# VCS SWAP SDK使用说明文档

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| 版本 | 修改人 | 修改日期 | 修改内容 |
| V 1.0 | 周浩 | 2022-01-26 | 1. Markdown 版本改成Word版本 2. 删除NotificationManager相关使用说明 3. 修改Service类参考代码 4. 增加详细指令格式到附录 5. 增加名字解释 6. 规整目录结构 |
| V1.1 | 周浩 | 2022-02-10 | 1. 修改错误的方法 2. 修改对齐格式 3. 增加2.3.3：VTS使用说明和代码参考 4. Demo中增加TTS停止代码参考 5. 修改TtsOption默认值 6. 增加2.1.3：msg格式说明 7. **修改和VCS通信返回值的定义** 8. 修改附录中返回值指令格式的描述 |
| V1.2 | 段昌侠  褚立超 | 2022-07-22 | 1.添加3.2.16仪表精简屏幕相关指令 |
| V1.3 | 段昌侠 | 2022-08-03 | 1.添加relax相关指令，更新relax指令 |

SWAP SDK 是VCS模块提供给下游APP使用系统中语音能力的aar包，以 swap-xxx.aar 命名。主要提供以下能力：

1. 接收语音操作指令
2. 使用TTS能力
3. 使用可见即可说能力
4. 读取和修改语音设置

## SDK使用

### 名词解释

|  |  |  |
| --- | --- | --- |
| VCS | Voice Control Service | 语音控制服务 |
| TTS | Text To Speech | 文本转语音 |
| VTS | Voice Touch Screen | 语音触控屏幕（可见即可说） |

### 配置工程

获取到的aar包放到集成模块的\*\*libs\*\*目录下， 并在模块的\*\*build.gradle\*\*中增加依赖。

注意：swap-xxx.aar需要和libs目录下文件名保存一致。

1. dependencies {
2. ......
3. implementation files('libs/swap-xxx.aar')
4. ......
5. }

## SDK功能说明

swap SDK 需要和VCS apk 配合使用，swap 和VCS通过aidl进行通信。

### 接收语音操作指令

语音系统下发的指令通过VCS进行集中处理，处理后会分发不同的请求到各个应用中，每个应用都需要按照要求实现服务监听VCS的请求，把响应回传到VCS中。

新建service类：

1. public class XxxService extends Service {
2. private static final String TAG = "XxxService";
3. *//mBridgeListeners 用于保存客户端注册的监听器，用于异步返回给客户端操作结果*
4. private final Set<IBridgeListener> mBridgeListeners = new HashSet<>();
5. *// 实现aidl stub*
6. private final IBridge.Stub mBind = new IBridge.Stub() {
7. @Override
8. public String sendRequest(String uuid, String msg) throws RemoteException {
9. *// 接收VCS发来的json指令。*
10. *// 可以同步返回结果: 组装成json返回；*
11. *// 不能同步处理结果: 返回null, 然后通过listener通知处理结果；*
12. xxxFunction(uuid);
13. return null;
14. }
15. @Override
16. public void registerBridgeListener(IBridgeListener bridgeListener) throws RemoteException {
17. mBridgeListeners.add(bridgeListener);
18. }
19. };
20. private void xxxFunction(final String uuid) throws RemoteException {
21. *//处理数据，调用接口，返回结果或通过listener回调给VCS*
22. String callbackMsg = "";
23. for (IBridgeListener listener : mBridgeListeners) {
24. if (null != listener) {
25. *// 操作结果调用 onResponse*
26. listener.onResponse(uuid, callbackMsg);
27. }
28. }
29. }
30. @Override
31. public void onCreate() {
32. super.onCreate();
33. }
34. @Override
35. public IBinder onBind(Intent intent) {
36. return mBind;
37. }
38. @Override
39. public boolean onUnbind(Intent intent) {
40. return super.onUnbind(intent);
41. }
42. @Override
43. public void onDestroy() {
44. super.onDestroy();
45. }
46. }

在AndroidManifest.xml中注册XxxService类

1. <application>
2. ......
3. <service
4. android:name=".XxxService"
5. android:enabled="true"
6. android:exported="true" />
7. ......
8. </application>

注意：VCS发送的请求和需要的响应都是json格式，详细请求和响应参考附录

Service中收到VCS的请求可以通过两种方式返回操作结果给VCS。

1. 收到请求后同步处理，把处理结果返回给VCS。
2. 收到请求后异步处理，通过VCS注册的监听器返回给VCS处理结果。

#### IBridge.Stub 接口说明

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **String** | **sendRequest(String uuid, String msg)**  **uuid：标识此次请求的唯一识别码 msg：json格式指令字符串**  **返回值： null 或 json 格式字符串**  **null表示此次请求无法同步返回给客户端，需要客户端通过监听器接收指令执行结果 json格式字符串表示此次请求的请求结果.** |

#### IBridgeListener 接口说明

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **void** | **onResponse(String uuid, String msg)**  **uuid：返回码，需要和请求码一致 msg：额外信息，可以为null、json格式字符串** |

#### msg 格式说明

同步返回给VCS结果和通过IBridgeListener接口返回给VCS指令执行结果，msg的格式一致。

|  |  |
| --- | --- |
| **属性|字段** | **方法和说明** |
| **code** | **执行结果返回码，0：成功；非0：失败；方便后续扩展** |
| **msg** | **指令执行之后的播报信息。**  **例如：打开空调指令执行成功，**  **需要播报提示的内容为：“已为您打开空调”** |
| **nluType** | **执行的指令类型。**  **空调：3**  **电量：8**  **油量：9**  **座椅：10**  **胎压：11** |
| **background** | **标适此次msg信息是否需要前台播报。**  **前台播报：播报内容在页面前台提示用户**  **后台播报：只播报内容，没有界面提示** |

