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虚线不带箭头,代表展开后看到的细节
虚线带箭头,是值映射关系
实现带箭头是真正执行调用
```

IScale: "2:10",

连接的时候服务名和端口与后台一致

```
Mes.js
                                                                                                        |var MesClient = function (OnOpen)
 try {
                                                                                                            this. ClientID = ""
     client = new MesClient(function () {
                                                                                                            this. UserInfo = [...]
         MesUI = new MesClientUI(client);
                                                                                      上面都只是声明方
                                                                                                            this. Token = null;//登錄令牌
         if (client, Token != null && client, Token != undefined && client, Token != "") {
                                                                                      法,不会执行方法
            ClientInit():
                                                                                                            MesClient.prototype, Init = function (obj)...
                                                                                      里面的内容,下面
         } else {
                                                                                                            MesClient.prototype.ThisClient = {};
                                                                                      的this.init会调用init
            var tk = $.cookie($.MES.CK_TOKEN_NAME);
                                                                                                            MesClient prototype CallFunction = function (ClassName, FunctionName, Da
            if (tk && tk != null && tk != "null") ... else {
                                                                                      方法。同时Onopen
                $("#LoginLayer"). show();
                                                                                      方法传递过去,后
                                                                                                            MesClient.prototype.Login = function (userName, Password, CallBack)...;
                $("#loadingScreen").hide();
                                                                                      续调用的时候会执
                                                                                                           MesClient. prototype. Logout = function (CallBack)...;
                $("#wrapper").hide();
                                                                                        行onopen方法
                                                                                                            MesClient.prototype.CheckToken = function (CallBack)...;
                                                                                                            MesClient. prototype. GetPermission = function (CallBack)...;
                                                                                      登录系统时,当
                                                                                                           MesClient./prototype.GetMenu = function (CallBack)...;
         client.GetBUList(function (e)...);
                                                                                      websocket连接建立
                                                                                                            this. Init({ ServerIP: $.MES. SOCKET_SERVERIP, Port: $.MES. SOCKET_SERVERPO
         client. GetLanguageList (function (event)...);
                                                                                      后,会执行onopen
                                                                                      方法
 } catch (e) {
     swal ("Connetion Fail", e. Message, "error");
                                                                                       this. Init({
 };
                                                                                          ServerIP: $.MES. SOCKET SERVERIP, Port: $.MES. SOCKET SERVERPORT, ServiceName: $.MES. SOCKET SERVICE,
                                                                                          OnOpen: this. OnOpen
         MesClient. prototype. Init = function (obj)-{-
            if (this.ClientID == "") ...
                                                                                       }):
            if (obj. ServerIP && obj. Port && obj. ServiceName) ...
            if (obj. OnMessage) {
                this.websocket.onmessage = obj.OnMessage;
                                                                                                                          MesClient.UI.js
                                                                                                               |var MesClientUI = function (client) {
            else ...
                                                                                                                   this.client = client;
            if (obj. OnOpen) {
                                                                                                                   MesClientUI.prototype.SetLanguage = function (Page_Name)...;
                this. websocket. onopen = function (e) {
                                                                                                                   MesClientUI. prototype. MenuRezise = function ()...;
                    if ($. MES. DEBUG) {
                                                                                                                   MesClientUI.prototype.Menu = function (c) ... |;
                        console.log("onOpen:connetion open");
                                                                                                                   MesClientUI. prototype. MenuModify = function (c) ...;
                                                                                                                   MesClientUI. prototype. QuickStart = function (o) ...;
                    var tc = MesClient.prototype.ThisClient[this.ClientID];
                    tc. IsOpen = true;
                    obj. OnOpen(e);
                                                                                      登录完成后,获取了BU和语言列表信息。
            else {
                                                                                      后续的操作都是基础MESAPIBASE进行调用
                this. websocket. onopen = function (e) {
                    var tc = MesClient.prototype.ThisClient[this.ClientID]:
                                                                                      分为MESAPIBASE的调用的方法CallFunction和基
                                                                                      础这个在工站上面定义的SendData方法。
                                                                                                                         登录的时候,与服务器建立websocket连接(websocket是长连接)
Shipout TJ.html
                以shipout工站交互为例
                                                                                                                         在shipout TJ.html与后台交互的过程中使用的是前面建立好的client
                                            lvar MesStation = function (o) {
                                                                                                                         创建MESStation对象。初始化一些参数。定义并绑定一些方法。
    Client: Client, Client = self.parent.client;
 option = {
                                                                                MesClient.station.js
                                                 this. Name = o. Name;
                                                                                                                         在输入框回车的时候触发监听,执行逻辑
                                                 this. StationName = o. StationName;
    Line: line,
     Name: stationName,
                                                 this. OnInit = o. Init:
```

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wesstation.prøtotype.inputiskepeat - raise,/∻inputiskepeat∈wex
     OContainer: $("#outputsite")
                                                      MesStation, prototype.constructor = MesStation;
     MContainer: $("#messagesite"),
                                                      MesStation. prototype. MyName = function ()...;
    MessageShowType: undefined,
                                                      MesStation.prototype.StationList = {};
     Init: function (d) -{
                                                      MesStation. prototype. Init = function ()...;
        var thisStation = new ShipOutStation(this);
        this. ShowInput (...);
                                                             MesStation.prototype.InitCallBack = function (d)...;
        if (d. Status == "Pass") ...
