTH(A.text) ELSE sp.stmt
_end

         END - sp.stmt_start) / 2) AS [current_cmd]

FROM     sys.sysprocesses AS sp OUTER APPLY sys.dm_exec_sql_text (sp.sql_
handle) AS A

WHERE    spid > 50
```

日志收缩注意问题

```
select * from sys.databases

当 log_reuse_wait_desc 为nothing装态，直接收缩无限制。为log_backup时，再作一
次备份，然后进行收缩。

SELECT role_desc, state_desc FROM sys.database_mirroring_endpoints

SELECT mirroring_safety_level_desc, mirroring_witness_name, mirroring_wit
ness_state_desc FROM sys.database_mirroring
```

```
为active_transaction 表示有大事务，为database_mirroring 镜像状态异常，需要resume。
```

检查日志空间占用及不能截断原因

```
DBCC SQLPERF(LOGSPACE)

GO

SELECT name,recovery_model_desc,log_reuse_wait,log_reuse_wait_desc

FROM sys.databases

GO

log_reuse_wait_desc 为REPLICATION时，多为cdc相关，use Xxx; 重新开启cdc再关闭

查询是否开启CDC
SELECT   IS_CDC_ENABLED

        ,CASE WHEN IS_CDC_ENABLED = 0

              THEN 'CDC功能禁用'

              ELSE 'CDC功能启用'END 描述

FROM     SYS.DATABASES

WHERE   NAME  = 'XXXX'
```

开启CDC和关闭CDC
对当前数据库启用CDC

```
USE xxx

GO

EXECUTE sys.sp_cdc_enable_db

GO

禁用CDC

USE xxx
```

```
GO

EXECUTE sys.sp_cdc_disable_db

GO
```

开启表的异常捕获

```
exec sys.sp_cdc_enable_table  @source_schema='模式名称 ',

@source_name='表名称',

@role_name= 'CDC角色名称'
```

SQL2

查看当前用户查看当前用户
`select system_user`

检查SQL Agent是否开启

```
IF EXISTS (

SELECT TOP 1 1

FROM sys.sysprocesses

WHERE program_name = 'SQLAgent - Generic Refresher'

)

SELECT 'Running'

ELSE

SELECT 'Not Running'
```

查看是否做了镜像

```
select

    a.database_id

    ,a.name 数据库名称

    ,case when b.mirroring_guid is null then '否' else '是' end 是否镜像

    ,b.mirroring_partner_name 镜像服务器名称

from

[sys].[databases] a

left join [sys].[database_mirroring] b on a.database_id=b.database_id
```

分离数据库

```
USE master;

EXEC sp_detach_db @dbname = 'test';#test指需要分离的数据库
```

附加数据库

`SELECT type_desc, name, physical_name from sys.database_files;#查看物理数据库文件的位置`

#使用带 FOR ATTACH 子句的 CREATE DATABASE 语句附加之前分离的test数据库

```
CREATE DATABASE test

    ON (FILENAME = 'C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER\MSSQL\DATA\test.mdf'),

    (FILENAME = 'C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER\MSSQL\DATA\test_log.ldf')

    FOR ATTACH;
```

查看主从复制关系

```
SELECT * FROM msdb.dbo.sysjobs ;

SELECT

    serverproperty('servername') AS ServerName,

    CASE

        WHEN serverproperty('servername') = '主服务器名称' THEN '主服务器'

        ELSE '从服务器'

    END AS ServerRole
```

#也可以通过以下语句来查询

`SELECT * FROM sys.objects WHERE name = 'MSreplication_options'`

查看实例级别的信息

`select SERVERPROPERTY ('test')`

查看实例级别的某个参数allow updates的配置
`select * from sys.configurations where name='allow updates'`

查询当前数据库的所有架构范围的对象
`select * from sys.all_objects`

查询当前数据库的所有对象
`select * from sys.sysobjects`

在当前数据库下可以查询到所有数据库信息，包含是否on状态
`select * from sys.databases`

查询所有数据库信息
`select * from sys.sysdatabases`

查询当前数据库下所有正在SQL Server 实例上运行的进程的相关信息
`select * from sys.sysprocesses`

监控日志空间
`DBCC SQLPERF (LOGSPACE)`

查看数据库各种设置
`select name,State,user_access,is_read_only,recovery_model from sys.databases`
查询当前数据库是否有会话
`select DB_NAME(dbid),* from sys.sysprocesses where dbid=db_id('test')`
查询当前阻塞的所有请求

```
SELECT session_Id,spid,ecid,DB_NAME (sp.dbid),nt_username,er.status,wait_type,

[Individual Query] =SUBSTRING (qt.text,er.statement_start_offset / 2,

( CASE

WHEN er.statement_end_offset = -1

THEN

LEN (CONVERT (NVARCHAR (MAX), qt.text)) * 2

ELSE

er.statement_end_offset

END
```

```
- er.statement_start_offset)

/ 2),

qt.text,program_name,Hostname,nt_domain,start_time

FROM sys.dm_exec_requests er

INNER JOIN sys.sysprocesses sp ON er.session_id = sp.spid

CROSS APPLY sys.dm_exec_sql_text (er.sql_handle) AS qt

WHERE session_Id > 50 /* Ignore system spids.*/

AND sp.blocked>0 AND session_Id NOT IN (@@SPID)
```

查看活动线程执行的sql语句,并生成批量杀掉的语句

```
select 'KILL '+CAST(a.spid AS NVARCHAR(100)) AS KillCmd,REPLACE(hostname,
' ','') as hostname ,replace(program_name,' ','') as program_name

,REPLACE(loginame, ' ', '') AS loginame, db_name(a.dbid) AS DBname,spid,b
locked,waittime/1000 as waittime

,a.status,Replace(b.text,'''','''') as sqlmessage,cpu

from sys.sysprocesses as a with(nolock)

cross apply sys.dm_exec_sql_text(sql_handle) as b

where a.status<>'sleeping' AND a.spid<>@@SPID
```

查看数据库的最近备份信息

```
SELECT database_name,type,MAX(backup_finish_date) AS backup_finish_date F
ROM msdb.dbo.backupset GROUP BY database_name,type ORDER BY database_nam
e,type

备注：D 表示全备份，i 表示差异备份，L 表示日志备份
```

查看备份进度

```
SELECT DB_NAME(database_id) AS Exec_DB

,percent_complete

,CASE WHEN estimated_completion_time < 36000000

THEN '0' ELSE '' END + RTRIM(estimated_completion_time/1000/3600)

+ ':' + RIGHT('0' + RTRIM((estimated_completion_time/1000)%3600/60), 2)

+ ':' + RIGHT('0' + RTRIM((estimated_completion_time/1000)%60), 2) AS [Ti
me Remaining]

