

Android SDK 2.0 API Reference Manual

1. GizWifiSDK Class

1.1. Introduction

Gizwits Wi-Fi SDK base class, which provides device discovery and configuration, device control, user login and registration etc.

1.2. Member Functions

Member Functions	Definition
setListener	<code>public void setListener(GizWifiSDKListener listener)</code>
getDeviceList	<code>public List<GizWifiDevice> getDeviceList()</code>

1.3. Callback API

Here are all the callback API of GizWifiSDK, can see details on following API Definition:

- didNotifyEvent: SDK system event notification callback
- didGetCurrentCloudService: stand-alone deployment cloud service domain callback
- didDiscovered: device list change notification callback
- didGetSSIDList: Wi-Fi list of device around callback
- didSetDeviceOnboarding: device Wi-Fi configuration callback
- didBindDevice: device binding callback
- didUnbindDevice: device unbinding callback
- didUpdateProduct: device definition change notification callback
- didGetCaptchaCode: image captcha callback
- didRequestSendPhoneSMSCode: SMS verify-code callback
- didRegisterUser: user registration callback

- didUserLogin: user login callback
- didTransAnonymousUser: anonymous user conversion callback
- didChangeUserPassword: user password change callback
- didChangeUserInfo: user info change callback
- didGetUserInfo: user info callback

1.4. API Definition

【sharedInstance】

Definition	<code>public static synchronized GizWifiSDK sharedInstance()</code>
Description	get single instance of GizWifiSDK
Returns	the single instance of SDK
Sample code	<code>GizWifiSDK mSDKInstance = GizWifiSDK.sharedInstance();</code>

【setListener】

Definition	<code>public void setListener(GizWifiSDKListener listener)</code>
Description	set SDK General Listener
Parameters	listener GizWifiSDKListener callback object
Sample code	<code>GizWifiSDK.sharedInstance().setListener(new GizWifiSDKListener() { // app implement the callback function });</code>

【startWithAppID】

Definition	<code>public void startWithAppID(Context context, String appID, String appSecret, List<String> specialProductKeys, ConcurrentHashMap<String, String> cloudServiceInfo, boolean autoSetDeviceDomain)</code>
Description	<p>This uses to initialize SDK. Only after this API is executed, can other APIs do. If listener has been set, SDK will report discoverable devices immediately by didDiscovered callback.</p> <p>If App want to switch cloud service domain and filter devices by</p>

	<p>productKey, it should specify domain and productKey while initializing SDK.</p> <p>If you want to set domain of device, can enable auto-setting when this API is called, SDK would let all devices which support setting domain and App connect to the same cloud service domain, but auto-setting is disabled by default.</p> <p>Note: If auto-setting is enable, it will effective and remain in force, you can call setDeviceServerInfo API to stop auto-setting.</p>	
Parameters	context	context object
	appid	On Gizwits Developer Zone (dev.gizwits.com), each registered device can find its appId on its corresponding "application setting". This parameter appId doesn't have default value, developer must send correct value.
	appSecret	On Gizwits Developer Zone (dev.gizwits.com), can find appSecret corresponding to appId in "application setting". This parameter appSecret doesn't have default value, developer must pass correct value.
	specialProductKeys	This parameter is device productKeys which you want to filter, it is String array. The default value of specialProductKeys is null. When it is default value, and then SDK would return all devices. If you want SDK return devices which have been filtered, specialProductKeys should be special productKey.
	cloudServiceInfo	This parameter is the domain info of service which you want to connect. The default value is null. When it is default value, SDK would base on location of mobile to set service domain as Gizwits general cloud service domain. If App want to set cloud service domain as stand-alone deployment, it should pass value as the following format Dictionary{key: value} { "openAPIInfo": "xxx", // String, cloud API service domain

		<pre>"siteInfo": "xxx" // String, site service domain "pushInfo": "xxx" // String, push service domain }</pre> <p>App must pass value of openAPIInfo and siteInfo, but pushInfo is optional. App can pass value without specifying port number such as api.gizwits.com. If App want to specify port number, it should specify port number of http and https at the same time, like xxx.gizwits.com:81&8443.</p>
	autoSetDeviceDomain	<p>This parameter is auto-setting of device domain, the default value is false.</p> <p>If App pass value is true, it would enable auto-setting of device domain, device in LAN would connect to cloud service domain which is using by App</p>
Callback	<pre>public void didNotifyEvent(GizEventType eventType, Object eventSource, GizWifiErrorCode eventID, String eventMessage)</pre>	
Callback description	<p>When the events enumerating in GizEventType happen, SDK would trigger this callback, it would notify some exception event, and the event 8316 which is SDK start successful.</p>	
Callback parameters	eventType	Event type.It points out which event happens, can see details on GizEventType enum definition
	eventSource	event source, it points out who triggers event. If eventType is GizEventSDK, eventSource is null. If eventType is GizEventDevice, eventSource must be cast to GizWifiDevice. If eventType is GizEventM2Mservice or GizEventToken, eventSource must be cast to String.
	eventID	Event ID, it points out what happens to eventSource, can see details on GizWifiErrorCode enum definition
	eventMessage	the descriptipn for eventID
Sample code	<pre>// set SDK Listener GizWifiSDK.sharedInstance().setListener(mListener); // Set produceKey list which you want to filter. No need to define this</pre>	

variable if you don't want to filter, it would pass null by default

```
List<String> specialProductKeys = new ArrayList<String> ();
specialProductKeys.add("your_product_key");
// Specify domain info which you want to connect. No need to define this
variable while using Gizwits general cloud service domain, it would pass
null by default
```

```
ConcurrentHashMap<String, Object> cloudServiceInfo = new
ConcurrentHashMap<String, Object>();
cloudServiceInfo.put("openAPIInfo", "your_api_domain");
cloudServiceInfo.put("siteInfo", "your_site_domain");
// call SDK start API
GizWifiSDK.sharedInstance().startWithAppID(context, "your_app_id",
"your_app_secret", specialProductKeys, cloudServiceInfo, false);
```

```
// implement callback of system event notification
GizWifiSDKListener mListener = new GizWifiSDKListener() {
    @Override
    public void didNotifyEvent(GizEventType eventType, Object
eventSource, GizWifiErrorCode eventID, String eventMessage) {
        if (eventType == GizEventType.GizEventSDK) {
            // notification while SDK gets exception
            Log.i("GizWifiSDK", "SDK event happened: " + eventID
+ ", " + eventMessage);
        } else if (eventType == GizEventType.GizEventDevice) {
            // possible notification when device disconnect
            GizWifiDevice mDevice = (GizWifiDevice)eventSource;
            Log.i("GizWifiSDK", "device MAC: " +
mDevice.getMacAddress() + " disconnect caused by eventID: " +
eventID + ", eventMessage: " + eventMessage);
        } else if (eventType == GizEventType.GizEventM2MService) {
            // exception notification returns from M2M service
            Log.i("GizWifiSDK", "M2M domain " +
(String)eventSource + " exception happened, eventID: " + eventID + ",
eventMessage: " + eventMessage);
        } else if (eventType == GizEventType.GizEventToken) {
            // notification when token is invalid
            Log.i("GizWifiSDK", "token " + (String)eventSource + "
expired: " + eventMessage);
        }
    }
};
```