### 使用TTS能力

VCS内部集成了TTS服务，应用可以通过swap sdk 中提供的 TtsClientManager 类使用TTS能力。

#### TtsClientManager 接口说明

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **TtsClientManager** | **TtsClientManager(@NonNull Context context)**  **context：上下文** |
| **TtsClientManager** | **TtsClientManager(@NonNull Context context, @NonNull String packageName, @NonNull String serviceName)**  **context：上下文 packageName：VCS 包名 serviceName：VCS 中TTS服务名** |
| **int** | **startTts(String text, TtsOption option)**  **text：待合成的文本 option：合成文本时的选项** |
| **int** | **startTts(String text, TtsOption option, ITtsListener listener)**  **text：待合成的文本 option：合成文本时的选项 listener：监听器** |
| **void** | **setTtsListener(ITtsListener ttsListener)**  **listener：监听器** |

#### TtsOption说明

|  |  |
| --- | --- |
| **属性|字段** | **方法和说明** |
| **role** | **发音人角色** |
| **speed** | **语速** |
| **pitch** | **语调** |
| **level** | **等级** |
| **nluType** | **附带反馈类型（用于播放TTS的同时通知APA模块）** |
| **audioFocusType** | **音频焦点类型** |
| **background** | **前后台播报（前台：向用户展示播放的文本；后台：只播放声音，不展示文本）** |

#### ITtsListener接口说明

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **void** | **onSpeechStart()**  **开始播放回调** |
| **void** | **onSpeechFinished()**  **播放结束回调** |
| **void** | **onSpeechInterrupted()**  **播放被打断** |
| **void** | **onSpeechError(int errorCode)**  **播放出现错误**  **errorCode：错误码** |