,b.text as tsql

,*

FROM SYS.DM_EXEC_REQUESTS

cross apply sys.dm_exec_sql_text(sql_handle) as b

WHERE command LIKE 'Backup%' --and database_id=db_id('cardorder')

--OR command LIKE 'RESTORE%'

ORDER BY 2 DESC
```

查询always on状态是否正常

```
select dc.database_name, d.synchronization_health_desc, d.synchronization
_state_desc, d.database_state_desc from sys.dm_hadr_database_replica_stat
es d join sys.availability_databases_cluster dc on d.group_database_id=d
c.group_database_id and d.is_local=1
```

查看mirror镜像信息

```
SELECT

db_name(database_id),

mirroring_state_desc,

mirroring_role_desc,
```

```
mirroring_partner_name,

mirroring_partner_instance

FROM sys.database_mirroring
```

查看每个数据库实例的数据量大小

```
SELECT

DB_NAME(db.database_id) DatabaseName,

(CAST(mfrows.RowSize AS FLOAT)*8)/1024 RowSizeMB,

(CAST(mflog.LogSize AS FLOAT)*8)/1024 LogSizeMB,

(CAST(mfstream.StreamSize AS FLOAT)*8)/1024 StreamSizeMB,

(CAST(mftext.TextIndexSize AS FLOAT)*8)/1024 TextIndexSizeMB

FROM sys.databases db

LEFT JOIN (SELECT database_id, SUM(size) RowSize FROM sys.master_files WH
ERE type = 0 GROUP BY database_id, type) mfrows ON mfrows.database_id = d
b.database_id

LEFT JOIN (SELECT database_id, SUM(size) LogSize FROM sys.master_files WH
ERE type = 1 GROUP BY database_id, type) mflog ON mflog.database_id = db.
database_id

LEFT JOIN (SELECT database_id, SUM(size) StreamSize FROM sys.master_files
WHERE type = 2 GROUP BY database_id, type) mfstream ON mfstream.database_
id = db.database_id

LEFT JOIN (SELECT database_id, SUM(size) TextIndexSize FROM sys.master_fi
les WHERE type = 4 GROUP BY database_id, type) mftext ON mftext.database_
id = db.database_id
```

查询总耗CPU最多的前3个SQL，且最近5天出现过

```
SELECT TOP 3

total_worker_time/1000 AS [总消耗CPU 时间(ms)],execution_count [运行次数],

qs.total_worker_time/qs.execution_count/1000 AS [平均消耗CPU 时间(ms)],
```

```
last_execution_time AS [最后一次执行时间],max_worker_time /1000 AS [最大执行时间(ms)],

SUBSTRING(qt.text,qs.statement_start_offset/2+1,

(CASE WHEN qs.statement_end_offset = -1

THEN DATALENGTH(qt.text)

ELSE qs.statement_end_offset END -qs.statement_start_offset)/2 + 1)

AS [使用CPU的语法], qt.text [完整语法],

qt.dbid, dbname=db_name(qt.dbid),

qt.objectid,object_name(qt.objectid,qt.dbid) ObjectName

FROM sys.dm_exec_query_stats qs WITH(nolock)

CROSS apply sys.dm_exec_sql_text(qs.sql_handle) AS qt

WHERE execution_count>1 and last_execution_time>dateadd(dd,-5,getdate())

ORDER BY total_worker_time DESC
```

查看当前最耗资源的10个SQL及其spid

```
SELECT TOP 10

session_id,request_id,start_time AS '开始时间',status AS '状态',

command AS '命令',d_sql.text AS 'sql语句', DB_NAME(database_id) AS '数据库名',

blocking_session_id AS '正在阻塞其他会话的会话ID',

wait_type AS '等待资源类型',wait_time AS '等待时间',wait_resource AS '等待的资源',

reads AS '物理读次数',writes AS '写次数',logical_reads AS '逻辑读次数',

row_count AS '返回结果行数'

FROM sys.dm_exec_requests AS d_request
```

```
CROSS APPLY

sys.dm_exec_sql_text(d_request.sql_handle) AS d_sql

WHERE session_id>50

ORDER BY cpu_time DESC

--前50号session_id一般是系统后台进程，sys.dm_exec_requests的status显示为background

always on
```

查看集群各节点的信息，包含节点成员的名称，类型，状态，拥有的投票仲裁数
`SELECT * FROM sys.dm_hadr_cluster_members;`

查看集群各节点的信息，包含节点成员的名称，节点成员上的sql实例名称
`select * from sys.dm_hadr_instance_node_map`

查看WSFC(windows server故障转移群集)的信息，包含集群名称，仲裁类型，仲裁状态
`SELECT * FROM SYS.dm_hadr_cluster;`

查看AG名称
`select * from sys.dm_hadr_name_id_map`

查看集群各节点的子网信息，包含节点成员的名称，子网段，子网掩码

`SELECT * FROM sys.dm_hadr_cluster_networks;`

查看侦听ip
`select * from sys.availability_group_listeners;`

查看主从各节点的状态
复制

```
select d.is_local,dc.database_name, d.synchronization_health_desc,

d.synchronization_state_desc, d.database_state_desc

from sys.dm_hadr_database_replica_states d

join sys.availability_databases_cluster dc

on d.group_database_id=dc.group_database_id;
```

查看辅助副本(传说中的从库)延迟多少M日志量

```
select db_name(database_id),log_send_queue_size/1024 delay_M,*

from sys.dm_hadr_database_replica_states where is_primary_replica=0;
```

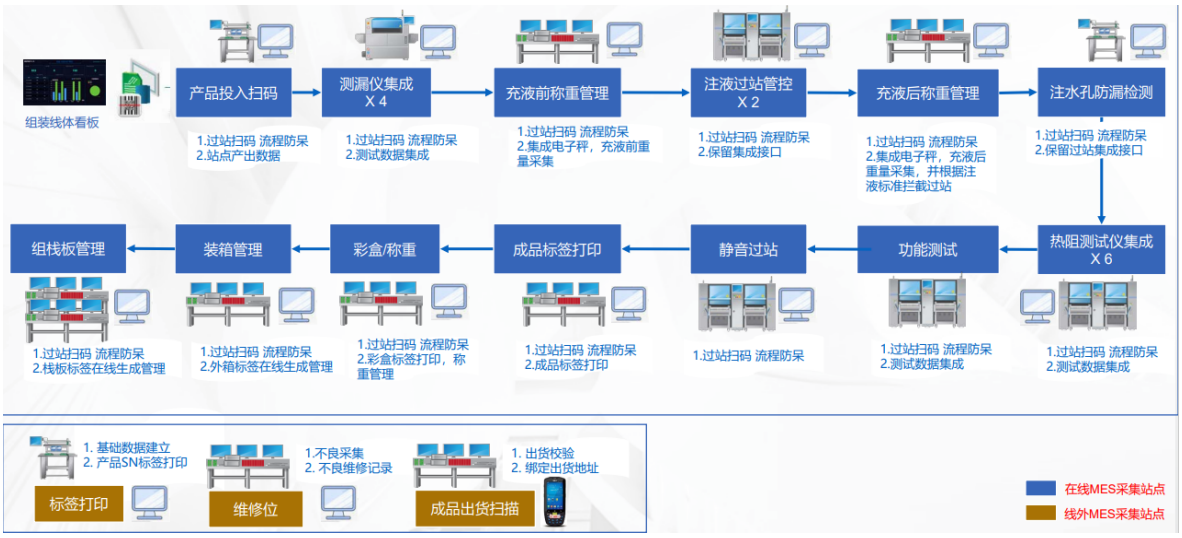
查看DDL操作的记录