【getCurrentCloudService】

Definition	<code>public void getCurrentCloudService()</code>	
Description	get current cloud service domain info	
Callback	<code>public void didGetCurrentCloudService(GizWifiErrorCode result, ConcurrentHashMap<String, String> cloudServiceInfo)</code>	
Callback description	query result	
Callback parameters	result	See details on GizWifiErrorCode enum definition, GIZ_SDK_SUCCESS is success, others are failures. When result is failure, cloudServiceInfo would be null.
	cloudServiceInfo	Current cloud service domain info, following is format for dictionary{key: value}: <pre>{ "openAPIDomain" : "xxx", // String "openAPIPort" : "xxx", // String "siteDomain" : "xxx", // String "sitePort" : "xxx", // String }</pre>
Sample code	<pre>GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().getCurrentCloudService(); // implement callback public void didGetCurrentCloudService(GizWifiErrorCode result, ConcurrentHashMap<String, String> cloudServiceInfo) { if(result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // success } else { // failure } }</pre>	

【getVersion】

Definition	<code>public String getVersion()</code>
Description	get SDK version

Returns	SDK version
Sample code	String sdkVersion = GizWifiSDK.sharedInstance().getVersion();

【setLogLevel】

Definition	public void setLogLevel(GizLogPrintLevel logLevel)	
Description	Sets printing log level. This is the printing log level when debug in terminal, it would print all log by default. Printing log level would not affect log file print, SDK would write all log into log file no matter what printing log level is. Log file is stored in directory of SD card: GizWifiSDK/packageName/GizSDKLog/	
Parameters	logLevel	Printing log level, see details on GizLogPrintLevel definition
Sample code	GizWifiSDK.sharedInstance().setLogLevel(GizLogPrintLevel.GizLogPrintAll);	

【getSSIDList】

Definition	public void getSSIDList()	
Description	Get SSID list of device in Soft-AP mode, SSID list would return from asynchronous callback.	
Callback	public void didGetSSIDList(GizWifiErrorCode result, List<GizWifiSSID> ssidInfoList)	
Callback parameters	result	See details on GizWifiErrorCode enum definition, GIZ_SDK_SUCCESS is success, others are failures. When result is failure, ssidInfoList would be null.
	ssidInfoList	SSID list consist of GizWifiSSID object
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().getSSIDList(); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didGetSSIDList(GizWifiErrorCode result, List<GizWifiSSID> ssidInfoList) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // get list success } else { // get list failure } } } </pre>	

};

【setDeviceOnboarding】

Definition	public void setDeviceOnboarding(String ssid, String key, GizWifiConfigureMode mode, String softAPSSIDPrefix, int timeout, List<GizWifiGAgentType> types)	
Description	<p>Configure device to LAN Wi-Fi network. When device in softap mode, module will create a hotspot, mobile can configure after connecting to this hotspot. While using firmware of Gizwits, prefix name of module hotspot should be “XPG-GAgent-” and password should be “123456789”. When device in airlink mode, mobile can configure at any time. No matter choosing which configuration mode, when device is online, only after mobile connects to configuration LAN Wi-Fi, can confirm that device has configured success.</p> <p>When device has configured successfully, it would callback MAC address of device. If device has been reset, maybe you can get DID of device in callback of device discovering.</p>	
Parameters	SSID	SSID SSID of router
	key	password of router
	mode	Configuration mode, see details on GizWifiConfigureMode enum definition
	softAPSSIDPrefix	Prefix name or full name of SoftAP hotspot in SoftAPMode mode, default prefix should be “XPG-GAgent-”, SDK would base on this parameter to judge whether mobile has connected to SoftAP hotspot of device or not. In AirLink mode, this parameter is ignored, just pass null.
	timeout	Configuration timeout, default is 30s.
	types	Module type waiting for configuration, this is GizWifiGAgentType enum array, default value is ESP module. GizWifiGAgentType has defined all types which SDK support, it also defines an enum GizGAgentOther, developers can use any other configuration library to configure device.
Callback	public void didSetDeviceOnboarding(GizWifiErrorCode result, String MAC, String DID, String productKey)	
Callback description	Note: If you specify filter productKey while calling getBoundDevices API, when device has been configured to router, it would return configure	

	success, but it would not be added into device list.	
Callback parameters	result	See details on GizWifiErrorCode enum definition, GIZ_SDK_SUCCESS is success, others are failures. When result is failure, other parameters are null.
	MAC	MAC of device
	DID	Did of Device. After configuring successfully, the value of DID may be null, because device will not sure wether it can get DID from cloud immediately or not.
	productKey	productKey of device
Sample code	<pre> // airlink 配置 airlink configuration GizWifiSDK.sharedInstance().setListener(mListener); List<GizWifiGAgentType> types = new ArrayList(); types.add(GizWifiGAgentType.GizGAgentESP); GizWifiSDK.sharedInstance().setDeviceOnboarding("your_SSID", "your_key", GizWifiConfigureMode.GizWifiAirLink, null, 60, types); // softap configuration GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().setDeviceOnboarding("your_SSID", "your_key", GizWifiConfigureMode.GizWifiSoftAP, "XPG-GAgent-DF4A", 60, null); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didSetDeviceOnboarding(GizWifiErrorCode result, String MAC, String DID, String productKey) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // configure success } else { //configure failure } } }; </pre>	

【getBoundDevices】

Definition	<code>public void getBoundDevices(String UID, String token, List<String> specialProductKey)</code>
Description	Get list of binding devices, in different network, it would have different operations:

	<p>When mobile can access internet, this API would send request to cloud service to get binding devices. When mobile couldn't access internet, it would find devices of LAN in real time, but it would remain devices which have been bound before. When mobile is out of network, unbinding devices of LAN would disappear, but it would remain binding devices which you have got before. Users couldn't get list of binding devices without login.</p> <p>Note: In this API, if the length of UID or token is error, SDK would use previous UID or token</p>	
Parameters	UID	UID get from user login or registration
	token	token get from user login or registration
	specialProductKeys	Specify product key of device to search, it is String array, you can specify one or more product key of device, it would return all devices without specifying any product key.
Callback	<code>public void didDiscovered(GizWifiErrorCode result, List<GizWifiDevice> deviceList)</code>	
Callback description	<p>Following scene would trigger callback:</p> <p>Calling getBoundDevices API would trigger this callback, error code means request status of cloud, list of device means the collection merging binding devices and LAN devices.</p> <p>The changing of device list would trigger this callback, the error code is GIZ_SDK_SUCCESS, list of device means the collection merging binding devices and LAN devices.</p>	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, deviceList is not null.
	deviceList	It is an array consist of GizWifiDevice object. This parameter would only return devices filter by special productKey.
Sample code	<pre>GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().getBoundDevices("your_UID", "your_token", null); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override</pre>	

	<pre> public void didDiscovered(GizWifiErrorCode result, List<GizWifiDevice> deviceList) { // show error reason if(result != GizWifiErrorCode.GIZ_SDK_SUCCESS) { Log.d("", "result: " + result.name()); } // show list of devices Log.d("", "discovered deviceList: " + deviceList); } }; </pre>
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【bindRemoteDevice】

