

# PC 端 Web SDK 原生接口说明文档 V4.0.6

## 文档修改记录

序号	版本号	修改内容	修改者	修改日期
1	v3.1.2	<ul style="list-style-type: none"><li>• 文档建立</li></ul>	周功成	2021/4/7
2	v3.1.4	<ul style="list-style-type: none"><li>• 更新 3.1.4 内容</li></ul>	石坤	2021/11/15
3	v3.1.8	<ul style="list-style-type: none"><li>• 兼容新机型</li><li>• 修复旋转后裁切异常 bug</li></ul>	石坤	2022/8/8
4	v3.1.8	更新接口封装	张彬	2023/6/7
5	v3.2.1	<ul style="list-style-type: none"><li>• 支持 K3 及 K3W 机型</li><li>• 增加 WIFI 相关接口</li></ul>	张彬	2023/10/12
6	v3.2.2	<ul style="list-style-type: none"><li>• 支持 M2 机型</li><li>• 增加 M2 相关说明</li></ul>	张彬	2023/10/30
7	v3.2.5	<ul style="list-style-type: none"><li>• 支持 B3S_P 机型</li><li>• 支持 B21S 机型</li><li>• 支持 B31 机型</li><li>• 更新图像库</li></ul>	张彬	2024/9/12
8	v4.0.3	<ul style="list-style-type: none"><li>• 支持 M3、K2、B21Pro 系列机型</li><li>• 完善错误码</li><li>• 新增绘制带 logo 二维码接口</li></ul>	张彬	2025/4/29

		<ul style="list-style-type: none"> <li>• 提高 Websocket 通 讯速度 5.Demo 支持黑标间隙纸</li> </ul>		
9	v4.0.6	<ul style="list-style-type: none"> <li>• 新增 closePrinter接 口</li> <li>• 修复Wifi搜索接 口BUG</li> <li>• 修复历史遗留 WIFI连接BUG</li> </ul>	张彬	2025/9/13

## DEMO 目录结构

### 代码块

```

1  Demo/
2   └── drawParameter/          # 绘制接口JSON参数的示例数据
3   └── img/                   # 测试图片
4   └── js/                    # DEMO引用JS
5     └── api/                 # 存放接口文件的文件夹
6       └── jcPrinterSdk_api_third.js  # 接口文件
7     └── printData/            # 存放打印数据的文件夹
8       ├── text.js             # 文本打印及预览示例数据
9       ├── barcode.js          # 一维码打印及预览示例数据
10      ├── qrCode.js           # 二维码打印及预览示例数据
11      ├── line.js              # 线条打印及预览示例数据
12      ├── graph.js             # 图形打印及预览示例数据
13      ├── img.js               # 图片打印及预览示例数据
14      ├── combination.js       # 组合打印及预览示例数据
15      ├── batch.js              # 批量打印及预览示例数据
16      ├── fixed_asset.js        # 固定资产及预览示例数据
17      └── inspection_testing.js # 检验检测打印及预览示例数据
18        └── warehousing_manufacturing.js  # 仓储物流打印及预览示例数据
19        └── iJcPrinterSdk_third.js    # 接口调用示例
20   └── index.css                # 示例DEMO页面样式
21   └── index.html               # 示例DEMO页面html代码

```

## 产品目的

JCAPI 接口为调用者提供易用的方法完成标签绘图、打印操作。本接口中提供了标贴的绘制方法，包括：文字、一维码、二维码，图形、线条、图像绘制，同时还能进行绘制对象的旋转，调用者还可以调用方法获得绘制完成的标签图片用于标签预览，打印。方便用户在二次开发中调用接口，缩短开发周期，加快开发

## 打印机支持

支持打印机型号
B1
B203
B21 /B21_Pro/B21S
B3S / B3S_P
B31
B4
B11
K2
K3/K3W
B50/B50W
B32/Z401/B32R
M2
M3

## 准备工作

- 安装精臣打印服务 (jcPrinterSdk.exe)
  - 前置：关闭杀毒软件（如 360，易误报）
  - 关键：**必须默认路径安装（C 盘）**
  - 注意：勿禁用服务开机启动

- 安装对应机型驱动

机型系列	系统要求
B50/B11	Win7/10/11 均需装驱动
其他机型	Win10/11 无需装，仅 Win7 需装

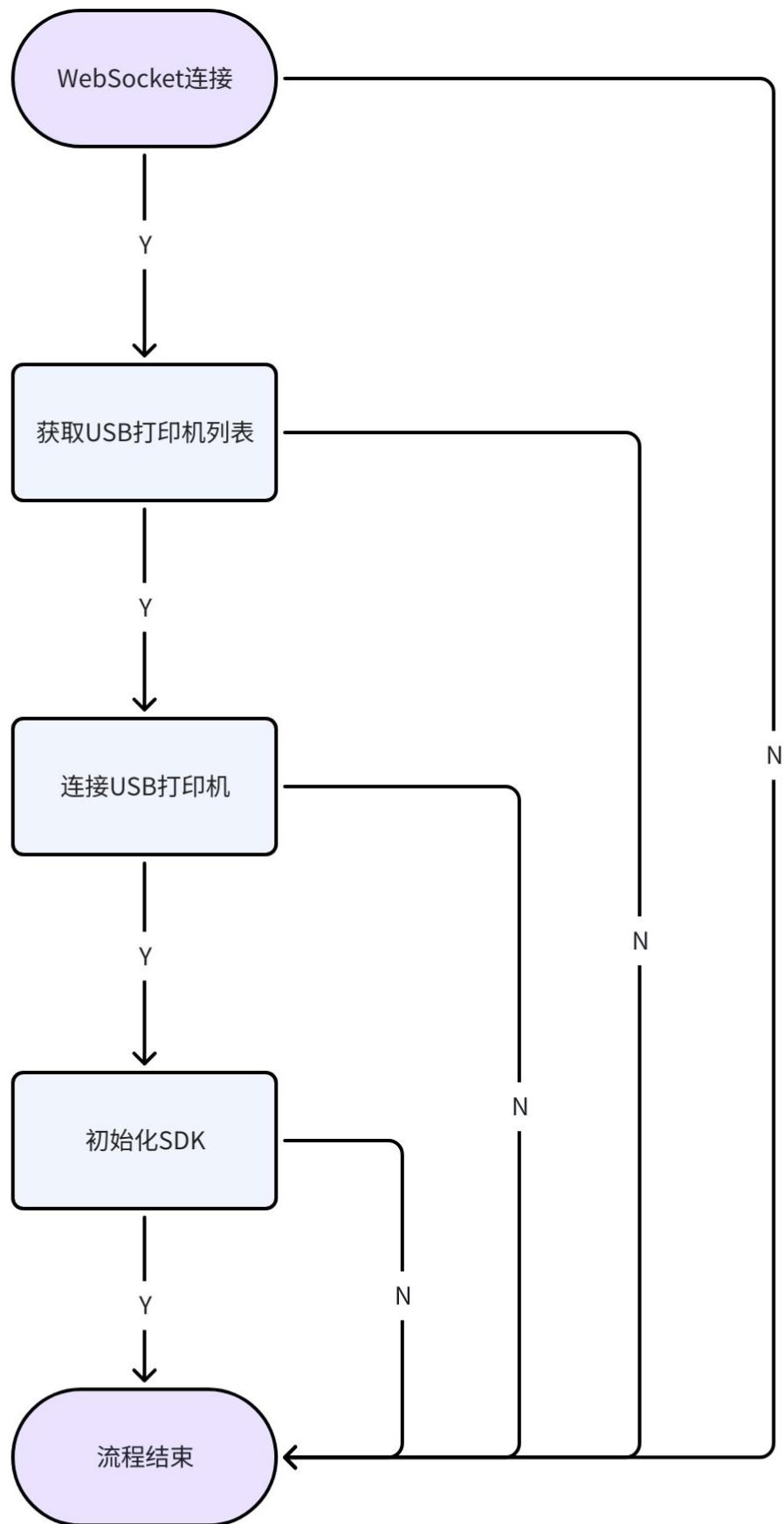
- 设备连接（2 种方式，不支持蓝牙）
  - USB 连接
    - 系统：仅支持 Windows
    - 驱动：可能需装（参考第 2 步）
    - 特别：\*\*不支持驱动打印\*\*（已用驱动打印需下载专用驱动）
  - WIFI 连接
    - 机型：仅支持 K3W 机型
    - 系统：仅支持 Windows
    - 驱动：无需安装

## 一、初始化及打印调用流程、打印流程

### 1.1 初始化流程

#### 1.1.1 USB 打印初始化流程

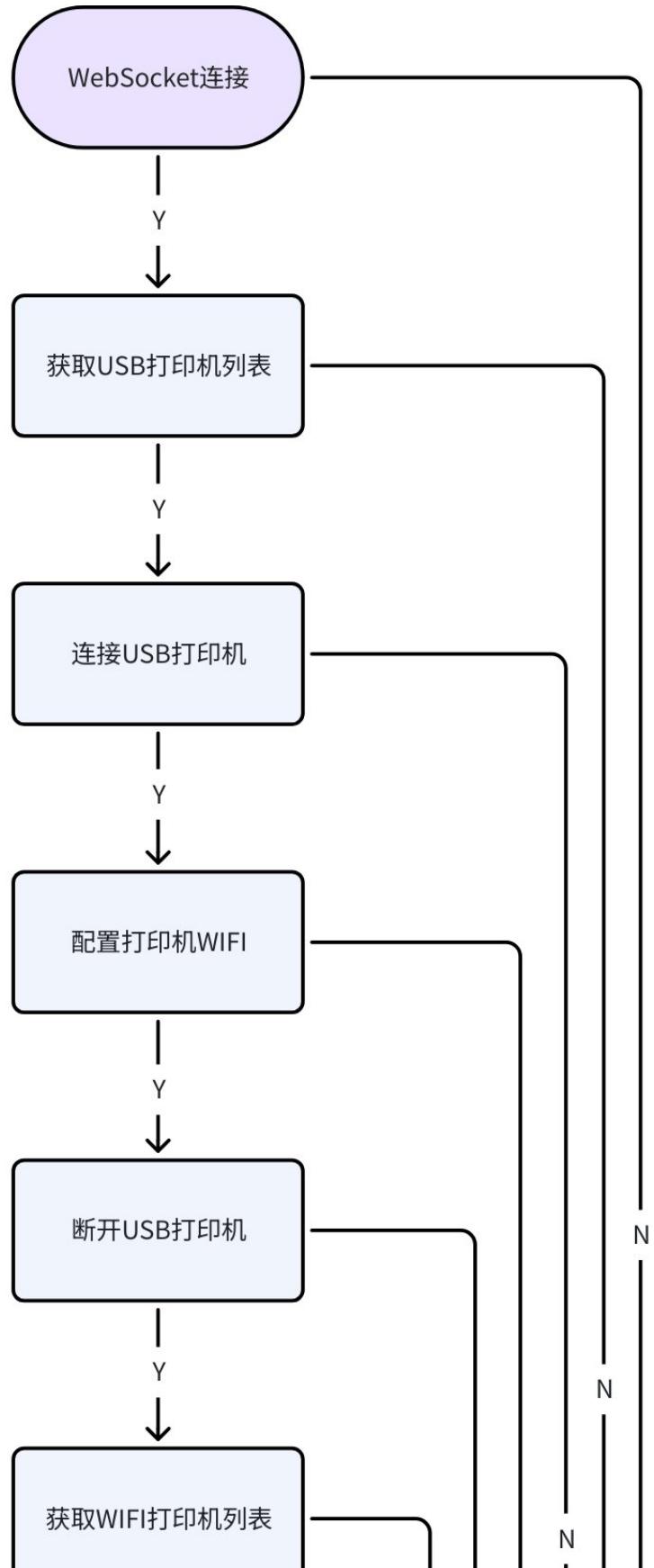
- WebSocket 建议页面加载时进行初始化，在 WebSocket 初始成功后回调中进行获取打印机、选择打印机、初始化 SDK 等操作
- 因为所有接口均为异步操作，调用下一接口需要在当前接口回调中执行
- 记录打印机列表获取状态、连接状态、初始化状态，打印机需要检查对应的状态

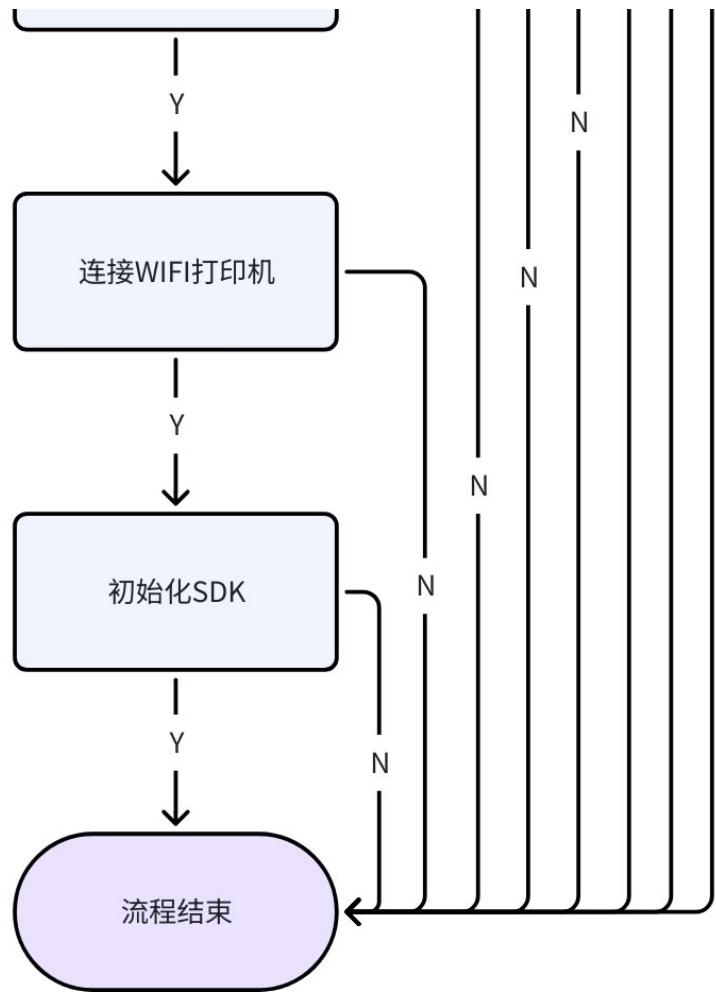


### 1.1.2 WIFI 打印初始化流程

- WebSocket 建议页面加载时进行初始化，在 WebSocket 初始成功后回调中进行获取打印机、选择打印机、初始化 SDK 等操作

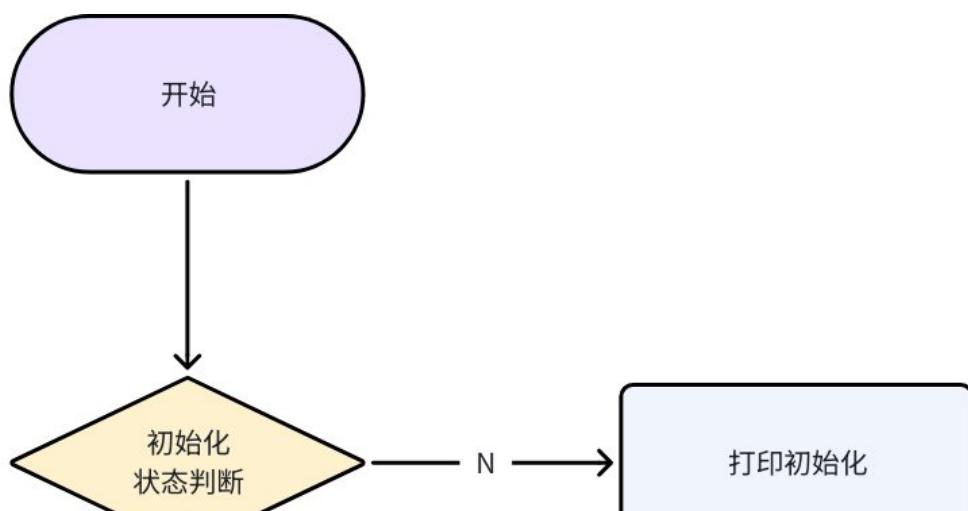
- 因为所有接口均为异步操作，调用下一接口需要在当前接口回调中执行
- 记录打印机列表获取状态、连接状态、初始化状态，打印机需要检查对应的状态
- 打印机 WIFI 配置成功后，后续直接搜索连接，无需多次进行配置（省略 USB 打印机获取、打印机连接、打印机网络配置）

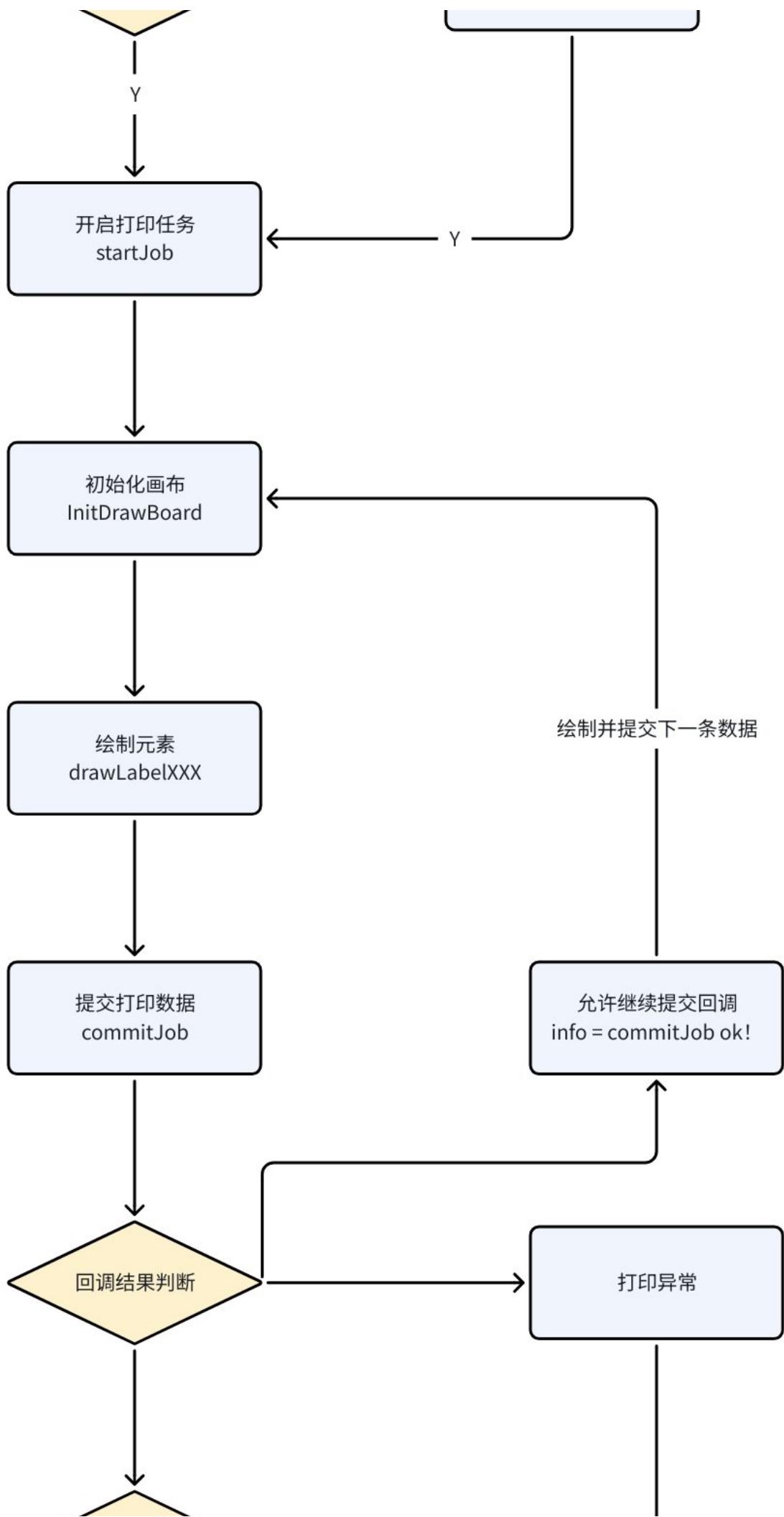


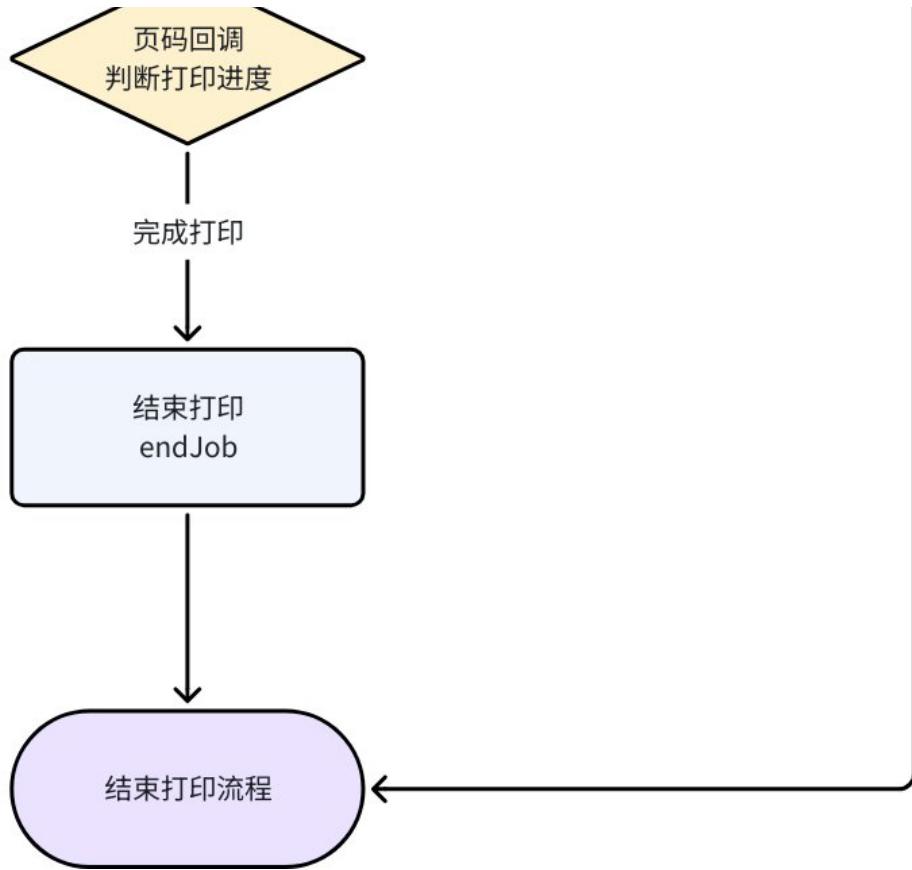


## 1.2 打印流程

- 打印前建议判断 WebSocket 是否初始化成功、SDK 是否初始化成功（包含初始化 SDK，获取打印机、选择打印机三个流程）
- 因为所有接口均为异步操作，除 WebSocket 初始化调用是在单独的回调接口中判断是否初始化成功外，其他接口应在回调中解析数据进行判断后再进行下一接口调用
- commitJob 会有多种回调，包含异常取消、页码回调、提交成功回调，可参考流程图及 DEMO 进行处理