```
select * from Sys.traces
```

客户业务说明

昂湃液冷

1.注水量拦截　维护产品扩展信息 `limit` 为注水量 一般填写210±5 ，过站界面会拦截注液后的重量-注液前的重量 在210±5 g范围内
2.水排码，即出货码导入系统， CSR增加表 ap_customer_sn
3.多个标签取值需维护工单扩展信息



设备集成：
1.测漏仪
2.注液机
3.注水孔防漏检测
4.热阻集成
5.功能测试

系统参数

ParamCode	ParamValue
sys_reportmail_send_enable	3
sys_materialsalert_mail_send_enable	0
mms_materialsalert_day	30
defaultWeight	g
toolingExtend	1
pickCheckLocaltion	1
AQL_Default_Value	1916@0@0.25">C=0@0.25
check_material_iqc_state	1
checkMantissaBox	1
checkSerialCompleteProduct	1
FAI_ENABLE	1
feed_export_check_material_isexists	1
feed_export_resetsubstitutematerial	0
fifoint	1
isAllowFailInput	1
IsSOPChangeOpen	1
LOT_AUDIT_ENABLE	1
mms_reels_exhaust_state	21
mms_reels_IQC_bad_state	14
mms_reels_IQC_CheckOK_Sate	0
mms_reels_IQC_REJECT_state	13

ParamCode	ParamValue
mms_reels_LineSideWarehouse_state	18
mms_reels_LowerShelf	0
mms_reels_OtherReceiving_state	0
mms_reels_Pick_state	16
mms_reels_PickOutWarehouse_state	3
mms_reels_Receiving_State	11
mms_reels_ReturnGoods	31
mms_reels_Supplier_print_Status	10
mms_reels_transferIn	0
mms_reels_transferOut	32
mms_reels_UpperShelf	1
packbox_error_lock	0
error_lock	0
PRODUCT_AUDIT_ENABLE	0
Product_Lot_Check_Must_Data	0
Splitornot	1
SYS_CORPYRIGHT	Copyright © 2012-2021, All Rights Reserved
SYS_LEVEL	系统等级
SYS_NAME	仓储管理系统
checkSorting	0
outstockStates	11
isCheckWarehouse	0
notSerialNumberConversion	1

ParamCode	ParamValue
Plancontrol	0
Intervaltime	60
isCheckOutPut	0
passwordStrength	3
checkCarRegist	0
checkMaterialEffective	1
isCreateLot	0
BoxStartTime	2020-06-18 10:00:00.000
OrderModel	0
ReceivingTally	0
ToolingIsMaterial	1
pickSubmit	1
pck_smt_feeder_bystep	1
show_user_default_desktop	1
tooling_pchecker_select_face	1
login_sso	0
login_sso_exist	1
pck_loadfeeder_out_selectface	1
chc_spot_check_passstation_enable	0
isRequiredLot	0
LeadTimeOfSpotCheck	10
pck_use_newtooling	1

ParamCode	ParamValue
sys_reportmail_send_enable	3
batchRepairSelectStep	1
packReelsStatus	10
isPickSplitPrintLabel	1
jinrun_Expressdeliveryorder_Prefix	绑定快递单号条码前缀校验如（S10,F10）
SPD_ISTX	1
Shipping_OQC_inspection	0
PO_printing_control	0
lot_trace_select_step	0
PO_printing_mode	1
PDA_HOME_PAGE	home/home01.html
Shipment_Scanning_Check_storage	1
Connstring	11
isCheckOQC	0
PO_printing_mode	1
isOpenPlanUpAndDown	1
shipmentfifoint	1
winfrom_print_reel_status	0
chargingCheckStatus	0
login_sso_timeout	5
repair_workstation	0
Pick_No_label	1

ParamCode	ParamValue
material_delivery	1
testDataIsMangoDB	0
lotIsTrace	1
toolingIsWhole	0
IQC_Times_of_tightening	3
IQC_Number_of_relaxations	10
OQALinkPath	/Content/aiform/hongchang/OQC.html
PCK_OUTSOURCING_ENABLE	0
blendpassstation	0
AQL_Default_Value	1916@0@0.25">C=0@0.25
LHMovePath	D://
chargingCheckSqlStore	0@TestCheckCharging
OrderPlanning_tc	1
instock_Scanning_All	0
NormalShelves	1
BusinessDbConnection	server=124.71.33.56;uid=sa;pwd=@mes2021;da
blendpassstation	0
blendpassstation	0
notBlendPanelInitialization	0
workLabelAttr	1
LotOutSourcingAllFlow	1

ParamCode	ParamValue
ERP_reading_mode	0
enable_login_validate_usercode_uplower	1
TransferRestrictions	0
adjustable_into_and_putaway	1
pck_load_material_check_scraper	1
blendpassstation	0
KERR_UpkeepWarning	3
Planning_mode	1
putup_checkuid	0
zxbt_asm_getInfo_xml	D:/kanban/xml/
C14	1
Customername	YSD
isPickSplitPrintLabel	1
XJ_TransfMaterial_LotPrice	5
XJ_AOIBad_InterfaceURL	测试值
shipmentIsCheckWareHouse	0
UserCenterDbConnection	server=124.71.33.56;uid=sa;pwd=@mes2021;da
feederType	
taskservice	http://localhost:6688/
SYSTEM_ORGANIZE	DW
Material_import_Supplier	1
googs_instock_SUB_ERP	1
system_customer	DW

ParamCode	ParamValue
IQC_SUB_ERP	0
Delivery_isopen_fifo	0
IQC_Delete_check	1
Delivery_isopen_print	0
Minimum_package	0
pck_smt_record_subserials	1
pck_pda_show_materialquantity	1
pck_pda_show_materialdatecode	1