Definition	public void bindRemoteDevice(String UID , String token , String MAC , String productKey , String productSecret)	
Description	Bind remote device to server	
Parameters	UID	UID get from user login or registration
	token	token get from user login or registration
	MAC	MAC of device waiting for binding
	productKey	productKey of device waiting for binding
	productSecret	productSecret of device waiting for binding
Callback	public void didBindDevice(GizWifiErrorCode result , String DID)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, DID is null.
	DID	DID of binding device
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().bindRemoteDevice ("your_UID", "your_token", "your_device_MAC", "your_device_product_key", "your_product_secret"); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didBindDevice(GizWifiErrorCode result, String DID) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // binding success } else { </pre>	

	<pre> // binding failure } } }; </pre>
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【unbindDevice】

Definition	public void unbindDevice(String UID , String token , String DID)	
Description	unbind device from server	
Parameters	UID	UID get from user login or registration
	token	token get from user login and registration
	DID	DID of device waiting for unbinding
Callback	public void didUnbindDevice(GizWifiErrorCode result , String DID)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, DID is null.
	DID	DID of unbinded devices
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().unbindDevice("your_UID", "your_token", "your_device_ DID "); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didUnbindDevice(GizWifiErrorCode result, String DID) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // unbinding success } else { // unbinding failure } } }; </pre>	

【getCaptchaCode】

Definition	public void getCaptchaCode(String appSecret)
Description	Get image captcha. Developers login on dev.gizwits.com, getting App Secret from user's application setting, then use App Secret to get image captcha.

Parameters	appSecret	secret of app, can see this on dev.gizwits.com
Callback	public void didGetCaptchaCode(GizWifiErrorCode result , String token , String captchaId , String captchaURL)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, other callback parameters would be null.
	token	token of image captcha, it would be invalid an hour later.
	captchaId	id of image captcha, it would be invalid 5 minutes later.
	captchaURL	URL of image captcha, it would be invalid after captcha code has been used.
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().getCaptchaCode("your_app_secret"); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didGetCaptchaCode(GizWifiErrorCode result, String token, String captchaId, String captchaURL) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // success } else { // failure } } }; </pre>	

【requestSendPhoneSMSCode】

Definition	public void requestSendPhoneSMSCode(String appSecret , String phone)	
Description	Get SMS verify code by phone	
Parameters	appSecret	secret of app, can see it on dev.gizwits.com
	phone	phone number
Callback	public void didRequestSendPhoneSMSCode(GizWifiErrorCode result , String token)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, token is null.

	token	get token while request message captcha
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().requestSendPhoneSMSCode ("your_app_secret", "your_phone_number"); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didRequestSendPhoneSMSCode(GizWifiErrorCode result, String token) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // success } else { // failure } } }; </pre>	

【requestSendPhoneSMSCode】

Definition	<pre>public void requestSendPhoneSMSCode(String token, String captchaId, String captchaCode, String phone)</pre>	
Description	Get SMS verify code by image captcha	
Parameters	token	get token from getCaptchaCode API
	captchaId	get captchaId from getCaptchaCode API
	captchaCode	code of image captcha
	phone	phone number
Callback	<pre>public void didRequestSendPhoneSMSCode(GizWifiErrorCode result, String token)</pre>	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, token is null.
	token	the token by getCaptchaCode API
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().requestSendPhoneSMSCode ("your_token", "your_captchaId", "your_captchaCode", "your_phone_number"); // implement callback </pre>	

```
GizWifiSDKListener mListener = new GizWifiSDKListener() {
    @Override
    public void didRequestSendPhoneSMSCode(GizWifiErrorCode
result, String token) {
        if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) {
            // success
        } else {
            // failure
        }
    }
};
```

【registerUser】

Definition	public void registerUser(String username, String password, String code, GizUserAccountType accountType)	
Description	Registration should specify account type, username of GizUserPhone is phone number, username of GizUserEmail is email address, username of GizUserNormal is normal username.	
Parameters	username	username (phone number, email address or normal username)
	password	password
	code	SMS verify code, it would be invalid after registration, and it couldn't be used again.
	accountType	account type, see details on GizUserAccountType enum definition. If username is phone number, this parameter should be GizUserPhone. If username is email address, this parameter should be GizUserEmail. If username is normal username, this parameter should be GizUserNormal.
Callback	public void didRegisterUser(GizWifiErrorCode result, String UID, String token)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, UID and token are null.
	UID	get UID after finishing registration
	token	get token after finishing registration
Sample code	GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().registerUser ("your_phone_number",	

	<pre> "your_password", "your_verify_code", GizUserAccountType.GizUserPhone); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didRegisterUser(GizWifiErrorCode result, String UID, String token) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // success } else { // failure } } }; </pre>
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【userLoginAnonymous】

Definition	public void userLoginAnonymous()	
Description	Login with anonymous user, no need to register account.	
Callback	public void didUserLogin(GizWifiErrorCode result , String UID , String token)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, UID and token are null.
	UID	Get UID after finishing registration
	token	Get token after finishing registration
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().userLoginAnonymous(); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didUserLogin(GizWifiErrorCode result, String UID, String token) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // login success } else { // login failure } } }; </pre>	

	<pre> } }; </pre>
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【userLogin】

Definition	public void userLogin(String username, String password)	
Description	User login, using username and password which have been registered successfully. username can be phone number, email address and normal username.	
Parameters	username	username
	password	password
Callback	public void didUserLogin(GizWifiErrorCode result, String IOD, String token)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures. When result is failure, UID and token are null.
	UID	Get UID after login success
	token	Get token after login success
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().userLogin("your_user_name", "your_password"); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didUserLogin(GizWifiErrorCode result, String UID, String token) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // login success } else { // login failure } } }; </pre>	

【changeUserPassword】

Definition	public void changeUserPassword(String token, String oldPassword,
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	String newPassword)	
Description	change user password	
Parameters	token	token from user login or registration
	oldPassword	old password
	newPassword	new password
Callback	public void didChangeUserPassword(GizWifiErrorCode result)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures.
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().changeUserPassword("your_token", "your_old_password", "your_new_password"); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didChangeUserPassword(GizWifiErrorCode result) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // success } else { // failure } } }; </pre>	

【resetPassword】

Definition	public void resetPassword(String username, String code, String newPassword, GizUserAccountType accountType)	
Description	Reset password. GizUserPhone user would reset password by using SMS verify code. GizUserEmail user would reset password by using reset-link of email	
Parameters	username	It should be phone number or email address.
	code	SMS verify code is required to reset password by phone. If reset by email, it can be set to null
	newPassword	New password. It can be set to null if reset password by email.

	accountType	Account type, see details on GizThirdAccountType enum definition. If username is phone number, this parameter should be GizUserPhone. If username is email address, this parameter should be GizUserEmail.
Callback	public void didChangeUserPassword(GizWifiErrorCode result)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures.
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().resetPassword("your_phone_number", "your_verify_code", "your_new_password", GizUserAccountType.GizUserPhone); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didChangeUserPassword(GizWifiErrorCode result) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // success } else { // failure } } }; </pre>	

【changeUserInfo】

Definition	public void changeUserInfo(String token , String username , String code , GizUserAccountType accountType , GizUserInfo additionalInfo)
Description	<p>Change user info, include username and personal additional info. username can only be changed to phone number or email address which has been registered before. This API can be used by the following case:</p> <ul style="list-style-type: none"> Only change phone number Only change email address Only change personal additional info of normal user Change phone number and additional info Change email address and additional info <p>If you only change personal additional info, accountType should be GizUserNormal. If you change phone number, accountType should be GizUserPhone. If you change email address, accountType should be GizUserEmail.</p>