- 流程注意事项：

- 默认初始化检查不通过发起初始化必定成功，开启任务，绘制过程成功（异常状态多为参数问题和打印机问题，参数问题开发阶段可以完全解决）

## 二、页面初始化相关接口

### 2.1 初始化打印服务

#### 代码块

```

1  /**
2   * 初始化打印服务，连接打印服务
3   *
4   * @param {function} onServiceConnected - 当打印服务连接建立时调用的回调函数。
5   * @param {function} onNotSupportedService - 当打印服务服务不支持时调用的回调函数。
6   * @param {function} onServiceDisconnected - 当打印服务连接断开时调用的回调函数。
7   * @param {function} onPrinterDisConnect - 当打印机离线时调用的回调函数。
8   * @return {undefined} 该函数没有返回值。
9   *
10  * @description
11  * 1. 所有接口的调用前提是先调用该接口进行打印服务连接。
12  * 2. 调用成功后会停止初始化打印服务，如果未调用成功，会间隔3秒调用一次，直到成功连接为止。
13  * 3. 建议在页面加载时调用该接口，回调成功后依次调用初始化SDK、获取打印机、选择打印机等接口。

```

```
14     */
15     function getInstance(onServiceConnected, onNotSupportedService,
16                           onServiceDisconnected, onPrinterDisConnect)
```

#### 代码块

```
1 //页面加载时调用
2 getInstance(() => {
3     console.log('打印服务连接成功');
4 }, () => {
5     console.log('当前浏览器不支持打印服务');
6 }, () => {
7     console.log('打印服务连接断开');
8 }, () => {
9     console.log('打印离线');
10});
```

## 2.2 初始化 SDK initSdk

#### 代码块

```
1 /**
2  * 初始化SDK，在打印服务连接成功后调用此接口。
3  * 在调用SDK的绘制接口之前，必须先调用此接口。
4  *
5  * @param {object} json - 包含必要参数的JSON对象，格式如下：
6  * {
7  *   "fontDir": string, //字体文件目录，默认为""，暂不生效
8  * }
9  * @param {function} callbackFunction - 发送消息后执行的回调函数。
10 * @return {undefined} 该函数没有返回值。
11 */
12 function initSdk(json, callbackFunction)
```

#### 代码块

```
1 //初始化SDK参数JSON
2 {
3     "fontDir": ""
4 }
5 //初始化成功返回JSON
6 {
7     "apiName": "initSdk",
8     "resultAck": {
9         "errorCode": 0,
```

```

10         "info": "initSdkApi ok!",
11         "result": 0
12     }
13 }
14
15
16 //调用流程
17 var initSdkParam = {
18     "fontDir": ""
19 };
20
21 //进行初始化
22 initSdk(initSdkParam, function (error, data) {
23     //通讯超时或websocket打印服务异常
24     if (error) {
25         return alert(error.message);
26     }
27     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
28     //判断错误码
29     if (errorCode === 0) {
30         console.log('初始化成功');
31     } else {
32         console.log('初始化失败');
33     //提示错误信息
34         return alert(info);
35     }
36
37     //初始化成功进行下一步操作
38
39 });

```

## 2.3 获取 USB 连接的打印机列表 getAllPrinters

### 代码块

```

1 /**
2  * 获取所有打印机信息。
3 *
4  * @param {function} callbackFunction - 获取信息后执行的回调函数。
5  * @return {undefined} 该函数没有返回值。
6 *
7  * @description
8  * 需要在打印服务连接成功后调用此函数，建议在打印服务连接成功的回调函数中调用。
9  * 注意：此函数只能获取 USB连接的打印机列表。
10 */
11 function getAllPrinters(callbackFunction)

```

## 代码块

```
1  {
2      "apiName": "getAllPrinters",
3      "resultAck": {
4          "errorCode": 0,
5          "info": "{\"e623012991\": \"31\"}","//打印机名称及类型
6          "result": "true"
7      }
8  }
9
10
11 //调用流程
12 getAllPrinters(function (error, data) {
13     //通讯超时或websocket打印服务异常
14     if (error) {
15         return alert(error.message);
16     }
17
18     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
19     //获取失败退出
20     if (errorCode !== 0) {
21         return;
22     } else {
23         //获取成功解析数据，数据包含序列号及端口
24         allPrinters = JSON.parse(info)
25         let allPrintersName = Object.keys(allPrinters);
26         let allPrintersValue = Object.values(allPrinters);
27     }
28 });

});
```

## 2.4 获取 WIFI 连接的打印机列表 scanWifiPrinter

### 代码块

```
1  /**
2   * 搜索WIFI打印机
3   *
4   * @param {function} callbackFunction - 获取信息后执行的回调函数。
5   * @return {undefined} 该函数没有返回值。
6   *
7   * @description
8   * 需要在打印服务连接成功后调用此函数，建议在打印服务连接成功的回调函数中调用。
9   */
```

```
10 function scanWifiPrinter(callbackFunction) {
11     //刷新设备时，关闭设备
12     //closePrinter();
13     var jsonObj = { apiName: 'scanWifiPrinter' };
14
15     sendMsg(jsonObj, callbackFunction);
16 }
```

## 代码块

```
1    //返回结果
2    {
3        "apiName": "scanWifiPrinter",
4        "resultAck": {
5            "errorCode": 0,
6            "info": "[{
7                "deviceName": "K3W-E828013369",
8                    "IP": "192.168.1.10",
9                    "tcpPort": "9200",
10                   "availableClient": "0"
11            }],
12            "result": "true"
13        }
14    }
15
16
17 //调用流程
18 scanWifiPrinter(function (error, data) {
19     //通讯超时或websocket打印服务异常
20     if (error) {
21         return alert(error.message);
22     }
23
24     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
25     //获取失败退出
26     if (errorCode !== 0) {
27         return;
28     } else {
29
30         let deviceAndPortArray = info.map(function(item) {
31             return {
32                 deviceName: item.deviceName,
33                 tcpPort: item.tcpPort
34             };
35         });
36     }
}
```

```
37});
```

## 2.5 连接 USB 打印机列表中的打印机 selectPrinter

### 代码块

```
1  /**
2   * 发送消息以选择打印机。
3   *
4   * @param {string} printerName - 打印机名称。
5   * @param {number} port - 端口号。
6   * @param {function} callbackFunction - 消息发送后的回调函数。
7   * @return {undefined} 无返回值。
8   *
9   * @description
10  * 需要在打印服务连接成功后调用此函数，建议在getAllPrinters调用成功的回调接口中调用该接口，保证传入的打印机名称和端口的打印机状态正常。
11  * 注意：此函数仅能连接 USB 打印机列表中的打印机。
12  */
13 function selectPrinter(printerName, port, callbackFunction)
```

### 代码块

```
1 //返回数据示例
2 {
3     "apiName": "selectPrinter",
4     "resultAck": {
5         "callback": {
6             "name": "onConnectSuccess",
7             "printerName": "e623012991"
8         },
9         "errorCode": 0,
10        "info": "select printer ok!",
11        "result": true
12    }
13 }
14
15 selectPrinter("e623012991", 31, function (error, data) {
16     //通讯超时或websocket打印服务异常
17     if (error) {
18         return alert(error.message);
19     }
20
21     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
22     var arrParse = JSON.parse(JSON.stringify(data));
23     //选择失败退出
```

```
24     if (errorCode !== 0) {
25         return;
26     } else {
27         //选择成功，打印机连接成功
28     }
29});
```

## 2.6 连接 WIFI 打印机列表中的打印机 connectWifiPrinter

### 代码块

```
1  /**
2   * 发送消息以选择打印机。
3   *
4   * @param {string} printerName - 打印机名称。
5   * @param {number} port - 端口号。
6   * @param {function} callbackFunction - 消息发送后的回调函数。
7   * @return {undefined} 无返回值。
8   *
9   * @description
10  * 需要在打印服务连接成功后调用此函数，建议在scanWifiPrinter调用成功的回调接口中调用该接口，保证传入的打印机名称和端口的打印机状态正常。
11  * 注意：此函数仅能连接 WIFI 打印机列表中的打印机。
12  */
13 function connectWifiPrinter(printerName, port, callbackFunction)
```

### 代码块

```
1  //示例返回成功数据
2  {
3      "apiName": "selectPrinter",
4      "resultAck": {
5          "callback": {
6              "name": "onConnectSuccess",
7              "printerName": "e623012991"
8          },
9          "errorCode": 0,
10         "info": "select printer ok!",
11         "result": true
12     }
13 }
14 //示例返回失败数据
15 {
16     "apiName": "connectWifiPrinter",
17     "resultAck": {
18         "callback": {
```

```

19     "name":"onDisconnect",
20     "printerName":"K3_W-F612010061"
21 },
22 "errorCode":0,
23 "info":"success",
24 "result":false
25 }
26 }
27
28 connectWifiPrinter("K3W-E828013369", 9200, function (error, data) {
29     //通讯超时或websocket打印服务异常
30     if (error) {
31         return alert(error.message);
32     }
33     //此版文报存在问题，errorCode连接成功与连接失败一致，暂时先用result判断
34     const { result } = JSON.parse(JSON.stringify(data)).resultAck;
35
36     if (result) {
37         console.log('连接成功')
38     } else {
39         console.log('连接失败')
40     }
41 });

```

## 2.7 断开打印机连接 closePrinter

### 代码块

```

1 /**
2  * 发送消息以断开打印机。
3 *
4  * @param {function} callbackFunction - 消息发送后的回调函数。
5  * @return {undefined} 无返回值。
6 *
7  * @description
8  * 可以断开USB和WIFI连接的打印机
9 */
10 function closePrinter(callbackFunction) {
11     var jsonObj = {
12         apiName: 'closePrinter',
13     };
14     sendMsg(jsonObj, callbackFunction);
15 }

```

## 2.8 配置打印机的 WIFI 信息 configurationWifi

## 代码块

```
1  /**
2   * 配置打印机的wifi网络
3   *
4   * @param {string} wifiName - wifi网络的名称。
5   * @param {string} wifiPassword - wifi网络的密码。
6   * @param {function} callbackFunction - wifi配置完成后要调用的回调函数。
7   * @return {undefined} 此函数不返回任何值。
8   *
9   * @description
10  * 注意:仅支持2.4G频段网络，且需要在连接成功后配置。需在USB连接成功后配置
11  */
12 function configurationWifi(wifiName, wifiPassword, callbackFunction)
```

## 代码块

```
1 //示例返回数据
2 {
3     "apiName": "configurationWifi",
4     "resultAck": {
5         "errorCode": 0,
6         "info": "configuration wifi printer ok!",
7         "result": true
8     }
9 }
10
11 let name = document.getElementById('wifi_name');
12 let password = document.getElementById('wifi_password');
13 if(name.value.trim()!==""){
14     configurationWifi(name.value, password.value, function (error, data) {
15         if (error) {
16             return alert(error.message);
17         }
18
19         const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
20
21         if (errorCode === 0) {
22             return alert("网络配置成功，请断开USB线缆后使用WIFI搜索连接打印机（PC需要和打印机在同一网络）");
23         } else {
24             return alert(info);
25         }
26
27
28     });
}
```

```
29 }
```

## 2.9 获取打印机的 WIFI 相关配置 getWifiConfiguration

代码块

```
1  /**
2   * 获取打印机的wifi配置。
3   *
4   * @param {function} callbackFunction - 在获取WiFi配置后将调用的回调函数。
5   * @return {undefined} 此函数不返回任何值。
6   */
7  function getWifiConfiguration(callbackFunction)
```

代码块

```
1 //示例返回成功数据
2 {
3     "apiName":"getWifiConfiguration",
4     "resultAck":{
5         "errorCode":0,
6         "info":{
7             "\n\t\"wifiName\" : \"Test\"\n
8         },
9         "result":{
10            "\n\t\"wifiName\" : \"Test\"\n
11        }
12    }
13 }
14 //示例返回失败数据
15 {
16     "apiName":"getWifiConfiguration",
17     "resultAck":{
18         "errorCode":23,
19         "info":"select printer connect first!",
20         "result":false
21     }
22 }
23
24 getWifiConfiguration(function (error, data) {
25     if (error) {
26         return alert(error.message);
27     }
28 }
```

```
29     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
30
31     if (errorCode === 0) {
32         const infoObj = JSON.parse(info)
33
34         return alert("获取配置信息成功-Wifi名称为:" + infoObj.wifiName);
35     } else {
36         return alert(info);
37     }
38 );
```

## 三、打印机状态回调

### 3.1 上盖状态变化回调

代码块

```
1 /**
2  * 打印机上盖状态变化回调函数。
3  *
4  * @param {type} coverStatus - 打印机上盖状态, 0为上盖开启,1为上盖关闭
5  *
6 */
7 function onCoverStatusChange(coverStatus)
```

### 3.2 电量变化回调

代码块

```
1 /**
2  * 打印机电量变化回调函数。
3  *
4  * @param {type} powerLever - 电量等级, 取值范围1-4, 满格电为4
5  *
6 */
7 function onElectricityChange(powerLever)
```

## 四、绘制打印数据相关接口

### 4.1 创建画板 InitDrawingBoard

代码块

```
1 /**
```

```
2     * 初始化绘制画板
3
4     * @param {Object} json - 包含初始化绘制画板所需数据的JSON对象。格式如下:
5     *
6     *   "width": number, // 画板的宽度, 单位为mm
7     *   "height": number, // 画板的高度, 单位为mm
8     *   "rotate": number, // 画板的旋转角度, 仅支持0、90、180、270
9     *   "path": string, // 字体文件的路径, 默认为"", 暂不生效
10    *   "verticalShift": number, // 垂直偏移量, 暂不生效
11    *   "HorizontalShift": number // 水平偏移量, 暂不生效
12    *
13    * @param {Function} callbackFunction - 消息发送后要执行的回调函数。
14    * @return {undefined} 此函数不返回任何值。
15
16    * @description
17    * 增加接口说明:
18    * 1.在调用绘制接口之前, 必须先初始化SDK。
19    * 2.绘制元素前, 必须先初始化画板, 否则会引起崩溃!
20    * 3.初始化画板时会清空画板上次绘制的内容!
21    */
22 function InitDrawingBoard(json, callbackFunction)
```

## 代码块

```
1  {
2      "apiName": "InitDrawingBoard",
3      "resultAck": {
4          "errorCode": 0,
5          "info": "init draw board success!",
6          "result": 0
7      }
8  }
9
10
11 var InitDrawingBoardParam={
12     "width":48,
13     "height":30,
14     "rotate":0,
15     "path":"ZT001.ttf",
16     "verticalShift":0,
17     "HorizontalShift":0};
18
19 //SDK初始化成功后调用
20 InitDrawingBoard(InitDrawingBoardParam, function (error, data) {
```

```

21     //通讯超时或websocket打印服务异常
22     if (error) {
23         return alert(error.message);
24     }
25
26
27     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
28     //画布初始化失败，退出流程
29     if (errorCode !== 0) {
30         return
31     }
32
33     //画布初始化成功，进行控件绘制
34
35 });

```

## 4.2 绘制文本 DrawLabelText

### 代码块

```

1  /**
2   * 绘制标签文本。
3   * @param {object} json - 包含标签文本信息的JSON对象。
4   *   JSON格式要求如下：
5   *   - x: x轴坐标，单位mm
6   *   - y: y轴坐标，单位mm
7   *   - height: 文本高度，单位mm
8   *   - width: 文本宽度，单位mm
9   *   - value: 文本内容
10  *   - fontFamily: 字体名称，暂不生效，使用默认字体思源黑体
11  *   - rotate: 旋转角度, 0:0, 1:90, 2:180, 3:270
12  *   - fontSize: 字号，单位mm
13  *   - textAlignHorizontal: 水平对齐方式: 0:左对齐 1:居中对齐 2:右对齐
14  *   - textAlignVertical: 垂直对齐方式: 0:顶对齐 1:垂直居中 2:底对齐
15  *   - letterSpacing: 字母之间的标准间隔，单位mm
16  *   - lineSpacing: 行间距（倍距），默认1
17  *   - lineMode: 1:宽高固定，内容大小自适应，预设宽高过大时字号放大，预设宽高过小时字号
18  *     缩小,
19  *     保证内容占据满预设宽高（字号/字符间距/行间距 按比例缩放）
20  *     2:宽度固定，高度自适应
21  *     4:宽高固定,超出内容直裁切
22  *     6:宽高固定，内容超过预设的文本宽高自动缩放
23  *     建议设置为6
24  *   - fontStyle: 字体样式[加粗, 斜体, 下划线, 删除下划线（预留）]
25  *   @param {function} callbackFunction - 绘制完成后执行的回调函数。
*   @description 绘制标签文本前必须先初始化画板

```

```
26 */  
27 function DrawLabelText(json, callbackFunction)
```

## 代码块

```
1 //返回数据示例  
2 {  
3     "apiName": "DrawLabelText",  
4     "resultAck": {  
5         "errorCode": 0,  
6         "info": "draw bar code success!", //此处返回信息有误，下个版本修复  
7         "result": 0  
8     }  
9 }  
10  
11 var DrawLabelTextParam = {  
12     "x": 20.0,  
13     "y": 10.0,  
14     "height": 10,  
15     "width": 50,  
16     "value": "精臣SDK",  
17     "fontFamily": "宋体",  
18     "rotate": 0,  
19     "fontSize": 4.0,  
20     "textAlignHorizontal": 0,  
21     "textAlignVertical": 0,  
22     "letterSpacing": 1.0,  
23     "lineSpacing": 1.0,  
24     "lineMode": 0,  
25     "fontStyle": [false, false, false, false]  
26 }  
27  
28 DrawLabelText(DrawLabelTextParam, function (error, data) {  
29     //通讯超时或websocket打印服务异常  
30     if (error) {  
31         return alert(error.message);  
32     }  
33     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;  
34     //文本绘制失败，退出绘制  
35     if (errorCode !== 0) {  
36         return  
37     }  
38  
39     //进行下一步操作  
40});
```

