

高德750云对云下单和对接公桩相关 接口文档 API Specification

接口规范

上汽通用汽车有限公司

1. INFO4网关状态码-SGM 3

2. AuthCode生成方式 5

3. 【云对云下单】创建订单 9

4. 【云对云下单】订单查询 12

5. 【公桩】修改预约 15

6. 【公桩】充电站列表查询 18

7. 【公桩】创建公桩预约 23

8. 【公桩】开启地锁 26

9. 【公桩】更新用户收藏充电站 29

10. 【公桩】查询公桩预约 32

11. 【公桩】获取充电桩信息 36

12. 【公桩】获取充电站详情 39

13. 【公桩】获取用户收藏充电站 52

14. 【公桩】车辆特性查询 56

15. 【INFO4 GATEWAY-AM】Appkey生成 59

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INFO4网关状态码-SGM

错误case	SGM HttpCode	ResponseBody	处理逻辑
UserToken校验失败	200	{ "resultCode":"1007", "message": User access token validation failed", "dataSet":{ } }	
网关路由未找到	200	{ "resultCode":"0010", "message": Gateway route not found", "dataSet":{ } }	
App调用接口未授权	200	{ "resultCode":"0004", "message": This app id invoke this api permiss on denied", "dataSet":{ } }	
后端接口Connection Timeout 网关抛出ConnectTimeoutExcept ion	200	{ "resultCode":"0006", "message":"Connnection /Read timeout", "dataSet":{ } }	
必要参数缺失	200	{ "resultCode":"6002", "message": Mandatory parameters missing", "dataSet":{ } }	
系统异常	200	{ "resultCode":"999", "message":"系统异常", "dataSet":{ } }	
服务限流，网关抛出 BlockException	200	{ "resultCode":"998", "message":"服务暂时不可用", "dataSet":{ } }	
appId相关信息未注册到info4 am (透传info4 am返回)	200	{ "resultCode":"0001", "message": App id validation failed", "dataSet":{ } }	
info4 am时间戳校验失败(透传 info4 am返回)	200	{ "resultCode":"0002", "message": TimeStamp validation failed", "dataSet":{ } }	

info4 am校验客户端认证码失败 (透传info4 am返回)	200	{ "resultCode":"0003", "message": AuthCode validation failed", "dataSet":{ } }	需调用【INFO4 GATEWAY-AM】Appkey生成 接口获取应用最新Appkey , 根据最新Appkey生成authcode , 重新调用业务接口
info4 am未配置应用App信息 (透传info4 am返回)	200	{ "resultCode":"0011", "message":"App does not exist", "dataSet":{ } }	

AuthCode生成方式

1. 获取APPKEY

- 客户端初始化时，如本地无有效的AppKey或 业务接口返回 **0003客户端认证码校验未通过 (Appkey无效)**，则使用获取appkey接口，获取当前有效Key。
- APPKEY获取接口需要指定appId，并使用双向认证传 (local PKI)。

```
//KeyKey
Request
curl -X POST\
'https://$sgm-server:$CS-server-port/info4gw/apigateway/public/generateAppKey/{appId}'

Response Body
{
    "resultCode": "0000",
    "message": "Success",
    "dataSet":{
        "appKey": "caabad0eb7c9440f94a1bbf1fa01efc7",
        "expirationMinutes": 6000000
    }
}
```

2 计算AuthCode

- TOTP算法说明：<https://www.rfc-editor.org/rfc/rfc6238.html>

Result Demo

```
appId = "0lsQoWek"
key = "766175cc49c611e8842f0ed5f89f718b"
timeStamp = 1593676903748

AuthCode Result:
47923565
```

JAVA Sample

```
package com.sgm.xxx.xxxxxxx;

import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.GeneralSecurityException;

import static java.lang.Math.abs;

public class TOTPUtil {
    /**
     * T = (Current Unix time - T0) / X, where the
     * default floor function is used in the computation.
     *
     * @author wuwenhui
     * @date 2020-07-01 11:44
     */

    /**
     * :
     */
    private static final long STEP = 60000;
```

```

/**
 * [1-8]
 */
private static final int CODE_DIGITS = 8;

/**
 *
 */
private static final long INITIAL_TIME = 0;

/**
 *
 */
private static final long FLEXIBILIT_TIME = 60000;

/**
 *
 */
private static final int[] DIGITS_POWER = {1, 10, 100, 1000, 10000, 100000, 1000000, 10000000, 100000000};
/**
 *
 */
private static final int KEY_LENGTH = 32;

    /**
    * keyauthCode,
    *
    * @param key
    * @param timeStamp
    * @return
    */
public String generateMyTOTP(String key, Long timeStamp) {
    if (key.isEmpty()) {
        throw new RuntimeException("");
    }
    if (key.length() < KEY_LENGTH) {
        throw new RuntimeException(": " + KEY_LENGTH);
    }
    return generateTOTP256(key, String.valueOf(timeFactor(timeStamp)));
}

/**
 * keyauthCode
 *
 * @param key
 * @return
 */
public static String generateMyTOTP(String key) {
    if (key.isEmpty()) {
        throw new RuntimeException("");
    }
    if (key.length() < KEY_LENGTH) {
        throw new RuntimeException(": " + KEY_LENGTH);
    }
    return generateTOTP256(key, String.valueOf(timeFactor(System.currentTimeMillis())));
}

/**
 *
 *
 *
 * @param key
 * @param totp
 * @return boolean
 */
public static boolean verifyTOTPRigidity(String key, String totp) {
    return generateMyTOTP(key).equals(totp);
}

/**