Parameters	token	Token from user login or registration
	username	Username which want to change, it should be phone number or email address.
	code	SMS verify code which uses to change phone number
	accountType	account type, see details on GizThirdAccountType enum definition. If you change phone number, accountType should be GizUserPhone. If you want to change email address, accountType should be GizUserEmail. If you only want to change additional info, accountType should be GizUserNomal. If you want to change username and additional info, accountType will depend on what username is.
	additionalInfo	Additional info wait for changing, see details on GizUserInfo class definition. If you only change additional info, need to set value of token, and username and code as null.
Callback	public void didChangeUserInfo(GizWifiErrorCode result)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures.
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().changeUserInfo("your_token", "your_phone_number", "your_verify_code", GizUserAccountType.GizUserPhone, null); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didChangeUserInfo(GizWifiErrorCode result) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // change info success } else { // change info failure } } }; </pre>	

【getUserInfo】

Definition	public void getUserInfo(String token)
------------	--

Description	Get user info	
Parameters	token	Token from user login or registration
Callback	public void didGetUserInfo(GizWifiErrorCode result , GizUserInfo userInfo)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures.
	userInfo	User info, see details of GizUserInfo class
Sample code	<pre> GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().getUserInfo ("your_token"); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didGetUserInfo(GizWifiErrorCode result, GizUserInfo userInfo) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // get info success } else { // get info failure } } }; </pre>	

【transAnonymousUser】

Definition	public void transAnonymousUser(String token , String username , String password , String code , GizUserAccountType accountType)	
Description	Anonymous user convert to GizUserPhone or GizUserNormal. Note: username should not be registered before.	
Parameters	token	Token from user login or registration
	username	Username, it should be normal username or phone number
	password	password
	code	SMS verify code
	accountType	Account type, see details on GizThirdAccountType enum definition. If username is phone number, this parameter should be GizUserPhone. If username is normal username, this parameter should be GizUserNormal.

Callback	public void didTransAnonymousUser(GizWifiErrorCode result)	
Callback parameters	result	See details on GizWifiErrorCode enum definition. GIZ_SDK_SUCCESS means success, others mean failures.
Sample code	<pre> // transform anonymous user to phone user GizWifiSDK.sharedInstance().setListener(mListener); GizWifiSDK.sharedInstance().transAnonymousUser("your_token", "your_phone_number", "your_password", "your_verify_code", GizUserAccountType. GizUserPhone); // implement callback GizWifiSDKListener mListener = new GizWifiSDKListener() { @Override public void didTransAnonymousUser(GizWifiErrorCode result) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // transform success } else { // transform failure } } }; </pre>	

2. GizWifiDevice Class

2.1. Introduction

This is the device class of Gizwits Wi-Fi. GizWifiDevice class provide developers with device subscriptions, data notices, real-time status updates, device control, with applications in products such as controlling the water temperature of water heater. The device object is allocated by GizWifiDevice class, cannot be self-created.

2.2. Member function

【setListener】

Definition	<code>public void setListener(GizWifiDeviceListener listener)</code>	
Description	Set listener for device	
Parameters	listener	listener of device
Sample code	<pre>// mDevice is the device object obtained from device list mDevice.setListener(new GizWifiDeviceListener() {});</pre>	

【getMacAddress】

Definition	<code>public String getMacAddress()</code>
Description	Gets the MAC address of the device. If it is "Virtual: Site", then it is a virtual device.
Returns	Returns MAC address of the device.
Sample code	<pre>// mDevice is the device object obtained from list of device String MAC = mDevice.getMacAddress();</pre>

【getDid】

Definition	<code>public String getDid()</code>
Description	Gets DID of the device on cloud
Returns	Returns DID of the device
Sample code	<pre>// mDevice is the device object obtained from the device list String DID = mDevice.getDid();</pre>

【getIpAddress】

Definition	public String getIpAddress()
Description	Gets ip address of device. If device is a WLAN, the ip address is the domain of cloud server.
Returns	Returns the ip address of the device.
Sample code	// mDevice is the device object obtained from device list String ip = mDevice.getIpAddress();

【getProductKey】

Definition	public String getProductKey()
Description	Gets the product type identifier of the device
Returns	Returns the product type identifier of the device
Sample code	// mDevice is the device object obtained from list of device String productKey = mDevice.getProductKey();

【getProductName】

Definition	public String getProductName()
Description	Gets the product name of the device
Returns	Returns the product name of the device
sample Code	// mDevice is the device object obtained from list of device String productName = mDevice.getProductName();

【getProductType】

Definition	public GizWifiDeviceType getProductType()
Description	Gets product type, it should be standard or gateway device.
Returns	Returns the device type
Sample code	// mDevice is the device object obtained from list of device GizWifiDeviceType type = mDevice.getProductType();

【getRemark】

Definition	public String getRemark()
Description	Gets remark of the device. After the device is bound, the remark can be

	changed, default is null.
Returns	Returns the remark of device.
Sample code	// mDevice is the device object obtained from list of device String remark = mDevice.getRemark();

【getAlias】

Definition	public String getAlias()
Description	Gets the alias of the device. After the device is bound, the alias can be changed, default is null.
Returns	Returns with the alias of the device.
Sample code	// mDevice is the device object obtained from list of device String alias = mDevice.getAlias();

【getNetStatus】

Definition	public GizWifiDeviceNetStatus getNetStatus()
Description	Gets the network status of the device. For details, see the enumeration GizWifiDeviceNetStatus.
Returns	Returns the device's net state.
Sample code	// mDevice is the device object obtained from list of device GizWifiDeviceNetStatus netStatus = mDevice.getNetStatus ();

【isLAN】

Definition	public boolean isLAN()
Description	Determines whether the device is a LAN device or WLAN device.
Returns	Returns whether the device is a LAN device or a WLAN device
Sample code	// mDevice is the device object obtained from list of device boolean isBind = mDevice.isLAN();

【isBind】

Definition	public boolean isBind()
Description	Determines whether the device has been bound
Returns	Returns whether the device has been bound
Sample code	// mDevice is the device object obtained from list of device

	<code>boolean isBind = mDevice.isBind();</code>
--	---

【isDisabled】

Definition	<code>public boolean isDisabled()</code>
Description	Determines whether the device has been disabled by the cloud.
Returns	Determines whether the device has been disabled by the cloud.
Sample code	// mDevice is the device object obtained from list of device <code>boolean isDisabled = mDevice.isDisabled();</code>

【isSubscribed】

Definition	<code>public boolean isSubscribed()</code>
Description	Determines whether the device has been subscribed.
Returns	Returns whether the device has been subscribed.
Sample code	// mDevice is the device object obtained from list of device <code>boolean isSubscribed = mDevice.isSubscribed();</code>

【isProductDefined】

Definition	<code>public boolean isProductDefined()</code>
Description	Determines whether the device has defined datapoint.
Returns	Returns whether the device has defined datapoint.
Sample code	// mDevice is the device object obtained from list of device <code>boolean isProductDefined = mDevice.isProductDefined();</code>

2.3. Callback API

Below are the callback interfaces provided by the GizWifiDevice class. Afterwards, the definitions of the API will be specified:

- `didUpdateNetStatus`: Notification of network status change
- `didReceiveData`: Callback when device receives a status report
- `didSetSubscribe`: Callback when device is subscribed or unsubscribed