## 4.3 一维码绘制 DrawLableBarcode

### 代码块

```
1  /**
2   * 绘制一维码条形码。
3   *
4   * @param {Object} json - 包含一维码条形码信息的JSON对象。格式如下：
5   *
6   * "x": number, // x轴坐标, 单位mm
7   * "y": number, // y轴坐标, 单位mm
8   * "height": number, // 一维码宽度, 单位mm
9   * "width": number, // 一维码高度, 单位mm (包含文本高度)
10  * "value": string, // 一维码内容
11  * "codeType": number, // 条码类型:
12  *                      // 20: CODE128
13  *                      // 21: UPC-A
14  *                      // 22: UPC-E
15  *                      // 23: EAN8
16  *                      // 24: EAN13
17  *                      // 25: CODE93
18  *                      // 26: CODE39
19  *                      // 27: CODEBAR
20  *                      // 28: ITF25
21  * "rotate": number, // 旋转角度, 0: 0, 1: 90, 2: 180, 3: 270
22  * "fontSize": number, // 文本字号, 单位mm, 字号为0则文本不显示
23  * "textHeight": number, // 文本高度, 单位mm, 高度为0则文本不显示
24  * "textPosition": number // 一维码文字识别码显示位置:
25  *                      // 0: 下方显示
26  *                      // 1: 上方显示
27  *                      // 2: 不显示
28  */
29  * @param {Function} callbackFunction - 消息发送后要执行的回调函数。
30  * @return {undefined} 此函数不返回任何值。
31  *
32  * @description
33  * 1. 绘制元素前, 必须先初始化画板
34  */
35  function DrawLableBarcode(json, callbackFunction)
```

### 代码块

```
1  //返回数据示例
2  {
3      "apiName": "DrawLableBarcode",
4      "resultAck": {
5          "errorCode": 0,
```

```

6             "info": "draw bar code success!",
7             "result": 0
8         }
9     }
10
11 var DrawLableBarcodeParam = {
12     "x": 20.0,
13     "y": 10.0,
14     "height": 10,
15     "width": 50,
16     "value": '12345678',
17     "codeType": 20,
18     "rotate": 0,
19     "fontSize": 4.0,
20     "textHeight": 0,
21     "textPosition": 0,
22 }
23
24 DrawLableBarcode(DrawLableBarcodeParam, function(error,data){
25     //通讯超时或websocket打印服务异常
26     if (error) {
27         return alert(error.message);
28     }
29     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
30     //一维码绘制失败，退出绘制
31     if (errorCode !== 0) {
32         return
33     }
34
35     //进行下一步操作
36 });

```

#### 4.4.1 二维码绘制 DrawLableQrCode

##### 代码块

```

1 /**
2  * 绘制二维码。
3 *
4  * @param {Object} json - 包含二维码信息的JSON对象。格式如下：
5  * {
6  *     "x": number, // x轴坐标，单位mm
7  *     "y": number, // y轴坐标，单位mm
8  *     "height": number, // 二维码高度，默认宽高一致
9  *     "width": number, // 二维码宽度，单位mm
10    "value": string, // 二维码内容

```

```

11     * "codeType": number, // 条码类型:
12     * // 31: QR_CODE
13     * // 32: PDF417
14     * // 33: DATA_MATRIX
15     * // 34: AZTEC
16     * "rotate": number, // 旋转角度, 仅支持0、90、180、270
17   *
18   * @param {Function} callbackFunction - 消息发送后要执行的回调函数。
19   * @return {undefined} 此函数不返回任何值。
20   *
21   * @description
22   * 1. 绘制元素前, 必须先初始化画板
23   */
24 function DrawLableQrCode(json, callbackFunction)

```

## 代码块

```

1  //返回数据示例
2  {
3      "apiName": "DrawLableQrCode",
4      "resultAck": {
5          "errorCode": 0,
6          "info": "draw qr code success!",
7          "result": 0
8      }
9  }
10
11 var DrawLableQrCodeParam = {
12     "x": 20.0,
13     "y": 10.0,
14     "height": 10,
15     "width": 10,
16     "value": "精臣SDK",
17     "rotate": 0,
18     "codeType": 31,
19 }
20
21 DrawLableQrCode(DrawLableQrCodeParam, function (error, data) {
22     //通讯超时或websocket打印服务异常
23     if (error) {
24         return alert(error.message);
25     }
26     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
27     //二维码绘制失败, 退出绘制
28     if (errorCode !== 0) {
29         return

```

```
30     }
31
32     //进行下一步操作
33 };
```

#### 4.4.2 二维码绘制 DrawLableQrCodeWithLogo

##### 代码块

```
1  /**
2   * 绘制带logo的二维码。
3   * @param {★} json - 包含二维码信息的JSON对象。格式如下:
4   *
5   *   "x": number, // x轴坐标, 单位mm
6   *   "y": number, // y轴坐标, 单位mm
7   *   "height": number, // 二维码高度, 默认宽高一致
8   *   "width": number, // 二维码宽度, 单位mm
9   *   "value": string, // 二维码内容
10  *   "codeType": number, // 条码类型:
11  *           // 31: QR_CODE
12  *           // 32: PDF417
13  *           // 33: DATA_MATRIX
14  *           // 34: AZTEC
15  *   "rotate": number, // 旋转角度, 仅支持0、90、180、270
16  *   "correctLevel": 2,//纠错级别, 取值范围1-4, 默认2
17  *   """/logoBase64": ": string, //logo的base64编码(不含数据头, 如
data:image/png;base64,)
18  *   """/logoPosition": ": 0, //logo的位置, 取值范围0-4, 默认0:居中, 3右下·
19  *   "logoScale": 0.25, //logo占据二维码的比例
20  *
21  * @param {★} callbackFunction
22  */
23 function DrawLableQrCodeWithLogo(json, callbackFunction)
```

#### 4.5 线条绘制 DrawLableLine

##### 代码块

```
1  /**
2   * 绘制线条。
3   *
4   * @param {Object} json - 包含线条信息的JSON对象。格式如下:
5   *
6   *   "x": number, // x轴坐标, 单位mm
7   *   "y": number, // y轴坐标, 单位mm
8   *   "height": number, // 线高, 单位mm
```

```

9   * "width": number, // 线宽, 单位mm
10  * "lineType": number, // 线条类型: 1:实线 2:虚线类型,虚实比例1:1
11  * "rotate": number, // 旋转角度, 仅支持0、90、180、270
12  * "dashwidth": number // 线条为虚线宽度, 【实线段长度, 空线段长度】
13 }
14 * @param {Function} callbackFunction - 消息发送后要执行的回调函数。
15 * @return {undefined} 此函数不返回任何值。
16 *
17 * @description
18 * 1. 绘制元素前, 必须先初始化画板
19 */
20 function DrawLableLine(json, callbackFunction)

```

## 代码块

```

1 //返回数据示例
2 {
3     "apiName": "DrawLableLine",
4     "resultAck": {
5         "errorCode": 0,
6         "info": "draw line success!",
7         "result": 0
8     }
9 }
10
11
12 var DrawLableLineParam = {
13     "x": 2.0,
14     "y": 2.0,
15     "height": 2,
16     "width": 50,
17     "rotate": 0,
18     "lineType": 2,
19     "dashwidth": [1,1],
20 }
21
22 DrawLableLine(DrawLableLineParam, function (error, data) {
23     //通讯超时或websocket打印服务异常
24     if (error) {
25         return alert(error.message);
26     }
27     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
28     //线条绘制失败, 退出绘制
29     if (errorCode !== 0) {
30         return
31     }

```

```
32
33     //进行下一步操作
34 };
```

## 4.6 绘制图形 DrawLableGraph

### 代码块

```
1  /**
2   * 绘制图形。
3   *
4   * @param {Object} json - 包含绘制图形信息的JSON对象。格式如下：
5   * {
6   *     "x": number, // x轴坐标, 单位mm
7   *     "y": number, // y轴坐标, 单位mm
8   *     "height": number, // 图形高度, 单位mm
9   *     "width": number, // 图形宽度, 单位mm
10  *     "rotate": number, // 旋转角度, 仅支持0、90、180、270
11  *     "cornerRadius": number, // 圆角半径, 单位mm, 暂不生效
12  *     "lineWidth": number, // 线宽, 单位mm
13  *     "lineType": number, // 线条类型: 1:实线 2:虚线类型,虚实比例1:1
14  *     "graphType": number, // 图形类型: 1:圆, 2:椭圆, 3:矩形 4:圆角矩形
15  *     "dashwidth": number // 线条为虚线宽度, 【实线段长度, 空线段长度】
16  * }
17  * @param {Function} callbackFunction - 消息发送后要执行的回调函数。
18  * @return {undefined} 此函数不返回任何值。
19  *
20  * @description
21  * 1. 绘制元素前, 必须先初始化画板
22  */
23 function DrawLableGraph(json, callbackFunction)
```

### 代码块

```
1  //返回数据示例
2  {
3      "apiName": "DrawLableGraph",
4      "resultAck": {
5          "errorCode": 0,
6          "info": "draw graph success!",
7          "result": 0
8      }
9  }
10
11 var DrawLableGraphParam = {
12     "x": 2.0,
```

```

13     "y": 5.0,
14     "height": 30,
15     "width": 40,
16     "rotate": 0,
17     "graphType": 3,
18     "cornerRadius": 0,
19     "lineWidth": 4,
20     "lineType": 2,
21     "dashwidth": [1,1],
22 }
23
24 DrawLableGraph(DrawLableGraphParam, function (error, data) {
25     //通讯超时或websocket打印服务异常
26     if (error) {
27         return alert(error.message);
28     }
29     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
30     //图形绘制失败，退出绘制
31     if (errorCode !== 0) {
32         return
33     }
34     //进行下一步操作
35 });

```

## 4.7 绘制图像 DrawLableImage

### 代码块

```

1 /**
2  * 绘制图片。
3 *
4  * @param {Object} json - 包含绘制图片信息的JSON对象。格式如下：
5  *
6  *   "x": number, // x轴坐标, 单位mm
7  *   "y": number, // y轴坐标, 单位mm
8  *   "height": number, // 图片高度, 单位mm
9  *   "width": number, // 图片宽度, 单位mm
10 *   "rotate": number, // 旋转角度, 仅支持0、90、180、270
11 *   "imageProcessingType": number, // 图像处理算法, 默认0
12 *   "imageProcessingValue": number, // 算法参数, 默认127
13 *   "imageData": number, // 图片base64数据, 不含数据头
14 *           // 如原始数据为“data:image/png;base64,iVBORw0KGgoAAAANSU”
15 *           // 传入的数据需要去除头部, 数据为, “iVBORw0KGgoAAAANSU”
16 *
17 * @param {Function} callbackFunction - 消息发送后要执行的回调函数。
18 * @return {undefined} 此函数不返回任何值。

```

```
19    *
20    * @description
21    * 增加接口说明:
22    * 1. 绘制元素前, 必须先初始化画板
23    */
24    function DrawLableImage(json, callbackFunction)
```

## 代码块

```
1 //返回数据示例
2 {
3     "apiName": "DrawLableImage",
4     "resultAck": {
5         "errorCode": 0,
6         "info": "draw image success!",
7         "result": 0
8     }
9 }
10
11 var DrawLableImageParam = {
12     "x": 2.0,
13     "y": 2.0,
14     "height": 10,
15     "width": 50,
16     "rotate": 0,
17     "imageProcessingType": 0,
18     "imageProcessingValue":127,
19
"imageData":"iVBORw0KGgoAAAANSUhEUgAAZAAAAACgCAYAAAisjrVAAAAAXNSR0IArs4c6QAAA
RnQU1BAACCxjwv8YQUAAAAGY0hSTQAAeiYAAICEAAD6AAAAG0gAAHUhAADqYAAA0pgAABdwnLpRPAAA
AlwSFlzAAA0xAADsQBLSsOGwAAROVJREFUeF7tnQmYFcW1gFtEde64Am5BIyhxe/jcRTQquBDc17gb
FfdEfUYlKu6JccWhKIoYiIIGNVEB81TcggsEFQFN3BWjKIIlaIIG+9V/pmuoqam+3ffevjPDzPm/r76
Z27e6urvvvXXqlHVqia+++ipeuPD7qF27JaM45m+7aIkllpCiKIqiKHEcS/n++++NbGhn/i40ssLIid
mzz8dLLdU+at9+qegHP/hBvQBRFEVRFIIsVIP/+97+j//znu2jevPnREvPnfx0vvfRS0VJLLZVUUxFU
ZR0vvvuu2jBgm9RONqp8FAURVFyY2XGEgsXfh9jy1pcWbhwoahW8+fPj/71r38Z1eo/Ih27d0kSLbPM
Mmq0UxRFqQHffPOvaAkz+MbJ6yDffvttNGrUqGj8+PHyyw8D9HLLScD0bYx29zSSy8txxnYGdBD907
d0zr66K0j1VZaqX6gf+yxx6L7778/mjt3rrQ3b948aRuJt9pqq0Vvv/12NHv2bLHfffnll/L+CiusIH
Xd69xzzz3R/vvvL0JEURRFKRYm7JkChIH5N7/5TTR8+HA5wYfBncEeVl11VXHCwdxdf CedOoJkxRVXD
GoCBx10UDRo0CARDPb9Sy+9NLr44otF+Ky++urRj3/8Y/kfofHkk0+KUNh5552lxbSMtdZaKxoxYkT0
2muvRUOHD01++MMfSjuKojQ/LcUC4A5zTz31VLTLrskrxqSMRw2Ik9bpeo0NeXeXylEHpgGq+aEE06
IBw8enLyqY/LkyXHHjh3jV199NTmSj+uuuy7eYYcdYqNpJEfqe00NN2Ijo0Jhw4YlRxZx4403xuYDio
0QSY4oitISM0NMs5ctt9wy6U0df/vb3xq8/4Mf/CBef/31G9XLg9/WUkstFZuJb402/DrNWYrkrm2++i
evUhRx89dVX0YwZMyIjEBqUv/71r9H7778fTzs2LXrhhRfqjz/zzD0igaA1TJkypcE5lA8//LDef+Gz
YMGc6NNPPxUzlQVzFXXRiCguaD2Y1zBn4QRFEXJC+PQ119/nbyqwwyOMm755fXXX09qhGGMYvxqMyB
J8jBy5MhG0qyasueee8YfffRRbD685Ap1oIHsuumu8fTp02MjDKjcTxp0qR4lVVWiW+++WaRfc6jRo
2K11577fiJJ56IjSBJjiqK0tyEfvtNXxzN4qmnngrWa9++fVIjjp977rlgnbXWWiupUUeadqEaiEeHD
```

h2i5ZdfXjQLc259Yda/7bbbRrfeemuD42Ywj1ZeeeXo2WefbXCcctFFF0XrrLN06qJFroPfI6/9dIMN  
NpAZxKxZsxp0LYqitDwYL/wxoYhiJqTJFUpD8E7ofDcIJ21pA37ZUthgnzzU6jlQ8j6LasktQBjMl1x  
ySYmqooMWBApqHQ5097it59dHxCQERXu+gMAMNwfOnPrILfe8UnTs2DHaZJNNon/+85/JEUVRWiq1Mj  
Nj9i4KxqkQBAS5bLbZZs1/i8g78a2lub3IZ1GK3ALEwk3bgf3555+Pjj32WImm6t0nT4MHhx2Qem6IL  
iCE0qKyaBtfCxoFdWxEVxZEYvXo0SMYqmJ9iK+iKC0Td2LIGMJYUGnp3Llz0lKxAzLjT8+ePRuUjTba  
SCbM7vWJBnVh4vvZZ58lr0rjT5CreRbuc4BaCieXsgUIAgDpf0edd0Y77LCDmLZOP/10MTu5MPgjDBA  
w/fv3l/Bbyr777hvddddjRzhwMBP+C9qoP/BII+bLPNNrKG5L333satuSiK0ry0b98++a88GCM23H  
DDaI011ki0FMvGG2/cyIH0+JIF/VpllvWSV+VR6b0AWj2HLMoWIkhGCIXjjz9e/rL+AjX01xY000CA6  
IEHHhDz0qRJkyRaizJx4kSxz4VURKK5kMLdunWTxI5I1jSYCeyxx4S5YXA2HvvvWXNyJgxY4LCSVGU  
lkdeK4MPE0xKmq+iFjAm5aHUuFWKSp8FN0VzcCm7xzibrvttuiNN96Ihg0bFi277LLJ043Zb7/9RCD  
g3EbwUDAxnXvuuueIk90HKsyiRmQWaThpI6q5du0rdm2++0fr8889FAh988MGymJCQYkVRWi+E2TIG1Q  
osGcccc0yDwoQ5C0xHdmF1W6BsAdKpUycZ/BnkKyVknrr55Zej8847Lzruu00inXbaqVED+xqNBmnLX  
7Qg0p7ccMMN4oAfMGCAmMhIjzJ9+nSpryhK6wNtYP31109eFc/HH38c/f73v29QHnnkkUaRU360ExNf  
ok/bCmULEPwdDNLWp1Fu4Vz8J9bMhLpHfqsjjzxSvhRIenwaPiw8JDrr/PPPj9Zee23Jf3XmmWdG662  
3nmhEL730kgiWgQMHSj1mC2+99VZytqIorQnPdWYfLJIC8X1/av+okHr1G4r5P4EGJRZDU6kE34M69  
0opDCwY9ZC3UMNRbBgliJnDH4M/4tBVAMzADQfpThf/OIXYg5DCGH2ImLif//3f+UY57MiHhX30EMPF  
cGSFpKnKMriCdF0mK6LILTq/MUXX0zebQhjoFuP8cyFQKA25YM1EjUX77zzTmwG8dgIKuRI5cyYMSM2  
Qqh+RbkZ+KWUgq13jRaSvGrI66+/LqvajUBKjsTxzJkz4y+++CJ5pShKc8AQ45ciVmmzatxMJn015a9  
E90lbdb7eeuvFw4cPry+DBg0K1n0LmfzGHTp0qKhflT4LSt62iqSleg4rY866qig87tcWL0x/fbb15  
uqWN2ZtcITkxXrPUIQn00ct0t4x8zFGhRFUVonRfka0iKYy0zt0tHJoJEFGkhzRUQ1B7UzIiqKomRgF  
7wRRWmLXe1d6hgTRLJfYFKqljSfBdGcrgBhPRum9lL9YpKLmb2SfvnPwrYN/jH72h4r4jlUQuZ+IErb  
AV8Ruc2IeCsVnq0oeQkNzltuuuaX4UoE0SEcccUQj5zTnlTrGX76vrEH7wx/+IMfwSz3f/+3/0/iXi9  
E2nkhsJpg8XDx+4oWQmqqlcvsVehb2+fnH3NeAVcdeD9Ku6Z9XDYxtB6K0Dj755J04d+/eYlv++9//nh  
wtDvPDis2sLt5vv/3Eb6W0fsw406hsfvXWybvFwp5Boev5/gGftPNCZdttt030yk+aP6JWzwHS7qlI8  
IE0iQbCGo0333wzU81ac801xcfyzjvvJEdKs+6664oqmxdmLIMHD4700ussido69dRTk3fyY2fooa1y  
89wns4cf/ehHjXw+zFpYC4NviHbcVa9uVEfe42gQLOIMJXvLggWgRLSRuqFITR7JEszedPIIMD0kkr  
rxs6gXZjB29ky71cTjsvwxfcKmMGzHMDHn+kTdUVdC9k080/mwW+L35qZbCWvFvWH1E7du3eXY2nagP  
scoJpn4T4HSHsWRQ73TaaBvPfeew2kYFphj5Azzwz+F6onHzyyckV8kPEhfmqYvOhJkfyQyYYYYcdJ  
tf+7W9/mxxdxMcffxwb1bVRP/1y2223JWcswnz4sgfK5ptvHt97773J0UYQdBorxMi4jju88orr8Rb  
bLFFvRYxZ84cea5G0NWxn/zkJ/Hee+8d77TTvXH2AmSnR3NF1t2f+zzs2f9e2awj/v37y/nufXP0ee  
csqLd5s6dK7u2FRHNp7R8Qt//pi6+BhKKumL3VDfqKi3iKk9bFHffkDQNpDlKkZQvhUNLPYz1ytZyJ  
1lBidZVX7hhRdGhxxxySLAexc4A3H2Gkb5//OMfRYqXKmbgkzaYSYTed8tDDz2UtF4HkWD33HNPNHbsW  
FmwyJ7sU6d0Td6NZLb0PicXXHBBoz5Tzs6cKe2GosN4H80D7Yt7Rx0zheRsxEy4nts/IuM4zvu2Ln0w  
wkPyitGebZuYeVbX2sI+LdwHKRvsMVbVch60QjQ7kmHa9/7xj3/I8yAHmT1GIf0+Mfl8fm7f0gp9pT4  
ztND7frnqqqvkhHs1KPwoKV7zmySS0zrM86QtAb8tfo9kyciKKm0tNIkji0uwVwcL/A488MDk6CIYhP  
/rv/5LUGUYLSS65pprovuu08EAqF0PldffXVknIBo3LhxkoUXuAYLDhkY06D0008/LfmzzjjjjKhXr  
17J041h8CKlCpEeaZA52A0l/N0f/iTmH/r3P//zP8nRRWASwnzD39122y052pBPPvlETHlpG01ChB8R  
G/QxDUxQRGikwUKpfv36iXqNKTCLxx9/PNp9991l4RRZmH1QmV2zgAv9RGAGhMhkYBkxYoRErIgqHID  
zUP0RysriSanvaFOByRjTssU3KWH+RXgwubGTU34fpC3x8dsK1WM5AZM7Wy+treagy0Ge322TCRCEBx  
lzbQRDDa3Fe8NGTIkMmqjZ09l5ssgj3bBjPenP/2p1APqMuPFXsmHzup0tIjy+P0f/yyzZdrea6+9k  
q0l8X0b/CgQbHzpWKHPandmyo8++mh0zjnnRL/73e+kngt9Z3ZP330hh1AgZPDkk08WgYRdFTttCGbv  
F04/zV7Ke0SL4K9BuJ5pQ8fvn20D0Slfug8cz47PpuRI0cGU81kgTZDG9ttt1107bXXRr/85S+jDz7  
4QCYKsuoFyU5zQ2r2rAglfkMyq0AYTJERJSP31aoHr5Wnworra3mgHsviaPwnr33XfFto4d3bJgwY  
L4Zz/7Wfzzn/9cbPz4AqhnPuD4oosuSmotwkhzseVdeumlUrdcnn/++djMEMrygRjtSa7pFqNjir0fm  
74Zi0Pu3bvHZnaenFEafBTjx4+PjcCmjWBtsII+C+pzd8fUglGE4pXXHFF+VsKbmJc02hYyZHyMJph  
bASu7Hdvnz9/zz77bPG5KEpT4vsksllmGfF/+P4NpTT4QJpUgICZXYuDl1BRn0ukNGhpPw0qhQH1kks  
uEUfUW2+9lRyNZdBE2PBhc66F/0lt4H4piirLLbechLe6IDxw4PMALQhCQucmTZok9xQq0Nxefvllqw