### 使用VTS能力

VCS内部集成了VTS服务，应用可以通过swap sdk 中提供的 VtsClientManager 类使用Vts能力。

#### VtsClientManager 接口说明

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **void** | [**registerBack**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerBack-java.lang.String-java.lang.String:A-)**(java.lang.String name, java.lang.String[] utterance)**  **控件类型：返回 支持话术：返回 友情提示：指令接收参考：**[**IVtsListener.onBack()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onBack--) |
| **void** | [**registerBuyMembership**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerBuyMembership-java.lang.String-)**(java.lang.String name)**  **控件类型：购买会员 支持话术：买会员、购买会员 友情提示：指令接收参考：**[**IVtsListener.onBuyMember()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onBuyMember--) |
| **void** | [**registerCancel**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerCancel-java.lang.String-)**(java.lang.String name)**  **控件类型：取消 支持话术：取消、点击取消 友情提示：指令接收参考：**[**IVtsListener.onCancel()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onCancel--) |
| **void** | [**registerChangeSelect**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerChangeSelect-java.lang.String-java.lang.String:A-)**(java.lang.String name, java.lang.String[] utterance)**  **控件类型：列表控制 支持话术：上一个，下一个，换一个 友情提示：指令接收参考：**[**IVtsListener.onChangeSelect(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onChangeSelect-java.lang.String-) |
| **void** | [**registerCheckOrder**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerCheckOrder-java.lang.String-)**(java.lang.String name)**  **控件类型：查看订单 支持话术：查看xx订单，查看订单 友情提示：指令接收参考：**[**IVtsListener.onCheckOrder(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onCheckOrder-java.lang.String-) |
| **void** | [**registerClearCache**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerClearCache-java.lang.String-)**(java.lang.String name)**  **控件类型：清除缓存 支持话术：清除缓存、清空缓存 友情提示：指令接收参考：**[**IVtsListener.onClearCache()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onClearCache--) |
| **void** | [**registerConfirm**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerConfirm-java.lang.String-)**(java.lang.String name)**  **控件类型：确认 支持话术：确认、点击确认 友情提示：指令接收参考：**[**IVtsListener.onConfirm()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onConfirm--) |
| **void** | [**registerDefault**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerDefault--)**()**  **控件类型：默认话术[第 X 个]当 X 超出范围时的兜底控件 支持话术：第X个，X为超出范围的数值） 友情提示：指令接收参考：**[**IVtsListener.onDefault()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onDefault--) |
| **void** | [**registerDelete**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerDelete-java.lang.String-java.lang.String:A-int-)**(java.lang.String name, java.lang.String[] utterances, int index)**  **控件类型：删除 支持话术：删除xxx，删除第x项 友情提示：指令接收参考：**[**IVtsListener.onDelete(int, String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onDelete-int-java.lang.String-) |
| **void** | [**registerExpand**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerExpand-java.lang.String-)**(java.lang.String name)**  **控件类型：展开 支持话术：查看更多，查看更多结果 友情提示：指令接收参考：**[**IVtsListener.onExpand()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onExpand--) |
| **void** | [**registerFavorite**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerFavorite-java.lang.String-int-java.lang.String:A-)**(java.lang.String name, int index, java.lang.String[] utterances)**  **控件类型：收藏 支持话术：收藏(取消收藏)xxx，收藏（取消收藏）第几项 友情提示：指令接收参考：**[**IVtsListener.onFavorite(String, int, String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onFavorite-java.lang.String-int-java.lang.String-) |
| **void** | [**registerFilter**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerFilter--)**()**  **控件类型：筛选 支持话术：筛选/只看 + 【筛选条件】 友情提示：指令接收参考：**[**IVtsListener.onFilter(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onFilter-java.lang.String-) |
| **void** | [**registerInput**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerInput-java.lang.String-)**(java.lang.String type)**  **控件类型：输入 支持话术：时间输入xxx，地址输入xxx 友情提示：指令接收参考：**[**IVtsListener.onInput(String, String, String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onInput-java.lang.String-java.lang.String-java.lang.String-) |
| **void** | [**registerLogin**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerLogin-java.lang.String-)**(java.lang.String name)**  **控件类型：登录 支持话术：去登录、登录、登录xxx 友情提示：指令接收参考：**[**IVtsListener.onLogin()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onLogin--) |
| **void** | [**registerNavigation**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerNavigation-java.lang.String-java.lang.String:A-int-)**(java.lang.String name, java.lang.String[] utterances, int index)**  **控件类型：导航 支持话术：导航过去/导航去这里/开始导航，导航到xxx，导航第x个 友情提示：指令接收参考：**[**IVtsListener.onNavigation(String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onNavigation-java.lang.String-int-) |
| **void** | [**registerPager**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerPager--)**()**  **控件类型：翻页 支持话术：打开（上/下）一页，打开第X页，打开（首页/最后一页） 友情提示：指令接收参考：**[**IVtsListener.onPager(String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onPager-java.lang.String-int-) |
| **void** | [**registerPay**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerPay-java.lang.String-)**(java.lang.String name)**  **控件类型：确认支付 支持话术：去支付、确认支付 友情提示：指令接收参考：**[**IVtsListener.onPay()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onPay--) |
| **void** | [**registerPhone**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerPhone-java.lang.String-java.lang.String:A-int-)**(java.lang.String name, java.lang.String[] utterances, int index)**  **控件类型：电话 支持话术：打电话给xxx 友情提示：指令接收参考：**[**IVtsListener.onPhoneCall(int, String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onPhoneCall-int-java.lang.String-) |
| **void** | [**registerRanker**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerRanker-java.lang.String-)**(java.lang.String type)**  **控件类型：排序 支持话术：按[销量/价格/面积/距离..]排序 按[销量/价格/面积/距离..]** |
| **void** | [**registerSearch**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerSearch-java.lang.String-)**(java.lang.String name)**  **控件类型：搜索 支持话术：搜xxx 友情提示：指令接收参考：**[**IVtsListener.onSearch(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onSearch-java.lang.String-) |
| **void** | [**registerSelect**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerSelect-java.lang.String-int-)**(java.lang.String name, int index)**  **控件类型：点击，选择 支持话术：点击[name]，选择[name]，选择第[index]个 友情提示：指令接收参考：**[**IVtsListener.onSelect(String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onSelect-java.lang.String-int-) |
| **void** | [**registerSelect**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerSelect-java.lang.String-int-java.lang.String:A-)**(java.lang.String name, int index, java.lang.String[] utterances)**  **控件类型：点击，选择 支持话术：点击[name]，选择[name]，选择第[index]个 友情提示：指令接收参考：**[**IVtsListener.onSelect(String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onSelect-java.lang.String-int-) |
| **void** | [**registerTab**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerTab-java.lang.String-int-)**(java.lang.String tabName, int index)**  **控件类型：Tab 支持话术：切换到[TabName]/切换为[TabName] 友情提示：指令接收参考：**[**IVtsListener.onTabSelect(String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onTabSelect-java.lang.String-int-) |
| **void** | [**registerTab**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerTab-java.lang.String-int-java.lang.String:A-)**(java.lang.String tabName, int index, java.lang.String[] utterances)**  **控件类型：Tab 支持话术：切换到[TabName]/切换为[TabName] 友情提示：指令接收参考：** |
| **void** | [**registerTab**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerTab-java.lang.String-int-java.lang.String:A-)**(java.lang.String tabName, int index, java.lang.String[] utterances)**  **控件类型：Tab 支持话术：切换到[TabName]/切换为[TabName] 友情提示：指令接收参考：** |
| **void** | [**registerTab**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerTab-java.lang.String-int-java.lang.String:A-)**(java.lang.String tabName, int index, java.lang.String[] utterances)**  **控件类型：Tab 支持话术：切换到[TabName]/切换为[TabName] 友情提示：指令接收参考：** |
| **void** | **enableVtsCapability()**  **可见即可说功能生效(使能可见即可说)** |
| **void** | **disableVtsCapability()**  **可见即可说功能失效(使不能可见即可说)** |
| **void** | **addVtsListener(IVtsListener listener)**  **增加可见即可说监听**  **接口参数 listener: 监听器** |
| **void** | **deleteVtsListener(IVtsListener listener)**  **删除可见即可说监听**  **接口参数 listener: 监听器** |