- `didSetCustomInfo`: Callback when binding information of device has been set
- `didGetHardwareInfo`: Device hardware information callback

2.4. API

【`didUpdateNetStatus`】

Callback	<code>public void didUpdateNetStatus(GizWifiDevice device, GizWifiDeviceNetStatus netStatus)</code>	
Callback description	The callback initiates device reports on the network status changes. When the device is reconnected to power on, when it is disconnected, or when it is controllable, this callback will trigger.	
Callback parameters	device	The GizWifiDevice object which trigger callback
	netStatus	The net status of the device (Offline, online or controllable)
Sample code	<pre>// mDevice is the entity object obtained from list of device mDevice.setListener(mListener); // implement callback GizWifiDeviceListener mListener = new GizWifiDeviceListener() { @override public void didUpdateNetStatus(GizWifiDevice device, GizWifiDeviceNetStatus netStatus) { } };</pre>	

【`setSubscribe`】

Definition	<code>public void setSubscribe(String productSecret, boolean subscribed)</code>	
Description	On whether the device is subscribed or unsubscribed. If the device is subscribed, it means that the user is interested in the push messages of the device. After subscription, the SDK will automatically sign in and bound the device. After being unsubscribed, the device will automatically disconnect, but will not automatically be unbound. Usually, subscriptions will always succeed and the SDK will remember whether the device is subscribed.	
Parameters	productSecret	The product secret of device. On the product information section found on GizWits Developer Zone (dev.gizwits.com), the corresponding product key of the product secret can be found. There is no default value

		for this parameters, so developers must input the correct productSecret.
	isSubscribed	Whether it is subscribed or unsubscribed. True means subscribed, while false means the subscription is cancelled.
Callback	public void didSetSubscribe(GizWifiErrorCode result , GizWifiDevice device, boolean isSubscribed)	
Callback parameters	device	The GizWifiDevice object which trigger callback
	result	See the definition for GizWifiErrorCode. GIZ_SDK_SUCCESS means success, all other values are failures. When failed, subscription status will not be changed.
	isSubscribed	Whether the device is subscribed or unsubscribed. True means it has been subscribed, false means it has been unsubscribed.
Sample code	<pre>// mDevice is the device object obtained from list of device mDevice.setListener(mListener); mDevice.setSubscribe(true); // Subscribed Device mDevice.setSubscribe(false); // Unsubscribed device // implement callback GizWifiDeviceListener mListener = new GizWifiDeviceListener() { @Override public void didSetSubscribe(GizWifiErrorCode result, GizWifiDevice device, boolean isSubscribed) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // When subscription or unsubscription has succeeded. } else { // Failure } } };</pre>	

【getDeviceStatus】

Definition	public void getDeviceStatus(List<String> attrs)
Description	Acquires device status. For devices that are subscribed, the device must be controllable before the status can be acquired. If the device has variable-length datapoints, you can also search for status of special datapoint.

Parameters	attrs	special datapoint names, using a String array. The default is null. By default, SDK will return all datapoint status of a device. If only check special datapoint status, the parameter should be a string array.
Callback	public void didReceiveData(GizWifiErrorCode result , GizWifiDevice device , ConcurrentHashMap<String, Object> dataMap , int sn)	
Callback description	The response or report data of device, which couldn't be analysed by SDK, will be processed as transparent data, and the error code will be GIZ_SDK_SUCCESS.	
Callback parameters	device	The GizWifiDevice object which trigger callback
	result	See the definition for GizWifiErrorCode. GIZ_SDK_SUCCESS means it has succeeded, while all others are failures. When in failure, dataMap is empty.
	data	The data content reported by the device, in dictionary format: <pre>{ "data": [value], // The value is of the // ConcurrentHashMap type, with the content being status key pair // of the device. [Datapoint Name: Value], with the datapoint value // type being the same as the definition on the site "alerts": [value], // The value is of the // ConcurrentHashMap type, with the content being alert key pair // of the device. [Datapoint Name: Value], with the datapoint value // type being the same as the definition on the site "faults": [value], // The value is of the // ConcurrentHashMap type, with the content being fault key pair // of the device. [Datapoint Name: Value], with the datapoint value // type being the same as the definition on the site "binary": [value], // The value is of the Byte[] type, with // the content being binary data, which is not defined on site. }</pre>
	sn	The responded serial number of the command, which should be the same as the serial number sent by the APP. When the device answering the query command or reporting data, the serial number is 0.
Sample code	<pre>// mDevice is the device object obtained from list of device mDevice.setListener(mListener); mDevice.getDeviceStatus(); // implement callback GizWifiDeviceListener mListener = new GizWifiDeviceListener() {</pre>	

```

@Override
public void didReceiveData(GizWifiErrorCode result,
    GizWifiDevice device, ConcurrentHashMap<String, Object>
    dataMap, int SN) {
    if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) {
        // Query success
    } else {
        // Query failure
    }
}
};

```

【write】

Definition	<code>public void write(ConcurrentHashMap<String, Object> data, int sn)</code>	
Description	Gives a controlled command to the device. Commands can only be sent after a subscribed device is in a controllable status.	
Parameters	data	<p>The parameters are the commands given to the device. This is in dictionary format, the key-value pair can be input with the following ways:</p> <ul style="list-style-type: none"> If the device has definitions for its datapoints, one single sending can be given to multiple datapoints. Keys within a dictionary should be named its datapoints, and values should be the datapoint values. Value types have to be the same as datapoint definitions: <ol style="list-style-type: none"> If the datapoint is boolean, input boolean as the value type; If the datapoint is of the numerical type, input int or float as the value type; If the datapoint is of the enum type, input an enumerated serial number(int type) or an enumerated string(String type); If the datapoint is an extended type, input value as a Byte[] type; <p>If the device is operated in a transparent format, transparent commands can only be sent one at a time. The key in the dictionary is binary, and the value is of Byte[] type.</p>
	sn	The serial number of the control command, corresponding to the responded data of the command. When device has confirmed the command, this SN will be returned.
Callback	<code>public void didReceiveData(GizWifiErrorCode result, GizWifiDevice device,</code>	

	ConcurrentHashMap<String, Object> dataMap , int SN)	
Callback description	The response or report data of device, which couldn't be analysed by SDK, will be treated as transparent data and processed. The error code will be GIZ_SDK_SUCCESS	
Callback parameters	device	The GizWifiDevice object which trigger callback
	result	See the definition for GizWifiErrorCode. GIZ_SDK_SUCCESS means it has succeeded, while all others are failures. When in failure, dataMap is empty.
	data	<p>The data content uploaded by the device, in dictionary format:</p> <pre> { "data": [value], // The value is of the // ConcurrentHashMap type, with the content being a status key // pair of the device. [Datapoint Name: Value], with the datapoint // value type being the same as the definition on the site "alerts": [value], // The value is of the // ConcurrentHashMap type, with the content being a alert key // pair of the device. [Datapoint Name: Value], with the datapoint // value type being the same as the definition on the site "faults": [value], // The value is of the // ConcurrentHashMap type, with the content being a fault key // pair of the device. [Datapoint Name: Value], with the datapoint // value type being the same as the definition on the site "binary": [value], // The value is of the Byte[] type, with // the content being binary data, which is not defined on site. } </pre>
	SN	The responded serial number of the command, which should be the same as the serial number sent by the APP. When the device answering the query command or reporting data, the serial number is 0.
Sample code	<pre> // mDevice is the device object obtained from list of device mDevice.setListener(mListener); /* * The following code uses SN as an example. If the application uses a * command serial number SN, SN can be set to the corresponding value. */ // After a subscribed device is under the controllable state, a light opening // action will be executed. int SN = 0; ConcurrentHashMap command = new ConcurrentHashMap<String, boolean> (); </pre>	

```

command.put("LED_OnOff", true);
mDevice.write(command, SN);

// implement callback
GizWifiDeviceListener mListener = new GizWifiDeviceListener() {
    @Override
    public void didReceiveData(GizWifiErrorCode result,
        GizWifiDevice device, ConcurrentHashMap<String, Object>
        dataMap, int SN) {
        if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) {
            // Command serial number matches, the light opening
            sequence
        } else {
            // Light has failed to open
        }
    }
};