                                                      MesStation.prototype.ShowInputs = function (Container)...;
        else ...
                                                      MesStation, prototype. ShowQutput = function (obj)....
        resize();
                                                      MesStation. prototype. ShowOutputs = function (Container)
                                                      MesStation.prototype.ShowMessage = function (Container)
 };
                                                      MesStation.prototype.SendData = function ()...;
                                                      MesStation. prototype. CallBack = function (d) ...;
                                                      console. log("----begin to init-----");
                                                                                                                                      MesClient.is
                                                      this. Init():
  station = new MesStation(option);
                                                                                           MesClient.prototype.CallFunction = function (ClassName, FunctionName, Data, CallBack, MessageID) {
                                                                                               MessageID = MessageID ? MessageID : ("MSGID" + parseInt(Math.random() * 99).toString() + Date.now().toString());
                                                                                               if (CallBack != null && CallBack != undefined) {
                                                                                                  $. subscribe (MessageID, function (e, d)
MesStation. prototype. Init = function ()
                                                                                                      CallBack(d);
    if (this. Line == "Line1") {
                                                                                                  }):
        var line = localStorage.getItem($.MES.CK_LINE_NAME);
        if (line == undefined | line == null | line == "")
                                                                                               var data = { Token: this, Token, ClientID: this. ClientID, MessageID: MessageID, Class: ClassName, Function: Function
        else {
                                                                                               if (this, websocket, readvState == 1) {
             if (this. BeforeInit != undefined)
                                                                                                   var jsonStr = JSON.stringify(data);
             this. Line = line:
                                                                                                   if ($.MES. DEBUG) {
             MesStation. prototype. StationList = {};
                                                                                                      console. log("Send>_" + jsonStr);
             var MessageID = "MSGID" + parseInt(Math.random() * 99).toString() + Date
             this. ListenStationData (MessageID):
                                                                                                   this.websocket.send(jsonStr);
             this. Client. CallFunction (this. InitClassName, this. InitFunctionName)
                                                                                               } else {
                 , { DisplayStationName: this. Name, Line: this. Line }, this. InitCall
                                                                                                   console. log("Error> WebSocket not ready, State:" + this. websocket.readyState);
    else
                                                                  StationList存放的是key值为messageID的MESStation json对象
    MesStation.prototype.InitCallBack = function (d) {
        var station = MesStation.prototype.StationList[d.MessageID];
        delete MesStation.prototype.StationList[d.MessageID];
                                                                              |var StationInput = function (obj) {
        if (d. Status == "Pass") {
                                                                                   this. ID = obj. ID;
             station. CurrentInputJson = null;
                                                                                   this. Name = obj. Name;
             station. StationJson = d. Data. Station;
                                                                                   this. MessageID = obj. MessageID;
             station. Name = d. Data. Station. DisplayName;
                                                                                   StationInput. prototype. constructor = StationInput
             station. StationName = d. Data. Station. StationName;
                                                                                   StationInput. prototype. Show = function (obj)...
             if (d. Data. Station. FailStation) ...
                                                                                   StationInput. prototype. ClearValue = function ()...
             for (var i = 0; i < d. Data. Station. Inputs. length; i++)
                                                                                   StationInput. prototype. SetFocus = function ()...
                 if (i == 0) {
                                                                                   StationInput. prototype. SetEnable = function (flag)
                     station. CurrentInputJson = d. Data. Station. Inputs[i];
                                                                                   StationInput, prototype, SetVisable = function (flag)...