#### IVtsListener接口说明

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **void** | [**onBack**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onBack--)**()**  **收到指令：返回；当使用**[**VtsClientManager .registerBack(String, String[])**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerBack-java.lang.String-java.lang.String:A-)**注册的能力触发时调用此方法** |
| **void** | [**onBuyMember**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onBuyMember--)**()**  **收到指令：购买会员；当使用**[**VtsClientManager .registerBuyMembership(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerBuyMembership-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onCancel**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onCancel--)**()**  **收到指令：取消、点击取消；当使用**[**(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerCancel-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onChangeSelect**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onChangeSelect-java.lang.String-)**(java.lang.String select)**  **收到指令：下一个、上一个、换一个；当使用**[**VtsClientManager .registerChangeSelect(String, String[])**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerChangeSelect-java.lang.String-java.lang.String:A-)**注册的能力触发时调用此方法** |
| **void** | [**onCheckOrder**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onCheckOrder-java.lang.String-)**(java.lang.String type)**  **收到指令：查看xx订单，查看订单；当使用**[**VtsClientManager .registerCheckOrder(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerCheckOrder-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onClearCache**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onClearCache--)**()**  **收到指令：清除缓存；当使用**[**VtsClientManager .registerClearCache(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerClearCache-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onConfirm**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onConfirm--)**()**  **收到指令：确认、点击确认；当使用**[**VtsClientManager .registerConfirm(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerConfirm-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onDefault**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onDefault--)**()**  **收到指令：[第 X 个]当 X 超出范围时的回调指令；当使用**[**VtsClientManager .registerDefault()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerDefault--)**注册的能力触发时调用此方法** |
| **void** | [**onDelete**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onDelete-int-java.lang.String-)**(int index, java.lang.String name)**  **收到指令：删除xxx，删除第x项；当使用**[**VtsClientManager .registerDelete(String, String[], int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerDelete-java.lang.String-java.lang.String:A-int-)**注册的能力触发时调用此方法** |
| **void** | [**onExpand**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onExpand--)**()**  **收到指令：查看更多，查看更多结果； 当使用**[**VtsClientManager .registerExpand(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerExpand-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onFavorite**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onFavorite-java.lang.String-int-java.lang.String-)**(java.lang.String type, int index, java.lang.String name)**  **收到指令：收藏(取消收藏) xxx，收藏（取消收藏）第几项；当使用**[**VtsClientManager .registerFavorite(String, int, String[])**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerFavorite-java.lang.String-int-java.lang.String:A-)**注册的能力触发时调用此方法** |
| **void** | [**onFilter**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onFilter-java.lang.String-)**(java.lang.String content)**  **收到指令：筛选/只看 + [筛选条件]；当使用**[**VtsClientManager .registerFilter()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerFilter--)**注册的能力触发时调用此方法** |
| **void** | [**onInput**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onInput-java.lang.String-java.lang.String-java.lang.String-)**(java.lang.String content, java.lang.String type, java.lang.String time)**  **收到指令：时间输入xxx，地址输入xxx； 当使用**[**VtsClientManager .registerInput(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerInput-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onLogin**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onLogin--)**()**  **收到指令：去登录、登录、登录xxx；当使用**[**VtsClientManager .registerLogin(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerLogin-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onNavigation**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onNavigation-java.lang.String-int-)**(java.lang.String content, int index)**  **收到指令：导航过去/导航去这里/开始导航，导航到xxx，导航第x个；当使用**[**VtsClientManager .registerNavigation(String, String[], int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerNavigation-java.lang.String-java.lang.String:A-int-)**注册的能力触发时调用此方法** |
| **void** | [**onPager**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onPager-java.lang.String-int-)**(java.lang.String event, int value)**  **当使用**[**VtsClientManager .registerPager()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerPager--)**注册的能力触发时调用此方法** |
| **void** | [**onPay**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onPay--)**()**  **收到指令：去支付、确认支付；当使用**[**VtsClientManager .registerPay(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerPay-java.lang.String-)**注册的能力触发时调用此方法** |
| **void** | [**onPhoneCall**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onPhoneCall-int-java.lang.String-)**(int index, java.lang.String name)**  **收到指令：打电话给xxx；当使用**[**VtsClientManager .registerPhone(String, String[], int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerPhone-java.lang.String-java.lang.String:A-int-)**注册的能力触发时调用此方法** |
| **void** | [**onRanker**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onRanker-java.lang.String-java.lang.String-)**(java.lang.String type, java.lang.String range)**  **收到指令：按[销量/价格/面积/距离..]排序 按[销量/价格/面积/距离. .]** |
| **void** | [**onScroll**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onScroll-java.lang.String-java.lang.String-int-)**(java.lang.String direction, java.lang.String event, int value)**  **当使用**[**VtsClientManager .registerScroll()**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerScroll--)**注册的能力触发时调用此方法** |
| **void** | [**onSearch**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onSearch-java.lang.String-)**(java.lang.String content)**  **收到指令：搜索xxx；当使用**[**VtsClientManager .registerSearch(String)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerSearch-java.lang.String-)**()}注册的能力触发时调用此方法** |
| **void** | [**onSelect**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onSelect-java.lang.String-int-)**(java.lang.String name, int index)**  **当使用**[**VtsClientManager .registerSelect(String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerSelect-java.lang.String-int-)**注册的能力触发时调用此方法； content不存在时为null，index不存在时为<=0的值** |
| **void** | [**onTabSelect**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsDirectiveListener.html#onTabSelect-java.lang.String-int-)**(java.lang.String name, int index)**  **当使用**[**VtsClientManager .registerTab(java.lang.String, int)**](D:/AiRiChe/Ford/09%20%E7%AC%AC%E4%B8%89%E6%96%B9/BaiDu/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/%E6%89%80%E8%A7%81%E5%8D%B3%E5%8F%AF%E8%AF%B4/api-doc/com/baidu/che/voice/control/vts/../../../../../../com/baidu/che/voice/control/vts/VtsCapabilityBuilder.html#registerTab-java.lang.String-int-)**注册的能力触发时调用此方法； 回调此方法；** |