e0i0TMhpjZSzXgwAC5ttHS4mWXXbZB4ZkQSrj66qs3eo8fAufhBPf7nIbRlmKjukt4bYhHHnLE2mTw  
wTu2WhVsDey5fUzzwJnxWCEHi0ZuYnjn5FaQp8AWK08Lhr164qQMqE8a9ZFhLiD8F3gQ8BZxPhbqNH  
j673J9Clv199V cwdZN/FqQ7/93//F/Xt21dSChgBI8eAjJiontj9cSRjlsHchKnHhXazfCA4kDGLce7  
XX38tfoStttqq3uSGn4XwOFJJ46vBnIMpheteornkh5Tw7M/oQDHZZZeJMx0TXblwrhm0xdSEfyEL7p  
Okkw8//LD4KLDDWqzPBr/OvffeW3aKBkyV7NFy/fXXSwJM4Pnj/+EvAQ1cHzMlzvkJM2Y0uL6y+INDO  
guCbNzfM4EdgwYNSl6F4Xfc755QWhtu2nl++3z3QiHk/PbtmJGhDxa/fZ+8/SqStGuGpxKaXITlg/m  
C90P2AiG5EhDzCAo7xPWiumKWTahvsz205g3b54kfkwdMwwmLLFjxyZHGVpXXX/HRngkrxrCzH6PPfa  
ITznllAYaCJx33nnxAQccLwKc/rpp8dG2KQu1EMDMR+8mJYI0SWUNm8hBBjNbq+99hKzUTkMHDhQnv  
XgwYPlhjEp8hoNpVyM8JawX86fPHlycrQuVPmpp54SDQSNz0WCCy6Q+jxDpfXAZ5pV1lnnaR2HWmhs  
X5Bs3XPTTvPbz8PeftAyWq/yH7lJe2aRcL412y5sJjt2lTIF198cX0eGBccTziBDzsMJm1MjtLAaDV  
Bnxw1HI02sCECR0So4tg1mId4aHFfrzPYj5SwqMhoIGUwndiE3mFs33TTTcNRhbts88+ov0QCmwXGZU  
Cx3YlpRIuv/xy0VzQYIgC47NhFkNQQDkQSEBIJCn7CR12nZX0zYYw+6HMV1xxRXTLbdEv/nNb+TzQx  
tR2ga+1uk7uENgZWAG756bd4lWm2ePliy2k8bryrpV17K6X9VJMKkSRk3bpxIQ2z9RpCIJ07WrVtw1  
vzQQw/Jwj/qhxbvubDQj5mzGdiDDm1m96SkRwMxg3hydBHMk01iPmzzIS3EaiA4gIH+o43MmjVLXgP3  
tcIKK8S33nqrpJk3g6L033yomZoBfTRqbXzkkUcmR8oD7aVcDWT27NnxDTfcIAE09JPPg78bbLBBPhR  
06FR/jQWNEEc8mhXn0Ra8//77Mh0yPiA+EzMBkM+HZ20PU/AdEZTA8zICuL4faIrLBkoLQs+x5ZYOn  
XqlPSwPG0jb3Hb53sfqhMq7nkhqu1rkTSLEX2TCDdy4okn1g9Mr776arz88suL2cMew8RjNAGpe/DBB  
0vUFF/jWB41apTU8cF8dcIJJ4iJBEEQ4v777xcB8vDDDydhGkLEFc60kIkKuAa5nIgk690nj/TptNNO  
S95dxN133y3vUejPk08+mbxTGgSI0chktTb0bQb1vIX60ATzCBAG5ZtuuInu0aNHFT+JeuP+ged/zDH  
H1L/HivXQCnkW2pZ8Pttss40IVGA/Fntu3oIznsfsHhBCfP+ZNFSCLL6HPudKy7rrrxnfccYeUCy+8ML  
NoqXpuBgcmL6E6edvyizU/W/gt3nnnnbnaCmWwCEnra6j4/acUSZMJE7ETHKNNdaQG0MDCcFgwcDLQ  
Eg9BiQ7oFl++ctf1j+gffffdN3700UclsbusAAnNcCnPvts/0tf/1reZ6buV89M4Q9/+E084YYbBgUI  
g9uDDz5YH/HF9S1EiyHYrFChoHEcfvjhMqvgmvhvmNETplyKm2++uWINBOFz0EEHJa/qoN9EPxFJha/  
E9o/oN+7Tf8Y+PBe0LnsepW/fvpKShXDccKK2RQM4Zi1gZjS0hC/M9UWN5HheynpkUgG6oJVIVRv++  
23T2rUWRVCddzrQdo13cJ3Gz9kVkrXWr+yzkvra6j4z6JomkyAYFo6/vjjZebOA/DBbHHEEUfu3zg5l  
myYZwic3EhwZtvMV01AT04mHpr7ECstr03wTVgMxI8//ni84447xk8//bQ4hN0ZPIUQWvpEqK4LYcr7  
779/g7qd03e0zzrrLAnt5Z7Jx4Nj0L6PGSykaaSVlVZaqf5cwo8RxDyPqV0nxtdcc40cRzthXcebb76  
Z9Kw8XnrppfjKK68UkyPtYQq0AjwPPD/0Q6AprR/7fSyiMHGz8NsL1e7f/TRR9eXfv36ZdYjJ1yojn  
s98MN/QwVz05NFVxAwYXT7REnrV6XnhYr/LChF0mQCJA9sczts2LdkVfNy0kkniakN00wW1157bXzLL  
beUvX0uiwhJR0j6Tlo7zLoQQAhgzJaKwuQxNPj5s/885G0rVI+FrlnXzCNAEDoM3K4gKMdvkee8PM8m  
7VkuCQKK2aKwfNgQ5bjjjkteNS+33nqrRB8R6ZEFqeFJQeJHFwXB2gpSnpTKe9XaIAqLdBGkcifSTVF  
YuxXCjE/Jf/lJa8uP8PTrsTUD1wtFgpYL33GKS1oUVhZp5+V5NqyRaQpajABRFKX1Qe4lv7hJN9MGbc  
LsQ+fawsJh9rtx2yIvXQhy0Ln411y4cKGcmzUwk6MuC5YC+PXynFc0Wc+G8tdkiUST0S1tFUWpGf5sh  
Ng3/MMPP5T/GeyqWbPgtkXSTzIq+Ky66qoNkrL611xyySulg8WGG25Yn0wxRKh9hJ074rtdu3ai0WBR  
sw3l0c+ypbNhVbXPhnUy/jXyZAbIC2vdVIAorQK+xqSh+0abb2QwKDftilIbQgKE/WpYsAuVDpJ2ISG  
phGxbefGvyYDfqVMnSf1TSoCEII0R/bDwvVtxxRULw3eptvzzLEUKkg233Va0tFqBAFETltIqwCzbvg  
tsSkbhB1o0ZCZgJnnKKafIKn2lMlxTU6V+B7SG9u3by99qQcjRFh0PcmFLB5+Q0PRhM7YQbh82q2A7a  
pdKfS/loBpIBjwe9tUguSF/0+DDsruQkSwyC2Y9zEDKcaLTlqlsLlIphoHHXRQ8k4+sPuYQw/toZL3  
PpnxbbDBBrLrmguDAn06/vjj5TU/SMAmTLHY4/TF/erZ43ZAYSY2atQoMSuUwyeffBKdcMIJ8lkMGzY  
s0VoMJP+84447ohtvvFH2lenZs2fyjpIGN60Pu6dGaK8MvqPuPuNpIDzQZuyMndk2CTp90C7cAbvamX  
0WCBC+G6U0kLz3TVtoWzyzNPI+LyhyuJd0TaZBpQSscRgzGzgPPb0wsHD33XcPvhcqV199dXKV/LB4j  
3T4rIUpBzMwy3oTQmhZI0KiShfSkbBGgxDEUF9tIRMAiyl9zJdYQp0JqWfdiQvx7KGfkSTIJPWMD+0c  
csghsnCLzAT0m/MJcaSYH3/cq1cvSca51VZbNTj0ay0YYy0YJSWKpc5977bbbvF2221XX5/zCdcuZyH  
kX/7ylwaL0JTiyZPFgEWwrLnic7SkrdL2V3ebgT1Yr4jCQkk2Wth6662Tq+WH9XJ+eySQzQrbDZ2XVo  
qE37yasDJAU2AHQ/08Usvs2bNld2WSPpIo8Ve/+pXsUBiqSyGlMltjur0gzz77TLZ7ZcZRqpx00kmyg  
yGqc+h9t5Ai3WJna6Sypm9m4JZdH+22m7xPKDLmH2aHoX6z5TCJDkMaDFoGmgsp4DfffHPRyCjMnkjd  
z6wP9dztnxG40cSJE2W7W1sfJ+T+++8v2hbaCndFW2G2Q7JMCmGYzz33XPTkk09Gc+f0rT90dAp9QDv

i+RjBIMfRHEj0yLa806dPr69PXcId2VGS5JZu39IK2wlw7dB7oVJk+uy2Ar8nnh2/PVv4brjHzMDaaG  
dMvjuh8/L6w9xz/euV0ubC95XvFN8vvv02uNFigNbA79gtvq0da/Hdx7dnIaIrdF6evlKKRk1Y0eALQ  
XZZvtj+PgIMbOyVwZo0TCbrL00mDiIDGG/kC5duiQ160CVvvLKK+WDN9qERGsAg+VHH30kA1waDJBs  
xcs6CtaesKYiDRx5D0Shwd7CA0v+AC699NLohhtukIzHhx9+eHK0Dq59++23R4MHDxYhkZZNmGdV6os  
6YsQIAafU3vXAj6bUD592K0xDjwDKgvs0nSo/NgwbnQ5zfeeCMyM9/kyCL4ESJc+Wu0D9m0FzCtsS  
8/z5nzQ9AvPt88+7Ioi0jbryMEpk87w0bZ5wNqbcIK4UaLQZq5LYTRsjLNdHkpcrhXE1Z0zGxCEpGtv  
fbakosLs4qFFZ+kVSEVC2lazEARsQRJp+Wh68BUQs4tcmKde+65cdqeI2mY2YikESHJI0p6Hlj9TZ8w  
A9EfCueSgRcwhZmBuD4lCznEQmDKw8RlM+7a0rVrV1kxSw4uTG0o76RgQZX3i/khS5oHzgu9TzHCR1K  
ykJqFZ0j2ZB/uizXsJNnkkuqXAdMc9kyqGPUe4j0rgHskHhimNLMS60J7yuKHb8Lio5dnJXoIcru5ba  
UVzM4u7JMTqucwfiuYsFwzXdp5lfS9wtSElRNm8TiHWaH0LntGiCTvRGJCeffdd2UT/VVVWUVM3926d  
ZMwPvY8cWEWhIZBYWaKG140q0jMZtEa0HTywMwZUw/ayk477SRl6623Fu0Ixzdaz4MPPigmtbffffltM  
ZCG4r1133VXuadq0adETTzwhJqHx48fLzpHEm9Me5iXUd7Qbv3D/7PnBKvTQ+xRudEx0mPTQCo466qi  
kB4vgnni+vXv3jsaOHSSzyjTQDjC9cZ9GcFekxn0ff0aHHHKIPD/WFdAWn/2pp56a1FIWF2yghoXvCF  
pKJd8N38KQhht5BnyH80A9NzILq0KISveCIkwUXJCLqeNN95YnLgkTBw6dKjMLnAIA7Nj9sFgPxGct  
jgELa+99po4mSk2BxYzYllM81HUojAzMaqmXAvMoBcfdthhsreK0xtHy2JfdDQkq6n4hfe4/1I7PpKk  
kfvm2ubL30C7wPGJxkLadrQM9z20E9vnffbZR/qZhRFW8S9+8QtxkIcyHHPfaGxkQyYQolz4LP18zeS  
gPoM0ec/YL4bPkizGaCSHHnqoZIJWGM/0+Ys/h4bfHZ2F09K9+7dg+fLLxyv3fZC5Wc/+1ly9Tqqce  
T71y0YIFTp++iQQNRAVIBpJ0nygf1EjPLGWec0WA AwTRFlBMbMt11111yDLMXgzamGTdpJGapOXpmy  
OBMhA+p0zGX8D8p8N1C5lsGq7XWwi+/PLLG73PIIeZibbYf4RNnhSaU1u/KV9BmgiwBAglQow9v8I  
QeQU29Lee00NyZHwLTH88TslofXX39doqlQ8xEoLnYjL0xNP0dyIeU/eyoQFQb0iVT7CBCbDBKhS2Q  
XkV7lb0LVVvC/N81RsvbYqGTvGrdUYj6qRoD410vrf9Z9V4sKkCpgps2g9aMf/Uhm5T5k58U3woybsF  
d8KAgddjLELp8GvgnsqiHy+kDwaxi1PHm1iG//baRALEgAEktT/uLYMbdv3/BpqVC9oXe7KwJwIzd  
77EeQszQUJwzzzzNwCBKiLDwqtBsHNs9l1111FwNvBvxzYSoc+4xdCIFpCAGTs9ZkZ8r6yiINDA1tTF  
9SGE4Pcb0i9vyWo/RDn7evgFf54LY0aoXq3DzdUHugWTJ08W2zvRWexzb5n8k4dhMQOGDBAoKII52W  
/dGz2ZoYdXD1LuB7t7bHHHrInu426cMEvQPgfdET+LBS2gygksLgoosuquSKMFSTpQTEUP0kzDkgw  
8+OCIs14UwRN01A6f4T9Zee+3kndJgw81TqoFIK077pptuklXihA2vvPLKEjVH1uNyYE927pNILxxVb  
roJrsNz4v0jfQvHCdclMg6fSJ8+fcTnoiwe+N/1cpk6dWryXxiyFpCDyi12wW0l8Ft022IJQqgWF7r1  
KIVTJ0uUvDCLxzTC5k/M1tmznVkzs3p/1owWgNmKx0xJ24oX0C6Y1f70pz+V2bi/GA+YtbCjIjZPzGg  
+zAiYceMT8H0cYDUQNvbClg9PPPGEmM0szwHfDDsacg36S/TWcccdJ/03X8BGbfqggWDCYl0tSsCEVa  
4Ggk2bc9AA8Keg6dFFZmqYAkvBc8f0heZgBIFoLY888oi8x7a+rg+I3S+Jwr0mSXucnS75vPAjsdGRv  
T4zQN4rpXG2dux33y2VmHzyQERk6HpZGkI55qRK+o5Juqi20u4xbykSNWGVCb4NI+0lvI4VzBa2qWW7  
Xja isjCQI2T40DDps0Ka//GZsJuhDwMZ9nTMQzjGPvjgg+SdReDDsCYs67T3QSCwC6FvogIGMgQCQor  
95zHRcC+hwZ7wWPulw2TDlr15QICw+6SzpctgXE5hh0lMX3kECM8HYWNXzuNbYpX+/Pnz5X0GdjcrAF  
kCeDYh3n77bREM7NhM/Sh8fvbcvIVdLAGTAuZLPkvCLlWANCz4i2rBK6+8Erxe1gAhGCZ0XqhU0vcOA  
VVJW2n3mLcUCQJEFxJmgHpLaCqmHT0oiumGhYNGS0hq1IH5iBz8JPSjHrBBFovyzMxYXm0CwsRCKDCg  
xLKHRU2EEZqZtOS6YtW0GYBk1bfL559/Ht1///2RmeVGZpCNtpqq+Sd0ghHnDRpkoTlYoY644wzGoT  
3kVaaxXQXXHCBmI2MNi0LB4GFjYT7ssjPrprF/I25hvuibTMgRoceeaj0t1T4IgvswFOH8vl/PPPl+  
eFCc6CuY4+GKEgecD4PIBQXkxG3Ke/Itif58FCTzcZ6YEHhj169dPwpv9z7IUY8e0ja644gpZja5kE  
zJPmgG93kSLsdZfpZ0Hhi3CwjEl2jxRaQsE3euBf03+P/LII5NXpSHHmv3+5SVvv/IwceLEaMcdd0xe  
lU+Rwz0mchUgGSBAGNCvu+46SXzIwGZmy8m7dau5+YIwGE+YMEG0sXaBev6KZwuCgtXqrJx1ACelB3Z  
1vkysACehYbWwLoOUKgzkFgZikgDST9Z7YCNFYM2aN SupEUkqE5IRmtm7rHcAviicR59fe0EF0Qasd+  
Ght9FGG8n16Lfrd0F4hfw9afDDtuCfwY+ET+jEE0+UxIoIN65Hahn8FLZ/eWHAwXF6nWjNYrQJhsAg  
tL1B6XB+hY3mSKpYZTSZAmQaldW59lxb+B+o814T/5e/nwbfoXdvkTwUKUDS9jzJS5F+EPmtI0CU6sDX  
Yb4kEkLb30DDwBxz9913By0xXKhrNKTyDKjJkXxgGi0kmH0x+7cVMI9h2sIXlNek19Yx40yjYgb05N1  
8K7JDBZMnkXLuCm8zGAfruteDvNfEFFwEaRFX+MgWZ9SEpShKTcnSQNJm51mQlQFTJ9pvVlv+TD/vNc  
ks4WsbaCWXXHJJ8qouwsrXUnzQGsiG4J0nfZ+062WdVwtUA1GUFGAr3lmHQxAFDv3WhBlnGhVXI0jTG  
vIUAjXyt0VrINVckzxoLmkRVpUWv32ft0tlnVcL0EB0HYiieDCzssWuESB/kj3273//W44BPrDQ8XJg

