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| 接口汇总 |
| UI:  查看注册信息  GET http://localhost:8888/sc/apps/11403219640491/info  GET http://localhost:8888/sc/devs/11403219640491/info  删除注册信息(移除APP/DEV)  DELETE http://localhost:8888/sc/apps/11403219640491/info  DELETE http://localhost:8888/sc/devs/11403219640491/info  查看所有注册信息  GET http://localhost:8888/sc/apps/info  GET http://localhost:8888/sc/devs/info  查看实时信息  GET http://localhost:8888/sc/apps/1403160482091/realtimeinfo  GET http://localhost:8888/sc/devs/1403160482091/realtimeinfo  查看所有实时信息  GET http://localhost:8888/sc/apps/realtimeinfo  GET http://localhost:8888/sc/devs/realtimeinfo  通知目标整理快照  PUT http://localhost:8888/sc/apps/1403062839532/snapshot  PUT http://localhost:8888/sc/devs/1403062839532/snapshot  下载快照  GET http://10.65.100.199:8888/sc/apps/1403062839532/snapshot  GET http://10.65.100.199:8888/sc/devs/1403062839532/snapshot  查看快照列表  GET http://10.65.100.199:8888/sc/apps/snapshot  GET http://10.65.100.199:8888/sc/devs/snapshot  上传安装包  POST httphttp://localhost:8888/sc/apps/package?app=test&ver=1.1.2.1  查看所有安装包  GET http://localhost:8888/sc/apps/package  查看版本状态  GET http://localhost:8888/sc/apps/11403230900530/version  要求升级  PUT http://localhost:8888/sc/apps/11403230900530/version  控制操作  PUT http://localhost:8888/sc/apps/11403230900530/status  PUT http://localhost:8888/sc/devs/11403230900530/status  APP:  注册  POST http://localhost:8888/sc/apps/info  修改注册信息  PUT http://localhost:8888/sc/apps/11403219640491/info  更新实时信息  PUT http://localhost:8888/sc/apps/1403160482091/realtimeinfo  上传快照  POST http://10.65.100.199:8888/sc/apps/1403062839532/snapshot  下载安装包  GET http://localhost:8888/sc/apps/1402897623296/package  DEV:  注册  POST http://localhost:8888/sc/devs/info  修改注册信息  PUT http://localhost:8888/sc/devs/11403219640491/info  更新实时信息  PUT http://localhost:8888/sc/devs/1403160482091/realtimeinfo  上传快照  POST <http://10.65.100.199:8888/sc/devs/1403062839532/snapshot> |
| APP注册 |
| 新注册一个APP，调用者APP  POST <http://localhost:8888/sc/apps/info>  {  "head": {},  "data": {  "guid": "A467-7BDACDDDDD",  "hash": "A876-DB810A7FFFFF",  "enable": true,  "name": "renpeng\_app",  "alias": "",  "version": "1.0.0.0",  "host": "10.65.10.11",  "port": 500,  "root\_url": "/recv/",  "manage\_url": "http://10.65.100.111/manage/",  "protocol": "HTTP",  "type": "ADS",  "category": "SECURITY\_APP",  "updatable": false,  "registedTime": "2014-07-11 09:11:52"  }  }返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{"id":"11403219640491"}  } |
| 查询APP注册信息，调用者UI  GET <http://localhost:8888/sc/apps/11403219640491/info>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "app": {  "id": "11403230900530",  "name": "test\_name",  "enable": true,  "type": "ADS",  "category": "SECURITY\_APP",  "register\_time": "2014-06-20 10:21:22",  "version": "1.0.2.1",  "hash": "12345678",  "host": "192.168.1.1",  "port": 8088,  "root\_url": "/recv",  "protocol": "HTTP",  "updatable": true  }  }  } |
| 更新APP注册信息，调用者APP  限制：只能修改以下字段:version, hash, host, port, root\_url, protocol  PUT <http://localhost:8888/sc/apps/11403219640491/info>  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "version": "1.4.3.1",  "hash": "ABCDEFG",  "host": "192.168.2.1",  "port": 80000,  "root\_url": "/recv/OK",  "protocol": "HTTPS"  }  }  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"updated!"}  } |
| 删除APP，调用者UI/APP  DELETE <http://localhost:8888/sc/apps/11403219640491/info>  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"app removed 11403219640491"}  } |