#### Vts使用说明

应用在前台，需要VTS能力时候相继调用注册能力、设置监听(非每次必须)、使能接口，从监听器中接收用户喊的词。

1. **public** **void** testVTS(View view) {
2. Log.d(TAG, "testVTS: ");
3. //注册VTS能力
4. mVtsClientManager.registerSelect("确定", 1);
5. mVtsClientManager.registerSelect("取消", 2);
6. mVtsClientManager.registerSelect("返回", 3);
7. //增加回调监听
8. mVtsClientManager.addVtsListener(vtsListener);
9. //VTS使能,使能之后，唤醒语音助手，喊注册的词，从监听器中接收回调
10. mVtsClientManager.enableVtsCapability();
11. }

应用不可见（不需要可见即可说能力）的时候应当删除注册的VTS监听，防止当前在前台的应用注册的VTS能力触发后发送给自己，再关闭VTS能力。

1. @Override
2. **protected** **void** onPause() {
3. **super**.onPause();
4. //删除VTS监听器，防止别人注册的VTS能力触发后发送给自己消息
5. mVtsClientManager.deleteVtsListener(vtsListener);
6. //关闭VTS能力
7. mVtsClientManager.disableVtsCapability();
8. }

### 读取和修改语音设置

swap sdk 内部封装了语音设置的读取和修改接口，外部应用可以通过sdk提供的VoiceSettingManager接口读取和修改语音设置项。

|  |  |
| --- | --- |
| **限定符和类型** | **方法和说明** |
| **int** | **getGlobalVwkSwitch()**  **获取全局唤醒开关**  **返回值 1:开启； -1:关闭** |
| **int** | **setGlobalVwkSwitch(int value)**  **设置全局唤醒开关**  **接口参数 value: 1：开启；-1：关闭**  **返回值 0：成功；非0：失败** |
| **void** | **setGlobalVwkObserver(VoiceSettingObserver observer)**  **设置全局唤醒开关监听**  **接口参数 observer:监听器** |
| **int** | **getCustomVwkSwitch()**  **获取自定义唤醒开关**  **返回值 1:开启； -1:关闭** |
| **int** | **setCustomVwkSwitch(int value)**  **设置自定义唤醒开关**  **接口参数 value: 1：开启；-1：关闭**  **返回值 0：成功；非0：失败** |
| **void** | **setCustomVwkSwitchObserver(VoiceSettingObserver observer)**  **设置自定义唤醒开关监听**  **接口参数 observer:监听器** |
| **int** | **getOneshotSwitch()**  **获取oneshot开关**  **返回值 1:开启； -1:关闭** |
| **int** | **setOneshotSwitch(int value)**  **设置oneshot开关**  **接口参数 value: 1：开启；-1：关闭**  **返回值 0：成功；非0：失败** |
| **void** | **setOneshotSwitchObserver(VoiceSettingObserver observer)**  **设置oneshot开关监听**  **接口参数 observer:监听器** |
| **int** | **getSceneVwkSwitch()**  **获取场景唤醒开关**  **返回值 1:开启； -1:关闭** |
| **int** | **setSceneVwkSwitch(int value)**  **设置场景唤醒开关**  **接口参数 value: 1：开启；-1：关闭**  **返回值 0：成功；非0：失败** |
| **void** | **setSceneVwkSwitchObserver(VoiceSettingObserver observer)**  **接口参数 observer:监听器** |
| **String** | **getTtsRole()**  **获取TTS发音人**  **返回值 发音人名称** |
| **int** | **setTtsRole(String role)**  **接口参数 role: 发音人名称**  **返回值 0：成功；非0：失败** |
| **void** | **setTtsRoleObserver(VoiceSettingObserver observer)**  **设置TTS发音人监听**  **接口参数 observer:监听器** |
| **String** | **getCustomVwkWord()**  **获取自定义唤醒词**  **返回值 自定义唤醒词** |
| **int** | **setCustomVwkWord(String vwkWord)**  **接口参数 vwkWord: 自定义唤醒词**  **返回值 0：成功；非0：失败** |
| **void** | **setCustomVwkWordObserver(VoiceSettingObserver observer)**  **接口参数 observer:监听器** |

## 附录

### 3.1车控车设模块

#### 3.1.1. 打开/关闭 空调/AC

{

"module":"VEHICLE\_CONTROL",

"function":"setHvacState",

"param":{

"position":1,

"state":true

}}

position：位置信息

* 0x03 : 前排
* 0x0C : 后排

state:状态

* true : 打开
* false : 关闭

结果格式：

{

"code":0,

"msg":"需要播报的文本",

"nluType":3,

"background":false

}

#### 3.1.2. 打开/关闭 MAX AC

{

"module":"VEHICLE\_CONTROL",

"function":"setMaxAcState",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.3. 打开/关闭 Auto 模式

{

"module":"VEHICLE\_CONTROL",

"function":"setAutoMode",

"param":{

"position":1,

"state":true

}}

position：位置信息

* 0x03 : 前排
* 0x0C : 后排

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.4. 打开/关闭 同步模式

{

"module":"VEHICLE\_CONTROL",

"function":"setSyncState",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.5. 打开/关闭 后排空调锁

{

"module":"VEHICLE\_CONTROL",

"function":"setRearPanelLock",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.6. 打开/关闭 最大前除霜