ls40igQD4PNx/UxFgX+JTM5777137s2HWjLkhyKfXFPj70BYdKb10A6HLmnXyzqvVqgJqxXD4EfklF4k  
PQ7skMnBRWByHKQBHMlFcwIDpfzWo10c5JIkZCQpY17Ye4PAAtKq48AmMWE5EAX2/vvvi+Pbj07jPj  
ETEJSAQ5WF1m7f6TcmD/YJwWF09JYLgz8mBvpEgIRNWEc7tMezI3273XESZzwBA1yTRZ84+4E+sr8Kw  
RYM1jzTcsBJz2JErvkiTnexYrXQ57vvvlWtPJ9KCfyrBp49j5FmLCIus0hTTRgVlu+CauaSCY+U7ub  
IpQTzUHv32ft0tlnWfhWRQFvxsvIK0YBg0EAuGqoZXrLoT9IkjuvPP05EhpCGULHDgvfM0QHhRCcRn  
I84KAwPZLVBkuQyCZMd1NoZgYMB1Uyi2+EXILIIQb07VBc0B4cM9MYCzMzIfcN3zzjtPVrpjZ7bYqd  
T+unuuEKVFHwnfxnfddSWCj/5awUx/mT0THcdnwmcEVjgTDs4PkzZ5TX2EGq+pz3vAZ0U02mWXxdbg+  
qV44IEH5F4effTRRkK4VtRKgDCRQMDymZQRQCqNZOK7leXvSIN+uudW01Y1FDncqwBRZMAibHefffar  
QioPB1T+hgzZowM3ggBQn7hyy+/lDQirF0pCtakhIQMg99ZZ501AyCbW/GXrzDpJAhJZh1HKLUD60g  
IkwbTL0KUXRjEWvtDuDCaFwM/MHgzOGMeQLMg/JP32UyLEGY0ElL5o3kA7ZA+hfdt4c0HS8p9BB9pTu  
z0j/zoSIdP6DTPD0FgYbC163Zok/vieqTZ3Ds2bNnvVZDPdLo9+rVS3aXZFzdNAjDaIJuQK0ECEKYz  
wnhWq4AqRTMj04kohwI03fXIVXTVjUULUBoUGnFEHLLqnVWafuwsp50JWymY77ckk32oosukhXcofTo  
rNJmlfg222wj6UMsrKInFQrpPNIKKVTIskuaDzbcCtWxxajp4qDLixm4JUmlGexjo2EkRxeBg5r7J1V  
JKGSZcGdCLbknnlcahC0bwZGaSBII9aUdVtLTrxBm9it7ZoeyDYQgUwBJ00ng6WMEjCTfDD1HyvTp08  
U5b2a7jbXSSMVC5mZWYJM+J3SevYdqsdd0ixnQk3frEleG6uQpbPDGc7EYIRGs516vGkgFFGo/T3H7C  
Wl9rXUpEg3jbQ0gTTC7xvzDzHjIkCFiowf8I8zimR3z1kdi+wwTVGPTZMszIQxE7FSnJnw5Zdf3mCV  
ex5I0smKcFb15108xqfbPYkJ2Q2i0bACnz8FPgn0IgwFzGjZ8bsmp8s9J3Fm2gutGXBF4K5yW4vTFg  
o5jDq+3DMCBkpaAHuYlIL/c00YjUJNBoSVLrwc6PfZCugzvXXX99gsacL18Shzor+vfbAS86h/XJhK1  
5Mh/hr8I0gsfBc2Z7X1YBqQZYGgk3/iC00kP/LAbMmnxW+HGv7z6uBVLt4MQtMj/ho7Ap54H/XR5HW  
76D7nk+BENUEwRR5HCvGkbgpTV5LQiDxaaBzADNQ0c5NdCi2DGjLaCBuLm+gLzzZF9TMg5ZbeZNT9i  
+Zsh6l533XWvwZ7leQFzYU07eb7Wl/Qgpjps7EVKejZxtbdj6UU1CNULpk5ienKgeeEllNqQ6088Cz  
Z4IqFcDZxYwjuKxtlSwBS1FcCGpcZqGTPF3K2MRPm+ZOU84ADDqj/LtQK930zpSiNwCevBsKzDNUrop  
DMk3xuWYkS0/qadV61e5cUiWogbQxm8cz2sL8yW2dWzhaz+DOYpQEOrtK2kP0JaClm23xF2MqWMFNms  
DjaiYDB5o9vwfpCioYZGtqT3dKTGTlpYugTGpXVgEhPgrOaSC/CakNfaWaFaA30G3t0KB090Vbk1sIx  
zvNwNSxm/mhua6yxhmy1i+/IBQc3z5Ntf3luWeGdzN7QnEaMGCHanh8VxL2QU4zPieeNBLIO+FDsZ4t  
/C18J1yJ1DlomviOcuDw7Ir7w69SckAbC7L8WPhu0Kqtdu/gaSKV+lzzYFd8t34baaT1YYcdih5Hl  
YDGw1YCUU093yHVYC0Mdjj4uijj5Z9PfixkRwRc5Q1ozAAE5F02mmnST3MWZgKGWomKGsyYGvDiYyB  
BMDFj8cVHe+5AgXFwbE++67T6KgyBvG3uIu1uxD8kbaZICmPRzYDP70gT5jxuGHhwDByU3ySqLMcOTn  
hYHTJrx0YQDCpMT1+Vs0mBbY64Xnd/XVV+cKwcUcRoTs88+K8+F0GjgXg1IJDhqquuknstB605yPm  
EJvN5sT8Jz5NEnAgQzH7k8cLsx6SAwZXr+8k5iyAkQEIrslsgbcV3UwoQvpNMNjANuveIw9xdKc5vLB  
QkkvVs0u4xL0ULEBpU2hjkwCIPD+aokDkJpzJ05y5dusSDBw+0zWAmwExHjhWYFIjDA5RHMRGU0iON  
ARnMCYs9swIgXmJl0tpzmLMcJjgzA+xkbP7iiuuiI3QS16F0eSQQ2RLYIIBQuBIx9HPfZMHib3d8xae  
J85pUvd//vnnSYv5wMHN82WbYJ6fEa6ybfcGEcrosGvnBJIaZiv6494k5DNMjfSSLvwup543gF10gGaC  
So8VgxplmL74JyzcfmYmLBJJkmY9C5N2fI89K8bxtVdLPWoAJS1eit0GYwbC+gdnMlVdeKX9d0CJYrE  
SqeWaohMfiDMAbHoIZM469c845R3YAdGd7FruGwXzvZIbsw6wfBzfZQjHt8DoNq624EL6LQ5bQVj+bM  
WngcbrPnDlttINSJgD6Zx20mMzyFupzXiWgDWHGYk0Hs0/uD8f+LrvsktTIhmeLNoM2hnaHici9T8yaA  
zG7R5nwzD1oJz5w+sJvj448/nrzT0pg7d27yXx2+doz2jPZJChA5hBbohsgT/JC3rUr6WSvUhnWGWmZ  
DAIrNG8HYIuQAOz2ZuYq/wORQkRmETUFDDKs/whF7TBwsh6CRWpmdltvInFBgHbd7PIMVKTUcOFHZE  
DPYEo6D9fHAdaEhRkAHwYRTvhpuB4mMQZH+sH5XJ81HwiNkSNHRuPGjRPfBia4kEnFwiBCtBJmCMx65  
YIAZTV5XhMW98xgTXQ098LAztoGTCz4UEi5z+J1f+W8hZ8ugwl+Dp4Lz4AIN/wpRJchS03PG9Ma608e  
e+wx8SPZ/Vx4HpgNEToIFyK0MK/wXeBZ903bt6LIL0s5C0ZrBf4Iouws+PN4thYmTHxeZCpw6+XBbys  
Nvw8himyrKVATVhuCtQJE3Sy77LLx0KFDk6N1UU5EZ5mBQ16b2bSs0+jQoUNsBhcxq1xzXTymnUUmL  
R8z0Au6c2NFiDrJNKim9hGF1MBpq4QmKh69eoVNFFxjRkzZsR9+vSJN910UzHTsAukERBJjUWYmXi9u  
o85Km8EE+tgMOPwjDAhYXbIWzp37iz9MYItM8U9pikj4GIjjKWPPH/SxNt1IzxLoq/sPbDF8bXXXism  
Nh92P8TEyD3b6xrt01Hkwlah38Bah+HDh8trnjfPXVFCaBRWK4dZ045aoniYfaMVscqa9SAuaCbjx4+  
X1d/sWAiYrTCpuDN2tBAc0HxldtttN9ldEW2BGRyzXWbgbFbF6mU/yonZCs5iIkzI0cWaBBfMQGgxzh  
7RHnwNBA2GVeRcA9MMazr0PvtsMb9h+sJkg6ZBigjWitAGs3hm+ERhsV6AFeiYaLg2GxGhabhgNkMzQ

zPgeZULGhr0dDQt+9zQEB5++GGZ+bMeg10lgb5grq0fpbBrVEhDgoYEONuJ9uIz6N27t2g0eeAzobmh  
yeU9R1HSUA2klcPs0Qyo4vxmXYed4Vp4zR7LRgjUz0TZZzw007XgmGU9hxna4rFjx8qmlesY9Tvu27d  
vFTvVFNZ2mC9ncsU6m02YATg2AkRWSbPinCAA9zz2JMcJT10XzuRoWG7dNddcUzQd2txxxx1FgzCCSb  
Qu3keb4Fje4vaFc1m7QX+mTJkiGhyaGc5q1tn4/csL60/uuOM0WaeDk5z78j/TNNB00ADRruidolSLa  
iCKaBP40wi9ZX/w5gYfCTZ/ZuiltrLFw0C7YF0HvpXYCuyocc4rNGe2gJoWgz5BILaYiKUi5oICpA  
FEVRllJBgGgYr6IoilIRKkAURVGUilABoiikolSEChC1TYIzmVXzhNyGXluyjtvit5NW8l7PL2nnpfX  
DJ+16Pmnt++dltZfVTtHX8Uvedv2Sdf3m0i+tnl/Szktrp2pwotcCmm4Jxd8UJ1SHUsnm0aF2KG5bof  
eboygNYWEez+wwww4LvrZkHbfFbyet5L2eX9L0S+uHT9r1fNL98/Lai+rnaKv45e87fol6/rNdV5aP  
b+knZfWTjUQxtvqNRB/wZRNDW7p0aOHLCirZGGV3xaL01hA5rb11FaBnZDKDL+gv/aknXc4reTRt7r  
+aSdl9YPn7Tr+aS175+X1V5W00Vfxydvuz5Z12+u89Lq+aSdl9Z0tbQ5ExY5gVxIYEY0JSNQky0RrNZ  
mHwa/+EnYffjR7abajKIrSmmlzAsQXAgz6Pscee2x0wgknNCqlMsRCKMusoihKa6XJBQgz9FoU8h/lIX  
Quxc0ym2Z28l0I+1gTVh5CfSiq5H0WiqIo1dDkAsTfCrQoKt2LIURaH7PSXmSzufXq9RygyGehKIqSR  
rOasJitV1PYe6EWkGWWfEFuYU8E//q+ECAzLBpAJfhtl1Nq9RwURVFK0awCpNIIJfZurjRyKg/sI+07  
002e4aVYY401ZECvhGqitTQ1t6IoziFi6URn74iWiJqOFEVpSyyWAoQNcWo5WG+/faS2twteXwWbPh  
TqQLURRLcW0xFCA9e/ZstJtckbBfBHsnuMWNcrLFj3bq1KlTxSYsRVGUXy3FUoCwVwstcUN6S4Eqcf  
Ffk4qitGYWSwHCDnpFDdahVef+anWL71z3682bN0+FikIobYbFUoDkiYjKS2jVOYLhhRdeikZOnVpf0  
nToEJ122mmN6rl0NJSiKG2JxVKAd0zYMFmvetLCZ7fZzptos802qy95hENb2V9bURQFmlWAENm04oor  
RiuvvHJ9gaxj0K8xFdUyEmvzzTdvFIVFJstS/VpllVXkWCX98p+FxT8WejYaPqwoSnPQrAKEFd/9+/e  
P+vXrV19Y9Z11bM0115RjtZxxErysR2HtueeeJfuFoKm0X/6zoB2/ff+1Paaaj6IoZUGTCxDXZIRTeu  
TIkQ0KzumsY2PGjJFjbnLDpgifHTVqVIN++P0aPXp0o36l4Zv0/GdB0377/mt7zL+ehhIritIUNLkAC  
aUJKaKkRU75+FFX//rXv5J3svEXE/pt3XbbbFI3T1LFWj0HSt5noSiKUg1NLKD8SKaiSt5B04+6sov/  
Jk6cGL300ktSiLjKg9/WgAED5G/WviFQq+dAUQGiKEpT0Kw+kObANx3xGgGyvZ0+j08qd78tK4xquUp  
eURSlpdDqR7qsCCVWteMgd81TvqnK4rf15s1a1aj6LC0thRFURZ3aiZAbBRRc5esCKWZM2c2Wj0e2g  
8k1Jzf76ijjmpUL62tpi6KoiiFYwbPNsVyyy2HtKgv3bt3j9u1axfPnz8/qaG0BYYMGSKF/4ABA4KvL  
VnHbfHbSSt5r+eXtPPS+uGTdj2ftPb987Lay2qn60v4JW+7fsm6fn0d1bPL2nnpbVTDd98803c5oz1  
voMZhcmJ/M8ki0KoihKHmomQKxD0qsYKZacUYfrzE4rm2yyifx1z007z2/fD7F9//33k/8WkacPtvj  
t++TtV5GErqkoili0NRMg7iruUsXPMRXai8Mv7EjIX/fctPP89tE0QsVN4Z6nD7Zk5cjK268iCV1TUR  
SlaJrdh0WvovZDY0Mw2BMq656bd16eVeE+efpgyWo/LXNwJf3KSzn9VxRFqZRmFyCsm3BLWtgrAs0WK  
V0miN/CP8+tQwG3ji1fffWvAeh99PaChE6320fHwvH/Lb8cyjueSFC54RK0f1XFewplMVmZJkwYYKY  
Zihps/qnn346mjRpUn1JW1G+1FJLJf+lz9bd65W6pkvnzp1lAHfNU90mTYsmT56cq19ZZq1yNAv/WSi  
KohTNyiNAevfuHW299dZS0hYH7rjjjtGWW25ZX9IG5DypStzrUfL4LEL9wuHv9qlUv7JA00XFxaKoi  
hFs9gIkPnz5yf/NQ7FtYT28Ajh1kur414vL59++qk45F1CEVFp13Sp9Dyl/ywURVGKpmYCxI9yChU2h  
goRqutGSYXep63QHh5Z9TbaaCPxEfj130vlxebCcsH85faJQvtZpJ2Xp4SehaIoStE0qwaSZoqqhLQU  
6r4m4V+TXFiQNbu39UrB401T6f7t1URShfqhKIpSNDUTIKF9KihF7JUxZMiQ6Pbbb2/QVloK9azB9LP  
PPsslyPKkaJ83b16j+U5rxzy7C0i6dwVRWkkaiZAQvtUUPIMqFl7ZZCg8MQTT2zQFmYau5+HW7Jm8k  
Rk5XF0h9r3nfEh53ie88ohzz4iCBB3fx0KoihK0TS5CauINQk9e/ZstL7BdxrbknW9lVzaSQSIG9obI  
tS+LzCWXXbZRsIodF5an7L6UA6+E15RFKVomlyAuOaicqKKXPKYwfLCgI/ZKSvtewjfxJXXp5N2324f  
1I+hKEpLp2YCLQnBSVrr4z27dsn76bxhtvNBqsEQShkrW6m7YYrEPnZhVfEMyZMyfXwJ92327bdq/  
2o48+ulFdt6Q9L7ctiqIoStHUTICEnLsUNwdUyCGcJ2qJxXm+GSjN11Hpor1KsGG8WX6X0H37fhEbRn  
zXXXc1quuWavwpqiQIo1dDkjqsxFixYILNq/AG2gHuM/9FA3Nk+juPQeXlnQf55WX2wx1zQdrieLyB8k  
1tIKHDfLva1q+Wknef2yfYrq6+KoijV0uIECIMt6dr5awu4x1588UU55sLx0Hl58c/L6oM95kIYL/iR  
Un7k2bHHHtvgfYofehsKxU07z+2T7Vc1z0JRFCUPLU6AMIPPW7JWp10yVpT36NFdZGGhc7NK2kp6n7z  
mNhfbtqs9pJ0X6ptffFEVRiqbFCZBa4zu+mZ1XOsDmjbrKw8/FnlNJdJi iKEpTUDMB4kcBNVfxo7D8CK  
g333xTBEjo3KyCMMqKkqJUIgSsoMu6Hr40t44tWdFniqIo1dLqNRA/Cst3cFeSNNElK0qKUuTug/710  
qLW1HGuKEqtaXMmLJ9q/Q0VpH1HQ6g1Gt6rKEqtafMCpNZUu6+Hj58aJa0t3Q9EUZRa0+QCxEYFFV3y  
RkRVQ+i6WSawavb18Etonw+0h9D9QBRFqTVNLkCqmX2XopJIJyjHnFSJuSot9LaS56Dr0RRFaUk0qwk  
rjwM6VEL7geTFv2ZowV4aabP9pqLovUUURVGqoVkfSGhldZ5y6qmnNtoPJC/+NdMEyAsvvBBNnTq1Qc

mzADAvWnmQ0ybNq1Rnyjuvh9pRakMm9TS1z7tcYt93z/u49fLateSdl5aP3zSrueT1r5/XlZ7ea9nq  
fY6PrZ+Vrs+WddvrvPS6vn49WpNswqQSgfkrbbaSgbgSgbhvNfcZpttos0226xBqeR6aSaySqKkSCLp  
94ni0svTilIZP/zhD6Ntt9022nTTTZMjddjjttj3/eN+8etltWtL2nlp/fBJu55PWvv+eVnt5b2epdr  
r+MXWz2rXL1nXb67z0ur5xa9Xc+IaQd0hYiRKUi00zWAerJNVl1xySfmbpy23DuS9phmY4y222KJB+f  
rrr5NW6thuu+0a1fGLESAVt++Tdr2s85TGDBkyRD6HAQMGBF8rxalP2lpiuf9zTffxM2qgVRKpZpL0  
fhRTBTfUR+KsPKLec5J7Ybkad8n7XqVBhAoiqJUw2IpQH784x9XZE6ChQsXJv+Vjx+yW+0qdp+s9tLe  
L7ofiqlioeVgsBcjbb79dcURUNZFMfhqUciK48hDaaMotadfL0o+iKIpsOGLMqgE0HSpF+EDWXdd8S1  
U4gN55ZVX4pdeeinqs0qFDh2D7ecrEiRMLa6vSojREbfJNiz7vpqUpnvd6wNZbbXVUq0bsvBTf0Qt1W  
yN66czqdT81pb56KOPxN8zY8aMJg9VLicPPvhAwqYJr/YzIrPJ18cffxxNmTJF/FlsjMb9fPnll0mNM  
J988kk0adIkuf9PP/203ueFRvr+++9LW375+9//nqpt0wd8cG49v29+8a/d0rDP/eWX5bvShru51Pq  
ub/33nvyLF577bWSi36LqEdILLYV/5lPnjxZziva0lEoiTApHJo0FVcjCL2fp6y55pry1/xAk5byayC  
VUqm2RH7CdW0VWLZ3Pjuu+/iZ599Nu7Xr1+D+9hoo43ip59+0qlV0RdddJG0t+uuuwZfl80HH34YX3  
LJJfHSSy/doK9EC/7617+0jQCQerNmzYpP0eWUBnUoaNPnnHN0bAY3qefy1FNPxZ07d5Z6yy+/fHzTT  
TffCxYskPdmzpwZH3vssY3ao6ywwgqi7VqI1Lv22mvjFVdcMVgvrW9uuqq2Iz2CUltkeRz9vCc3j8  
8cc10tHtJ2W33XaLJ0yYEC9cuFDqPfjgg3G3bt0a1TvvvPPizz77TNqj7p//0d4ww03bFCHz2fgwIE  
1qzd9+vR47733b1DHlt69e8fvvuu1CuHwjxvHzSQJfjHNFw4aRoCs0czgMr/LAi0e3+Xg+l4t0yyy4  
rt36ZKx5EcmsgG41400fhUBqdwZzbFnB/t0WNx+Qlpf/fN8fv/738tMsRJq9DHXFD0oyWyxY8e00v+LL  
75YZsBXXnmlrNNpKdCn119/PfrnP/8Z9enTR47Nnj07GjBgQGSEYHThhRdGJ510Uuq+MPvuu6/MOI1w  
iA4++0DkaBQ98sgjkRng5PvbpuX0RZ4ffjh0u6fjQGIxREmxgzKxkhENyZkPee0MN6c04cePkGrp  
h1byTDf0688wzo+7du0eXXXaZrD9oKXDFZ599tmgVjz76aNS1a1c5zv/coxmUo3PPPTd64oknIiPIo3  
XXXTcaOnRotP7668tnRp0777xTPqczzjgj+stf/hJdcMEF0XrrrScZK8xkRdrjmQ0bNiw68sgj5VmMH  
z++sHrnn3++fM+NcBZNZPTo0VJncUAwMyJAaoFpP1iQWrUgbVbavayC1nP0zU2R2kUVaH7JgBho6L09Z  
3GEm3qtXL5lBvfji8nRlosRIPGhhx4ad+rUKR4+fHhsBL8c//bbb+VezGQh3nHHHe0tttpK6vlaFvr  
BT37yk3ivvfaKn3nmmdgMRHGPHj1iM4mQNAsIRPjkk0+Wz9cM8KKtoFFMnTpV3gc0uT/96U/xpptuGu  
+3337xY489JrNRrl48GDpZxr4C3nmnPvXv/410dpyQL0//fbbrSs1E4r40ksvjY2gjHfaaSex9b/22  
muied1xxx3x0uusE5sB0zmzDiNY5N6MAJfnYoS8rM/if5g2bZo8f/sb2nnnneM//vGPhdabPHlybCYf  
8YEHHihjB/3ZZ599RNt755135LyWSrP4QGq1T0UtNYu8mGea/FeaFm3TbIGgdVWqeTUH//jHPyRNzsS  
JE6NBgwaJxmB9aISRz5s3T+z0M2f0FB/GAw88EP3qV7+SGSsa+YQJE0TT6NmzzR27NjIDOKitaLBme  
lK/WZhaLXs6b/lllvKa+z/zGTx8+2www6Sjgc7/1tvvSXayoMPPhjtvvvu0a233ho9/vjjMus2A2t0w  
w03NEqNgbYzc0BAscFfccUV0l5Lg+zUP//5z6WfPE8jGEVLQuMywjnaYIMNxFLBPR9wwAHRyJEjZZyw  
xUxGxCeBNsL9Y63AujFixIiow7dusqob7dcIg8gM8PId/OKLLwqtx+eNhrnFFluIfxQLBr4xNBM0pf3  
3318+ixZLnSwpHpo0ldAK7CIK0jt0vabUQNq3by9//XtkFuTin2dL1rNJu8c8ZXFn0qRJ8S677BLvsc  
cesflBJUdbHmPGjBFNoW/fvvGrr76aHC2NERwyQ2bmPGrUqLhPnz7ymW2yySaicW299dbxWmutFZvBU  
0z4ZuCX2XUazL7xE15//fWiYdx2220ySz/99NPFLm9B60ED0v744xv4X4yAE01mlVVWER+B78NrKfAM  
jjjiiNgMvPHDDz8sx+gr/qi11147PvHEE0VLszBjRrMzgjae03dufN9998nv6uyzz5bjRhjJc+fZXXz  
xxfx3jSaGhsNn0m7cuELr4f8IMwf0nLh//7xeuutF999993J0ZYFz7PJBUhTlywBsvHGG8ft2rVL3i  
0PHJBuW2mFH2QWedtqS/DcU09xpt94442xmVnHZrYtJom//e1vMj iYwVxSu/ngh4SZwszS5XPERISQo  
++Y2/iL85l6RhuIn3vuufj5558X09Sdd94pDt9VV11VHKscQ0AY7U0+m127dhXhstJKK8VG84hXW221  
2Gg0Mgjy3eY6tEWo+EMPPSSDFoIG05M19fGsuMbqq68uAxn05WHdhnw4LoIGvs7oY+33HJL3KVl1/i  
YY46pd/S2NPjch330URHWhPUjJDEHYWrj0dJ/M3uPjQYlJj++KwzWfBZ8Vscdd5wEPRjtpH4Q57lsv/  
328lwYtJm0/053v4vXWGMNEQKjR4+W6xZdz2gr0gc+R/p/7733St+ZkGL0evPNN6V/LY02IUD8wdt/n  
x9mqF4e/LbSSp62Q+eFSiX9XFxhgCi1Zgab9ueff57Ubj6mTJki2m0ojxQb6cQA50fkUBhg7rnnnvjL  
L79MWmwMWgJ177rrruRI+Pl07NgxHjRokAycFgYphMhBBx3UoC6DL9dLIAD+4lNA08WfhzBrydBfhAF  
amntfyyyzjPhCrPaBL4FoJrc0mhyTEldAEq3FoI/vya2L5ku01/fff194PXxUI0aMaPA+Zf311xcf1a  
effipttUR4/jWLwtp5552T/5oX7Mqu32XPPfdsY08luoUoCGzN5fpn/LbS8PsQos12FEVRag3jVc0Ei  
KIoitJ6QYDokmhFURSl1lSAKIqiKBWhAkRRFEwpCBUgiqIoSkWoAFEURVEqQgWIoiikUhEswU7+VRRF

```
UZR8IDra/ec/le8RriKorRNUD7aLVjwb8lGqSiKoih5QGaIAPhuu+8k5TBphRVFURSlFMgKZMbXX8+
P/h/2RoQk7TZ4uwAAAABJRU5ErkJggg==",
20 }
21
22 DrawLableImage(DrawLableImageParam, function (error, data) {
23     //通讯超时或websocket打印服务异常
24     if (error) {
25         return alert(error.message);
26     }
27     const { errorCode } = JSON.parse(JSON.stringify(data)).resultAck;
28     //图像绘制失败，退出绘制
29     if (errorCode !== 0) {
30         return
31     }
32
33     //进行下一步操作
34 });