```

【setCustomInfo】

Definition	public void setCustomInfo(String remark, String alias)	
Description	Changes the remarks and alias. Can only be set after the device is bound.	
Parameters	remark	Changes the remarks. null means not being changed, "" means an empty string.
	alias	Changes the alias. null means not being changed, "" means an empty string.
Callback	public void didSetCustomInfo(GizWifiErrorCode result, GizWifiDevice device)	
Callback parameters	device	The device object of the targeted alias or remark change.
	result	See the definition for GizWifiErrorCode. GIZ_SDK_SUCCESS means success, all other values are failures.
Sample code	<pre> // mDevice is the entity object obtained from list of device mDevice.setListener(mListener); mDevice.setCustomInfo("your_remark", "your_alias"); // implement callback GizWifiDeviceListener mListener = new GizWifiDeviceListener() { @Override public void didSetCustomInfo(GizWifiErrorCode result, GizWifiDevice device) { </pre>	


```

        if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) {
            // Change success
        } else {
            // Change failure
        }
    }
};

```

【getHardwareInfo】

Definition	public void getHardwareInfo()	
Description	Obtains hardware information. This API can be used with unsubscribed device, as long as device is under the normal operation mode.	
Callback	public void didGetHardwareInfo(GizWifiErrorCode result , GizWifiDevice device , ConcurrentHashMap<String, String> hardwareInfo)	
Callback parameters	device	The device object which returns the hardware information.
	result	See the definition for GizWifiErrorCode. GIZ_SDK_SUCCESS means success, all other values are failures. When in failure, hardwareInfo is null
	hardwareInfo	<p>Hardware information. Corresponding hardware key-value pair are:</p> <pre> { "Wi-Fi HardVersion": [value], // values are of the string type, and is the devices Wi-Fi hardware version number "wifiSoftVersion": [value], // values are of the string type, and is the device Wi-Fi software version number "wifiFirmwareId": [value], // ID values are of the string type, and is the device Wi-Fi firmware ID number "wifiFirmwareVer": [value], // values are of the string type, and is the device Wi-Fi firmware version number "mcuHardVersion": [value], // values are of the string type, and is the device hardware version number "mcuSoftVersion": [value], // values are of the string type, and is the device software version number </pre>

		<p>"productKey": [value], // values are of the string type, and is the product unique identifier of device</p> <p>}</p>
Sample code	<pre>// mDevice is the device object obtained from list of device mDevice.setListener(mListener); mDevice.getHardwareInfo(); // implement callback GizWifiDeviceListener mListener = new GizWifiDeviceListener() { @Override public void didGetHardwareInfo(GizWifiErrorCode result, GizWifiDevice device, ConcurrentHashMap<String, String> hardwareInfo) { if (result == GizWifiErrorCode.GIZ_SDK_SUCCESS) { // Success } else { // Failure } } };</pre>	

3. GizUserInfo Class

3.1. Introduction

GizUserInfo class is provided for developers to get and modify user info.

3.2. Member function

Member function	Description
UID	Type: String. Get UID after user logs in. Provide get method.
username	Type: String. Username: phone number or email address. Provide get method.
email	Type: String. User email address. Provide get method.
phone	Type: String. User phone number. Provide get method.
isAnonymous	Type: Boolean. Judge whether it is anonymous user. Provide get method.
lang	Type: String. User's language environment. Provide get method.
name	Type: String. User's nickname. Provide get and set methods.
userGender	Type: GizUserGenderType. User's gender. Provide get and set methods.
birthday	Type: String. User's birthday. Provide get and set methods.
address	Type: String. User's home address. Provide get and set methods.
remark	Type: String. User's remark. Provide get and set methods.
deviceBindTime	Type: String. This variable means the time user binds the device. Provide get methods.

4. GizWifiSSID Class

4.1. Introduction

SSID info class of the route, includes the signal name SSID and signal strength of the Wi-Fi.

4.2. Member function

Member function	Description
SSID	SSID name: Name could be searched when we connect to a Wi-Fi hotspot.
RSSI	Signal strength of the corresponding hotspot. Ranges: 0-100

【getSsid】

Definition	public String getSsid()
Description	Get the SSID name of the Wi-Fi. Name could be searched when we connect to a Wi-Fi hotspot.
Returns	SSID name of the Wi-Fi
Sample code	//mWifiSSID is the SSID class object provided in SDK hotspot list String SSID= mWifiSSID.getSsid();

【getRssi】

Definition	public int getRssi()
Description	Signal strength of the corresponding hotspot. Ranges: 0-100
Returns	SSID name of the Wi-Fi
Sample code	//mWifiSSID is the SSID class object provided in SDK hotspot list int RSSI= mWifiSSID.getRssi();

5. Enumeration Class Definition

5.1. Introduction

This introduces all enumeration class definition that we use in GizWifiSDK.

5.2. Definition

【GizLogPrintLevel】

Description: printing log level

Enum ID	Enum Definition	Description
0	GizLogPrintNone	Not print any log
1	GizLogPrintI	Print error log
2	GizLogPrintII	Print debug log
3	GizLogPrintAll	Print data log

【GizEventType】

Description: the type of event notification

Enum ID	Enum Definition	Description
0	GizEventSDK	SDK system event
1	GizEventDevice	device exception event
2	GizEventM2MService	M2M exception event
5	GizEventToken	Token invalid event

【GizWifiConfigureMode】

Description: device configuration mode

Enum ID	Enum Definition	Description
0	GizWifiSoftAP	SoftAP configuration mode
1	GizWifiAirLink	AirLink configuration mode

【GizWifiDeviceType】

Description: device type

Enum ID	Enum Definition	Description
0	GizDeviceNormal	Normal device
1	GizDeviceCenterControl	Center control device

【GizThirdAccountType】

Description: the type of third-party account

Enum ID	Enum Definition	Description
0	GizThirdBAIDU	BAIDU account
1	GizThirdSINA	SINA account
2	GizThirdQQ	QQ account

【GizWifiDeviceNetStatus】

Description: the type of device net status

Enum ID	Enum definition	Description
0	GizDeviceOffline	Offline
1	GizDeviceOnline	Online
2	GizDeviceControlled	Controlled

【GizWifiGAgentType】

Description: the type of module

Enum ID	Enum Definition	Description
0	GizGAgentMXCHIP	MXChip 3162 module
1	GizGAgentHF	HF module
2	GizGAgentRTK	RTK module
3	GizGAgentWM	WM module
4	GizGAgentESP	ESP module