```

```

*
*
*
* @param key
* @param totp
* @return boolean
*/
public static boolean verifyTOTPFlexibility(String key, String totp) {
    Long currentTime = System.currentTimeMillis();
    String tempTotp = generateTOTP256(key, String.valueOf(timeFactor(currentTime)));
    if (tempTotp.equals(totp)) {
        return true;
    }
    //
    String tempTotpSub = generateTOTP256(key, String.valueOf(timeFactor(currentTime - FLEXIBILIT_TIME)));
    if (tempTotpSub.equals(totp)) {
        return true;
    }
    //
    String tempTotpAdd = generateTOTP256(key, String.valueOf(timeFactor(currentTime + FLEXIBILIT_TIME)));
    return tempTotpAdd.equals(totp);
}

/**
 * []
 *
 *
 * @param key
 * @param time
 * @param totp
 * @return boolean
 */
public static boolean verifyTOTPByTime(String key, long time, String totp) {
    Long currentTime = System.currentTimeMillis();
    if (abs(currentTime - time) <= FLEXIBILIT_TIME) {
        String tempTotp = generateTOTP256(key, String.valueOf(timeFactor(time)));
        return tempTotp.equals(totp);
    } else {
        return false;
    }
}

/**
 *
 *
 * @param targetTime
 * @return long
 */
private static long timeFactor(long targetTime) {
    return (targetTime - INITIAL_TIME) / STEP;
}

/**
 *
 *
 * @param crypto
 * @param keyBytes
 * @param text
 * @return byte[]
 */
private static byte[] hmacSha(String crypto, byte[] keyBytes, byte[] text) {
    try {
        Mac hmac;
        hmac = Mac.getInstance(crypto);
        SecretKeySpec macKey = new SecretKeySpec(keyBytes, "RAW");
        hmac.init(macKey);
        return hmac.doFinal(text);
    } catch (GeneralSecurityException gse) {
        throw new UndeclaredThrowableException(gse);
    }
}
}

```

```

public static byte[] hexStr2Bytes(String hex) {
    int num = Integer.parseInt(hex);
    byte[] ret = new byte[8];
    for (int i = 7; i >= 0; --i) {
        ret[i] = (byte) (num & 255);
        num = num >> 8;
    }

    return ret;
}

private static String generateTOTP(String key, String time) {
    return generateTOTP(key, time, "HmacSHA1");
}

private static String generateTOTP256(String key, String time) {
    return generateTOTP(key, time, "HmacSHA256");
}

private static String generateTOTP512(String key, String time) {
    return generateTOTP(key, time, "HmacSHA512");
}

private static String generateTOTP(String key, String time, String crypto) {

    byte[] msg = hexStr2Bytes(time);
    byte[] k = key.getBytes();
    byte[] hash = hmacSha(crypto, k, msg);
    return truncate(hash);
}

/**
 *
 *
 * @param target 20
 * @return String
 */
private static String truncate(byte[] target) {
    StringBuilder result;
    int offset = target[target.length - 1] & 0xf;
    int binary = ((target[offset] & 0x7f) << 24)
        | ((target[offset + 1] & 0xff) << 16)
        | ((target[offset + 2] & 0xff) << 8) | (target[offset + 3] & 0xff);

    int otp = binary % DIGITS_POWER[CODE_DIGITS];
    result = new StringBuilder(Integer.toString(otp));
    while (result.length() < CODE_DIGITS) {
        result.insert(0, "0");
    }
    return result.toString();
}
}

```


【云对云下单】创建订单

接口介绍	高德SD/HQ下单
接口地址	/info4gw/apigateway/info4-map/sgmMap/createOrder
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[TOTP]

文档状态	DRAFT		
接口版本	版本	修改内容	修改人
	v1.0	初始化文档	张银通
来源系统	INFO4-MAP		
系统发布	v1.0		
设计者	SGM IT		

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例

Request Body

编号	参数名称	参数类型	是否必须	参数含义						
1	uuid	String	Y	32位字符						
2	sidTag	String	Y	地图类型 <table><tr><th>取值</th><th>含义</th></tr><tr><td>SD</td><td>标清地图</td></tr><tr><td>HQ</td><td>高精地图</td></tr></table>	取值	含义	SD	标清地图	HQ	高精地图
取值	含义									
SD	标清地图									
HQ	高精地图									

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	JSON Object	Y	返回结果集
3.1	cusOrderId	String	N	客户订单ID

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/info4-map/sgmMap/createOrder

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"

Request Body: {
  "uuid": "XXXXXX...(32)",
  "sidTag": "SD"
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body{
  "resultCode": "0000",
  "message": "Success",
  "dataSet": {
    "cusOrderId": "xxxx"
  }
}
```

异常返回示例

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
  "resultCode": "4009",
  "message": "The response data of the xxxxx service is abnormal"
}
```

【云对云下单】订单查询

接口介绍	查询高德下单成功与否的状态
接口地址	/info4gw/apigateway/info4-map/sgmMap/orderQuery
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[TOTP]

文档状态	DRAFT		
接口版本	版本	修改内容	修改人
	v1.0	初始化文档	张银通
来源系统	INFO4-MAP		
系统发布	v1.0		
设计者	SGM IT		

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	uuid	String	Y	32位字符
2	cusOrderId	String	Y	客户订单ID

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注								
1	resultCode	String	Y	返回状态码								
2	message	String	Y	返回消息								
3	dataSet	JSON Object	Y	返回结果集								
3.1	orderStatus	String	N	订单状态 <table><tr><th>状态</th><th>说明</th></tr><tr><td>1</td><td>已下单/等待交付</td></tr><tr><td>2</td><td>已完成</td></tr><tr><td>3</td><td>已失败</td></tr></table>	状态	说明	1	已下单/等待交付	2	已完成	3	已失败
状态	说明											
1	已下单/等待交付											
2	已完成											
3	已失败											

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

POST https://\$sgm-server:\$CS-server-port/info4gw/apigateway/info4-map/sgmMap/orderQuery

HTTP Header:

"Content-Type": "application/json;charset=UTF-8"

"appId": "xxxxxxxxxxx"

"timestamp": "11111111"

"authCode": "XXXXXX"

Request Body: {

"uuid": "XXXXXX...(32)",

"cusOrderId": "XXXXX"

}

正常返回

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body{

"resultCode": "0000",

"message": "Success",

"dataSet": {

"orderStatus": "1"

