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| Xiaojun He | 2018-3-15 | 1. 添加修改登录信息规则 2. 添加APN授权方式数字和字符的对应关系 3. 添加网络模式数字说明 |
| Random | 2018-3-16 | 1. Add close Data in page of Connect Customer 2. Add ico show |
| Random | 2018-3-20 | 1. Add language |
| Xiaojun He | 2018-3-21 | 1. 修改设置优先网络模式的函数名称为SetNetworkType 2. 添加获取优先网络模式方法 3. 添加流量限制单位说明 4. Limit data为-1代表没有设置限制 |
| Random | 2018-3-24 | 1. Modify Custom Connectreturn 2. Add Service to Client 3. Modify Common 4. Add Sms 5. Modify device info 6. Add return |
| Random | 2018-3-26 | 1. Modify the result |
| Xiaojun He | 2018-4-1 | 1. 数据业务 2. 未读短信标志位说明，从2改为0 |
| lixin | 2018-4-9 | 1. 用户连接列表中删除id 2. 删除GetLanguage,在common消息中添加Language 3. 修改短信设置 |
| Xiaojun He | 2018-4-9 | 1. 获取到的每条APN前面添加apn\_id 2. ApnChange的参数由apn修改为apn\_id |
| Random | 2018-4-16 | 1. Modify common |
| Random | 2018-5-30 | 1. Modify Device info ,change IMSI to ICCID 2. Add data static everyday 3. Add clean data 4. Add Block client and unblock client 5. Add USB share   6． Add FOTA Update |

# 关于WIFI项目文档说明

目前功能分为如下：

1. 登陆账号密码

2. 连接用户列表

3. 设备信息

4. 流量限制

5. 流量统计

6. 网络制式设置

7. APN设置（包括APN的显示和设置）

8. WIFI 设置 (包括WIFI显示和设置)

9. 重启设置

10. 恢复出厂设置

11. 断开数据业务

12. 图标显示（Battery，NetworkType，SPN, RSRP）

13. 语言设置

14. 短信界面

15. WPS(Wi-Fi Protected Setup)

16. USB共享

17. FOTA Update

以上所有的功能在Client和Service之间交互， Service都会返回数据。

由于Service不会主动上报任何消息，全部都Client请求获得

由于Service使用| 符号进行分割，请Client限制user不得输入 |

Client 在发送数据到Service在末尾加上\n

Service在发生数据到Client在末尾加上\r\n\r\n

对于Client:

Request请求数据

对于Service都是需要返回结果的：

Result

所有功能遵守以下格式

Client:

Request|Function|Parameter

Service:

Result|Function|Parameter

Note: Result is 0 or 1, 0 means fail ,1 means success

以下针对所有功能进行数据规定：

1. 登陆账号密码

Client 发送账号格式如下：Request |Login

Service 返回格式如下：Result|Login|user name|Password

例如：

Client:

Request|Login

Service:

1|Login|zhangsan|123456

修改密码和账户：

Client:

Request|SetAccountInfo|username|password

Service:

Result|SetAccountInfo

Note: Result is 0 or 1, 0 means fail ,1 means success

名称和密码的有效性需要Client端检查，如内容为空，特殊符号等

1. 连接用户列表

Client:

Request|Connect\_Customer

Service:

Result|Connect\_Customer|Total|DeviceName|MAC |IP|DeviceName| MAC |IP …

Note: Result is 0 or 1, 0 means fail ,1 means success

BlockClient:

Client:

Request|BlockClient| MacAddress

Service：

Result|BlockClient

UnBlockClient：

Client：

Request|UnBlockClient| MacAddress

Service：

Result|BlockClient

3. 设备信息

Client:

Request|DeviceInfo

Service:

Result|DeviceInfo|SimcardNumber|IMEI|ICC ID|SSID|max connect customer number| IP address|MAC address|firmware version|HW version

Note : WAN IP , software from Client

Note: Result is 0 or 1, 0 means fail ,1 means success

4 流量限制

说明：

流量统计，流量限制，流量清零说明：

每日流量统计： 统计当天零点到当前请求时间的流量，如果零点到当前请求时间期间有执行过每日清零，则统计从最近执行每日清零时间到请求时间的流量

每日流量清零：清空当天零点到当前请求时间的流量，并且清空的流量不计入当月的流量限制中，也不计入当月的流量统计中。

每月流量统计：统计当月1号到当前请求时间的流量，如果当月1号到当前请求时间期间有执行过每日清零，则需要扣除每日清零的流量，执行过几次每日清零就相应的清零流量，如果当月1号到当前请求时间执行过每月清零，则统计从最近的执行过每月清零时间到当前请求时间的流量。