```

## 4.8 标签预览 generateImagePreviewImage

### 代码块

```
1 /**
2 * 生成图像预览图像。
3 *
4 * @param {number} displayScale - 图像显示比例，表示 1mm 的点数，可调整预览图大小。
5 *                                     例如，200dpi 的打印机可设置为 8，300dpi 的打印机可
6 * 设置为 11.81。
7 * @param {Function} callbackFunction - 图像生成后要执行的回调函数。
8 * @return {undefined} 此函数不返回任何值。
9 *
10 * @description
11 * 增加方法说明：
12 * 1. 在调用此函数之前，必须确保图像数据已准备好，否则无法生成预览。
13 */
function generateImagePreviewImage(displayScale, callbackFunction)
```

### 代码块

```
1 //返回数据示例
2 {
3     "apiName": "generateImagePreviewImage",
4     "resultAck": {
5         "errorCode": 0,
6         "info": "{\n\t\"ImageData\" : "
7     }
8 }
```



4+cODAMAxMVKD3vrm5ef78+eef35tbU2dzWaAylVUrkJip/OjUJExVIojJJoiZhogJJADUJ0yXpvQOZqExUtrXWVP4UKtuSACqTJGoSIAnghEkSKkm4SpLe+1/4C3/hM5/5zEc/+tHXve513/zmN7/whS986EMfYqImOPXpmzMGDB9m1U1R2ffucevIJMsxms49//00PP/74Rz7yka985Sv33nvvF77whbe//e2z2czJ1tbWpUuXxnFcWVkBxnFUx3HsvavjOKrz+Xwcx957EhVQgd67ylWScIUKKjslUYEkbFOBJPyZqUmAJCoTNQmgAkkAlUkSlaskUZMwUZPwZ5CEbWoStqmtNa6gJvEKgNpaG4YhiQqoSZgk4SpJuEISrqCurq4+NBDn/rUp17/+v/j137tV37u5360yebm5rlz544c0cKuK0Rl17fJxceefGEpfX3z4x//+Hvf+9719fxbb7/92LFjFy9e3LNnxve8IZ77713ZWlc3Pz6aefPnny5NGjRw8fPgyovXegT+bzee/9/Pnzjz32mHrs2LG9e/eq8/m89z50Ll68+PDDdz/55JPr6+tAktaayv8mKpCE/9+SMFGTqEn4M30SR0UKKldQk6hAEpU/gyTDMLTW AJUrJOEKsdgpCTslUVtrN91006c//RsPP/zw3Xff/bWvffVv/+2/3Xs/c+bMoU0H2HWfqOz6Nnn69DMf+Cf/5BW33/GTP/mTm5ub//Sf/t0f+ZmfAXrvs9ksyd69e0+cOPGGN7xhfX19YWWh7rvvXllZUcdxVMeJurW1tbm5eerUqYceeujQoU033nprknEyn883J88999wDDzzwzDPPz0dzJklms1lrLQmQBEgCJGGShCskYVvvPQmg8qdQkzBRgSRMVLYlUZMwUZOoSdimJlGTsE3lKiqtAr13tjkBnAAq21T+bIZhaK0BKldIwiQJ0yVhpyRM1EyAX/zFX/qDP/iDf/SP3vell33pTW960/r6+qFDh9h1hajs+jZ57z/4sZuP3PQTP/ETJ0+e/OAHP3j//fcn4QqlI4v33Xffn//zf/7y5ctHjx59+ctf3lpzM05j730cx967ur6+/sgjjzzxxB033377LbfcMgxD730cxz7Z2tp66qmnPve5z506dWocRxVora2uri4sLAyT2WzWJsAwDG2ShEkSrqACKh0Vidp7T7K5ufmNb3yj9/7hD3/4X/7Lfwn03t/+9rf/1E/91Gw20378+Pr6+g/90A998IMf7L2rvfckvXeVyu033QR8+MMf/lt/62+N46g++0CD3/M93z0bzba2ts6fP7+1tfWbv/mbP/IjP9J7T6JyFTUJoCZhJ5Wrq0yUhG2tNaC1xk5JuEISKkm4QhImSz853d+55vf/H++5S1v0X366XvvvffAgQPsukJUdn2b/I2/8Tc+9KEP9d6PHz++sLCgzmazYRj6ZBzHG2+88S1vecuJEyfw19df8YpXHD58uLWmbk2SAPPJ2traV7/61V0nTt1zzz033nhj732+bWtra2Nj47HHhvut3/qt06dPj+PIZBiG1dXVYRjaTklaa9kGtNaYJAGSqICapPeuMlGTj0MIOPxH/uxH//xH++T97///Z/61KeAcRyTPP7448Dtt99+6dKlhYWF+Xzutt67muTf/Jt/873f+73PPPPMa17zmmeffbb3nuTo0aNPPfVU7/3jH//4Bz7wAZVtSXgptdYy4SpJ2JaEnZJwlSRsywR417vedeedr3jPe97zu7/7X9/85jex6wpR2fVt8ta3vvXXfvXXzl84//f//t//t//23/beh2EAnABJhmFQgTYBVEBlogJ0gGEYXvayl33Xd33X3XffvbCw0Ht370vr6w9+/Wu/8zu/c/78ezXJ0tLSn/tzf251dXV5eXlpaWllZWVxcXFhYaFNlpeXW2uz2ay1NgxDmyRprSUBMgGSqExUJr13t12+fLn3nqRPtra25p0NjY3FxcWFhQUmSba2tlprW1tbrbV//+/fZK//Jf/8uHDhy9duvTrv/7r4ziqb5osLS0Nw/Af/+N//MxnPu0ktQaoSXgJJGHSWkvCFZJQSQIKoZKESRIMsD19fW/83f+3r/4Fz/TWtuzZw+7rhCVXd8m7/nRv/eRj/zixUsX/+pf/au///u/r3KNVP50SdimcgU1CX9mSVT+PyWh8h/+w39YXV295557Tpw48cADD3z4wx9+3/ve9+lPf/rnf/7nH374YfWFF1648cYb15aW1tbWkgCbm5uXL19+y1ve8sLPfvJlL3vZuXPnNjc3jxw5Apw+ffqmm24CXv0a1/zxH/8xf4ok/G+ShG25AldJwrYkXCUJkEQFkjBJwhV+6Zd+6U1vetPBgzcuLMzYdYWoXI skVFQqSaioVJJQUakk o JSSUJFpZKEikolCRWVq7ztB9/6a5/6dSrDMKhsU5moVJJQuakkUb1GSdhJpZKESLjx49/9r0fnc/n3/Ed33H+/Hkqv/qrv/rII4/83b/7d48ePXr58uWf+7mfe8973nPw4EGVvvLy8ubmpsp0KpXW GpXe05XW GpMkXGEcRypLS0tJgCRsS7K2tkZl7969QBIgCZMk58+f56Wkcj2LyrVIQkWlkoSKSiUJFZVKEioqlSRUV C pJqKhUk1BRucp3fdcbP//5P6Aym81UrjKOI5XWmspVV C pJ1CTspFJJwhXUJIBKJQmQpPd+80DBT37yk//u3/273/7t3z516hSVJIAK/Jf/8l/uvPPOj3zkIz/7sz+rUvnEJz7xrne9i6uoVFprVHrvVFprbEsCJA Hm8zmVlZUVJkmYJFHX1taorK6uMknCFc6fP89LSeV6FpVrkYSKS iUJFZVKEioqlSRUV C pJqKhUk1BRqSShonKVRx555Pjx41QWFxd770xUJmrvnUoSKiqVJFRUKkmoqFSSUF GptNao9N6pDMNAZRxHKrPZDFCTAGoSYD6fU5nZlwlydbWFpWVlZUKQBI mSYCLFy9S2b9/P5MkQBIgyZkzz3gpqVzPonItk1BRqSSholJJQkWlkoSKSiUJFZVKEioqlSRUVK7y1a9+9dWvfjWVpaUl wG1sm8/nVFprKldRqSSholJJQkWlkoSKSiUJFZVKA41K753KMAxUxnGkMp vN2JYEyGRjY4PKvn37mCRhkgQ4f/48lQMHDiRhogKbm5snT5688cYbeSmpXM+ici2SUFGpJKGiUk1CRaWShIpKJQkVluoSKiqVJFRUDprP5w899NCrX/1qKsMwLCwstNbU3rsTYGtri0prjSuoTFq qSaioV FprVHrvVFprVHrvVFprVHrvVIzhYFsSts3ncyoLCwtMkjBJAmxs bFBZ XV1lk g mQyZkzz6gc0nQIyLZPfoIT3//933/+ /PkbbriBl5LK9Swq1yIJFZVKEioqlSRUV C pJqKhUk1BRqSSholJJQkVlp7W1tccff/yee+6h8vu//vnz5//vu/7vuXlZWAYhiSttTNzldZv3//0I7z+RxwW59QyYs r9N6ptNao9N6pDMNAZ RxHKsMwUBnHkcp sNqMyn8+pLCwssFMSYHNzk8ri4iKT TIBM1tbWqBw4cABI AmTC5Pnnn6dy880303n66adbaxsbG48//vgf/uEf/uAP/iAvJZXRWVSuRRIqKpUkVFq qSaioVJJQ Uakk o JSSUJFpZKEispOFy5

cePrpp0+c0EHlida973ec///n15eX/9t/+25kzz376p3/661//epLTp09TOXDgQ099Pp8DSZiM47i+vk  
6ltUal905lGAaukmQ+n10ZZWZU5vM5lYWFBSpbW1tUFhcXqWxublJZWlpwiWxK2ra+vU1lZWQFaa2oma  
mvtwoULVA4d0sSktZZEzeSZZ56hogKnTp3at2/fT/zET7z1rW9dXFwchuF1r3sdLyWV61lUrkUSKiqv  
JFRUKkmoqFSSUFGpJKGiUk1CRaWShIrKTcmd911F5UHHnggSe/9fe9734c//0ETJ0586EMfetvb3nb  
zzTdTueGGG9RxHNUkbltfX6cyDANXSMJkPp9Tmc1mSbjK1tYWLWFBbYLYdvm5iaVxcVFdkoCbGxsUF  
leXqayvr50Zc+ePeyUBLh06RKVffv2AUmYZNvZs2ep3HzzUySAK01Jqd0naLysz/7s1/60pf+wT/48  
fl8M0lrbTabtdZe97rX8VJSuZ5F5VokoaJSSUJFpZKEikolCRWVShIqKpUkVFQqSaio7HT690nLly/f  
eedVB566CFgHMckvffWu99Pp/fe++9VG688cbW2j0vXc1iZMLFy5Qmc1mQBJ22traorKwsJAEULn  
C1tYWlcXFRSqbmtUlpaWqGxsFBZWVnhKknW1tao7Nu3TwWSAEmYXLhwgr+/fuZZAJk8sILL1A5ev  
RoJkBrLcmRI0f+83/+z/v376fy3//7fx/HMVdpk9lstrC0eNfLX8GunaJyLZJQUakkoajSSUJFpZKEi  
kolCRWVShIqKpUkVFR20nXq1Hw+v+0006g88cQTktB7d5JkHMfjx49TUR977LEPfOAdv/ALv6DecMMN  
wIkTJx5++GEqS0tLTpJwhc3NTSrLy8uAyrYkwPr60pWlpSW1tQaoBnvY2KCytLTEJAlXWF9fp7KyspK  
EKyQBLl26RGV1dZWdkgDnz5+ncvDgQSYq0FrL5LnnnqPyR3/0R6997WvVz3/+869+9asffvjh97//A/  
P55uc+9zkqf/iHf8i21lomrbUkwzAACwsLd911F7t2isq1SEJFpZKEikolCRWVShIqKpUkVFQqSaioV  
JJQUdnpiccFF+644w4qTz31lCaRiZpEPXr0KJVTp04NwwDM5/NbbrkF+0t//a+//OUv/1f/6l9R+YEf  
+IHw2jAMKpPWpJPf/rTVN72trcBrTWgbUvy0Y9+lMpP/dRPzWazhckwDLPZbGFhYTabfvfd76bye7/  
3e6212Wy2sLAwmwvLSAzDcMcdd1CZz+cqExXovasrKytUvvGNb4wTtU9U4L777qPy4IMPttaGYdja2h  
only9fvnDhwL/5K3+Fyjvf+c5//I//8cte9rKTJ0/OZjNga2sryX333Ufli1/8oportNaStNaGYQCSH  
D9+nF07ReVaJKGiUk1CRaWShIpKJQkVlUoSKiqVJFRUKkmoq0z0jW98Y2Fx+fbbj1e5c+YMNHUYht57  
a20Yoq6urlJ5/vnnx3EExnHsvQNqa+3o0aNUnnuuXEck6iZqEm0HDlC5fTp05moXOHIksNUnnvuOSY  
qoCYBjh5QuWZZ55JAiRRgdaaeuTIESqnT59moiZhkuTIksNUnn32WZUrJJnP57fccguVp59+urUGjo  
PoBoi933bbbVS+9rWvJVEBJ0mAV73qVVS+8pWvMFgttNaybRgQL377rvZtVNURkUSKiqvVJFRUKkmoq  
FSSUFGpJKGiUk1CRaWShIrKTg899NDKysptt91G5eLapSFNTTIMg8pkaWmJytrausrEbUlWV/dSef75  
55kkUZ0owKFdh6g899xzSQAnQBLg80HDVE6fPp1ETQKoQJIjR45QefbZZ1UmKpMkn910E5Wnn35aBZK  
wTb3llluoPPPMM2rvPQmgAkluueUWKqdOnVKZJ0m9M7n11lupPP7440nUJICTJLfffjuVr3/960nGcQ  
RUQE0yDENr5EXw8lccZ9d0UbkWSaioVJZQUakkoajSSUJFpZKEikolCRWVShIqKjt985uPLC0uHrv1d  
irjxlprDbAFUJMAbVii0t2MqICaDE5mC0tU5lsbahIVaKICs+UVKhvra6213ruaBFba4tLK1TW19eZ  
qEASJ3v27KGytramMlGBJMDDevXupXLp0SWXSwNUYO/evVQuXboEDMPQewd676213vu+ffuoXLhwQeV  
bGqAmAfBv30flzJkzKt/SAJXJoUMHqTz66KPQ/4QTIJCktZYEuPPl7Frp6hcijyRUVCPjQkhUk1BRqs  
SholJJQkwlkoSKSiUJFZwdhv3mI4uLi8duvZ3Kfp3SMAYALS/irQmQLFDRkUoyU0l9nkR1Ev6xtBmVP  
m4kAdQkKpM2LFhp4wYTNYmaP9EWqYzzdRVoraltGPo4qr0FFSrzrcsDAdQkgC1AG5ao9HEDUJk06eFF  
w2yZyrixxiSJkyTqbHkvlfXLFWx0uULvfe++A1SeOnWy7+SktZZETfLyVxxn105RuRZJqKhUk1BRqsSS  
holJJQkwlkoSKSiUJFZVKEi0q0z36zUcWFXeP3Xo7lfn6pWEYSAxJ+BN50QIVFToTNQmTZKCiI47j6D  
AMJNDtXR1my1Tsm4CaRGXsmQ1A2iIV++Y4jq21+XzeWhuGofc0DLNlKv0ty621tGbvaHkg9z5bWKEy3  
7qcbpIeBtJ7twWYLaxQcWtdZZJEBdRhaQ+Vvn1ZBZIAKpNhaQ+VjfWLTD5pAuk0+k+1YNUTj35hNon  
6ji0vXcgSwNaK3dcecr2LTVK5FEi0qlSRUVcpJqKhUk1BRqSSholJJQkwlkoSKyk6Pfv0RxcXFY7f  
eTmw+ fsmWWRoJLbwoAZIFKn7LmERNBuiA2tqMim7htyQhsfckahuWqPRxo/feWLN778MwRDoos2Uq43  
y9tab23ofZrI9jEnWYLV0Zb10G1GEYeu9JAHW2sEkljxtM1CRqxtTNwjKVvnkZSNJ7b8Ng70za4gqVc  
WNNba2pQ0+doTUZ1vZQ2Vy7AKjAiC9Kou7dd4DKU6d0qr33cRx77+o4jsDdJ17FS0nlehaVa5GEikol  
CRWVShIqKpUkVFQqSaioVJZQUakkoajy08lHH2uNY3fcSWW+finbbAGSkBctUNFRBZJwhWSgMo5bLfb  
eW2tA7+RFrSUDlXG+3lpTe+9sSzLMlqn0cQNQW2skfRyBJllYpjL015vYorbWeu9qe9GwRMWt9R4a6d  
hao4sCWVimMs7Xm6hJFFLE7Utrldpm5fVJCMmcTKQYwkPlY31i036i8KLVD3vm/1IJVTTz4BjOPYe  
1d772rv/e4Tr+KlpHI9i8q1SEJFpZKEikolCRWVShIqKpUkVFQqSaioVJZQUdnp0Ue/sbgwHLv1Tirz  
9UvZxtD4E3nRAhUdVbYlAXrvw7BAxT4Heu+jfEvTUZ0trFDp44baex+GQWWSpA1LVMb50mNvwzDvY+w  
39EQAACAASURBVJJhNptvbSWZLaxQGeifrQJLee17UzdIWV6g43+jjCLTWSIB5H2dtyGyJilvrKttUJs  
PSHip98zKgAgGSEQfSFleobF2+mKT3zmRu70h33+pBKqeeELtvY/jqPbe1d77ivfew0tJ5XoWlWuRh  
IpKJQkVlUoSkiqVJFRUKkmoqFSSUFGpJKGist0j33xkcXhx2K23Uxk31lprvCgxvCiJ2oYlKjpyJb8F