pck_pda_show_materiallotno	1
Material_storage_submit_erp	0
WEIJIAO_UP_Node	IQC
instock_SUB_ERP	1
PICK_SUB_CHECKQTY	1
Enable_Material_fifo	0
Pick_Enable_SubstituteMaterial	0
Pick_Detail_Sort	0
reworkUnBoxStates	2
SOLDER_ENTER_STTATE	0,19,20
Is_Check_Msd	0
system_Kaifeng	1
Material_storage_submit_iqc	精零星进货是否需要进行IQC检验（0:否，1是）
passInitFirstArticle	1

ParamCode	ParamValue
Pick_Display_LOCATION	1
CountSheetBatch	1
JPDWorkReportCloseErp	1
BarcodeInsWarehouse	1
PlanSchedulingLine	SL17|SL18|H2|SL22-1
PO_printing_mode	1
SZJJ_STANDARD_HOUR	20
OQAShowReplaceSize	1
IsOutsourcing_ScanCode	1
InoutInit	0
XJ_TransfMaterial_MaterialPrice	10
WorkFlowDbConnection	server=124.71.33.56;uid=sa;pwd=@mes2021;da
PICK_SUB_ERP	1
Supplier_Acceptance_letter	0
PO_Return_file	0
Pick_Synchronization_mode	1
Pick_Summary_Split	1
PDA_Quantity_type	thousands
Pick_Singleline_split	1
PassOpenCache	0
PO_Change_confirm	0
Delivery_Batch	01

ParamCode	ParamValue
passLastStepLotAutoClose	0
userLoginErrorCount	100
isOutputXml	1
Transfer_File_address	192.168.1.18
PICK_Check_UIDQTY	1
system_FilteringWarehouse	1
ShippingWarehouse	0
firstPieceCheckByStep	1
lotTraceRatio	10
fifoint_Special	0
shipment_sub_checkQty	0
pandian_SUB_ERP	0
PDAQueryWarehouseIsDisplay	0
ReportEmailAddress	D:/ReportEmailAddress/
shipmentCheckOBA	0
ConnType	0
shipment_Limit_Outermost	0
Stock_ERP_default	1
PackLotSetting	1
OQARebackRT	0
SrcBillType	59,60,10
XJ_TransfMaterial_ToEmail	1131150912@qq.com"">lhl|1131150912@qq.co

ParamCode	ParamValue
Pick_Query_Erp	1
Close_Repair_URL	http://192.168.8.3/defects/CloseRepairByMes
Send_Repair_URL	http://192.168.8.3/defects/AddDefectByMES
Pick_Open_BatchControl	0
Pack_BillNo	Box
Transfer_File_address2	//192.168.135.211/smt-xml
Transfer_File_address3	D:/mes/kanban/Parse_XML3
PDA_CPCL_Print	0
UID_Prefix	供应商编码
smtFujiDir	D:/smt/
Miscellaneous_collection_submit_erp	1
CurrencyName	通用规则
Mandatory_delivery_of_shipments	0
shipmentIsCheckWareHouse	0
UpdateDocuments	0
sys_materialsalert_mail_send_enable	0
XJ_AOIBad_InterfaceURL	测试值
untyingStep	0
receive_SUB_ERP	0
warehouse_return_SUB_ERP	0
production_return_intosetof_SUB_ERP	1

ParamCode	ParamValue
pck_load_material_check_scraper	1
pck_load_material_check_stencils	1
pck_load_material_check_thimble	1
XJ_TransfMaterial_ExamineURL	http://localhost:7821/xfeeds/TransfMaterial_New
verification_lot	1
putup_check_uidpick	1
isEnablePlanScheduling	0
Line_address	123321
Mantissa_start	1
UID_SubdivisionBillNo	1
UID_SyncreticBillNo	1
Delivery_BillNo	1
SystemDbConnection	server=124.71.33.56;uid=sa;pwd=@mes2021;da
jinrun_Expressdeliveryorder_Prefix	绑定快递单号条码前缀校验如（S10,F10）
shipment_SUB_ERP	1
Pick_Overhair_Quantity	0
isOpenPlanPublish	0
defectFeed	1
PDAShelvesSelectNumberHide	0
PDAShelvesSubmitIsHide	0
Pick_WareLocation_Reduction	0
Pick_AutoFillSplit	0

ParamCode	ParamValue
chargingSaveMaterial	1
reworkNoCheckState	1
IN_CheckAllIQC	1
Supplier_BP_Proportion	0
File_address	log/PDA
Transfer_File_user	mes
Transfer_File_pwd	123.com
Transfer_File_filename	text
DS_SerialOutDate	7
passInsertOqaBillNo	1
Receive_Scanning_All	1
Transfer_SUB_ERP	0
outsourced_return_SUB_ERP	1
adjustable_Need_In	0
IQC_BillNo	ZTYI
googs_instock_ReadView	1
Transfer_File_address_DSF	D:/mes/kanban/Parse_DSF
wms_print_BarTender	1
passOpenWorkTime	0
Pick_Split_UpUid	0
UID_LabelBillNo	1

ParamCode	ParamValue
RN_BillNo	1
IN_BillNo	1
UID_BillNo	1
pck_load_material_check_feeder	1
Shipment_Display_LOCATION	0
search_to_Location	1

系统按钮

ButtonCode	ButtonName	ButtonSeq	Description
1	UID分盘	0	
2	UID合盘	0	
20200422	备料先进先出	0	
20200622	出货先进先出	0	
202009081802	反审	1	
202010301	开拉核对审核	0	
3	UID补打	0	
652	自定义条码重打印	5214	
886	删除快递单	0	
accredit	授权	9	
add	新增	1	
Advanced_deletion	高级删除	0	IQC高级删除权限
affirm	确认	1	
Akey_Storage	送货收料一键入库	0	
allunlock	全部解锁	0	
ASNdelete	ASN删除	23	
asyn	同步ERP工单	15	
audit	审核	10	
batchlock	批量解锁	0	