}

}

异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

{

"resultCode": "4009",

"message": "The response data of the xxxxx service is abnormal"

}

【公桩】修改预约

接口介绍	修改预约
接口地址	/info4gw/apigateway/private/info4-map/charging-station/npo/charge/update
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	preNum	String	Y	预约单号
2	status	Integer	Y	预约单状态: 1: 已预约 2: 已完成 3: 已取消
3	cancelReason	String	N	取消理由

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
----	------	------	------	------

1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	Object	Y	返回结果
3.1	preNum	String	Y	预约单号

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/npoc/charge/update

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXX"
"accessToken": "XXXXXX"

Request Body: {
  "preNum": "NPOE21122800000013",
  "status": "3",
  "cancelReason": ""
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body{
  "resultCode": "0000",
  "message": "Success",
  "dataSet": null
}
```


异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

```
{  
  "resultCode": "4009",  
  "message": "The response data of the xxxxx service is abnormal"  
}
```

【公桩】充电站列表查询

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/csds/queryStationNew
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	areaCode	String	N	城市
2	lat	String	N	纬度
3	lng	String	N	经度
4	keyWords	String		地址/充电站名称 模糊查询
5	stationFlag	String		充电站标识 (A,B,C类)
6	distance	String		距离 (默认单位: 公里)
7	stationType	String		不传或0代表所有, 1为仅对外开放, 2为不对外开放
8	from	String		默认为第一页
9	size	String		默认查询前100条
10	stationStatus	String		站点状态 0: 未知; 1: 建设中; 5: 关闭下线; 6: 维护中; 50: 正常使用
11	isParkFeeFree	String		停车减免 0: 不支持 1: 支持
12	stationList	List		
12.1	operatorId	String		充电站ID

12.2	stationIds	List<String>		充电站ID
13	filterList	List		
13.1	filterAttr	String		筛选属性
13.2	filterValue	List<String>		筛选值

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	List	Y	返回结果集
3.1	total	long		总记录数
3.2	from	Integer		页码
3.3	siez	Integer		每页数量
3.4	resultList	List		充电站列表
3.4.1	parkFee	String		停车费
3.4.2	fastChargingFree	Integer		快充剩余数量
3.4.3	stationType	Integer		站点类型 1: 公共; 50: 个人; 100: 公交 (专用); 101: 环卫 (专用); 102: 物流 (专用); 103: 出租车 (专用); 255: 其他
3.4.4	siteGuide	String		站点引导
3.4.5	serviceTel	String		服务电话
3.4.6	lowPrice	String		最低价格 电费 + 服务费
3.4.7	countryCode	String		充电站国家代码
3.4.8	stationStatus	Integer		站点状态 0: 未知; 1: 建设中; 5: 关闭下线; 6: 维护中; 50: 正常使用
3.4.9	construction	Integer		建设场所 1: 居民区; 2: 公共机构; 3: 企事业单位; 4: 写字楼; 5: 工业园区; 6: 交通枢纽; 7: 大型文体设施; 8: 城市绿地; 9: 大型建筑配建停车场; 10: 路边停车位; 11: 城际高速服务区; 255: 其他
3.4.10	stationName	String		充电站名称
3.4.11	payment	String		支付方式
3.4.12	slowChargingTotal	Integer		慢充总量
3.4.13	operatorId	String		运营商id
3.4.14	stationId	String		充电站id
3.4.15	serviceFee	String		服务费率
3.4.16	address	String		详细地址
3.4.17	statType	String		自营 默认

3.4.18	stationTel	String		站点电话
3.4.19	busineHours	String		营业时间
3.4.20	fastChargingTotal	Integer		快充总量
3.4.21	stationLat	Double		纬度
3.4.22	electricityFee	String		充电电费率
3.4.23	stationLng	Double		经度
3.4.24	statStatus	String		公共 对外开放/不对外开放
3.4.25	areaCode	String		充电站省市辖区编码
3.4.26	parkInfo	String		车位楼层以及数量描述
3.4.27	slowChargingFree	Integer		慢充剩余数量
3.4.28	distance	Double		输入经纬度返回
3.4.29	stationFlag	String		充电站标识 (A,B,C类) 会存在值为null的情况
3.4.30	sort	Integer		排序
3.4.31	bespeakCharge	String		预约充电 0:不支持 1:支持
3.4.32	bespeakPark	String		预约停车 0:不支持 1:支持

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

POST https://\$sgm-server:\$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/*csds*
/queryStationNew

HTTP Header:

"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxx"
"timestamp": 11111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXX"
"accessToken": "XXXXXX"

Request Body:

```
{
  "areaCode": "310100",
  "lat": "32.489931",
  "lng": "119.862440",
  "keyWords": "浦东",
  "stationList": [
    {
      "operatorId": "395815801",
      "stationIds": [
        "4101050005",
        "4101050006"
      ]
    }
  ],
  "filterList": [
    {
      "filterAttr": "1",
      "filterValue": [
        "1",
        "2"
      ]
    }
  ]
}
```

正常返回

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body{

```
"resultCode": "0000",
"message": "Success",
"dataSet": {
  }
}
```

异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

```
{  
  "resultCode": "4009",  
  "message": "The response data of the xxxxx service is abnormal"  
}
```

【公桩】创建公桩预约

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/np0/pre/create
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	operatorId	String	Y	Id
2	stationId	String	Y	Id
3	connectorId	String	Y	ID
4	brandId	String	Y	1. 2. 3. 4. 5.
5	remark	String	N	
6	source	String	Y	来源

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	Obj	Y	返回体
3.1	preNum	String	Y	预约单号

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例


```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/npo/pre/create

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXXX"
"accessToken": "XXXXXXX"

Request Body:

