



- `sign[8]ASCII[8]"[4]1=[4]1&[4]2=[4]2"[8]`
- `[4] mwMacKey`
`[8]"KEY=xxxxx"`
`[4]downloadKey[8]mwMacKey[8]KEY[4]`
`[4]signin[8]mwMacKey[4]mwTmk[4]`
- `[4]`
`MD5-32[8]HEX[8]sign[4]`
- `[4]`
`[8]null[8]`



```
{
  "action" : "inquiry",
  "deviceNo" : "POS01",
  "shopNo" : "CN123456",
  "brand" : "663",
  "body" :
"ewogICAgICAgICAidHJhY2VObyI6ICI5OTAwMDAwOTEwMDAxMDEwMTczMjEyMyIsCiAgICAgICAgICJvcmlnaW5hbFRyYWNITm8iOiAiOTkwMDAwMDkxMDAwMTAxMDE3MzIxMjQiCiAgICAgfQ==",
  "mwVersion" : "20161010",
  "ptlVersion" : "20161010",
  "posVersion" : "20161010",
  "timestamp" : "1483372334",
  "sign" : "F38545F4D74B5C10A9EBBC053ED9D1CF"
}
```

mwMacKey

94365019BBF9CEEAB0DF658E67754A70



```
action=inquiry&body=ewogICAgICAgICAidHJhY2VObyl6ICI5OTAwMDAwOTEwMDAxMDEwMTczMjEyMyIsCiAgICAgICAgICJvcmlnaW5hbFRyYWNITm8iOiAiOTkwMDAwMDkxMDAwMTAxMDE3MzlxMjQiCiAgICAgfQ==&brand=663&deviceNo=POS01&mwVersion=20161010&posVersion=20161010&ptlVersion=20161010&shopNo=CN123456&timestamp=1483372334
```

□□□□KEY

```
action=inquiry&body=ewogICAgICAgICAidHJhY2VObyl6ICI5OTAwMDAwOTEwMDAxMDEwMTczMjEyMyIsCiAgICAgICAgICJvcmlnaW5hbFRyYWNITm8iOiAiOTkwMDAwMDkxMDAwMTAxMDE3MzlxMjQiCiAgICAgfQ==&brand=663&deviceNo=POS01&mwVersion=20161010&posVersion=20161010&ptlVersion=20161010&shopNo=CN123456&timestamp=1483372334&KEY=94365019BBF9CEEAB0DF658E67754A70
```

□□□□

F38545F4D74B5C10A9EBBC053ED9D1CF

Java□□□□

```
Map<String, String> map = new TreeMap<>();
map.put("action", "downloadKey");
map.put("deviceNo", "CN999999");
map.put("shopNo", "CN999999");
map.put("brand", "1458");
map.put("body", "JXU2RDRCJXU4QkQ1JXU1MTg1JXU1QkI5JTlwJXU2RDRCJXU4QkQ1JXU1MTg1JXU1QkI5");
map.put("mwVersion", "20170214");
map.put("ptlVersion", "20170214");
map.put("posVersion", "20170214");
map.put("timestamp", "1483372334");
```

```
StringBuilder buffer = new StringBuilder();
for (Map.Entry<String, String> item : map.entrySet()) {
    buffer.append(item.getKey()).append("=").append(item.getValue()).append("&");
}
buffer.append("KEY=").append("F42616614BDC0000161EF06C04061484");
String checkSign = DESCoder.getInstance().encryptMD5(buffer.toString(), "UTF-8").toUpperCase();
System.out.println(buffer.toString());
System.out.println(checkSign);
```

□□:

action=downloadKey&body=JXU2RDRCJXU4QkQ1JXU1MTg1JXU1QkI5JTlwJXU2RDRCJXU4QkQ1JXU1MTg1JXU1QkI5
&brand=1458&deviceNo=CN999999&mwVersion=20170214&posVersion=20170214&ptlVersion=20170214&sh
opNo=CN999999×tamp=1483372334&KEY=F42616614BDC0000161EF06C04061484

824AE098F6135CF50A824BAE220379C6

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