| 获取所有APP信息，调用者UI  GET <http://localhost:8888/sc/apps/info>  返回  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "apps": [  {  "id": "1402642764874",  "name": "wafandddsdddd",  "enable": true,  "type": "ADS",  "category": "SECURITY\_APP",  "register\_time": "2014-06-13 14:59:24",  "version": "1.0.0.1",  "hash": "12345678",  "host": "192.168.1.1",  "port": 8088,  "root\_url": "/recv",  "protocol": "HTTP",  "updatable": true  },  {  "id": "1402897623296",  "name": "test\_name",  "enable": true,  "type": "ADS",  "category": "SECURITY\_APP",  "register\_time": "2014-06-16 13:47:03",  "version": "1.0.0.1",  "hash": "12345678",  "host": "192.168.1.1",  "port": 8088,  "root\_url": "/recv",  "protocol": "HTTP",  "updatable": false  }  ]  }  } |
| APP实时信息 |
| 更新实时信息：调用者APP  PUT <http://localhost:8888/sc/apps/1403160482091/realtimeinfo>  {  “head”: {},  “data”: {  "state": "PAUSED",  "start\_time": 1403160482,  "cpu": 100,  "memory\_used": 200,  "memory\_total": 2048,  "disk\_used": 102400,  "disk\_total": 1024000  }  }  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"updated!"}  } |
| 获取实时信息：调用者UI  GET <http://localhost:8888/sc/apps/1403160482091/realtimeinfo>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "realtime\_info": {  "app\_id": "1403160482091",  "type": "APP",  "state": "INIT",  "update\_time": "2014-06-20 08:00:58",  "life": "[16241]D [0]H [2]M [25]S",  "cpu": 100,  "memory\_used": 200,  "memory\_total": 2048,  "disk\_used": 102400,  "disk\_total": 1024000  }  }  } |
| 获取所有APP实时信息：调用者UI  GET <http://localhost:8888/sc/apps/realtimeinfo>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "realtime\_infos": [  {  "app\_id": "1401955068885",  "type": "APP",  "state": "INIT",  "update\_time": "2014-06-10 14:47:53",  "life": "[9]D [17]H [50]M [1]S",  "cpu": 12,  "memory\_used": 300,  "memory\_total": 0,  "disk\_used": 0,  "disk\_total": 0  },  {  "app\_id": "1401955261078",  "type": "APP",  "state": "INIT",  "update\_time": "2014-06-10 14:48:00",  "life": "[9]D [17]H [50]M [1]S",  "cpu": 12,  "memory\_used": 300,  "memory\_total": 0,  "disk\_used": 0,  "disk\_total": 0  }  ]  }  } |
| APP快照管理 |
| APP快照收集，调用者UI  PUT <http://localhost:8888/sc/apps/1403062839532/snapshot>  返回(因APP端尚无配合，所以返回错误):  {  "OPT\_STATUS":404,  “head”:{},  “data”:{“result”:"app returned malformed json."}  } |
| APP上传快照，调用者APP  POST <http://10.65.100.199:8888/sc/apps/1403062839532/snapshot>  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"upload succeed."}  }  注意：根据HTTP文件上传标准RFC 1867   |  | | --- | | <!DOCTYPE HTML>  <html lang="en-US">  <head>  <meta charset="UTF-8">  <title></title>  </head>  <body>  <form  action="http://10.65.100.199:8888/sc/apps/1403062839532/snapshot"  method="post"  enctype="multipart/form-data">  <label for="file">Filename:</label>  <input type="file" name="file" id="file" />  <br />  <input type="submit" name="submit" value="Submit" />  </form>  </body>  </html> | |
| 下载快照，调用者UI  GET <http://10.65.100.199:8888/sc/apps/1403062839532/snapshot>  返回：下载的文件 |
| 取得快照列表，调用者UI  GET <http://10.65.100.199:8888/sc/apps/snapshot>  返回：  {  "OPT\_STATUS": 0,  “head”: {},  “data”: {  "snapshots": [  {  "id": "1402897623296",  "type": "APP",  "name": "test\_name",  "filename": "snapshot\_app\_1402897623296.exe",  "upload\_time": "2014-06-20 08:43:05",  "size": 2473592  },  {  "id": "1403062839532",  "type": "APP",  "name": "test\_name2",  "filename": "snapshot\_app\_1403062839532.exe",  "upload\_time": "2014-06-20 08:36:49",  "size": 2473592  }  ]  }  } |