{

"module":"VEHICLE\_CONTROL",

"function":"setMaxDefrostState",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.7. 设置空调循环模式

{

"module":"VEHICLE\_CONTROL",

"function":"setCycleMode",

"param":{

"mode":1

}}

mode:模式

* 1 : 内循环
* 2 : 外循环

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.8. 调节空调温度

{

"module":"VEHICLE\_CONTROL",

"function":"adjustTemperature",

"param":{

"position":1,

"shift":-3

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 前排
* 0x0C : 后排
* 0x0F : 全车

shift:偏移值

* 正值 : 调高温度
* 负值 : 调低温度

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.9. 设置空调温度

{

"module":"VEHICLE\_CONTROL",

"function":"setTemperature",

"param":{

"position":1,

"target":24

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 前排
* 0x0C : 后排
* 0x0F : 全车

target: 温度值

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.10. 调整空调风速

{

"module":"VEHICLE\_CONTROL",

"function":"adjustFanSpeed",

"param":{

"position":1,

"shift":-2

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 前排
* 0x0C : 后排
* 0x0F : 全车

shift:调整偏移值

* 正值 : 调高风速
* 负值 : 调低风速

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.11. 设置空调风速

{

"module":"VEHICLE\_CONTROL",

"function":"setFanSpeed",

"param":{

"position":1,

"target":3

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 前排
* 0x0C : 后排
* 0x0F : 全车

target:空调目标风速

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.12. 设置空调吹风模式

{

"module":"VEHICLE\_CONTROL",

"function":"setBlowerMode",

"param":{

"position":1,

"mode":1

}}

position：当前此参数无用

mode:吹风模式

* 0x01 : 吹窗
* 0x02 : 吹面
* 0x04 : 吹脚
* 0x03 : 吹面 + 吹窗
* 0x05 : 吹窗 + 吹脚
* 0x06 : 吹面 + 吹脚

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.13. 打开/关闭 智能馨风

{

"module":"VEHICLE\_CONTROL",

"function":"setIntellectWind",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.14. 打开/关闭 座舱新风

{

"module":"VEHICLE\_CONTROL",

"function":"setCabinFreshAir",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.15. 打开/关闭 电动出风口

{

"module":"VEHICLE\_CONTROL",

"function":"setOutletEnable",

"param":{

"position":1,

"state":true

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 后排
* 0x03 : 主副驾

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.16. 设置电动出风口吹风模式

{

"module":"VEHICLE\_CONTROL",

"function":"setOutletMode",

"param":{

"position":1,

"mode":1

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 主副驾

mode:吹风模式

* 0x1 : 上下扫风
* 0x2 : 左右扫风
* 0x3 : 全域扫风
* 0x4 : 朝人吹风
* 0x3 : 避人吹风

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.17. 打开/关闭 方向盘加热

{

"module":"VEHICLE\_CONTROL",

"function":"setSteeringWheelHeatState",

"param":{

"state":1

}}

state:开关（方向盘加热等级，预留）

* 0 : 关闭
* 1 : 打开

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.18. 打开/关闭 座椅加热

{

"module":"VEHICLE\_CONTROL",

"function":"setSeatHeatState",

"param":{

"position":1,

"state":1

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 主副驾

state:开关或加热等级

* 0 : 关闭
* 1 : 打开或1档

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.19. 打开/关闭 座椅通风

{

"module":"VEHICLE\_CONTROL",

"function":"setSeatVentilateState",

"param":{

"position":1,

"state":1

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 主副驾

state:通风状态，通风等级

* 0 : 关闭
* 1 : 打开或1级别

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.20. 打开/关闭 座椅按摩

{

"module":"VEHICLE\_CONTROL",

"function":"setSeatMassageState",

"param":{

"position":1,

"state":1

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 主副驾

state:座椅按摩状态

* 0 : 关闭
* 1 : 打开

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.21. 调整座椅

{

"module":"VEHICLE\_CONTROL",

"function":"adjustSeatState",

"param":{

"position":12,

"mode":1,

"value":0

}}

position：位置信息

* 0x0C : 二排（目前需求中只有二排座椅调节）

mode: 调整部位

* 0x01 : 座椅上下调
* 0x02 : 座椅前后调
* 0x04 ：座椅靠背前后调

value: 调整值

* 负值：向下或向后
* 0：复位
* 正值：向上或向前

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.22. 打开/关闭 氛围灯

{

"module":"VEHICLE\_CONTROL",

"function":"setAtmosphereLampState",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.23. 调整氛围灯亮度

{

"module":"VEHICLE\_CONTROL",

"function":"adjustAtmosphereLampBrightness",

"param":{

"shift":-20

}}

shift:调整值

* 正值 : 亮度调高
* 负值 : 亮度调低

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.24. 设置氛围灯亮度

{

"module":"VEHICLE\_CONTROL",

"function":"setAtmosphereLampBrightness",

"param":{

"target":100

}}

target:目标亮度值

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.25. 设置氛围灯颜色

{

"module":"VEHICLE\_CONTROL",

"function":"setAtmosphereLampColor",

"param":{

"color":6,

}}

color:颜色值

* 0x00 : 顺序切换颜色
* 0x01 : 冰蓝色
* 0x02 : 橙色
* 0x03 : 浅蓝色
* 0x04 : 红色
* 0x05 : 绿色
* 0x06 : 深蓝色
* 0x07 : 紫色