Enum ID	Enum Definition	Description
5	GizGAgentQCA	Qualcomm module
6	GizGAgentTI	TI module
7	GizGAgentFSK	FSK module
8	GizGAgentMXCHIP3	MXChip V3 module
9	GizGAgentBL	BL module
10	GizGAgentAtmelEE	Atmel module
11	GizGAgentOther	Other module

【GizUserGenderType】

Description: user's gender

Enum ID	Enum Definition	Description
0	GizUserGenderMale	Male
1	GizUserGenderFemale	Female
2	GizUserGenderUnknown	Unknow

【GizWifiErrorCode】

Description: error code definition

Enum ID	Enum Definition	Description
0	GIZ_SDK_SUCCESS	SDK runs successfully
8001	GIZ_SDK_PARAM_FORM_INVALID	The format of SDK internal param is invalid
8002	GIZ_SDK_CLIENT_NOT_AUTHEN	SDK is not started yet
8003	GIZ_SDK_CLIENT_VERSION_INVALID	SDK version is invalid
8004	GIZ_SDK_UDP_PORT_BIND_FAILED	UDP port binding failed
8005	GIZ_SDK_DAEMON_EXCEPTION	Catch exception when execute SDK daemon
8006	GIZ_SDK_PARAM_INVALID	SDK param is invalid
8007	GIZ_SDK_APPID_LENGTH_ERROR	AppID length error
8008	GIZ_SDK_LOG_PATH_INVALID	SDK log file path is invalid
8009	GIZ_SDK_LOG_LEVEL_INVALID	The log level is invalid

Enum ID	Enum Definition	Description
8020	GIZ_SDK_NO_AVAILABLE_DEVICE	There's no available device to set server info
8021	GIZ_SDK_DEVICE_CONFIG_SEND_FAILED	Device's Wi-Fi config info sending failed
8022	GIZ_SDK_DEVICE_CONFIG_IS_RUNNING	Device's Wi-Fi config is running
8023	GIZ_SDK_DEVICE_CONFIG_TIMEOUT	Device's Wi-Fi config timeout
8024	GIZ_SDK_DEVICE_DID_INVALID	DID is invalid
8025	GIZ_SDK_DEVICE_MAC_INVALID	MAC is invalid
8026	GIZ_SDK_SUBDEVICE_DID_INVALID	The sub device is invalid
8027	GIZ_SDK_DEVICE_PASSCODE_INVALID	The passcode is invalid
8028	GIZ_SDK_DEVICE_NOT_CENTERCONTROL	The device is not central
8029	GIZ_SDK_DEVICE_NOT_SUBSCRIBED	Device is not subscribed yet
8030	GIZ_SDK_DEVICE_NO_RESPONSE	No response from device
8031	GIZ_SDK_DEVICE_NOT_READY	Device is not ready
8032	GIZ_SDK_DEVICE_NOT_BINDED	Device is not bound yet
8033	GIZ_SDK_DEVICE_CONTROL_WITH_INVALID_COMMAND	Device control command is with invalid command
8034	GIZ_SDK_DEVICE_CONTROL_FAILED	Failed to controll device
8035	GIZ_SDK_DEVICE_GET_STATUS_FAILED	Failed to get device status
8036	GIZ_SDK_DEVICE_CONTROL_VALUE_TYPE_ERROR	The command param type is error
8037	GIZ_SDK_DEVICE_CONTROL_VALUE_OUT_OF_RANGE	The command param value is out of range
8038	GIZ_SDK_DEVICE_CONTROL_NOT_WRITABLE_COMMAND	Device control command is with not writable command
8039	GIZ_SDK_BIND_DEVICE_FAILED	Device binding failed
8040	GIZ_SDK_UNBIND_DEVICE_FAILED	Device unbinding failed
8041	GIZ_SDK_DNS_FAILED	DNS parsing failed
8042	GIZ_SDK_M2M_CONNECTION_SUCCESS	Connect to M2M successfully
8043	GIZ_SDK_SET_SOCKET_NON_BLOCK_FAILED	Socket non-blocking setting failed

Enum ID	Enum Definition	Description
8044	GIZ_SDK_CONNECTION_TIMEOUT	Connection timeout
8045	GIZ_SDK_CONNECTION_REFUSED	Connection is refused
8046	GIZ_SDK_CONNECTION_ERROR	Connection error occurred
8047	GIZ_SDK_CONNECTION_CLOSED	Connection is closed by peer
8048	GIZ_SDK_SSL_HANDSHAKE_FAILED	SSL handshake failed
8049	GIZ_SDK_DEVICE_LOGIN_VERIFY_FAILED	Device login verifying failed
8050	GIZ_SDK_INTERNET_NOT_REACHABLE	The Internet is unreachable
8095	GIZ_SDK_HTTP_SERVER_NOT_SUPPORT_API	Cloud Service does not support the API
8096	GIZ_SDK_HTTP_ANSWER_FORMAT_ERROR	HTTP response data format error
8097	GIZ_SDK_HTTP_ANSWER_PARAM_ERROR	HTTP response parameter error
8098	GIZ_SDK_HTTP_SERVER_NO_ANSWER	No response from HTTP server
8099	GIZ_SDK_HTTP_REQUEST_FAILED	HTTP request failed
8100	GIZ_SDK_OTHERWISE	Reserved error
8101	GIZ_SDK_MEMORY_MALLOC_FAILED	Memory allocation failed
8102	GIZ_SDK_THREAD_CREATE_FAILED	Thread creation failed
8201	GIZ_SDK_DATAPOINT_NOT_DOWNLOAD	The config file of device datapoint is not yet downloaded
8202	GIZ_SDK_DATAPOINT_SERVICE_UNAVAILABLE	Config service of device datapoint is unavailable
8203	GIZ_SDK_DATAPOINT_PARSE_FAILED	Device datapoint parsing failed
8300	GIZ_SDK_SDK_NOT_INITIALIZED	SDK is not initialized yet
8301	GIZ_SDK_APK_CONTEXT_IS_NULL	Android context is null, unable to start SDK
8302	GIZ_SDK_APK_PERMISSION_NOT_SET	The permission for SDK is not set
8303	GIZ_SDK_CHMOD_DAEMON_REFUSED	Refused to change permission of SDK daemon