| APP安装包管理 |
| 上传安装包，调用者UI  注意：   1. 应该还有SC去APPStore上拉软件包信息列表、软件安装包，由于条件未满足，所以此功能later 2. 与上传快照文件类似，都是依据HTTP文件上传标准RFC 1867 3. 需要提供安装包适合的软件名和版本信息(暂定)   POST httphttp://localhost:8888/sc/apps/package?app=test&ver=1.1.2.1  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"uploaded"}  } |
| 下载安装包，调用者APP  注意：  当UI通知APP升级后，APP主动找SC下载安装包，进行升级  GET <http://localhost:8888/sc/apps/1402897623296/package> |
| 列举安装包，调用者UI  GET <http://localhost:8888/sc/apps/package>  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "snapshots": [  {  "appname": "repeng",  "version": "1.1.2.1",  "upload\_time": "1969-12-18 02:44:25",  "size": 12154618  },  {  "appname": "test",  "version": "1.1.2.1",  "upload\_time": "1969-12-18 02:48:54",  "size": 12154618  }  ]  }  } |
| APP版本信息管理 |
| 获取APP版本状态，调用者UI  GET <http://localhost:8888/sc/apps/11403230900530/version>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "UPDATABLE": true,  "CURRENT\_VERSION": "1.0.2.1",  "NEW\_VERSION": "1.3.2.1"  }  } |
| 要求APP升级，调用者 UI  注意：此功能需要APP端配合，故现在只有个框架，返回值都是404  PUT <http://localhost:8888/sc/apps/11403230900530/version> |
| APP控制接口 |
| 控制APP，调用者UI  注意：此功能依赖APP，故现在只有框架，返回值都会失败  PUT <http://localhost:8888/sc/apps/11403230900530/status> |

设备管理器接口

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| 设备注册 |
| 注册一个DEV，调用者UI/  注意：现在假设设备主动上报注册信息；被动的注册未实现(从UI输入设备IP等基本信息后SC自己找设备注册)  POST <http://localhost:8888/sc/devs/info>  {  “head”: {},  “data”: {  "name": "ADS-99",  "alias": "ADS-99",  "hash": "AAAAAAAAAA",  "engine\_ver": "1.0.0.1",  "firmware\_ver": "1.0.0.1",  "rule\_ver": "1.0.0.1",  "api\_ver": "1.0.0.1",  "host": "10.65.100.122",  "port": 8889,  "protocol": "HTTP",  "root\_url": "/dev/",  "manage\_url": "https://www.qq.com",  "license": "NORMAL",  "throughput": 200,  "mcc": 200,  "cpu\_num": 300,  "cpu\_frq": 222,  "mem": 2222,  "disk": 2222,  "type": "ADS",  "mac\_addrs": [  "0A-0B-0C-0D-0E-F0",  "0A-0B-0C-0D-0E-F1",  "0A-0B-0C-0D-0E-F2"  ],  "service": [  "ADS",  "IPS",  "WVSS"  ]  }  }  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "dev": "21403239683144"  }  } |
| 如果是被动注册： |
| POST <http://localhost:8888/sc/devs/info>?passive=true  SC收到这个请求后会再向设备请求设备:  POST http://{dev.ip}:9999/4sdnapi/register  {  “head”:{},  “data”:{  “sc”:http://{sc.ip}/sc/devs/info  }  }  设备收到这个请求后会同步地发起主动注册过程，结果会沿原路径返回 |
| 读取DEV注册信息，调用者UI  GET <http://localhost:8888/sc/devs/21403239683144/info>  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "dev": {  "id": "21403239683144",  "name": "ADS-99",  "hash": "AAAAAAAAAA",  "engine\_ver": "1.0.0.1",  "firmware\_ver": "1.0.0.1",  "rule\_ver": "1.0.0.1",  "api\_ver": "1.0.0.1",  "host": "10.65.100.122",  "port": 8889,  "protocol": "HTTP",  "root\_url": "/dev/",  "enable": true,  "register\_time": "2014-06-20 12:47:57",  "type": "ADS",  "category": "SECURITY\_DEVICE",  "mac\_addrs": [  "0A-0B-0C-0D-0E-F0",  "0A-0B-0C-0D-0E-F1",  "0A-0B-0C-0D-0E-F2"  ]  }  }  } |
| 修改DEV注册信息，调用者DEV  注意：目前仅限以下字段可修改：name,hash,versions,host,port,protocol,root\_url  PUT <http://localhost:8888/sc/devs/21403239683144/info>  {  “head”: {},  “data”: {  "name": "ADS-99",  "hash": "ABCDEFGHIJKL",  "engine\_ver": "1.0.0.1",  "firmware\_ver": "1.0.0.1",  "rule\_ver": "1.0.0.1",  "api\_ver": "1.0.0.1",  "host": "10.65.100.122",  "port": 8889,  "protocol": "HTTP",  "root\_url": "/dev/"  }  }  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"updated!"}  } |