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.26. 打开/关闭 香氛系统

{

"module":"VEHICLE\_CONTROL",

"function":"setFragranceState",

"param":{

"state":true

}}

state:状态

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.27. 调节香氛浓度

{

"module":"VEHICLE\_CONTROL",

"function":"adjustFragranceConcentration",

"param":{

"shift":1

}}

shift:调节值

* 正值 : 调高浓度
* 负值 : 调低浓度

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.28. 设置香氛浓度

{

"module":"VEHICLE\_CONTROL",

"function":"setFragranceConcentration",

"param":{

"target":3

}}

target:浓度等级（1~3）

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.29. 设置香氛气味类型

{

"module":"VEHICLE\_CONTROL",

"function":"setFragranceType",

"param":{

"value":1

}}

value:香味类型（0~3）

* 0 : 顺序切换
* 1 : 香味一
* 2 : 香味二
* 3 : 香味三

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.30. 天窗操作

{

"module":"VEHICLE\_CONTROL",

"function":"setSunRoofState",

"param":{

"state":100,

}}

state: 天窗状态

* 0 : 关闭
* 50 : 半开
* 100 : 全开
* 负值 ：翘起(预留)

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.31. 天窗遮阳板操作

{

"module":"VEHICLE\_CONTROL",

"function":"setSunShadeState",

"param":{

"state":0,

}}

state: 天窗遮阳板状态

* 0 : 关闭
* 50 : 半开
* 100 : 全开

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.32. 打开/关闭 后备箱

{

"module":"VEHICLE\_CONTROL",

"function":"setCarBootState",

"param":{

"state":0

}}

state:状态值

* 0 : 关闭
* 100 : 打开

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.33. 打开/关闭 前舱盖

{

"module":"VEHICLE\_CONTROL",

"function":"setForeHatchState",

"param":{

"state":0

}}

state:前舱盖状态值

* 0 : 关闭
* 100 : 打开

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.34. 查询汽车电量

{

"module":"VEHICLE\_CONTROL",

"function":"queryVehicleBatterMessage",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.35. 查询汽车油量

{

"module":"VEHICLE\_CONTROL",

"function":"queryVehicleFuelMessage",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.36. 查询胎压信息

{

"module":"VEHICLE\_CONTROL",

"function":"queryVehicleTirePressure",

"param":{

"position":12

}}

position：位置信息

* 0x01 : 左前轮
* 0x02 : 右前轮
* 0x03 : 前轮
* 0x04 : 左后轮
* 0x08 : 右后轮
* 0x05 : 左侧车轮
* 0x0A : 右侧车轮
* 0x0F : 全车车辆

结果格式：参考2.1.3 和3.1.1章节

#### 3.1.37. 查询违章信息

{

"module":"VEHICLE\_CONTROL",

"function":"queryVehicleViolationRecord",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

### 3.2系统设置模块

#### 3.2.1. 打开/关闭 蓝牙

{

"module":"SYSTEM\_SETTING",

"function":"setBluetoothState",

"param":{

"position":1,

"state":true

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 主副驾

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.2. 打开/关闭 WIFI

{

"module":"SYSTEM\_SETTING",

"function":"setWifiState",

"param":{

"state":false

}}

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.3. 打开/关闭 车辆热点

{

"module":"SYSTEM\_SETTING",

"function":"setHotspotState",

"param":{

"state":true

}}

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.4. 更换主题

{

"module":"SYSTEM\_SETTING",

"function":"changeTheme",

"param":{

"theme":0

}}

theme: 主题。0：切换主题；1、2、3、4... 主题代号。

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.5. 打开/关闭 屏幕

{

"module":"SYSTEM\_SETTING",

"function":"openScreen",

"param":{

"state":true

}}

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.6. 调整屏幕亮度

{

"module":"SYSTEM\_SETTING",

"function":"adjustScreenBrightness",

"param":{

"shift":-8

}}

value：亮度调整值；正值：调高亮度；负值：调低亮度

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.7. 设置屏幕亮度

{

"module":"SYSTEM\_SETTING",

"function":"setScreenBrightness",

"param":{

"value":60

}}

value：亮度调整值；正值：调高亮度；负值：调低亮度

* 0：最暗
* 100：最亮

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.8. 打开/关闭 分屏

{

"module":"SYSTEM\_SETTING",

"function":"setScreenSplit",

"param":{

"state":true

}}

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.9. 打开/关闭 精简屏幕

{

"module":"SYSTEM\_SETTING",

"function":"setScreenTidy",

"param":{

"position":1,

"tidy":true

}}

position：位置信息

* 0x01 : 主驾
* 0x02 : 副驾
* 0x03 : 主副驾

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.10. 切换主副驾屏幕

{

"module":"SYSTEM\_SETTING",

"function":"exchangeScreen"}

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.11. 调整音量

{

"module":"SYSTEM\_SETTING",

"function":"adjustVolume",

"param":{

"type":2,

"value":-20

}}

type: 音量类型

* 1：系统
* 2：多媒体
* 3：导航
* 4：语音

value: 正值：调高音量；负值：调低音量

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.12. 设置音量

{

"module":"SYSTEM\_SETTING",

"function":"setVolume",

"param":{

"type":2,

"value":-20

}}

type: 音量类型

* 1：系统
* 2：多媒体
* 3：导航
* 4：语音

value: 音量值

* 0：最小
* 100： 最大

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.13. 打开/关闭 系统静音

{

"module":"SYSTEM\_SETTING",

"function":"setSystemMute",

"param":{

"state":false

}}

state:

* true : 打开
* false : 关闭

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.14. 打开/关闭 系统设置

打开系统设置

{

"module":"SYSTEM\_SETTING",

"function":"openSystemSetting",

"param":{}

}

结果格式：参考2.1.3 和3.1.1章节

关闭系统设置

{

"module":"SYSTEM\_SETTING",

"function":"closeSystemSetting",

"param":{}

}

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.15. 打开/关闭快捷面板

打开快捷面板

{

"module":"SystemUI",

"function":"openQuickPanel",

"param":{}

}

结果格式：参考2.1.3 和3.1.1章节

关闭快捷面板

{

"module":"SystemUI",

"function":"closeQuickPanel",

"param":{}

}

结果格式：参考2.1.3 和3.1.1章节

#### 3.2.16. 打开/关闭仪表精简屏幕

打开仪表精简屏幕

{

"module":" SYSTEM\_SETTING",

"function":" setScreenTidy",

"param":{

" position":"-1", //-1表示仪表屏幕的position值

" tidy":"true" // true: 打开仪表精简屏幕,false:关闭仪表精简屏幕

}

}

结果格式

{

"code":1,// 前置条件：当前仪表已是精简屏幕

"msg":""

}

{

"code":0,// 前置条件：当前仪表不是精简屏幕

"msg":""

}

关闭仪表精简屏幕

{

"module":" SYSTEM\_SETTING",

"function":" setScreenTidy",

"param":{

" position":"-1", //-1表示仪表屏幕的position值

" tidy":"false" // true: 打开仪表精简屏幕,false:关闭仪表精简屏幕

}

}

结果格式

{

"code":0,// 前置条件：当前仪表已是精简屏幕

"msg":""

}

{

"code":2,// 前置条件：当前仪表不是精简屏幕

"msg":""

}

#### 3.2.17. 打开/关闭道路救援

打开道路救援

{

"module":" RoadRescue",

"function":" openRoadRescue",

"param":{}

}

结果格式：参考2.1.3 和3.1.1章节

关闭道路救援

{

"module":" RoadRescue",

"function":" closeRoadRescue",

"param":{}

}

结果格式：参考2.1.3 和3.1.1章节

### 3.3蓝牙电话模块

#### 3.3.1. 打开蓝牙电话

{

"module":"BT\_PHONE",

"function":"openBtPhone",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.2. 关闭蓝牙电话

{

"module":"BT\_PHONE",

"function":"closeBtPhone",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.3. 接听蓝牙电话

{

"module":"BT\_PHONE",

"function":"acceptCall",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.4. 挂断蓝牙电话

{

"module":"BT\_PHONE",

"function":"rejectCall",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.5. 重拨

{

"module":"BT\_PHONE",

"function":"redial",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.6. 同步联系人

{

"module":"BT\_PHONE",

"function":"syncContacts",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.7. 查看联系人

{

"module":"BT\_PHONE",

"function":"listContacts",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.8. 查看通话记录

{

"module":"BT\_PHONE",

"function":"listRecentCalls",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.3.9. 切换设备

{

"module":"BT\_PHONE",

"function":"changeDevice",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

### 3.4电子手册模块

#### 3.4.1. 打开电子说明书

{

"module":"E\_MANUAL",

"function":"openManual",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.4.2. 关闭电子说明书

{

"module":"E\_MANUAL",

"function":"closeManual",

"param":{

}}

结果格式：参考2.1.3 和3.1.1章节

#### 3.4.3. 搜索电子说明书

{

"module":"E\_MANUAL",

"function":"searchManual",

"param":{

"keyword":"xxxx"

}}

结果格式：参考2.1.3 和3.1.1章节

### 3.5 Relax模块

#### 3.5.1. 设置xxx模式

{

"module":"RELAX",

"function":"setRelaxMode",

"param":{

"relaxMode":0

}

}

relaxMode: 模式

* 0x00：换一种模式
* 0x01：秘境触光
* 0x02：绿氧呼吸
* 0x03：深海聆听
* 0x04：随风悦览
* 0x05：灵感心生
* 0x06：舒享时氛
* 0x07：放松模式
* 0x08：夏夜萤火
* 0x09：落日黄昏
* 0x0A：宇宙星空
* 0x0B：浪漫幻境
* 0x0C：茶韵自然
* 0x0D：大海模式/海屿之恋
* 0x0E：馥郁暖心
* 0x0F：森林模式/森林绮境
* 0x10：星辰入海
* 0x11：天空之境
* 0x12：自由秘境

#### 结果格式：参考2.1.3 和3.1.1章节

#### 3.5.2. 退出xxx模式

{

"module":"RELAX",

"function":"exitRelaxMode",

"param":{

"relaxMode":2

}

}

relaxMode: 模式

* 0x00：当前模式
* 0x01：秘境触光
* 0x02：绿氧呼吸
* 0x03：深海聆听
* 0x04：随风悦览
* 0x05：灵感心生
* 0x06：舒享时氛
* 0x07：放松模式
* 0x08：夏夜萤火
* 0x09：落日黄昏
* 0x0A：宇宙星空
* 0x0B：浪漫幻境
* 0x0C：茶韵自然
* 0x0D：大海模式/海屿之恋
* 0x0E：馥郁暖心
* 0x0F: 森林模式/森林绮境
* 0x10: 星辰入海
* 0x11: 天空之境
* 0x12: 自由秘境

结果格式：参考2.1.3 和3.1.1章节

## Demo

参考提供的xxxservicedemo.zip中demo工程。