boxErrorUnLock	装箱报错解屏	1	
browse	浏览	1	

ButtonCode	ButtonName	ButtonSeq	Description
btntip	物料管控审核权限	18	
car_load_materials	料车上料	0	
carloadmaterials	料车	313	
category	管理分类	0	
CODE	物料管控审核权限	0	
confirm	确认	0	
controlMaterial	管控物料	17	是否管控物料
copy	复制	12	
delete	删除	3	aa
deletes	批量删除	0	
deskhelp_job_switcher	任务派发	0	
download	下载	7	
edit	编辑	2	
EquipmentStatus	设备状态	0	
errorUnLock	报错解屏	1	扫描报错时会锁屏 这时需要有权限的
export	导出	6	aaa
fileAuditLink	软件上传审核	998	
fileRetrialLink	软件上传反审	999	
first_load_materials	首次上料	0	
from	软件上传	1000	
GG_GG	GG_GG	123123	
GGGGG	GGGGG1	1231	

ButtonCode	ButtonName	ButtonSeq	Description
helpdesk_job_submiter	任务提交	0	
inport	导入	11	
ipqc_check_all_material	IPQC核料-全	0	
ipqc_check_material_station	IPQC核料-站	0	
iqc_edit	品质输入权限	0	
IQC_Field_Authority	IQC表单字段权限	0	
labelAttr	标签属性	26	标签可更改属性的
mantissaBox	尾数箱提交管控	22	尾数箱提交是否需
MaterialType	管理类别	0	
MSDReset	重置暴露时间	24	物料:重置MSD暴露
OfflineQAExamine	离线备料审核	0	
old_new_material_load	旧料新料接料	0	
OQCCheckSubmit	OQA抽检强制提交	0	
outdel	出货删除	0	
packCheckSubmit	装箱检查强制提交	0	装箱检查功能， 可以不需要扫描完 点击提交进行强制
packDelete	包装删除	0	
passmode	直通模式	20	直通模式
pd_edit	生产输入权限	0	
PdaCheckOff	PdaPcheck离线模式	0	PdaPcheck离线模
PdaCheckOn	PdaPcheck在线模式	0	PdaPcheck在线模
pmc_edit	PMC输入权限	0	
po_edit	采购输入权限	0	

ButtonCode	ButtonName	ButtonSeq	Description
print	打印	8	
productSetCj	产品设置抽检	0	
ProductTab0	选项卡0-装配	300	装配
ProductTab1	选项卡1-包装	301	包装
ProductTab10	选项卡10-误测	310	误测
ProductTab11	选项卡11-其他	311	其他
ProductTab12	选项卡12-进站时间	312	进站时间
ProductTab13	选项卡13-包装检查	313	包装检查
ProductTab14	选项卡14-资质认证	314	资质认证
ProductTab15	选项卡15-抽检	315	抽检
ProductTab16	选项卡16-条码比对	316	条码比对
ProductTab17	选项卡17-条码关联	317	条码关联
ProductTab18	选项卡18- 不良品处理	318	不良品处理
ProductTab19	选项卡19-数据收集	319	数据收集
ProductTab2	选项卡2-称重	302	称重
ProductTab20	选项卡20-重复过站	320	重复过站
ProductTab21	选项卡21-进站控制	321	进站控制
ProductTab22	选项卡22-流转卡	322	流转卡
ProductTab23	选项卡23-拓展	323	产品拓展-工单拓展
ProductTab24	选项卡24-设备联机	324	设备联机
ProductTab25	选项卡25-产品工序	325	产品工序
ProductTab3	选项卡3-标签	303	标签

ButtonCode	ButtonName	ButtonSeq	Description
ProductTab4	选项卡4-标准工时	304	标准工时
ProductTab5	选项卡5-条码替换	305	条码替换
ProductTab6	选项卡6-工装治具	306	工装治具
ProductTab7	选项卡7-载具	307	载具
ProductTab8	选项卡8-BOM	308	BOM
ProductTab9	选项卡9-出站时间	309	出站时间
pzaudit	品质审核	0	
rd_edit	RD输入权限	0	
refresh	刷新	5	
refuse	拒绝	0	拒绝
rePrintLabel	过站重打标签	1	
role	设置角色	14	
save	保存	13	
scaudit	生产审核	0	
scrap	报废	16	
search	查询	4	
Shipping_Delete	发运删除	0	
skip	放行通过	0	15
station_new_materials	站位-新料接料	0	
station_old_new_material_load	站位旧料新料接料	0	
station_pcheck_material	站位新料接料	0	
SubstituteMaterial	替代料	25	
systemconfig	系统设置	21	

ButtonCode	ButtonName	ButtonSeq	Description
TEST02020421	TEST02020421	212	121
TEST20200421	TEST	22	1
tmpChangeSetuplist	站位修改	33	SMT-pcheck修改站
tmpuncontrol	临时不管控物料权限	19	临时不管控物料权
uid_Convert	uid标签转换	107	Winform 标签转换
uid_copy	uid补打	104	Winform 补打
uid_edit	uid编辑	101	Winform 标签编辑
UID_FP	UID分盘	0	
uid_Merge	uid合盘	106	Winform 合盘
uid_print	uid打印	100	Winform uid打印
uid_specs_edit	uid规格修改	105	Winform 规格修改
uid_split	uid拆分	102	Winform拆分
Upanddown	上下线权限	0	
View_amount	查看金额	0	
wince_scan_setting_pda	扫码设置	0	
YL_Ember	Ember权限	0	
Yl_Production	生产部确认	0	颖利IPQC巡检报表
Yl_Quality	品质部确认	0	颖利IPQC巡检表单
程序确认	程序确认	0	
程序审核	程序审核	0	
重新提交	重新提交	0	

数据字典

Value	Text	ParentC
Pair	双	Measur
Vehicle	辆	0
task_mes	MES任务	sys_tas
Barrel	桶	Measur
0003	修改记录	Resour
L	Line	
C	Cell	
type001	修磨	Bad_typ
yyMM	年（两位）月	dateTyp
G01Z	192.168.104.108	QJ1
fbt_cost_ink	油墨	fbt_cos
G12Z	192.168.104.105	BD1
handle	把	0
2033	螺丝不见	resouce
kanban_eight	计划达成率看板	KanBar
pcs	pcs	
UID_Prefix	UID	System
C	Cell	
pcs	pcs	
G02Z	192.168.104.115	QJ1
JXT_HourMoney_30	30时薪	JXT_Ho

Value	Text	ParentC
2027	不通电	resouc
ZA05X	192.168.101.205	GX
kanban_5	生产看板	
Desk	台	0
G09Z	192.168.104.102	BD1
S	Station	
FBTA1	开料机	fbt_cos
Special	特级	0
Branch	支	0
SA05X	192.168.101.235	SA
Top	顶	0
圆通	圆通	Logisti
Subcontract	分包	0
m	米	0
km	千米	0
cm	厘米	0
kg	千克	0
ton	吨	0
g	克	0
L	升	0
ml	毫升	0
Pcs	Pcs	0