aMMCFfscOjC0Y7apbViMs7XkwBqEibqMFumMt+6nKG10RHbbHDsQJI2LFEZ5+tAa42uvfeQri2zhRU  
q863LTdTWmppEBdriCpWtzTVgEJIRgXSTDET7qIwba6213nsStfc+m81678PSHirrly8ATXpQASd79x  
2gcurJJ9Q+GcfRCXD87lfyUlk5nkXlWisholJJQkwlkoSKSiUJFZVKEioqlSRUVcpJqKjs9Nij31hcX  
Dx67DYq48Ya0IahYyZqXtQWqfQ+B5JARw1hUFubUenjhptpaG8cRSKImGwbLV0Zbl4fZzN7Z5mS2sEJl  
vnW5SQ9N1MyGdHsYZstU5luXgYEAPaSbRG2LK1Tsm31rztB670mAdJ00xRUqmxuXmgzD0HtPgsq3DET  
7qGxdvpgESKICakuG5b1Ut15fHBFQARVQ9+47Q0WpUyf7VZIcv/uVvJRUrmdRuRZJqKhUklBRqSShol  
JJQkwlkoSKSiUJFZVKEioqV1Aff+ybi4uzo8fuNI3LwdIenhRa03Ni9oilS9/6YskaBIgE+A7XnMfl  
f/5wJdba2prTU3Se09yz6tfQ+xrX/uqmqt3nonaWrv7xKuoPPT1B9UkY+9J0NYAcPeJV1F5+KGvAa21  
3nssJ0m03/1KKg99/cEkTNRMgLuOn6Dy0NcfHIZhPo6BJL33YTaz9+N3v5LKNx55CGitAwprLZPbbr+  
TysULZ1prQBIVUIG9+w5Q0fxkE2rvfRzH3rvaewfuPvEqXkoq170oXIiskVFQqSaioVJJQUakkoajSSU  
JFpZKEikolCRWVK1y6dGnv3r2nTp06duwYlXFjrbUG2AIkUV944YXDR26h8sY3vrG1NgzDfD5XoUNL8  
vnPf57Kd37ndwIq4KT3rn7pS1+icu+997bwgHEcl5eX19fxk6gPPPAAlde//vUbGxtqktaaciR+5Sv/  
k8prXvMalUkSYDabbWxsfpWrX6Xy+te/Xh0nS0tLTpJ88YtfpPLa174WUJmoSYAvf/nLVN74xjf03od  
h0Lyo/S989rP/lcr3fu93t9bUcRxba+rW1tab3/zmf/7P/28qJ594LMk4jn2bmuT43a/kpaRyPYvKtu  
hCRaWShIpKJQkVlUoSkiqVJFRUKkmoqFSSUFG5wtbw5l0nnlxYWdh67DYq8/VLwzD0kERTw4DpvQ+zR  
Sr33/9xJmPf6r0PbQFoA+/44XdT+djHfmk2DLPZrE+S9N6T/PA73kXllz95P+BkNpvN5/Pee2vth9/x  
Lir/+v6PA22ytbWRG2t/dApv5PKJz7+0WEYwmu99yQqk0TtP/Q0Kr/yy/+6984kiQr03t/xzh+h8iu  
//K9ba1tbW7PZbBxHoLU2n8/f8c4fofLLn7wf6L0nGccxCZN3vPNHqPzi//0R2WwGbG5u/sZv/Mb6xk  
ZrbRzH3/3d36Ny6skngPl8Po6jk967euKV9/BSUrmeReVaJKGiUk1CRaWShIpKJQkVlUoSkiqVJFRUK  
kmoqFzh61//2r69e5IcPXYb1XFjLRNb2JYXtUUq4zja5733+Xw+jipjfBzH1tr+G49QuXj2eRVQW2sB  
EmDvDTdSuXTuBTWJmgRIMo7j6sHDVC6efT4JV1CBfQc0Ub149nmVSRKVyerBw1QunHkuyTi0rTVABZK  
sHjxM5fwLz6pA77211ntPAhw4fDOVF04/lURNogIqc0jmo1TOPPt0EqC1No4jMJvNhMHyS/8glSdPPq  
723sdxVHvvToZhANS12dKtd97Brp2ici2SUFGpJKGiUk1CRaWShIpKJQkVlUoSkiqVJFRUrvD8889eu  
nRpZXn5pptvoTJurLXWAfUAEzSFqn0cSutofwvnQRNW6TSx40kQ0+9tTafz4dhUIfZMpX51uUkgNok  
yYjAbGGFyrixBqiZz00DsWW2sEJlvnUZGIgKqK01IAvLVPwmpqEidpaAzJbodI3LzPpvScBWgJkcYX  
KuLEGqElUJrYsL06hsrl2AVBhfBHgt2R1/wEqp558om8bxxHovQNjWmvqvwlbcfuYNdOUbkWSaioVJ  
JQ8f9tD/5ibT0L07//vs+79t7nj41tbIxTQpikabAh7QUNMGkhqtSZqGqVaJRqRp00hokmE1VVe1Gph  
Y4qFUGmTG/SXuRmmuk0N71opVZRLiJ1rqYalJIATjMNJIMZwPgPAYIdjPH5u9f7fLv80g897n7Z56zT  
/dk9lp/PRzMHyBw1c4DMUTMHyBw1c4DMUTMHyBw1t3jhW9dvfLywcHRY297e+aMN66WUgKSDSCJpHC  
YOXW8ASQ1YF0nAZJQDjNnXF8vpWRjrAHJhjqslmR0vXkNq0Q1rsdhGGqtW9GlzLl548pqtVqv16WUJL  
VWNqqrc5cz339yjAM6jionEnK4cXMqTevAev1GkgCqGXj8GLm1JvXmLGBJEctdTi6ldnjauV1LiSW  
mspRQWGo0uZc+3qy5moSwqtmdxz7w0Z8/xzzySptY7jWgt1koRJksuXL7/1kcfSvR5qtgFkjpo5Q0ao  
mQNkjpo5Q0aoQNkjpo5Q0aoQNkjppbfP1Pn1/fGFFd8Njb3p45442rpZRsgATIHKY0dabNQKpJgg  
cDKsLmbM+vpYEyOsNqwuZsz6+BqhAMd/DwYXMGW9cTcJGKeN6PQxDJerq4GLmrI+vArnrGEspVDeA4e  
hS5tSb14CxJFwqQCbl8GLmrK9fATJRK9kopaw0Lmb0+voVlUkSJ8DqwuXMuXb15TR0aq1J7n3TmzPn+  
eeeSVIbJ7VWoJSS5PI99771rY+kez3UbAPIHDVzgMxRMwfIHDVzgMxRMwfIHDVzgMxRMwfIHDW3e065  
Z4ZSgMfe9vbMWV+/UkoBAhJAzaMczo4eJ0VnohZQ2SirzBnX150UYK2shlqrmmR1cDFzxhtXVSzjZKN  
aycHhpcw5vnkVSFLMRq21lMLGwYXMWV+/ApRSnCQZYzGrC5czZ7x+BTABxjgENclwdClz1tevAEnUTI  
Akw9GlzFlfv5KmErUYYHXhcuZcv/ZdNR0qY9xIcs+9D2T0155/Vh3Hsdaq1lrVJEyS3Hvfg2956M3pX  
g812wAyR80cIHPuzaEYR80cIHPuzaEYR80cIHPuzaEYR80tvvLVL1840KSUxx77ocwZb1wFk1CKZANI  
QjnMH0vaBIzmUVHNsph5ozr68VYGMdxRVljCcVwcCFzPL6ujrGUqrXWwkpRh6NLmTPeuJoEqMRJMRu  
rC5czZ7xxVR1KqTpGNqobBxfvyZz19StJABVIoIZZXbic0eONqyqgMqm1AsPRpcxZX78CqJmoSYDVhc  
uZc+3qy5k4SaLUwt903w0Z8/xzzyQz7E2ahKglKLe/8D9Dz74cLrXQ802gMxRMwfIHDVzgMxRMwfIHD  
DVzgMxRMwfIHDVzgMxRc4uvPv3lg4NhWB0++ujbMufmjStA2TCVMElC0cwc680aCyuV1EC1YspwlDl1  
vKEmqbUySQKU4Shz6s1rSSwU40aBapJyeDFzxhtXcwsVSDICXcq8cbVJGoppdYKZDIcXcqcmzeuDGH  
DCeDk40I9mb0+fiUJoGZSSLGHo0uZc3ztFSCJClTymsojy5lz7erLSWwyqTVvuu+BzPna88+q6/Varb  
U6qbWWSa31zQ8990YHHkz3eqjZBpA5auYAmaNmDpA5auYAmaNmDpA5am7x3NNfYZVya

ehtD/9Q5ow3rpZSKgGSAJlQDjPHutaRUqKZ1FpLKZTDzBnX14EkGGs1Cajl8GLmeHw9G3A8roEkQ3jV  
wYXMWV+/UkqptWYC1FqHYSiHFzNnvHG1ErUYNpJaa1bD6uBi5ty4/gqQZgi1VmB14XLmjDeullK06wi  
k4FiHsFEOL2b0jeuvZDKESkq1FopZXbic0deuvpxEkuprktRa33Tfg5nzteefrbdIUmvNBEjy8EMP33  
v//eleDzXdD9xXn/7ywcGwWh2uDodSykAZNgKrYQhDKUkoJZBEAiSREJKSV9VsabpJqmmATGqtmVCtZ  
EMtG+bPDSVjVTMUCTAer7/zne889dS/e0bZ5+PxQw899M4nHn/LW95yMKyGUMexDEMSYG1Vh1BKWa/X  
maxWq3EcgSQqkKTWmqFQLVAVSKMCKpBEBVQgiQqoJCaVqAdlGMexlKIC0WPrASXJSIAkQ1BJqg7DEEH  
hHMchBNZ1XFFqrUmASlSqpRR1jEmollKSjDEJ1QJVK9mgmskYM5GkulFrTVJrlWW1Xq+d1Fqtj00oju  
PopDZqkn/5xx/PktTsMtR0P3BfffrLh4erYTgYDspAWa1WQyilrIbBpJTCa0pJItkAMpEQjEnIoIaah  
GCtgAKmGceRiVprTcL3GMkLf/bif/vf/Nrf//v/1fHNmxnXpZQxAk6GkGSMSVaF0QzDwZ889/wn/49P  
/vW/+teAJKwGN9ZjmYzjmAQ4ru0KopKYALVWoJRSawWSAGNMUgzJ0qbgWFcUFVArGUISQK21AtFaeFV  
1KOUYhxoSSqnkk5/85JNP/p8f/shH1sfH0masbMQUnNREMwxDKauvf0UrV/Vbv/Whv/HvP/zww2NMQh  
XIxEk0MMZSCtUxZkJ1jEncICWotdYktVYYxnG0qRN1HEe1TtQ6SfLj73wiS1Kzy1DT/cB95ctPXbh4e  
TUMZcVAGSZAAzKUUPIASYA0EoIxCSETJVRCNImaxAmvqW4A2QBr5WD1j/7Rb3zoQx8arBZqrUMYx3G1  
WtVak1SiHh8fHx4eqoCaRk3yqu/93uHR0Qf+4vttrZk4YaICtVbAjQLVSoagllLGWEqptVJNwkRNAiS  
ptQKVFENSFai1llKSWFCBYqKU8k/+6Sf/pR/7sUcfeaTwdWLcMAwqo0YwgJoEUIEkwCc+8V9/5CP/2U  
EZNsZYzNqaZEUZY17PSZJaK5DESRL/HEnGcawTtTZqrTXJ0I5qrTXJj7/ziSxJzS5DTfcD98UvfuGey  
5dLKavVahgok4My1CZJKSUGAXIryIavSiEJRgVUQM1ELSYQX5WE1VCP10CG8l9+9GMf/9hHXY9JKimG  
xER9/Cf+ls8/9YX1ej3G3/md3/ngBz+YBPi5n/u5/+0f/+NrV6+WUtiw1nDz5vrX/+E//E/+4/9oWJX  
18QhYSFLMhpMCJpUmwULGwmCsNUNhXf6Ho4MbDAdr3zJc+fmsbtb1wXpTcSMNoCYBnAAWithkAysHq7/  
zyf/Df/YN/U0taLeZ7Di5e+vjHP/7Nb3zj0qVLq9Xq8PDw60hgtTr88If/05s3byYBSinj0JZS10ef/  
5PPff7z/+6/82/X0hbZSAKMkSowxiTFqJVsqEmptSbRMYlaazacj0PopE7GcUxSa1Vroz7+xLuzJDW7  
DDxD9wXv/iFey5fBoZh0DgYymRFWQ1DYCgFqIXXZALKBEmqQBoVE82kEoljLeZ7xrharT72sV/5+k9  
87PjmTbWY16i11p/6wAd/7/c+tV6vV6tVklprkllKhz/8n//qr/4qli011iTA1atX/8f/6X/+D3/57z  
gBkjgAGIVzKKU4GeMQKhmCmuSfvXL1yQcfvllzIRnH+kv1JsVSR5NK2KgClahJinkNUExkxQCubf/fv/  
hef+MTfo8pqqLUCsf7j//5P3/++9/3ar/3aL/7ih5IMw5AE+jW/94mPfPjDP//zP//7n/m0CmRSyQsv  
/Nnv/u7v/pW/8rMZHaMEs0E1CVCJEyATNUmt0TGJkqTwtZqUOnEyjm0tNuMtdb1e29Ra1cefHeWpGa  
Xoab7gXvmmacLHBwcAAcHQyllGIYVBsilrFarJEwqYZIT1CSUEs2txlpJcfFVdQBD9VW10pQhZGMov/  
EbV/FLv/TLx9evWVCTFLMBqEnKweql15+8KGHjm9eX6+Ph5QkFmosYQif/8JTX/zSv/j3fvZn11Y1k  
1KKCtRaATUTNRuFoQZIUzcIkAZIUsz3jDGJmkIJxVRSzEYlg8Dn/ujzv/epT//tv/2LQ0hCYnJjPf72  
b//2K6+8cjwZx/H4+Hi9Xt+4cQP44Ac/+IEP/0tYuag1vriiy/+wR/8Xz/zM3+J6qsKmahJVCATNYm  
aBFBrrTDUWnVMoiRZr9fAOI7q0I5qrVWtr5cEe0fj78qS10wy1HQ/cC9tfPvFYRg0Dw9LyTAmPZRGE  
opwDAM6kEZMpRiNlgNadQkQBIVSKJm4qSYs0ZyEqkEst5DVUK5RSMPt/5X/9ze+89NLf+lt/0/U4D  
MMYqY6RoWBeozI5Pj7+6Ec/+tM//W/+zM/8pbIRSVGTVKIyUZ0wUU2ztpZS1DTFjCULFLNRCeAGwaia  
CiRRgSQqoCYBktRah2FQj460fvM3f+vg40Av/+V/i2oBk0qKqeRwtdYhJAFevvLKr//6f/8Lv/ALjz7  
61rJhKlGTAMWolbxGzQRQk6hJ8VWjmhS1ToD1eg3UWtfrNTB0ktRax3F0kkR94l0/kSwp2WWo6f7/8K  
UvffFgtTo40C1lDAPDBFitVqUUmLJKklJKvj+MRE2iFqMmqbVaqlXm9dQhjDEJkEQFVECttQ7DcHx8f  
0XKlVrrhQsXjo60gFrrwcFBknFcF9lQk1Ty/6ICaQA1CVBrBZK4QuPQsy1qCqkmUZMAQUEF1EzYqCyp  
pYwxE8lQ3JsHYbhc5/73Le+9a3r129+97vfPT4+vnjx4oULF4aB97znPQ888ACTUopaSlFrrUlKKUm  
KsWADJFGBWitQa4UkJPVJKm1JlFrrWqdqHWijuNYa1XrRE0CPPGun8iS10wy1GwDyJLUvGE8/fSXh1  
KA4Nho0xWq1UpBVhRNsY4DA0TJICaphi1ku+hupFkjEm0LtyTM3XllZeSALXWUkqtdRiGi5fel0bKK  
y+luXzP/Znzyne/DSS5fM/90VNXXnmp1lpKUZMAKpDECZBEzRxAzQRQc4shHNeRiQqoSULsa83EE2qt  
6ji0ap2o6/U6iVonSdRSiro60Lh48fLb3/72dCegZhtAlqTmjeRLX/riUMpqtSqlHBwMQCnl40AgSSk  
FKB0glKImATJR83pqJmqtNcmly/fLTl3y3W+reb173/TmNC9/50Ugifqm+x7Mn0++/GeAeu+b3pwz9f  
J3XkwC1Fp5TTVJJSqgJgHUNICaCZBEzUQF1LyqJNGRSa01iQpDklprEie1VhWotaq1VnUcxzpRa61qn  
eT/USmrCxu/OiP/li60ajZBpAlqXmD+aPP/+HBwcHh4WEpZbValZLVagwsVqtSSpJhGJgkKaVk4gRI  
oiaptQJJ1ETNxj33PpAz9Z2XXlABNQmQ5L77H0rz0re/lQnkvvfkjnfeemFT067/6GcqZe+/S0134e  
ahIkKqPlzJalqGkBNSiY6JgGS1FphUDNxAqi11iRqrTWtge1HMdaq5Naa5qqlHpwEPHxH38i3feBmm