{
  "operatorId": "运营商Id",
  "stationId": "充电站Id",
  "connectorId": "充电设备接口ID",
  "brandId": "1.别克 2.凯迪 3.雪佛兰 4.奥特能 5.泛亚",
  "remark": "备注",
  "source": "来源"
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body{
  "resultCode": "0000",
  "message": "Success",
  "dataSet": {"preNum": "395815801"}
```

异常返回示例

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
  "resultCode": "4009",
  "message": "The response data of the xxxxx service is abnormal"
}
```

【公桩】开启地锁

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/csds/chargeStation/unLock
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	operatorId	String	Y	ID
2	connectorId	String	Y	
3	brandId	String	Y	Id: 1 2 3
4	source	String	Y	渠道来源 手机应用: APP 微信小程序: WEAPP 车机端: CARAPP

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet		Y	返回结果

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/csds/chargeStation/unLock

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXXX"
"accessToken": "XXXXXXXX"

Request Body:
{
  "operatorId": "313744932",
  "connectorId": "1234988502",
  "brandId": "2",
  "source": "WEAPP"
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body{
  "resultCode": "0000",
  "message": "Success",
  "dataSet":""
}
```

异常返回示例

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
  "resultCode": "4009",
  "message": "The response data of the xxxxx service is abnormal"
}
```

【公桩】更新用户收藏充电站

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/saving/update
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	vehicleBrand	String	Y	BUICK, CHEVY, CADILLAC, CADILLAC_IQ
2	channel	String	Y	数据上传方 (可选值: CSM, MOBILE) CSM: 车机端, MOBILE: 手机端
3	updateType	String	Y	更新模式, 增量or全量 (可选值: INCREMENT, FULL)
4	savedStations	String	Y	用户收藏的充电站信息数组
4.1	operatorId	String	Y	充电站运营商id
4.2	stationId	String	Y	充电站id
4.3	stationSaved	Boolean	Y	充电站是否收藏
4.4	lastUpdateTime	Long	Y	收藏/取消收藏操作时的时间戳

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet		Y	空

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

POST https://\$sgm-server:\$CS-server-port/info4gw/apigateway/private/info4-map/*charging-station/saving/update*

HTTP Header:

"Content-Type": "application/json;charset=UTF-8"

"appId": "xxxxxxxxxxx"

"timestamp": 11111111

"authCode": "XXXXXX"

"ipdUserId": "XXXXXXX"

"accessToken": "XXXXXXXX"

Request Body:

```
{
  "vehicleBrand": "CADILLAC",
  "channel": "CSM",
  "updateType": "FULL",
  "savedStations": [
    {
      "operatorId": "A",
      "stationId": "A",
      "stationSaved": true,
      "lastUpdateTime": 1669087628435
    }
  ]
}
```

正常返回

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body{

"resultCode": "0000",

"message": "Success",

"dataSet": { }

}

异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

{

"resultCode": "4009",

"message": "The response data of the xxxxx service is abnormal"

}

【公桩】查询公桩预约

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/np0/pre/query
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	source	String	N	
2	operatorId	String	N	ID
3	brandId	String	Y	1. 2. 3.
4	preNum	String	N	
5	status	Integer	N	1. 2 3
6	pageNum	Integer	N	页码
7	pageSize	Integer	N	页容量

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	Array	Y	返回体
3.1	totalCount	Integer	Y	总记录数
3.2	pageNum	Integer	Y	页码
3.3	pageSize	Integer	Y	每页数量
3.4	totalPage	Integer	Y	总页数
3.5	chargingAppointments	List	Y	预约单列表
3.5.1	preNum	Integer	Y	预约单号
3.5.2	status	String	Y	预约单状态：1：已预约 2：已完成 3：已取消
3.5.3	source	String	Y	来源
3.5.4	brandId	String	Y	品牌 1.别克 2.凯迪 3.雪佛兰
3.5.5	operatorId	String	Y	运营商
3.5.6	stationId	String	Y	充电站ID
3.5.7	stationName	String	Y	充电站名称
3.5.8	stationAddress	String	Y	充电桩地址
3.5.9	equipmentId	String	Y	充电设备id
3.5.10	equipmentName	String	Y	充电设备名称
3.5.11	connectorId	String	Y	充电设备接口id
3.5.12	connectorName	String	Y	充电设备接口名称
3.5.13	lng	String	Y	经度
3.5.14	lat	String	Y	维度
3.5.15	userId	String	Y	用户id
3.5.16	createTime	String	Y	预约创建时间
3.5.17	cancelType	String	Y	1.客户取消 2 超时取消
3.5.18	cancelReason	String	Y	取消理由
3.5.19	remark	String	Y	备注

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect

4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/npo/pre/query

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXX"
"accessToken": "XXXXXX"

Request Body:
{
  "status": 1
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body{
  "resultCode": "0000",
  "message": "Success",
  "dataSet":
{
  "chargingAppointments": [
    {
      "preNum": "NPOE21122800000009",
      "status": 1,
      "source": "XAPP",
      "brandId": "1",
      "operatorId": "395815801",
      "stationId": "3702120244",
      "stationName": "",
      "stationAddress": "()",
      "equipmentId": "3702120244412",
      "equipmentName": "412",
      "connectorId": "3702120244412",
      "connectorName": "412",
      "lng": "20.007624",
      "lat": "110.348592",
      "userId": "CHEV922631158",
      "cancelType": null,
      "remark": null,
      "cancelReason": null,
      "createTime": "2021-12-28 10:59:53",
      "updateTime": "2021-12-28 10:59:53",
      "essentialFactor": {
        "brandId": "1",
        "source": "XAPP",
        "operatorId": null,
        "userId": "CHEV922631158",
        "connectorId": "3702120244412"
      }
    }
  ],
  "totalCount": 1,
  "pageSize": 10,
  "pageNum": 1,
  "totalPage": 1
}
}
```

异常返回示例

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
  "resultCode": "4009",
  "message": "The response data of the xxxxx service is abnormal"
}
```

【公桩】获取充电桩信息

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/csds/queryStation/equipment
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	operatorId	String	N	ID
2	stationId	String	N	ID
3	equipmentId	String	N	id