每月流量清零： 清空当月1号到当前请求时间的流量包括每日流量也要清空。

流量限制： 每月1号到下个月月底的流量限制。

Client

Request|DataLimit|parameter

Parameter的单位为Byte,如果要设置为5M:Request|DataLimit|5000000

Service:

Result|DataLimit

Note: Result is 0 or 1, 0 means fail ,1 means success

1. 流量统计

Total:

Client

Request|DataMonthStatic

Service

Result|DataMonthStatic|total|used data|limit data

Limit data为-1表示没有设置限制

Note: Result is 0 or 1, 0 means fail ,1 means success

Client

Request|DataStatic|eveyday

Service

Result|DataStatic|everyday|used data|limit data

Limit data为-1表示没有设置限制

Note: Result is 0 or 1, 0 means fail ,1 means success

流量清零

Client

Request|CleanMonthData

Service

Result| CleanMothData

Client

Request|CleanEveryDayData

Service

Result| CleanData|

6.网络制式设置

Client

Request|SetNetworkType|parameter

Service:

Result|SetNetworkType

Note: Result is 0 or 1, 0 means fail ,1 means success

获取网络制式

Client

Request | GetNetworkType

Service

Result|GetNetworkType|networkType

Note: Result is 0 or 1, 0 means fail ,1 means success

备注：网络模式在传输过程中采用数字，对应关系如下，

NETWORK\_MODE\_WCDMA\_PREF = 0; /\* GSM/WCDMA (WCDMA preferred) \*/

NETWORK\_MODE\_GSM\_ONLY = 1; /\* GSM only \*/

NETWORK\_MODE\_WCDMA\_ONLY = 2; /\* WCDMA only \*/

NETWORK\_MODE\_GSM\_UMTS = 3; /\* GSM/WCDMA (auto mode, according to PRL)

AVAILABLE Application Settings menu\*/

NETWORK\_MODE\_CDMA = 4; /\* CDMA and EvDo (auto mode, according to PRL) AVAILABLE Application Settings menu\*/

NETWORK\_MODE\_CDMA\_NO\_EVDO = 5; /\* CDMA only \*/

NETWORK\_MODE\_EVDO\_NO\_CDMA = 6; /\* EvDo only \*/

NETWORK\_MODE\_GLOBAL = 7; /\* GSM/WCDMA, CDMA, and EvDo (auto mode, according to PRL) AVAILABLE Application Settings menu\*/

NETWORK\_MODE\_LTE\_CDMA\_EVDO = 8; /\* LTE, CDMA and EvDo \*/

NETWORK\_MODE\_LTE\_GSM\_WCDMA = 9; /\* LTE, GSM/WCDMA \*/

NETWORK\_MODE\_LTE\_CDMA\_EVDO\_GSM\_WCDMA = 10; /\* LTE, CDMA, EvDo, GSM/WCDMA \*/

NETWORK\_MODE\_LTE\_ONLY = 11; /\* LTE Only mode. \*/

NETWORK\_MODE\_LTE\_WCDMA = 12; /\* LTE/WCDMA \*/

NETWORK\_MODE\_TDSCDMA\_ONLY = 13; /\* TD-SCDMA only \*/

NETWORK\_MODE\_TDSCDMA\_WCDMA = 14; /\* TD-SCDMA and WCDMA \*/

NETWORK\_MODE\_LTE\_TDSCDMA = 15; /\* TD-SCDMA and LTE \*/

NETWORK\_MODE\_TDSCDMA\_GSM = 16; /\* TD-SCDMA and GSM \*/

NETWORK\_MODE\_LTE\_TDSCDMA\_GSM = 17; /\* TD-SCDMA,GSM and LTE \*/

NETWORK\_MODE\_TDSCDMA\_GSM\_WCDMA = 18; /\* TD-SCDMA, GSM/WCDMA \*/

NETWORK\_MODE\_LTE\_TDSCDMA\_WCDMA = 19; /\* TD-SCDMA, WCDMA and LTE \*/

NETWORK\_MODE\_LTE\_TDSCDMA\_GSM\_WCDMA = 20; /\* TD-SCDMA, GSM/WCDMA and LTE \*/

NETWORK\_MODE\_TDSCDMA\_CDMA\_EVDO\_GSM\_WCDMA = 21; /\*TD-SCDMA,EvDo,CDMA,GSM/WCDMA\*/

NETWORK\_MODE\_LTE\_TDSCDMA\_CDMA\_EVDO\_GSM\_WCDMA = 22; /\* TD-SCDMA/LTE/GSM/WCDMA, CDMA, and EvDo \*/

7. APN设置（包括APN的显示和设置）

对于 APN显示：

Client：

Request|ApnShow

Service：

Result|ApnShow|total|apn\_id|apnname|apn|mcc|mnc|Security type|admin|password| apn\_id|apn name|apn|mcc|mnc|Auth type|username|password