Enum ID	Enum Definition	Description
8304	GIZ_SDK_EXEC_DAEMON_FAILED	Failed to execute SDK daemon
8305	GIZ_SDK_EXEC_CATCH_EXCEPTION	Catch exception when execute SDK daemon
8306	GIZ_SDK_APPID_IS_EMPTY	AppID is null, unable to use SDK
8307	GIZ_SDK_UNSUPPORTED_API	This API has been discarded and no longer provide support
8308	GIZ_SDK_REQUEST_TIMEOUT	request timeout
8309	GIZ_SDK_DAEMON_VERSION_INVALID	SDK daemon version is invalid
8310	GIZ_SDK_PHONE_NOT_CONNECT_TO_SOFTAP_SSID	Phone do not connect the SoftAp SSID
8311	GIZ_SDK_DEVICE_CONFIG_SSID_NOT_MATCHED	The current Wi-Fi network is not matched the device onboarding SSID, unable to connect device with network
8312	GIZ_SDK_NOT_IN_SOFTAPMODE	Device is not in SoftAP mode
8313	GIZ_SDK_PHONE_WIFI_IS_UNAVAILABLE	The phone Wi-Fi is unavailable
8314	GIZ_SDK_RAW_DATA_TRANSMIT	The current mode is raw data transparent transmission
8315	GIZ_SDK_PRODUCT_IS_DOWNLOADING	Downloading config file of device datapoint
8316	GIZ_SDK_START_SUCCESS	SDK started successfully
9001	GIZ_OPENAPI_MAC_ALREADY_REGISTERED	MAC already registered!
9002	GIZ_OPENAPI_PRODUCT_KEY_INVALID	product_key invalid
9003	GIZ_OPENAPI_APPID_INVALID	appid invalid
9004	GIZ_OPENAPI_TOKEN_INVALID	token invalid
9005	GIZ_OPENAPI_USER_NOT_EXIST	user not exist
9006	GIZ_OPENAPI_TOKEN_EXPIRED	token expired
9007	GIZ_OPENAPI_M2M_ID_INVALID	m2m_id invalid

Enum ID	Enum Definition	Description
9008	GIZ_OPENAPI_SERVER_ERROR	server error
9009	GIZ_OPENAPI_CODE_EXPIRED	code expired
9010	GIZ_OPENAPI_CODE_INVALID	code invalid
9011	GIZ_OPENAPI_SANDBOX_SCALE_QUOTA_EXHAUSTED	sandbox scale quota exhausted!
9012	GIZ_OPENAPI_PRODUCTION_SCALE_QUOTA_EXHAUSTED	production scale quota exhausted!
9013	GIZ_OPENAPI_PRODUCT_HAS_NO_REQUEST_SCALE	product has no request scale!
9014	GIZ_OPENAPI_DEVICE_NOT_FOUND	device not found!
9015	GIZ_OPENAPI_FORM_INVALID	form invalid!
9016	GIZ_OPENAPI_DID_PASSCODE_INVALID	DID or passcode invalid!
9017	GIZ_OPENAPI_DEVICE_NOT_BOUND	device not bound!
9018	GIZ_OPENAPI_PHONE_UNAVAILABLE	phone unavailable!
9019	GIZ_OPENAPI_USERNAME_UNAVAILABLE	username unavailable!
9020	GIZ_OPENAPI_USERNAME_PASSWORD_ERROR	username or password error!
9021	GIZ_OPENAPI_SEND_COMMAND_FAILED	send command failed!
9022	GIZ_OPENAPI_EMAIL_UNAVAILABLE	email unavailable!
9023	GIZ_OPENAPI_DEVICE_DISABLED	device is disabled!
9024	GIZ_OPENAPI_FAILED_NOTIFY_M2M	fail to notify m2m!
9025	GIZ_OPENAPI_ATTR_INVALID	attr invalid!
9026	GIZ_OPENAPI_USER_INVALID	user invalid!
9027	GIZ_OPENAPI_FIRMWARE_NOT_FOUND	firmware not found!
9028	GIZ_OPENAPI_JD_PRODUCT_NOT_FOUND	JD product info not found!
9029	GIZ_OPENAPI_DATAPOINT_DATA_NOT_FOUND	datapoint data not found!
9030	GIZ_OPENAPI_SCHEDULER_NOT_FOUND	scheduler not found!
9031	GIZ_OPENAPI_QQ_OAUTH_KEY_INVALID	qq oauth key invalid!
9032	GIZ_OPENAPI_OTA_SERVICE_OK_BUT_IN_IDLE	ota upgrade service OK, but in idle or disable!
9033	GIZ_OPENAPI_BT_FIRMWARE_UNVERIFIED	bt firmware unverified, except verify device!

Enum ID	Enum Definition	Description
9034	GIZ_OPENAPI_BT_FIRMWARE_NOTHING_TO_UPGRADE	bt firmware is OK, but nothing to upgrade!
9035	GIZ_OPENAPI_SAVE_KAIROSDDB_ERROR	Save kairosdb error!
9036	GIZ_OPENAPI_EVENT_NOT_DEFINED	event not defined!
9037	GIZ_OPENAPI_SEND_SMS_FAILED	send sms failed!
9038	GIZ_OPENAPI_APPLICATION_AUTH_INVALID	X-Gizwits-Application-Auth invalid!
9039	GIZ_OPENAPI_NOT_ALLOWED_CALL_API	Not allowed to call deprecated API!
9040	GIZ_OPENAPI_BAD_QRCODE_CONTENT	bad qrcode content!
9041	GIZ_OPENAPI_REQUEST_THROTTLED	request was throttled
9042	GIZ_OPENAPI_DEVICE_OFFLINE	device offline!
9043	GIZ_OPENAPI_TIMESTAMP_INVALID	'X-Gizwits-Timestamp invalid!
9044	GIZ_OPENAPI_SIGNATURE_INVALID	X-Gizwits-Signature invalid!
9045	GIZ_OPENAPI_DEPRECATED_API	API deprecated!
9046	GIZ_OPENAPI_REGISTER_IS_BUSY	Register already in progress!
9080	GIZ_OPENAPI_CANNOT_SHARE_TO_SELF	can not share device to self!
9081	GIZ_OPENAPI_ONLY_OWNER_CAN_SHARE	guest or normal user can not share device!
9082	GIZ_OPENAPI_NOT_FOUND_GUEST	guest user not found!
9083	GIZ_OPENAPI_GUEST_ALREADY_BOUND	guest user already bound!
9084	GIZ_OPENAPI_NOT_FOUND_SHARING_INFO	sharing record not found!
9085	GIZ_OPENAPI_NOT_FOUND_THE_MESSAGE	message record not found!
9087	GIZ_OPENAPI_SHARING_IS_WAITING_FOR_A_CCEPT	sharing already created, waiting for the guest to accept!
9088	GIZ_OPENAPI_SHARING_IS_EXPIRED	sharing record expired!
9089	GIZ_OPENAPI_SHARING_IS_COMPLETED	sharing record status is not unaccept!
9090	GIZ_OPENAPI_INVALID_SHARING_BECAUSE_UNBINDING	owner binding disabled!
9092	GIZ_OPENAPI_ONLY_OWNER_CAN_BIND	owner exist, guest can not

Enum ID	Enum Definition	Description
		bind!
9093	GIZ_OPENAPI_ONLY_OWNER_CAN_OPERATE	permission denied, you are not owner!
9094	GIZ_OPENAPI_SHARING_ALREADY_CANCELLED	sharing already canceled!
9095	GIZ_OPENAPI_OWNER_CANNOT_UNBIND_SELF	can not unbind self!
9096	GIZ_OPENAPI_ONLY_GUEST_CAN_CHECK_QRCODE	permission denied, you are not guest!
9098	GIZ_OPENAPI_MESSAGE_ALREADY_DELETED	notify delete binding failed!
9099	GIZ_OPENAPI_BINDING_NOTIFY_FAILED	notify delete binding failed!
9100	GIZ_OPENAPI_ONLY_SELF_CAN_MODIFY_ALIAS	permission denied, you are not owner or guest!
9101	GIZ_OPENAPI_ONLY_RECEIVER_CAN_MARK_MESSAGE	permission denied, you are not the receiver!
9999	GIZ_OPENAPI_RESERVED	reserved