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	List	Y	返回结果集
3.1	equipmentId	String	Y	充电设备编号
3.2	equipmentName	String	Y	充电设备名称+B50A50:E51
3.3	power	String	Y	充电设备总功率
3.4	connectorInfoItem	List	Y	充电接口列表
3.4.1	connectorId	String	Y	充电设备接口编码
3.4.2	connectorName	String	Y	充电设备接口名称
3.4.3	chargeType	String	Y	充电类型,0:慢充,1:快充
3.4.4	voltageUpperLimits	String	Y	额定电压上限
3.4.5	voltageLowerLimits	String	Y	额定电压下限
3.4.6	ratedCurrent	String	Y	额定电流(单位:A)
3.4.7	power	String	Y	额定功率
3.4.8	nationalStandard	String	Y	国家标准
3.4.9	status	String	Y	充电接口状态, 充电设备接口状态 0:离网 1:空闲 2:占用(未充电) 3:占用(充电中) 4:占用(预约锁定) 255:故障
3.4.10	parkinglockFlag	String	Y	地锁标识 0:无 1:有
3.4.11	lockStatus	String	Y	地锁状态: 0 未知 10:已解锁 50 已上锁
3.4.12	parkNo	String	Y	车位号

结果码一览

编号	状态码	消息内容
0		见 INFO4 网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/csds/queryStation/equipment

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXXX"
"accessToken": "XXXXXXX"

Request Body: {
  "operatorId": "operatorId",
  "stationId": "stationId",
  "equipmentId": ""
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body{
  "resultCode": "0000",
  "message": "Success",
  "dataSet": {
    "equipmentId": "充电设备编号",
    "equipmentName": "充电设备名称+B50A50:E51",
    "power": "充电设备总功率",
    "connectorInfoItem": [
      {
        "connectorId": "充电设备接口编码",
        "connectorName": "充电设备接口名称",
        "chargeType": "充电类型,0:慢充,1:快充",
        "voltageUpperLimits": "额定电压上限",
        "voltageLowerLimits": "额定电压下限",
        "ratedCurrent": "额定电流(单位：A)",
        "power": "额定功率",
        "nationalStandard": "国家标准",
        "status": "充电接口状态",
        "parkinglockFlag": "地锁标识",
        "lockStatus": "地锁状态",
        "parkNo": "车位号"
      }
    ]
  }
}
```

异常返回示例

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
  "resultCode": "4009",
  "message": "The response data of the xxxxx service is abnormal"
}
```

【公桩】获取充电站详情

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/csds/queryStation/info
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	operatorId	String	是	id
2	stationId	String	是	id
3	lng	String	同时传或者同时不传	经度
4	lat	String		纬度

返回参数说明

HTTP Header

address

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	List	Y	返回结果集
3.1	operatorId	String	Y	运营商ID
3.2	stationName	String	Y	充电站名称
3.3	pictures	数组	N	充电站照片列表,["1.jpg","2.jpg"]
3.4	stationTel	String	N	站点联系电话
3.5	serviceTel	String	N	运营商服务电话
3.6	address	String	N	详细地址
3.7	stationLng	String	N	经度
3.8	stationLat	String	N	纬度
3.9	costItem	List	N	价格信息列表
3.9.1	time	String	Y	时间段
3.9.2	electricityFee	String	Y	电费单价
3.9.3	serviceFee	String	Y	服务费单价
3.9.4	equipmentType	integer	Y	充电设备类型 0:所有 1: 直流设备 2: 交流设备 3: 交直流一体设备 (0915版本新增字段)
3.10	fastChargingFree	String	Y	快充桩剩余数量
3.11	fastChargingTotal	String	Y	快充桩总数
3.12	slowChargingFree	String	Y	慢充桩剩余数量
3.13	slowChargingTotal	String	Y	慢充桩总数
3.14	stationType	integer	Y	电站类型 站点类型 1: 公共; 50: 个人; 100: 公交 (专用); 101: 环卫 (专用); 102: 物流 (专用); 103: 出租车 (专用); 255: 其他
3.15	stationStatus	integer	Y	电站状态, 站点状态 0: 未知; 1: 建设中; 5: 关闭下线; 6: 维护中; 50: 正常使用
3.16	busineHours	String	N	营业时间描述
3.17	parkInfo	String	N	停车位楼层
3.18	parkFee	String	N	停车收费信息
3.19	distance	String	N	距离, 经纬度参数如果不为空则返回距离数据
3.20	equipmentInfoItem	List	N	充电设备信息列表
3.20.1	equipmentId	String	Y	充设备编号
3.20.2	equipmentName	String	Y	充设备名称+B50A50:E51
3.20.3	power	String	Y	充电设备总功率
3.20.4	connectorInfoItem	List		充电接口列表
3.20.4.1	connectorId	String	Y	充电设备接口编码
3.20.4.2	connectorName	String	Y	充电设备接口名称
3.20.4.3	chargeType	String	Y	充电类型, 0: 慢充, 1: 快充
3.20.4.4	voltageUpperLimits	String	Y	额定电压上限
3.20.4.5	voltageLowerLimits	String	Y	额定电压下限