0AWZKaN6TPf/4PDw6Hw9XRMAYr1QostwDKBFCSmkRJKqAmUfKqmkSpdQ0880aHc6Ze+NY3mSQ1Sa0VePChR9K8+MI3kgKoDz70c0a8+MKfZvLgQw/nTL3wrW8mAZ0oeVVJo2NeVdKoSAYkar4PNUkpRa21AknGcQSSqEm8BTC0YxIn46TwmkSttapJ1FjW403K4cVL5fLF97+wz+S7vtDzTaALEnNG9U4jp/7w392dHR0cHCQ50DgoJQCDM0QZBgGoJSiMs1ETaICtVZArbUCSd76yGNpvvH1ryVRSym11iS1FDUJkESTtQKllCQqoD7y6NvS/0k3v57Jw299NHO++Y0/AdQkb33ksTTf+PrXmDgB1EcefVuaP/3m1zNRmdQJkyQqoAJJaq2A+uhjP5TmG1//mgqogFpKcZJbqEmA3KLWCqiAmj1qEhVQkzhJoiZRa61J1Fqrk1qrWmtVa61Jaq2ZuD7m0uEFLj7x7nelux3UbAPIktS84T355GcoXjy6BKxWqyTDMNCUugAVUAEnQBo1k3f8hR9N88xXv5JETQo0QCZAEhXILX74HT+S5rlnv5oE+KG3vyNznnv2q5moP/y0H0nz3LNfVQE1CaD+8Dt+JM2zzzydhEmtNZNSSpJxHJmogJNSipN3/IUftfPsM09nojJxkkQFMLGBWiuTwuQRgVUQE3CpNaqJ1EBNQngnFprk1lqrTa3V1yQqcHR0dP3G+N6ffE+6040abQBZkpruFp/9/c9Q3Si1DMPApJSShEkmgBMgiVpKUd/9E/9qmj/6/B8CaibqMAy11lJKJiqQRk1SSnn8iXeneeoLf6wC73z8XZnhX/+R5kA73z8XWme+sIfAyqgZvLOx9+V5otP/fM0ak5QgUwANYn6+BPvTvPUF/5YTQKoSYYBaayml1poT1CRqKUUFMnFSSqm1JgHUTJwAmThJU2tVk6hAErXWal7F5Morxx/86Z9Ktz3UbAPIktR030et9Q8+85nvXruyXq+BYRiAJKUUoJSiJgGSA0q/8YGfTv07n/qdTIDMAZIAahrgfe//qTRPfvbTapL3vu8vZs6Tn/10EkD9yfe+P82Tn/10EkAF1FLKe/6196b5/Sc/A6iZqEAEmKpBGzS1+8r3vT/PkZz+dBMgt1ExUQUUyUpF9qUmATNRMADWvByRRk5j4mozjzVK9ds/Fb7/nfX813f83q0n2F5BGTQPkVGoaII2aCZA5auYAadRMgDRqGicnUtMAadTsMiBLUrPLUNPtLyCNmgbIqdQ0QBo1EyBz1MwB0qizAGnUNEBOpaYB0qjZZUCWpGaXoabbX0AaNQ2QU6lpgDRqJkDmqJkDpFEzAdKoaYCcSk0DpFGzy4AsSc0uQ023v4A0ahogp1LTAGnUnACKudMAadScAKRR0wA5lZoGSKNm1wFZkppdhppufwFp1DRATqWmAdKoOQFIo6YB0qg5AUijpgFyKjUNKebNLg0yJDW7DDXd/gLSqGmAnEpNA6RRcwKQRk0DpFFzApBGTQPkVGoaII2aXQZkSWp2GWq6/QWkUdMA0ZWaBkij5gQgjZoGSKPmBCCNmgbIqdQ0QBo1uwzIktTsMtR0+wtIo6YBcio1DZBGzQRIo+Z2gDRqJkAaNQ2QU6lpgDRqdhmQJanZZajZBpAlqen0DpBGTQPkVGoaII2aCZBGze0AadRMgDRqGicnUtMAadR0+ws12wCyJDXd2QHSqGmAnEpNA6RRMwHSqLkdII2aCZBGtQPkVGoaII2abn+hZhtAlqSm0ztAGjUNKf0paYA0aiZAGjW3A6RRMwHSqGmAnEpNA6RR0+0v1GwDyJLUdGcHSKPmrgBp1EyANGrmAJmjZgKkUXNXgDRquv2Fmm0AWZKa7uwAadTcFSCNmgmQRs0cIHPUTIA0au4KkEZnt79Qsw0gS1LTnR0gjZq7AqRRMwHSqJkDZI6aCZBGzV0B0qjp9hdqtgFksWq6sw0kUXNXgDRqJkAaNXOAzFEzAdKouStAGjXd/kLNNoAsSU13doCcKTUTII2aBkijpgHSqJkAOVNquv2Fmm5/ATlTaiZAGjUNKEZNA6RRMwFyptTsMiBLUrPLUNPtLyBnSs0ESK0mAdKoaYA0aiZApSaXQZkSWp2GWq6/QXkTKmZAGnUNEAA0Q2QRs0EyJ1Ss8uALEhNLkNN120PyN1S080BsiQ1uw1Xbc9IHdLTTchYJLU7DLUdN32gNwtNd0cIEtSs8tQ0+0v1CeouQWQiZo5QE5Q0wCzo+Z2gJxKTQPkBDX7AsiS10wy1HT7C8gcNRMgjZo5QE5Q0wCzo+ZUQG5HTQPkBDX7AsiS10wy1GwDyJLUdGcHyBw1EyCNmj1ATlDTAJmj5lRAbkdnA+QEND0bA2q2AWRJarqzA2S0mgmQRs0cICeoAYDMUXMqjLejpgFygprujQE12wCyJDXd2QHSqlkjQBo1DZAT1DRAGjV3DEijpgHSqDkBSK0m21+o2QaQJanpzung6QRs0dA9KoaYCcoKYB0qj5Y0AaNQ2QRs0JQBo13f5CzTaALElNd3aANGruGJBGTQPkBDUNkEbNHQPSqGmANGp0ANKo6fYXarYBZEElqurMDpFFzx4A0ahogJ6hpgDRq7hiQRk0DpFFzApBGTbe/ULMNIEtS050dII2aBsgJahogp1LT AJmjjpgFyx9ScCkijpntjQM02gCxJTXd2gDRqGiaNqGmAnEpNA2S0mgbIHVNzKiCnmu6NATXd/gLSqGmAnKcmAXIqNQ2QWoaIHDmzamANGr2BZAlqdlq0n2F5BGTQPkBDUNkF0paYDMUdMAuWNqTgWkUbMvgCxJzS5DTbe/gmxRMwHSqLkdIKdS0wBp1JwApFHTAGnUNEAmavYRkCwp2WWo6fYXkDlqJkAaNbcD5FRqGicNmh0ANGoAI2aBshEzT4Cs1Q1uw13f4CMkfNBEij5naAnEpNA6RRcwKQRk0DpFHTAJmo2UdAlqRml6Gm219A5qizAGnU3A6QU6lpgDRqTgDSqGmANGoIBM1+wjIktTsMtR0bwxAjV3DMgdUzMHSKNmAqRR0wCzo2YCZI6aXQZkSWp2GWq6NwYgjZo7BuS0qZkDpFEzAdKoaYDMUTMBMkfNLg0yJDW7DDXbALIkNd0ygDRq7hiQ06ZmDpBGzQRIo6YBMkfNBMcNd3+Qs02gCxJTbcMIBM12wByx9TMATJR0wBp1DRA5qjZAjmjpttfqNkGkCwp6XYBkEbNHCCNmh0ANGoIAI2aBshETQ0k3t2PMgAABxxJREFUUdPtL9RsA8iS1HS7AEijZg6QRs0JQBo1DZBGTQNkoqYB0qj9hdqtgFkSwq6XQCKUTMHSKPmBCCNmgZI06YBMLHTAGnUdPsLNdsAsiQ13dkBcqBUTIDMUXM7Q06KmgmQ0Wq6/YwabQBZkpru7AA5U2omQoauR0gd0XNBMcNd3+Qs02gCxJTXd2gJwpNRMgc9TcDpC7omYCZI6abn+hpttfQm6UmgmQ0WpuB8hdUTMBMkfNLg0yJDW7DDXd/gLSqLkrQBo1JwC5K2rmAGnUNEAmavYRkCwp2WWo6fYXkEbNXQHSqDkByF1RMwdIo6YBMLGzj4AsSc0uQ023v4A0au4KkEbNCUDuiPo5QBo1DZCJmn0EZE1qdh1lquv0FpFFzV4A0ak4Ac1fUzAHSqGmATNTsIyBLUrPLUNPtLy

```
NmgbIqdQ0QB01JwBp1DRAGjUNkBPU3DEgjZp9AWRJanYZarr9BaRR0wA5lZoGSKPmBCCNmgZIo6YBco
Ka0wakUbMvgCxJzS5DTbe/gDRqGiCnUtMAadScAKRR0wBp1DRATlBzx4A0avYFkCwp2WWo2QaQJanpz
g6QRk0D5FRqGiCNmh0ANGoaII2aBsgJau4YkEZN98aAmm0AWZKa7uwAadQ0QE6lpgHSqJkA2YaaUwGZ
o6YBcio13f5CzTaALElNd3aANGoaIKdS0wBp1EyAbEPNqYDMUdMAOZWabn+hZhtAlqSm0ztAGjUNKFO
paYA0aiZAtqHmVEDmqGmAnEpNt79Qsw0gS1LTnR0gjZoGyKnUNEAAQ2Q06bmVEDmqGmAnEpNt79Qsw
0gS1LTnR0gjZoGyKnUNEAAaNScAadTMAdKouStAJmoaII2abn+hZhtAlqSm0ztAGjUNKFOpaYA0ak4A0
q1ZA6RRc1eATNQ0QBo13f5CzTaALElNd3aANGoaIKdS0wBp1JwApFEzB0ij5q4AmahpgDRquv2Fmm5/
AwnU3BUGjZoGyAlqbgfICWrmADlBzT4Cs1Q1uww13f4C0qi5K0AaNRMgc9TcDpAT1MwBcoKafQRksWp
2Gwq6/QwkUXNXgDRqJkDmqLkdICeomQPkBDX7CMiS10wy1HT7C0ij5q4AadRMgMxRcztATlAzB8gJav
YRkCwp2WWo6fYXkD0lZgJkjpoGyBw1JwC5K2r2BZAlqdlq0n2F5AzpWCZI6aBsgcNScAuStq9gWQJ
anZZajp9heQM6VmAmS0mbgIHDXnAlkravYFkCwp2WWo6fYXkD0lZgJkjpoGyBw1JwC5K2r2BZAlqdl
qNkGkCwp6bqum40abQBZkpqu67o5qNkGkCwp6bqum40abQBZkpqu67o5qNkGkCwp6bqum40abQBZkpq
u67o5qNkGkCwp6bqum40abQBZkpqu67o5q0m67nwAsiQ1uww1XdedD0CwpGaXoabruvMByJLU7DLUDf
13PgBZkppdhpqu684HIEtSs8tQ03Xd+QBkSwp2Gwq6rjsfgCxJzS5DTdd15w0QJanZZajZBpAlqem6r
puDmm0AWZKaruu60ajZBpAlqem6rpuDmm0AWZKaruu60ajZBpAlqem6rpuDmm0AWZKaruu60ajZBpAl
qem6rpuDmm0AWZKaruu60ajpuu58ALIkNbsMNV3XnQ9AlqRml6Gm67rzAcis10wy1HRddz4AWZKaXYa
aruv0ByBLUrPLUNN13fkAZElqdhlquq47H4AsSc0uQ03XdecDkCwp2WWo2QaQJanpuq6bg5ptAFmSmq
7rujmo2QaQJanpuq6bg5ptAFmSmq7rujmo2QaQJanpuq6bg5ptAFmSmq7rujmo2QaQJanpuq6bg5ptA
FmSmq7rujmo6brufACyJDW7DDVd150PQJakZpehpuu68wHIktTsMtR0XXc+AFmSm12Gmq7rzcgS1Kz
y1DTdd35AGRJanYZarqu0x+ALEnNLkNN13XnA5AlqdlqNkGkCwp6bqum40abQBZkpqu67o5qNkGkCw
p6bqum40abQBZkpqu67o5qNkGkCwp6bqum40abQBZkpqu67o5qNkGkCwp6bqum40abQBZkpqu67o5q0
m67nwAsiQ1uww1XdedD0CwpGaXoabruvMByJLU7DLUDf13PgBZkppdhpqu684HIEtSs8tQ03Xd+QBkS
Wp2Gwq6rjsfgCxJzS5DTdd15w0QJanZZajZBpAlqem6rpuDmm0AWZKaruu60ajZBpAlqem6rpuDmm0A
WZKaruu60ajZBpAlqem6rpuDmm0AWZKaruu60ajpuu58ALIkNbs
MNV3XnQ9AlqRml6Gm67rzAcis10wy1HRddz4AWZKaXYaaruv0ByBLUrPLUNN13fkAZElqdhlquq47H4
AsSc0uQ03XdecDkCwp2WX/N3y+mOLHwCY+AAAAAAElFTkSuQmCC\", \n\t\"errorCode\" :
0, \n\t\"errorInfo\" : \"No error!\n}\n",
7          "result": 0
8      }
9  }
10
11 var generateImagePreviewImageParam = {
12     "displayScale":8
13 }
14
15 generateImagePreviewImage(generateImagePreviewImageParam['displayScale'],
16                           function (error, data) {
17     //通讯超时或websocket打印服务异常
18     if (error) {
19         return alert(error.message);
20     }
21     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
22
23     //预览图生成失败，退出流程
24     if (errorCode !== 0) {
25         return
26     }

```

```
27
28     //解析处理数据
29     var obj = JSON.parse(info);
30     var data = obj.ImageData;
31
32
33});
```

## 五、打印接口说明

### 5.1 开始打印

#### 代码块

```
1  /**
2  * 启动打印任务。
3  *
4  * @param {number} printDensity - 打印浓度，根据不同打印机型号取值范围不同，具体如下：
5  * - B1、B21、B21S、B21_Pro、B203、B3S、B3S_P、B31、B4、K2、K3、K3W、M2、M3：取值
6  * 范围 1~5，默认为 3。
7  * - B50、B11、B50W、B32、Z401、B32R：取值范围 1~15，默认为 8。
8  * @param {number} paperType - 纸张类型，可选值：
9  * 1: 间隙纸
10 * 2: 黑标纸
11 * 3: 连续纸
12 * 4: 定孔纸
13 * 5: 透明纸
14 * 6: 标牌
15 * 10: 黑标间隙纸
16 * @param {string} printMode - 打印模式，可选值：
17 * 1: 热敏
18 * 2: 热转印
19 * 注意，不同打印机型号支持的打印模式有限制，具体如下：
20 * - B1、B21、B21S、B21_Pro、B203、B3S、B3S_P、B31、B4、K2、K3、K3W、B11 仅支持热
21 敏。
22 * - B50、B50W、B32、Z401、B32R、M2、M3 仅支持热转印。
23 * @param {number} count - 总打印份数，表示所有页面的打印份数之和。
24 * 例如，如果你有3页需要打印，第一页打印3份，第二页打印2份，第三页打印5份，那么count的
25 值应为10 (3+2+5) 。
26 * @param {Function} callbackFunction - 打印任务启动后要执行的回调函数。
27 * @example
28 * //返回数据示例
29 * {
  "apiName": "startJob",
  "resultAck": {
    "errorCode": 0,
```

```
30     *         "info": "startJob ok!",
31     *         "result": 0
32     *
33     */
34     * @description 返回结果中的 errorCode 含义如下:
35     *         - 0: 成功
36     *         - -1: 失败, info 表示原因
37     *         - -2: 打印机忙碌, info 表示原因
38     *         - -3: 打印机接收到不支持的参数, 主要是浓度、纸张类型、打印模式, info 表
39     *         示具体原因
40     *         @return {undefined} 此函数不返回任何值。
41     */
42     function startJob(printDensity, printLabelType, printMode, count,
callbackFunction)
```

## 代码块

```
1 //返回数据示例
2 {
3     "apiName": "startJob",
4     "resultAck": {
5         "errorCode": 0,
6         "info": "startJob ok!",
7         "result": 0
8     }
9 }
10
11 startJob(3, 1, 1, 10, function (error, data) {
12     //通讯超时或websocket打印服务异常
13     if (error) {
14         return alert(error.message);
15     }
16     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
17     //开启打印任务失败, 提示错误信息, 退出打印流程
18     if (errorCode !== 0) {
19         return alert(info);
20     }
21
22     //进行下一步操作
23});
```

## 5.2 提交打印任务

### 代码块

```

1  /**
2   * 提交打印任务，并执行回调函数。
3   *
4   * @param {string} [printData=null] - 打印数据的 JSON 字符串。
5   * @param {string} printerImageProcessingInfo - 打印机图像处理信息的 JSON 字符串，  
包含打印份数信息，格式如下：  

6   * {
7   *   "printerImageProcessingInfo": {
8   *     "printQuantity": 1 // 用于指定当前页的打印份数。例如，如果需要打印3页，第一页打  
印3份，第二页打印2份，第三页打印5份，则在3次提交数据时，printerImageProcessingInfo 中  
的 "printQuantity" 值分别应为 3, 2, 5。
9   *   }
10  * }
11  * @param {function} callbackFunction - 提交作业后的回调函数。
12  * @return {undefined} 此函数不返回任何值。
13  *
14  * @description
15  * 需要先开启打印任务，完成绘制后再提交打印任务
16  */
17 function commitJob(printData = null, printerImageProcessingInfo,  
callbackFunction)

```

## 代码块

```

1  //数据提交成功返回数据示例
2  {
3      "apiName": "commitJob",
4      "resultAck": {
5          "errorCode": 0,
6          "info": "commitJob ok!",
7          "result": 0
8      }
9  }
10
11 //打印进度返回示例1：此回调的含义为第一页第一份打印完成
12 {
13     "apiName": "commitJob",
14     "resultAck": {
15         "errorCode": 0,
16         "info": "",
17         "onPrintEPCCodeCompleted": "",
18         "onPrintPageCompleted": 1,//打印完成份数回调
19         "onPrintPageLengthCompleted": 60,
20         "printCopies": 1,//打印完成份数回调(新增)
21         "printPages": 1,//打印完成页数回调(新增)
22         "printQuantity": 1//打印完成页数回调

```

```
23         "time": 0
24     }
25 }
26
27 //打印进度返回示例1：此回调的含义为第一页第二份打印完成
28 {
29     "apiName": "commitJob",
30     "resultAck": {
31         "errorCode": 0,
32         "info": "",
33         "onPrintEPCCodeCompleted": "",
34         "onPrintPageCompleted": 2,//打印完成份数回调
35         "onPrintPageLengthCompleted": 60,
36         "printCopies": 2,//打印完成份数回调(新增)
37         "printPages": 1,//打印完成页数回调(新增)
38         "printQuantity": 1,//打印完成页数回调
39         "time": 0
40     }
41 }
42
43 //打印进度返回示例1：此回调的含义为第二页第一份打印完成
44 {
45     "apiName": "commitJob",
46     "resultAck": {
47         "errorCode": 0,
48         "info": "",
49         "onPrintEPCCodeCompleted": "",
50         "onPrintPageCompleted": 1,//打印完成份数回调
51         "onPrintPageLengthCompleted": 60,
52         "printCopies": 1,//打印完成份数回调(新增)
53         "printPages": 2,//打印完成页数回调(新增)
54         "printQuantity": 2,//打印完成页数回调
55         "time": 0
56     }
57 }
58
59
60 var jsonObj = {"printerImageProcessingInfo": {"printQuantity":1}};
61
62 commitJob(null, JSON.stringify(jsonObj), function (error, data) {
63     //通讯超时或websocket打印服务异常
64     if (error) {
65         return alert(error.message);
66     }
67     const { errorCode, info, printCopies, printPages } =
68     JSON.parse(JSON.stringify(data)).resultAck;
69     var resultInfo = "commitJob ok";
```

```

69     //异常导致打印终止
70     if (errorCode !== 0) {
71         return alert(info);
72     }
73
74
75     //所有页数据的所有份数打印完成
76     if (printPages === list.length && printCopies ===
    jsonObj.printerImageProcessingInfo.printQuantity) {
77         //结束打印任务
78         endJob(function (error, data) {
79             if (error) {
80                 alert(error.message);
81             } else {
82                 const arrParse = JSON.parse(JSON.stringify(data));
83                 if (String(arrParse.resultAck.info).indexOf("endJob ok") > -1)
84                 {
85                     }
86                 }
87
88             });
89             return;
90         }
91
92         //当前页数据提交完成，但是未完所有页数据提交，继续发送下一页数据
93         if (String(arrParse.resultAck.info).indexOf(resultInfo) > -1 && x <
    list.length - 1) {
94             console.log("发送下一页打印数据: ")
95             x++;
96             printTag(list, x);
97         }
98     });

```

## 5.3 结束打印任务

### 代码块

```

1  /**
2   * 结束打印任务
3   *
4   * @param {function} callbackFunction - 结束任务后的回调函数
5   * @description
6   * 收到最后一页最后一份打印页面后调用该函数结束打印任务
7   */
8  function endJob(callbackFunction)

```

## 代码块

```
1 //返回数据示例
2 {
3     "apiName": "endJob",
4     "resultAck": {
5         "errorCode": 0,
6         "info": "endJob ok!",
7         "result": 0
8     }
9 }
10
11 endJob(function (error, data) {
12     //通讯超时或websocket打印服务异常
13     if (error) {
14         return alert(error.message);
15     }
16     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
17
18     if (errorCode !== 0) {
19         return alert(info);
20     }
21
22     alert('打印成功');
23 })；
```

## 5.4 取消打印任务

### 代码块

```
1 /**
2  * 取消当前的打印任务，并执行回调函数。
3  *
4  * @param {function} callbackFunction - 取消打印任务后的回调函数。
5  * @return {undefined} 此函数不返回任何值。
6  */
7 function cancelJob(callbackFunction)
```

### 代码块

```
1 cancelJob(function(error,data){
2     //通讯超时或websocket打印服务异常
3     if (error) {
4         return alert(error.message);
5     }
```

```
6     const { errorCode, info } = JSON.parse(JSON.stringify(data)).resultAck;
7     if (errorCode !== 0) {
8         return alert(info);
9     }
10
11     alert('取消打印成功');
12 });


```

## 六、回调说明

### 代码块

```
1 /**
2  * {
3  *   "apiName": string, // 调用的 API 名称
4  *   "resultAck": {
5  *     "errorCode": number, // 错误代码, 0 表示成功, 其他值表示错误
6  *     "info": string, // 信息字符串, 描述操作结果
7  *     "result": number // 结果代码, 通常与 errorCode 一致
8  *   }
9  * }
10 */
11 */
12 {
13   "apiName": "commitJob",
14   "resultAck": {
15     "errorCode": 0,
16     "info": "commitJob ok!",
17     "result": 0
18   }
19 }
```

## 七、错误码相关说明

### 7.1 错误码说明描述

### 代码块

```
1 * 0-无错误
2 //打印机返回部分
3 * 1-盒子打开
4 * 2-缺纸
5 * 3-电量不足
6 * 4-电池异常
7 * 5-手动停止
```

```
8 * 6-数据错误
9 * 7-温度过高
10 * 8-走纸异常
11 * 9-正在打印
12 * 10-未检测到打印头
13 * 11-环境温度过低
14 * 12-打印头松动
15 * 13-未检测到碳带
16 * 14-不匹配的耗材
17 * 15-用完的碳带
18 * 16-不支持的纸张类型
19 * 17-设置纸张类型失败
20 * 18-设置打印模式失败
21 * 19-设置浓度失败
22 * 20-写入rfid失败
23 * 21-边距参数错误
24 * 22-超时错误
25 * 23-断开连接
26 * 24-画板参数设置错误
27 * 25-旋转角度参数错误
28 * 26-json参数错误
29 * 27-出纸异常 (关闭上盖检测)
30 * 28-检查纸张类型
31 * 29-碳带与打印模式不匹配
32 * 30-设置浓度不支持
33 * 31-不支持的打印模式
34 * 32-标签材质设置异常, 请重新设置
35 * 33-不支持该标签材质, 请更换或重新设置
36 * 34-不支持RFID写入
37 * 50-非法标签
38 * 51-非法碳带和标签
39
40 //内部使用
41 //E_UNKNOW_ERROR = 255,
```