Note: Result is 0 or 1, 0 means fail ,1 means success

备注：apn name|apn|mcc|mnc|Auth type|username|password为一个完整的APN,

第一个apn为当前选择的apn

修改当前使用的apn

Client:

Request|ApnChange|apn\_id

Service:

Result|ApnChange

Note: result is 0 or 1, 0 means fail ,1 means success

新增APN

Client:

Request|ApnAdd|apn name|apn|mcc|mnc|Auth type|username|password

Service:

Result|ApnAdd

Note: Result is 0 or 1, 0 means fail ,1 means success

备注：授权方式在传输过程中采用数字，对应关系如下，如果没有设置，其值为空

0：None 1: PAP 2: CHAP 3:PAP or CHAP

8. WIFI 设置：

WIFI 显示：

Client：

Request|WIFIShow

Service:

Result|WIFIShow|SSID|SSID show or hide|security mode|password|max customer number

Note: Result is 0 or 1, 0 means fail ,1 means success

WIFI 设置：

Client：

Request|WIFISetting|SSID|SSID show or hide|security mode|password|max customer number

Service:

Result|WIFISetting|result Note: Result is 0 or 1, 0 means fail ,1 means success

Note：”SSID show or hide”is false or true , false means hide , true means show

“Security mode”is 0,1,2 ，0 means open ， 1 means WPA\_PSK，2 means WPA\_PSK2

Max customer is number，the number is from 1 to 10

9. 重启设置

Client:

Request|ReBoot

Service:

Result|ReBoot

Note: Result is 0 or 1, 0 means fail ,1 means success

10. 恢复出厂设置

Client：

Request|ReFactory

Service:

Result|ReFactory

Note: Result is 0 or 1, 0 means fail ,1 means success

11. 数据业务

Client:

Request| setDataEnabled|para

Service

Result| setDataEnabled

Note: Result is 0 or 1, 0 means fail ,1 means success

Para:1 means enable data, 0 or other numbers meas disable data

12. 图标显示

Client:

Request|Common

Service:Result|Common|MaxconnectedCustomer|unreadsms|Battery|networkType|SPN|RSRP|Language|DataActivity

Note: Result is 0 or 1, 0 means fail ,1 means success

Note:

DataActivity:

UPDOWNLOAD，或者UPLOAD,或者DOWNLOAD，NONE,表示即不上传也不下载，但data是on的。OFF直接表示data是off的

13. 语言设置：

设置语言：

Client:

Request|SetLanguage|language

Service:

Result|SetLanguage

Note：Language : 1 means Chinese , 0 means English

Result is 0 or 1, 0 means fail ,1 means success

14. 短信界面

1. 获取短信

Client:

Request|GetSmsContent|page number

Service:

Result|GetSmsContent|total|count|id|addr|body|time|flag

Note: Result is 0 or 1, 0 means fail ,1 means success, the body is part

Note : every page show ten Sms， page number is 1, 2 …, flag : 1 means read , 0 means unread

1. 设置短信已读(获取单条短信)

Client:

Request|GetOneSmsAndClean|id

Service:

Result|GetOneSmsAndClean|id|address|body|data

Note: Result is 0 or 1, 0 means fail ,1 means success, the body is full

Note: the id means database id

1. 删除短信

Client:

Request|DeleteSms|id1

Service:

Result|DeleteSms

Note: Result is 0 or 1, 0 means fail ,1 means success

1. 发送短信

Client:

Request|SendSms|addre|body

Service:

Result|SendSms

Note: Result is 0 or 1, 0 means fail ,1 means success

1. 短信设置：

获取

Client:

Request|GetSmsSettings

Service:

Result|GetSmsSettings|time|CenterNum|reporter

设置

Client:

Request|SetSmsSettings|time|CenterNum|reporter

Service:

Result|SetSmsSettings

6 . SIM 卡短信：

Client:

Request| GetSIMSms|pagenumber

Service:

Result| GetSIMSms | count|oncecount|id|address|body|data|id|address|body|data|…

单条短信：

Client:

Request| GetOneSIMSms|id

Service:

Result| GetOneSIMSms|id|address|body|data..

15. WPS(Wi-Fi Protected Setup)

Client

PBC模式：Request|SetWPSConnectMode|0

PIN模式：Request|SetWPSConnectMode|1|PINcode

Service:Result| SetWPSConnectMode

Note: Result is 0 or 1, 0 means fail ,1 means successs

源码不支持获取已设置的模式，所以每次进入次界面都不会选中已经设置的模式

16. USB共享

Client：

Request|USBShare

Service：

Result|USBShare

17. FOTA Update

Client:

Request|FOTA

Service：

Result|FOTA