3.20.4.6	ratedCurrent	String	Y	额定电流(单位 : A)
3.20.4.7	power	String	Y	额定功率
3.20.4.8	nationalStandard	String	Y	国家标准
3.20.4.9	status	String	Y	充电接口状态, 充电设备接口状态 0 : 离网 1 : 空闲 2 : 占用 (未充电) 3 : 占用 (充电中) 4 : 占用 (预约锁定) 255 : 故障
3.20.4.10	parkinglockFlag	Integer	N	是否存在地锁 0:无 1:有
3.20.4.11	lockStatus	Integer	N	地锁状态 0 : 未知 10 : 已解锁 50 : 已上锁 255 : 故障
3.20.4.12	parkNo	String	N	车位号
3.21	stationId	String	Y	充电站Id
3.22	statType	String	Y	自营 默认
3.23	statStatus	String	Y	公共 对外开放/不对外开放
3.24	stationFlag	String	N	充电站标识(A , B , C类)
3.25	sort	Integer	N	排序
3.26	bespeakCharge	String	N	预约充电 0:不支持 1:支持 (IQ专用)
3.27	bespeakPark	String	N	预约停车 0:不支持 1:支持 (IQ专用)
3.28	parkFeeFree	String	N	免费停车标识 0:收费 1:完全免费 2:输入充电车辆后享受优惠 3:通过充电消费凭证享受优惠 4:限时免费 5:凭停车费抵扣二维 码享受优惠
3.29	articleTitle	String	N	电站运营标签 最多支持500汉字,(支持多个逗号隔开 , 接入方自行解析)
3.30	areaCode	String	N	电站地址编码
3.31	carOwnerFlag	String	N	是否支持公共充电 1 : 支持
3.32	idleFeeDetail	String	N	特斯拉占位费描述 (0915版本新增字段)
3.33	internalUse	String	N	是否内部站 1 : 是
3.34	stationTypeFlag	String	N	场站类型 : 商场、机场、文体等
3.35	parkType	String	N	车位情况 : 侧桩、后桩、混合

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/csds/queryStation
/info
```

```
HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXXXXX"
"accessToken": "XXXXXXXXXX"
```

```
Request Body: {
  "operatorId": "313744932",
  "stationId": "444"
}
```

正常返回

HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

[illegible]

```

    "time": "11:30~13:30",
    "electricityFee": "1.0000"
  },
  {
    "serviceFee": "0.0000",
    "time": "13:30~18:00",
    "electricityFee": "1.0000"
  },
  {
    "serviceFee": "0.0000",
    "time": "18:00~23:59",
    "electricityFee": "1.0000"
  }
],
"pictures": [
  "https://open-cdn.starcharge.com/e3995ce9-f9c2-4790-a6bd-35a4bee7b219.JPG",
  "https://open-cdn.starcharge.com/b12798a5-eec5-4a15-b5b9-b5aee3c79b3d.JPG",
  "https://open-cdn.starcharge.com/547e4b5f-1179-40e7-a06d-6f28eb245034.PNG"
],
"equipmentInfoItem": [
  {
    "equipmentName": "充电设备10000757",
    "power": "7.0",
    "equipmentId": "11000000000000010000757",
    "connectorInfoItem": [
      {
        "voltageUpperLimits": "253",
        "ratedCurrent": "32",
        "connectorId": "11000000000000010000757000",
        "chargeType": "0",
        "connectorName": "充电桩10000757",
        "power": "7.0",
        "nationalStandard": "1",
        "voltageLowerLimits": "187",
        "status": "0",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 50,
        "idpUserId": null,
        "preFlag": null
      }
    ]
  }
],
{
  "equipmentName": "充电设备10401097",
  "power": "120.0",
  "equipmentId": "11000000000000010401097",
  "connectorInfoItem": [
    {
      "voltageUpperLimits": "600",
      "ratedCurrent": "0",
      "connectorId": "11000000000000010401097000",
      "chargeType": "1",
      "connectorName": "充电桩10401097",
      "power": "120.0",
      "nationalStandard": "2",
      "voltageLowerLimits": "380",
      "status": "2",
      "parkNo": "",
      "parkingLockFlag": 0,
      "lockStatus": 50,
      "idpUserId": null,
      "preFlag": null
    }
  ]
},
{
  "equipmentName": "充电设备10001302",
  "power": "7.0",
  "equipmentId": "11000000000000010001302",
  "connectorInfoItem": [

```

```

    {
      "voltageUpperLimits": "253",
      "ratedCurrent": "32",
      "connectorId": "11000000000000010001302000",
      "chargeType": "0",
      "connectorName": "充电桩10001302",
      "power": "7.0",
      "nationalStandard": "1",
      "voltageLowerLimits": "187",
      "status": "1",
      "parkNo": "",
      "parkingLockFlag": 0,
      "lockStatus": 0,
      "idpUserId": null,
      "preFlag": null
    }
  ],
  {
    "equipmentName": "充电设备10002457",
    "power": "7.0",
    "equipmentId": "11000000000000010002457",
    "connectorInfoItem": [
      {
        "voltageUpperLimits": "253",
        "ratedCurrent": "32",
        "connectorId": "11000000000000010002457000",
        "chargeType": "0",
        "connectorName": "充电桩10002457",
        "power": "7.0",
        "nationalStandard": "1",
        "voltageLowerLimits": "187",
        "status": "1",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
      }
    ]
  },
  {
    "equipmentName": "充电设备10001367",
    "power": "7.0",
    "equipmentId": "11000000000000010001367",
    "connectorInfoItem": [
      {
        "voltageUpperLimits": "253",
        "ratedCurrent": "32",
        "connectorId": "11000000000000010001367000",
        "chargeType": "0",
        "connectorName": "充电桩10001367",
        "power": "7.0",
        "nationalStandard": "1",
        "voltageLowerLimits": "187",
        "status": "1",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
      }
    ]
  },
  {
    "equipmentName": "充电设备10000755",
    "power": "7.0",
    "equipmentId": "11000000000000010000755",
    "connectorInfoItem": [
      {
        "voltageUpperLimits": "253",

```

```

        "ratedCurrent": "32",
        "connectorId": "1100000000000010000755000",
        "chargeType": "0",
        "connectorName": "充电桩10000755",
        "power": "7.0",
        "nationalStandard": "1",
        "voltageLowerLimits": "187",
        "status": "0",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
    }
},
{
    "equipmentName": "充电设备10001349",
    "power": "7.0",
    "equipmentId": "1100000000000010001349",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010001349000",
            "chargeType": "0",
            "connectorName": "充电桩10001349",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10001303",
    "power": "7.0",
    "equipmentId": "1100000000000010001303",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010001303000",
            "chargeType": "0",
            "connectorName": "充电桩10001303",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "0",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10001360",
    "power": "7.0",
    "equipmentId": "1100000000000010001360",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010001360000",

```