dozen	打	0

Value	Text	ParentC
dong	栋	0
tai	台	0
tao	套	0
liang	辆	0
level4	4级	produc
Reel	卷	0
PUR_MRB	url	
0001	开模	Resour
ApprovalPass	审批通过	0
E02S	192.168.103.105	BD2
W001	ww错误	BLLB
Unapproved	未审批	0
转线A挡	45	TurnTir
PurchaseOrder	http://192.168.2.252/k3cloud/ERPGW.asmx?op=PurchaseOrder	url
R	Resource	
level1	1级	produc
bhbSerial	保护板条码	BindNa
Other	其他	0
Np001	新员工培训	Abnorr
CubicMeter	立方米	0
直尺	直尺	Testing
京东	京东	Logisti

Value	Text	ParentC
Item	件	0
bm001	bm001	bm
Plate	盘	0
Turnover	周转材料	0
Piece	个	0
UnderThree	三级及以下	0
level3	3级	produc
Two	二级	0
2024001	表面刮花痕迹明显	BLLB
Sheet	张	0
5941	5941	Single
Subcontract	分包	0
level4	4级	incomi
0002	操作错误	BLLB
Reel	卷	0
kg	公斤	Produc
Strip	条	0
InternalUnits	内部单位	0
Top	顶	0
type002	改模	Docum
G03Z	192.168.104.107	QJ1
juan	卷	0
shuang	双	0

Value	Text	ParentC
E08S	192.168.103.108	BD2
Desk	台	0
W	Workcenter	
ApprovalUnPass	审批未通过	0
Freq1	次	Measur
Item	件	0
LowerMold	下模	PartNa
ftb_water_electricity_1	水电1	fbt_cos
Consume	消耗材料	0
defectCode	海业吉利车机	HY_Def
pwd	Dreamway01	mailcer
2024	缺少冷却液	resouc
3	样品工单	LotTyp
outTime	外出工时	Abnorr
A2	A2班	dutytin
Desk	台	0
Bottle	瓶	0
Fan	扇	0
ApprovalIn	审批中	0
cpmSerial	成品码条码	BindNa
UnderThree	三级及以下	0
loss原因3	loss原因3	lossCau
ZA07X	192.168.101.213	GX

Value	Text	ParentC
转线C挡	15	TurnTir
ApprovalIn	审批中	0
IQC	IQC	Docum
Material_collection	RN	Docum
Desk	台	0
account	@dreamway-link.com"">services@dreamway-link.com	
Department	研发部	System
Meter	米	0
Two	二级	0
Branch	支	0
port	80	
level7	7级	produc
Upperold	上模	PartNa
SA04X	192.168.101.200	SA
FBT13	CNC	fbt_cos
2023	爆缸	resouc
Meter	米	0
mm	毫米	Produc
tooling_property_safe_inventory	安全库存	tooling
oneBind	一级绑定	BindNa
S2004	RWER234FS	resouc
level1	1级	incomi

Value	Text	ParentC
Ton	吨	0
CubicMeter	立方米	0
DMQC	QC	HRDM
X509Certificate	0	
Bottle	瓶	0
kanban_seven	线体良率看板	KanBar
ddMM	日月	dateTyp
kanban_line	新版线体看板	KanBar
ApprovalIn	审批中	0
S2001	机油缺漏	resouc
Sheet	张	0
buyTime	购买时间	reelExt
Piece	个	0
ck1	仓库1区	useAre
S001	分判商1	fbs
mail	smtp.mxhichina.com	mailcer
SZJJ_TEXT002	继电器	SZJJMa
1012	压敏电阻	SZJJMa
Freq	万次	Measur
2020	机油增多	resouc
LS-KnifePath4	IR红外四边形窗	LS_Knif
LS-KnifePath5	排气窗	LS_Knif
labelType02	标签类别2	labelTy

Value	Text	ParentC
ck2	仓库2区	useAre
dutytime_cs1	CS1班	dutytin
test	test	Compa
02	补料维修	BLLB
Bag	袋	0
HundredPieces	百个	0
C002	武汉（武汉仓库）	XIAOM
Unapproved	未审批	0
Suit	套	0
Fan	扇	0
2031	撞机	resouc
FdErrCode_02	飞达不进料	Feeder
G10Z	192.168.104.103	BD1
labelType01	标签类别1	labelTy
Rent	租赁	0
KG	公斤	0
45454	文本测试	lotExte
call_master	呼叫主管	erroral
03	换料维修	BLLB
quantity_alert	品质异常	erroral
textBolin	22	lotExte
ZA03X	192.168.101.206	GX
0001	测试	Unique

Value	Text	ParentC
Ton	吨	0
S2002	地盘脱落	resouc
中通	中通	Logisti
Fan	扇	0
Supplier	供应商	
转线B挡	20	TurnTir
S2005	423RWERWE	resouc
level3	3级	incomi
level5	5级	produc
defectType	海业吉利车机	HY_Def
Machine	机械配件	0
0001	机器故障	BLLB
G14Z	192.168.104.112	BD1
E05S	192.168.103.102	BD2
Material_collection_Supplier	RN	Docum
ftb_usercount	人工1	fbt_cos
UID_Split	0,1	System
Top	顶	0
Reel	卷	0
task_wms	WMS任务	sys_tas
B2	B2班	dutytin
fbt_cost_person	人工	fbt_cos
SquareMeters	平方米	0

Value	Text	ParentC
G04Z	192.168.104.114	QJ1
Unapproved	未审批	0
Suit	套	0
level5	5级	incomi
UnderThree	三级及以下	0
123	123	quadra
2	返工工单	LotTypo
dutytime_c	C班	dutytin
FdErrCode_04	进料不稳(浮高)	Feeder
mm	mm	0
fen	份	0
bao	包	0
zha	扎	0
he	盒	0
ping	瓶	0
tong	筒	0
ZA09X	192.168.101.233	GX
type002	损坏	Bad_typ
saveFile	D:\SCTEST\JSON	hbl-sc
twoBind	二级绑定	BindNa
Consumables	低值易耗品	0
InternalUnits	内部单位	0
Barrel	桶	0

Value	Text	ParentC
Bag	袋	0
FBT15	自动印刷机	fbt_cos
Pair	双	0
LabelCategory_LBL	codesoft	LabelC
dmail	钉邮箱	mailcer
d	日	dateTy
S	Station	
R	Resource	
InternalUnits	内部单位	0
loss原因1	loss原因1	lossCau
y	年(一位)	dateTy
Material	物料	
Other	其他	0
Rent	租赁	0
Other	其他	0
Plate	盘	0
LabelCategory_BTW	bartender	LabelC
Plate	盘	0
FBT0110	材料2	fbt_cos
MMdd	月日	dateTy
2021	机油腐化	resouc
ZA08X	192.168.101.214	GX
Block	块	0

Value	Text	ParentC
C001	上海（虹桥仓库）	XIAOM
pcs	pcs	