                                                                                   StationInput. prototype. Remove = function () ...;
                 var ip = new StationInput(d. Data. Station. Inputs[i]);
                 station. Inputs. push (ip);
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MesStation.prototype.ShowInput = function (obj) {
          if (this.ScanType == "Pass") {
              for (var i = 0; i < this. Inputs. length; i++) {
                                                                                                         工站调用后台逻辑,调用SendData
                   if (this. Inputs[i]. DisplayName == obj. InputName) {
                                                                                                         如果是基础配置页面是直接调用的callFunction
                       obj. Container. find ("button"). unbind ("click"):
                       obj. Container. find("input:radio"). unbind("click");
                                                                                                    MesStation, prototype. SendData = function () {
                       obj. Container. find ("input. form-control"). unbind ("keypress");
                                                                                                        var MessageID = "MSGLD" + parseInt(Math.random() * 99).toString() + Date.now().toString();
                       obj. Container. find ("select. form-control"). unbind ("change");
                                                                                                        //for (var i = 0; i < this. Inputs. length; i++) {
                       this. Inputs[i]. Remove();
                                                                                                        // this.Inputs[i].SetEnable(false);
                       this. Inputs[i]. Show({ Client: this. Client, Container: obj. Container,
                       this. Inputs[i]. SetEnable():
                       this. Inputs[i]. SetVisable();
                                                                                                        this. ListenStationData(MessageID):
                       obj. Container. find ("button"). bind ("click", { Station: this }, function
                                                                                                        this. Client. CallFunction (this. InputClassName, this. InputFunctionName, { Station: this. StationJson, Input: this. Cur
                       obj. Container. find ("input:radio"). bind ("click", { Station: this }, for
                       obj. Container. find ("input. form-control"). bind ("keypress", { Station:
                           if (event.keyCode == 13) {
                               event. data. Station. SetInputValue (this. name, this. value);
                               event. data. Station. SendData();
  protected override void OnMessage (MessageEventArgs e)
                                                                                                           public class CallStation: MESPubLab. MESStation. MesAPIBase
   Newtonsoft. Json. Linq. JObject Request = (Newtonsoft. Json. Linq. JObject) Newtonsoft Json. JsonCom
                                                                                                       public void StationInput (Newtonsoft. Json. Ling. JObject requestValue, Newtonsoft. Json. Ling. JObject
    string CLASS = Request["Class"]. ToString();
    string FUNCTION = Request["Function"].ToString();
                                                                                                           string DisplayName = Data["Station"]["DisplayName"]?.ToString();
    string TOKEN = Request["Token"].ToString();
                                                                                                           string Token = requestValue["Token"]?. ToString();
    string MsgID = Request["MessageID"]?. ToString()
                                                                                                           JToken RCurrInput = Data["Input"];
    string ClientID = Request["ClientID"]?. ToString();
                                                                                                           MESStationInput CurrInput = null;
    Request. Add ("IP", Newtonsoft. Json. Ling. Token. Parse ("{Value:\""+this. ClientIP +"\"}"));
                                                                                                           OleExec SFCDB = this. DBPools["SFCDB"], Borrow():
                                                                                                           OleExec APDB = this. DBPools["APDB"]. Borrow();
     Function. Invoke (API_CLASS, new object[] { Request, Request["Data"], StationReturn });
                                                                                                           //將工站返回的值加載入工站模型中
                                                                                                           MESStationBase Station = null:
                                                                                                             (StationPool.ContainsKey(Token + DisplayName))
for (int i = 0: i < RunActionSEQ. Length: i++)
   List<StationAction> A = InputActions;
                                                                                                               Station = StationPool[Token + DisplayName];
    actions = A.FindAll(t => t.ConfigType == RunActionSEQ[i]);
    for (int j = 0; j < actions.Count; j++)</pre>
                                                                                                             ation.StationMessages.Clear();
                                                                                                             ation.NextInput = null;
        DateTime start = DateTime.Now;
        if (CheckRun(A, j, actions[j].CActionID))
                                                                                                             ation. SFCDB = SFCDB:
                                                                                                             ation.APDB = APDB:
                actions[j]. Run(Station, this);
                                                                                                                               CurrInput. Run();
            catch (Exception el)
                 throw new Exception(actions[j].ActionName + ":" + el.Message);
        TimeSpan RunTime = DateTime.Now - start:
        StrActionRunTime += actions[j]. ActionName + ": " + RunTime. TotalSeconds. ToString() + "\r\n";
```