```

        "chargeType": "0",
        "connectorName": "充电桩10001360",
        "power": "7.0",
        "nationalStandard": "1",
        "voltageLowerLimits": "187",
        "status": "1",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
    }
}
},
{
    "equipmentName": "充电设备10002470",
    "power": "7.0",
    "equipmentId": "1100000000000010002470",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010002470000",
            "chargeType": "0",
            "connectorName": "充电桩10002470",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002446",
    "power": "7.0",
    "equipmentId": "1100000000000010002446",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010002446000",
            "chargeType": "0",
            "connectorName": "充电桩10002446",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10401161",
    "power": "120.0",
    "equipmentId": "1100000000000010401161",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "600",
            "ratedCurrent": "0",
            "connectorId": "1100000000000010401161000",
            "chargeType": "1",
            "connectorName": "充电桩10401161",

```

```

        "power": "120.0",
        "nationalStandard": "2",
        "voltageLowerLimits": "380",
        "status": "0",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
    }
}
},
{
    "equipmentName": "充电设备10001356",
    "power": "7.0",
    "equipmentId": "1100000000000010001356",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010001356000",
            "chargeType": "0",
            "connectorName": "充电桩10001356",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "0",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10001278",
    "power": "7.0",
    "equipmentId": "1100000000000010001278",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010001278000",
            "chargeType": "0",
            "connectorName": "充电桩10001278",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "0",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002246",
    "power": "7.0",
    "equipmentId": "1100000000000010002246",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "1100000000000010002246000",
            "chargeType": "0",
            "connectorName": "充电桩10002246",
            "power": "7.0",
            "nationalStandard": "1",

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```

        "voltageLowerLimits": "187",
        "status": "1",
        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
    }
}
},
{
    "equipmentName": "充电设备10002466",
    "power": "7.0",
    "equipmentId": "11000000000000010002466",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002466000",
            "chargeType": "0",
            "connectorName": "充电桩10002466",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10001438",
    "power": "7.0",
    "equipmentId": "11000000000000010001438",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010001438000",
            "chargeType": "0",
            "connectorName": "充电桩10001438",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10000601",
    "power": "7.0",
    "equipmentId": "11000000000000010000601",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010000601000",
            "chargeType": "0",
            "connectorName": "充电桩10000601",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "0",

```



```

        "parkNo": "",
        "parkingLockFlag": 0,
        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
    }
},
{
    "equipmentName": "充电设备10002448",
    "power": "7.0",
    "equipmentId": "11000000000000010002448",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002448000",
            "chargeType": "0",
            "connectorName": "充电桩10002448",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002469",
    "power": "7.0",
    "equipmentId": "11000000000000010002469",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002469000",
            "chargeType": "0",
            "connectorName": "充电桩10002469",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002260",
    "power": "7.0",
    "equipmentId": "11000000000000010002260",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002260000",
            "chargeType": "0",
            "connectorName": "充电桩10002260",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,

```

```

        "lockStatus": 0,
        "idpUserId": null,
        "preFlag": null
    }
}
},
{
    "equipmentName": "充电设备10002343",
    "power": "7.0",
    "equipmentId": "11000000000000010002343",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002343000",
            "chargeType": "0",
            "connectorName": "充电桩10002343",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002265",
    "power": "7.0",
    "equipmentId": "11000000000000010002265",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002265000",
            "chargeType": "0",
            "connectorName": "充电桩10002265",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002485",
    "power": "7.0",
    "equipmentId": "11000000000000010002485",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002485000",
            "chargeType": "0",
            "connectorName": "充电桩10002485",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "0",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,

```

```

        "preFlag": null
    }
}
},
{
    "equipmentName": "充电设备10001373",
    "power": "7.0",
    "equipmentId": "11000000000000010001373",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010001373000",
            "chargeType": "0",
            "connectorName": "充电桩10001373",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "1",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
},
{
    "equipmentName": "充电设备10002484",
    "power": "7.0",
    "equipmentId": "11000000000000010002484",
    "connectorInfoItem": [
        {
            "voltageUpperLimits": "253",
            "ratedCurrent": "32",
            "connectorId": "11000000000000010002484000",
            "chargeType": "0",
            "connectorName": "充电桩10002484",
            "power": "7.0",
            "nationalStandard": "1",
            "voltageLowerLimits": "187",
            "status": "0",
            "parkNo": "",
            "parkingLockFlag": 0,
            "lockStatus": 0,
            "idpUserId": null,
            "preFlag": null
        }
    ]
}
}
}
}

```

异常返回示例

```

HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
    "resultCode": "4009",
    "message": "The response data of the xxxxx service is abnormal"
}

```

【公桩】获取用户收藏充电站

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/saving/list
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	vehicleBrand	String	Y	BUICK, CHEVY, CADILLAC, CADILLAC_IQ
2	pageSize	Integer	Y	分页大小
3	pageNum	Integer	Y	分页页码

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	Object	Y	空
3.1	totalPages	Integer	Y	总页数
3.2	totalCount	Integer	Y	总数据条数
3.3	pageSize	Integer	Y	分页大小
3.4	pageNum	Integer	Y	分页页码
3.5	items	Array	Y	用户收藏/取消收藏的充电站列表
3.5.1	operatorId	String	Y	充电站运营商id
3.5.2	stationId	String	Y	充电站id
3.5.3	stationSaved	Boolean	Y	是否收藏该站
3.5.4	address	String	N	详细地址
3.5.5	stationLng	String	N	经度
3.5.6	stationLat	String	N	纬度
3.5.7	stationFlag	String	N	充电站标识(A, B, C类)
3.5.8	stationName	String	Y	充电站名称
3.5.10	fastChargingFree	String	Y	快充桩剩余数量
3.5.11	fastChargingTotal	String	Y	快充桩总数
3.5.12	slowChargingFree	String	Y	慢充桩剩余数量
3.5.13	slowChargingTotal	String	Y	慢充桩总数

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/saving/list

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXX"
"accessToken": "XXXXXX"

Request Body:
{
  "vehicleBrand": "CADILLAC",
  "pageSize": 10,
  "pageNum": 1
}
```