ApprovalIn	审批中	0
KG	公斤	0
Machine	机械配件	0
Special	特级	0
Barrel	桶	0
Vehicle	辆	0
1	箱号	searchC
LabelCategory_PRN	ZPL	LabelCa
Consume	消耗材料	0
2.0	2.0	PAD_Up
Consumables	低值易耗品	0
material_empty	缺料	erroral
SquareMeters	平方米	0
LS-KnifePath2	五个视窗	LS_Knif
S2007	RWER	resouce
MMyy	月年（两位）	dateTyp
NoUp_UID_STATUS	31	System
Vehicle	辆	0
JXT_HourMoney_22.5	22.5时薪	JXT_Ho
Transfer_Warehouse	25,06,12	System
ZA10X	192.168.101.208	GX

Value	Text	ParentC
productType	机种	produc
G	克	Produc
slice	片	0
second	秒	0
minute	分	0
hour	时	0
Item	件	0
FBTA2	电费	fbt_cos
S2008	23423	resouc
Bottle	瓶	0
ApprovalPass	审批通过	0
2	工单	searchC
loss原因2	loss原因2	lossCau
FBTA4	钻头治具	fbt_cos
卡尺	卡尺	Testing
Block	块	0
L	Line	
SA03X	192.168.101.216	SA
One	一级	0
UID_Split_PDA	0,1	System
yyyyMM	年（四位）月	dateTyp
Strip	条	0
Root	根	0

Value	Text	ParentC
Block	块	0
LS-KnifePath3	四个视窗	LS_Knif
Single	只	0
LS-KnifePath1	外形	LS_Knif
FBT21	清洗机	fbt_cos
Special	特级	0
PO_storage	IN	Docum
fbt_materials_1	材料1	fbt_cos
AuditByCode	http://120.77.80.245:56800/TT/AuditByCode	url
Pair	双	0
SA06X	192.168.101.215	SA
tonne	吨	Measur
dutytime_cs3	CS3班	dutytin
FdErrCode_03	送料不到位	Feeder
ApprovalPass	审批通过	0
ftb_machine	设备	fbt_cos
Vehicle	辆	0
W	Workcenter	
DMQA	QA	HRDM
Err001	设备异常	Abnorr
Rent	租赁	0
HundredPieces	百个	0
Suit	套	0

Value	Text	ParentC
Machine	机械配件	0
Root	根	0
level8	8级	produc
Single	只	0
SA02X	192.168.101.231	SA
Ton	吨	0
S2009	RWER	resouc
E06S	192.168.103.101	BD2
ZA04X	192.168.101.207	GX
SquareMeters	平方米	0
Meter	米	0
Concrete	商砼	0
ZA06X	192.168.101.230	GX
其他	其他	lossCau
Meter	米	0
G11Z	192.168.104.104	BD1
task_tooling	工装设备	sys_tas
handle	把	0
limit	注水上下限	produc
Block	块	0
yyMMdd	年（两位）月日	dateTy
yyww	年（两位）周	dateTy
GY001	工艺问题	Abnorr

Value	Text	ParentC
Concrete	商砼	0
Consumables	低值易耗品	0
AAAAAAA	000	keydefi
Special	特级	0
Subcontract	分包	0
S2003	SDLKFJSDOWE	resouc
L	Line	
Reel	卷	0
dutytime_cs2	CS2班	dutytin
Other	其他	0
SA01X	192.168.124.4	SA
machine_error	设备故障	erroral
23	23	234234
DS	敦实	DS_Shi
FlatMold	平模	PartNa
Strip	条	0
Fan	扇	0
0003	缺陷材料	BLLB
Bag	袋	0
ApprovalUnPass	审批未通过	0
Branch	支	0
1	正常工单	LotTyp
Receive_Default_Warehouse_PC	DW3	System

Value	Text	ParentC
S2006	324	resouc
CubicMeter	立方米	0
ApprovalPass	审批通过	0
01	加焊维修	BLLB
KG	公斤	0
R	Resource	
kanban_one	来料检验IQC看板	
kanban_four	可视化看板	
pp01	pp测试	pptest
pcs	pcs	
Stock	采购	0
Sheet	张	0
ValidateSystem	http://192.168.2.252/k3cloud/ERPGW.asmx?op=ValidateSystem	url
Suit	套	0
Create	http://120.77.80.245:56800/TT/Create	url
labelType03	标签类别3	labelTy
E01S	192.168.103.106	BD2
Turnover	周转材料	0
Single	只	0
3	绑定条码	searchC
readFile	D:\SC Data\Baymax\Json	hbl-sc
Piece	个	0

Value	Text	ParentC
SquareMeters	平方米	0
Item	件	0
UnderThree	三级及以下	0
1	1	BillingU
2026	转机失速	resouc
kanban_three	备料看板	
cm	厘米	Produc
Turnover	周转材料	0
ssl	1	
Consume	消耗材料	0
0002	使用记录	Unique
G08Z	192.168.104.101	BD1
ApprovalUnPass	审批未通过	0
G15Z	192.168.104.111	BD1
litre	升	Measur
ZA02X	192.168.101.202	GX
Customer	客户	
Sheet	张	0
M	月(一位)	dateTyp
YL_BOX_CUSTOMER_COLOR	不同客户产品颜色	YL_BO
kanban_six	批退率看板	KanBar
312	312	
G06Z	192.168.104.109	QJ1

Value	Text	ParentC
2029	线路短路	resouce
Stock	采购	0
Consume	消耗材料	0
转线D挡	10	TurnTir
FBTA5	治具	fbt_cos
Two	二级	0
yww	年(一位)周（两位）	dateTyp
2032	按钮失效	resouce
fbt_cost_pet	保护膜622	fbt_cos
G07Z	192.168.104.110	QJ1
Receive_Default_Warehouse_PDA	DW3	System
1.0	1.0	PAD_Up
C	Cell	
2030	外观老化	resouce
Root	根	0
JH001	计划异常	Abnorr
isCheckSn	productExtendName	
2025	线路老化	resouce
handle	把	0
yyyyMMdd	年（四位）月日	dateTyp
slice	片	0
KG	公斤	0
HundredPieces	百个	0

Value	Text	ParentC
ZA01X	192.168.101.203	GX
One	一级	0
slice	片	0
handle	把	0
产出	产出	PayKinc
passOpenSAPCharging	是否DIP上料核对	keyvalu
Single	只	0
type001	开模	Docum
CubicMeter	立方米	0
DMPMC	PMC	HRDM
Test	测试	lotExte
0	条码	searchC
JXT_HourMoney_15	15时薪	JXT_Hc
SP_BARCODE_IMPORT	检查条码是否已经导入	flowcor
Bottle	瓶	0
FdErrCode_01	不卷带	Feeder
dutytime_a	A班	dutytin
One	一级	0
S2000	压力不足	resouc
slice	片	0
Strip	条	0
textpor	11	produc
Piece	个	0