| 删除DEV注册信息，调用者UI  DELETE <http://localhost:8888/sc/devs/21403240667571/info>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  “result”: "dev removed 21403240667571"  }  } |
| 获取所有DEV注册信息列表，调用者UI  GET <http://localhost:8888/sc/devs/info>  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "devs": [  {  "id": "21403239683144",  "name": "ADS-99",  "hash": "ABCDEFGHIJKL",  "engine\_ver": "1.0.0.1",  "firmware\_ver": "1.0.0.1",  "rule\_ver": "1.0.0.1",  "api\_ver": "1.0.0.1",  "host": "10.65.100.122",  "port": 8889,  "protocol": "HTTP",  "root\_url": "/dev/",  "enable": true,  "register\_time": "2014-06-20 12:47:57",  "type": "ADS",  "category": "SECURITY\_DEVICE",  "mac\_addrs": [  "0A-0B-0C-0D-0E-F0",  "0A-0B-0C-0D-0E-F1",  "0A-0B-0C-0D-0E-F2"  ]  },  {  "id": "21403240653890",  "name": "ADS-98",  "hash": "AAAAAAAAAA",  "engine\_ver": "1.0.0.1",  "firmware\_ver": "1.0.0.1",  "rule\_ver": "1.0.0.1",  "api\_ver": "1.0.0.1",  "host": "10.65.100.123",  "port": 8889,  "protocol": "HTTP",  "root\_url": "/dev/",  "enable": true,  "register\_time": "2014-06-20 13:04:13",  "type": "ADS",  "category": "SECURITY\_DEVICE",  "mac\_addrs": [  "0A-0B-0C-0D-0E-F0",  "0A-0B-0C-0D-0E-F1",  "0A-0B-0C-0D-0E-F2"  ]  }  ]  }  } |

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| DEV实时状态信息 |
| 更新实时状态，调用者DEV  PUT <http://localhost:8888/sc/devs/21403240653890/realtimeinfo>  {  “head”: {},  “data”: {  "state": "PAUSED",  "start\_time": 1403160482,  "cpu": 100,  "memory\_used": 200,  "memory\_total": 2048,  "disk\_used": 102400,  "disk\_total": 1024000  }  } |
| 读取DEV实时状态，调用者UI  GET <http://localhost:8888/sc/devs/21403240653890/realtimeinfo>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "realtime\_info": {  "app\_id": "21403240653890",  "type": "DEV",  "state": "PAUSED",  "update\_time": "2014-06-20 13:10:09",  "life": "[0]D [22]H [23]M [31]S",  "cpu": 100,  "memory\_used": 200,  "memory\_total": 2048,  "disk\_used": 102400,  "disk\_total": 1024000  }  }  } |
| 读取DEV实时状态信息列表，调用者UI  GET <http://localhost:8888/sc/devs/realtimeinfo>  返回：  {  "OPT\_STATUS": 200,  “head”: {},  “data”: {  "realtime\_infos": [  {  "app\_id": "21403239683144",  "type": "DEV",  "state": "INIT",  "update\_time": "1970-01-01 08:00:00",  "life": "[16241]D [5]H [12]M [32]S",  "cpu": 0,  "memory\_used": 0,  "memory\_total": 0,  "disk\_used": 0,  "disk\_total": 0  },  {  "app\_id": "21403240653890",  "type": "DEV",  "state": "PAUSED",  "update\_time": "2014-06-20 13:10:09",  "life": "[0]D [22]H [24]M [30]S",  "cpu": 100,  "memory\_used": 200,  "memory\_total": 2048,  "disk\_used": 102400,  "disk\_total": 1024000  }  ]  }  } |

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| DEV快照信息(与APP快照实现方法相同) |
| 要求DEV上报快照，调用者UI  PUT <http://localhost:8888/sc/devs/21403240653890/snapshot>  注意：此功能依赖DEV端实现，所以目前不会调用成功，但接口已经写好 |
| DEV上传快照，调用者DEV  POST <http://localhost:8888/sc/devs/21403240653890/snapshot>  返回：  {  "OPT\_STATUS":200,  “head”:{},  “data”:{“result”:"upload succeed."}  } |
| 下载DEV快照，调用者UI  GET <http://localhost:8888/sc/devs/21403240653890/snapshot> |
| 获取DEV快照信息列表  GET <http://localhost:8888/sc/devs/snapshot>  返回：  {  "OPT\_STATUS": 0,  “head”: {},  “data”: {  "snapshots": [  {  "id": "21403240653890",  "type": "DEV",  "name": "ADS-98",  "filename": "snapshot\_dev\_21403240653890.exe",  "upload\_time": "2014-06-20 13:21:04",  "size": 2473592  }  ]  }  } |

DEV控制接口

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| 控制DEV，调用者UI  注意：此功能依赖DEV，故现在只有框架，返回值都会失败  PUT <http://localhost:8888/sc/devs/11403230900530/status> |