正常返回

```
HTTP/1.1 200 OK

HTTP Header:
Content-Type: application/json;charset=UTF-8

Response Body
{
  "resultCode": "0000",
  "message": "Success!",
  "dataSet": {
    "totalPages": 1,
    "totalCount": 1,
    "pageSize": 10,
    "pageNum": 1,
    "items": [
      {
        "operatorId": "A",
        "stationId": "D",
        "stationSaved": false,
        "stationLng": 32.1622,
        "stationLat": 119.5166,
        "stationName": " ",
        "address": "18E04-E17",
        "stationFlag": "D",
        "fastChargingFree": "",
        "fastChargingTotal": "",
        "slowChargingFree": "",
        "slowChargingTotal": ""
      }
    ]
  }
}
```

异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

```
{  
  "resultCode": "4009",  
  "message": "The response data of the xxxxx service is abnormal"  
}
```

【公桩】车辆特性查询

接口介绍	
接口地址	/info4gw/apigateway/private/info4-map/charging-station/vis2c/vin/feature/query
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[USER]+[TOTP]

请求参数说明

HTTP Header

编号	参数名称	参数类型	是否必须	参数含义
1	Content-Type	String	Y	固定值: application/json;charset=UTF-8
2	appId	String	Y	平台分配给接入方的身份识别id
3	timestamp	String	Y	时间戳, 当前毫秒数
4	authCode	String	Y	客户端认证Code, 算法详见authCode生成示例
5	idpUserId	String	Y	用户id
6	accessToken	String	Y	XXX/signin接口或者二维码登录等方式, 获取的User Access Token

Request Body

编号	参数名称	参数类型	是否必须	参数含义
1	features	list<String>	N	code
2	vin	String	Y	VIN

返回参数说明

HTTP Header

无

Response Body

编号	参数名称	参数类型	是否必须	含义备注
1	resultCode	String	Y	返回状态码
2	message	String	Y	返回消息
3	dataSet	Array	Y	返回体
3.1	featureCode	String	Y	特性code
3.2	featureValue	String	Y	特性value
3.3	clientAccessOpen	Boolean		

结果码一览

编号	状态码	消息内容
0		见 INFO4网关状态码-SGM
1	0000	Success
2	4001	The HTTP request parsing failed
3	4002	The HTTP request method is incorrect
4	4003	The HTTP request path is incorrect
5	4004	The HTTP header parameter is missing
6	4005	The content-type of the HTTP request is not supported
7	4007	The xxxxxx service is abnormal
8	4008	The third-party request service timed out
9	4009	The response data of the xxxxx service is abnormal
10	4011	The xxxxx service returns an execution failure, message: xxxxx
11	4012	The HTTP header parameter xxxx is missing
1	9999	System error

请求示例

```
POST https://$sgm-server:$CS-server-port/info4gw/apigateway/private/info4-map/charging-station/vis2c/vin/feature
/query

HTTP Header:
"Content-Type": "application/json;charset=UTF-8"
"appId": "xxxxxxxxxxx"
"timestamp": 111111111
"authCode": "XXXXXX"
"ipdUserId": "XXXXXXX"
"accessToken": "XXXXXXX"

Request Body:
{
  "features": ["features"],
  "vin": "xxxxxx"
}
```

正常返回

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body{

"resultCode": "0000",

"message": "Success",

"dataSet": [{"featureCode": "code", "featureValue": "value"}]}

}

异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

{

"resultCode": "4009",

"message": "The response data of the xxxxx service is abnormal"

}

【INFO4 GATEWAY-AM】Appkey生成

接口基本信息

接口介绍	生成AppKey
接口地址	/info4gw/apigateway/public/generateAppKey/{appId}
请求方式	POST
请求格式	application/json;charset=UTF-8
返回格式	application/json;charset=UTF-8
认证类型	[PUBLIC]

文档状态	DRAFT
接口版本	[v1.0]
来源系统	[INFO4.X]
系统发布	[v1.0]
设计者	[SGM IT]

请求参数说明：

URL Parameters:

编号	参数名称	参数类型	是否必须	含义备注
1	appId	String	是	appId

HTTP Header:

编号	参数名称	参数类型	是否必须	含义备注
1	Content-Type	字符	是	固定值: [application/json;charset=UTF-8]

Request Body:

编号	参数名称	参数类型	是否必须	含义备注
----	------	------	------	------

返回参数说明：

HTTP Header:

编号	参数名称	参数类型	是否必须	含义备注
1	Content-Type	字符	是	固定值: [application/json;charset=UTF-8]

Response Body:

编号	参数名称	参数类型	是否固定返回	含义备注
1	resultCode	字符	是	返回状态码
2	message	字符	是	返回消息
3	dataSet	JSON Object	是	返回结果集
3.1	appKey	String	是	appKey
3.2	expirationMinutes	Integer	是	此字段暂不使用

结果码一览：

编号	状态码	消息内容	说明
1	公共状态码		详见公共业务返回码
2	0000	Success	返回成功
3	0011	App does not exist	appId不存在

请求示例

POST localhost:9090/info4gw/apigateway/public/generateAppKey/INTELLIGENT_COCKPIT

HTTP Header:

"Content-Type": "application/json;charset=UTF-8"

Request Body:

```
{
}
```

正常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

```
{
  "resultCode": "0000",
  "message": "Success",
  "dataSet": {
    "appKey": "49269dd4cba443a7961dd820a7069862",
    "expirationMinutes": 600
  }
}
```

异常返回示例

HTTP/1.1 200 OK

HTTP Header:

Content-Type: application/json;charset=UTF-8

Response Body

```
{  
  "resultCode": "0011",  
  "message": "App does not exist",  
  "dataSet": {}  
}
```