Value	Text	ParentC
Ton	公吨	Measur
Bag	袋	0
Turnover	周转材料	0
tooling	工装	
312	312	
level2	2级	produc
Branch	支	0
88	yyy	keydefi
S	Station	
Rent	租赁	0
Root	根	0
2034	轴承变形	resouc
szjj	深圳江机专用	sys_tas
yyyy	年	dateTyp
Stock	采购	0
ApprovalUnPass	审批未通过	0
Machine	机械配件	0
0002	改模	Resour
m	米	Produc
level2	2级	incomi
Barrel	桶	0
Default	发货目标仓	DS_Del
dutytime_cs4	CS4班	dutytin

Value	Text	ParentC
kanban_test	仓库备料看板	KanBar
Unapproved	未审批	0
level6	6级	produc
One	一级	0
check_oqc	是否检验OQC	keyvalu
E04S	192.168.103.104	BD2
G	g	Measur
PKGID	PKGID条码	BindNa
W	Workcenter	
Two	二级	0
FBT111	治具	fbt_cos
Purchase_Rk	http://地址/k3cloud/ERPGW.asmx?op=Purchase_Rk	url
G00Z	192.168.104.113	QJ1
dutytime_b	B班	dutytim
Stock	采购	0
Miscellaneous_collection	MR	Docum
searchCombo	综合查询下拉	BindNa
HundredPieces	百个	0
Plate	盘	0
Top	顶	0
outCode	出厂编码	reelExte
E07S	192.168.103.107	BD2

Value	Text	ParentC
2022	螺丝脱落	resouce
2028	缺胶	resouce
Subcontract	分包	0

数据字典类型

code	name
BillingUnit	计费周期
ContractType	合同类型
DownDataType	数据方式
imagePart	完工佐证
BuildingCategories	建筑分类
BD2	A2编带
DisposalType	处置物类别
KeyProjects	重点工程
BLLB	不良类别
DisposalWay	处置方式
ContractType	合同类型
MaterialType	材料类型
SupplyType	供应类型
CompanyCategory	公司分类
productLevel	产品等级
hbl-sc	华宝利
bqxq	标签需求
Nature	资源性质
yb	压边
HY_Defets	不良信息
HRDM	责任部门

code	name
Single	委外进货单别
area	地域
PayType	付款方式
ContractType	合同类型
Nature	资源性质
States	状态类型
Nature	资源性质
quadratic_element	二次元编号
PayKind	支付方式
SupplyType	供应类型
DownDataType	数据方式
QualityRequire	质量要求
Education	学历
PouringWay	浇筑方式
PayKind	支付方式
area	地域
PartAttr	项目属性
States	状态类型
QualificationLevel	资质等级
UniqueCodeDocumentType	唯一码文档类型
mfyq	密封要求
productExtendName	产品扩展维护
Bad_type	不良类型

code	name
KeyProjects	重点工程
useArea	使用区域
MeasureUnit	计量单位
CM	下拉列表
ApprovalStatus	审批状态
QualityRequire	质量要求
sys_task_types	定时任务分类
CompanyCategory	公司分类
AbnormalType	异常分类
searchCombo	综合查询下拉
MerchantsProperty	客商属性
mb	磨边
keyvaluedefind	全局键值定义
Caliper	卡尺
ppjpplx	PP胶品牌类型
tooling_property	工装属性
BusinessType	企业性质
url	访问地址
imagePart	完工佐证
Education	学历
ApprovalStatus	审批状态
MeasureUnit	计量单位
QualityRequire	质量要求

code	name
DisposalWay	处置方式
ApprovalStatus	审批状态
DisposalType	处置物类别
FundSource	资金来源
fx	方向
GX	工型粘接设备
QualificationLevel	资质等级
FundSource	资金来源
PouringWay	浇筑方式
LotType	工单类型
mailcenter	邮件中心
MerchantsProperty	客商属性
Micrometer	千分尺编号
TurnTime	转线时间档位
Pricing	计价方式
DS_Delivery_Warehouse	敦实发货目标仓
BuildingCategories	建筑分类
KeyProjects	重点工程
PartAttr	项目属性
PouringWay	浇筑方式
QualificationLevel	资质等级
FeederFailureTypes	Feeder故障类型
lotExtend	工单拓展

code	name
YL_BOX	颖利箱号
MaterialUse	材料用途
imagePart	完工佐证
DS_Shipment_Factory	敦实出货工厂
DisposalWay	处置方式
dutytime	班次
fbt_cost	非比特成本项目
JXT_HourMoney	景欣泰时薪
lpyq	料盘要求
resouce_alert_reason	设备异常原因定义
erroralert	异常警报
XIAOMI_QM	青米出货地
SA	色环粘接设备
incomingLevel	来料等级
QJ1	A1切角1
DownDataType	数据方式
reelExtendAttr	唯一码扩展属性
fbt_cost_detail	菲比特成本明细
FundSource	资金来源
Education	学历
MerchantsProperty	客商属性
Documentprefix	单据前缀维护
productExtend	产品拓展

code	name
flowconditions	流程节点条件
BusinessType	企业性质
PayType	付款方式
BD1	A1编带
KanBanCategory	看板分类
dateType	日期类型
xx	选项
resouce_alert_def	设备异常定义
MerchantsProperty	客商属性
BillingUnit	计费周期
PartAttr	项目属性
ApprovalStatus	审批状态
lossCause	loss原因
area	地域
Logistics_Company	物流公司
lotExtendName	工单拓展维护
MaterialUse	材料用途
BillingUnit	计费周期
PAD_Upgrade	PAD更新
PayType	付款方式
DisposalType	处置物类别
ys	颜色
Pricing	计价方式

code	name
BuildingCategories	建筑分类
QualificationLevel	资质等级
MaterialType	材料类型
BindName	关联规则名称
MaterialUse	材料用途
Pricing	计价方式
clhp	材料牌号
labelType	标签类别
SZJJMaterialtype	江机物料类型
666	6666
MaterialType	材料类型
MeasureUnit	计量单位
System_configuration	系统配置项
BusinessType	企业性质
ProductUnit	HYXC产品单位
States	状态类型
PayKind	支付方式
dmfs	镀镍方式
SupplyType	供应类型
hyxc_jier	恒源新材极耳生产设备
LS_KnifePath	乐苏-切割刀路
Testing_tool	测试工具
cx	朝向

code	name
MeasureUnit	计量单位
pptest	PP
LabelCategory	标签分类
bm	bm
PartName	部件名称
OricoUint	元创单位
ResourcesDocumentType	资源文档类型
CompanyCategory	公司分类
MaterialType	材料类型
fbs	分判商