

[1. Single real-time recommend](#)
[2. Batch real-time recommend](#)

The background indicates that the secretKey required for the connection verification parameter is based on the request parameters. The SDK is based on the default response.

## 1. Single real-time recommend

| Paths To      | /openapi/marketing/app/recommend |          |                                                                                                                                                                                                                                                                                  |
|---------------|----------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method        | POST                             |          |                                                                                                                                                                                                                                                                                  |
| Parameter     | Meaning                          | Required | Field description                                                                                                                                                                                                                                                                |
| userId        | Household ID                     | Yes      | the id of the customer to recommend                                                                                                                                                                                                                                              |
| boothId       | Booth ID                         | No       | This field and customBoothId are optional.                                                                                                                                                                                                                                       |
| customBoothId | Defined booth ID                 | No       | This field and boothId are both optional.                                                                                                                                                                                                                                        |
| slotNum       | Number of ideas                  | Yes      | The number of content to be recommend by the current customer                                                                                                                                                                                                                    |
| requestId     | Request ID                       | Yes      | Randomly generated                                                                                                                                                                                                                                                               |
| requestTime   | Request time: timestamp          | Yes      | Current request timestamp                                                                                                                                                                                                                                                        |
| accessId      | system organization id           | Yes      | QA System ID                                                                                                                                                                                                                                                                     |
| secretKey     | request signature key            | Yes      | If the SDK is not transferred, it will be automatically established. For other methods, only the SDK and POP parameters need to be supported before the secretKey is obtained.<br>Use the type of the object. Later: You can use the type of the secretKey to adjust the object. |
| uid           | account id                       | No       | The account ID of the POP type delivery. The public cloud type needs to be passed to check whether the account and the organization are consistent.                                                                                                                              |

Example of the call:

```
1  /**
2   * Query the audience list
3   */
4   @Test
5   public void testRecommend() {
6       IClientProfile profile = DefaultProfile.getProfile("qci-test.aliyu
7       n.com", "Pass into AccessId",
8           "Pass into AccessSecretKey");
9
10      IAcsClient client = new DefaultAcsClient(profile);
11      X509TrustAll.ignoreSSLCertificate();
12
13      RecommendRequest request = new RecommendRequest(MethodType.POST, P
14      rotocolType.HTTP, profile);
15      request.setBoothId("xxxxxx");
16      //request.setCustomBoothId("xxxxxx");
17      request.setRequestId("1");
18      request.setRequestTime(1L);
19      request.setSlotNum(1);
20      request.setUserId("");
21      request.setAcceptFormat(FormatType.JSON);
22      try {
23          RecommendResponse acsResponse = client.getAcsResponse(request)
24          ;
25          if (acsResponse.isSuccess()) {
26              for (DeliveryContent content : acsResponse.getData().getDe
27              liveryContents()) {
28                  //System.out.println(content);
29              }
30          } else {
31              //System.out.println(acsResponse.getErrorDesc());
32          }
33          System.out.println(JSON.toJSONString(acsResponse));
34      } catch (ClientException e) {
35          e.printStackTrace();
36      }
37  }
```

Returned result :

```

1  {
2    "data":{
3      "deliveryContents":[{
4        "content":[{
5          "materialType":"10",
6          "materials":[{"value":"ah real"}]
7        }],
8        "contentId":"d68246b39e2d4c7dbfcd02e1ed2f2685",
9        "contentType":["TEXT"],
10       "flowProportion":100,
11       "isPocketPlan":false,
12       "score":100
13     }]
14   },
15   "success":"true",
16   "traceId":"1"
17 }

```

## 2. Batch real-time recommend

| Paths to       | /openapi/marketing/app/batch/recommend |          |                   |
|----------------|----------------------------------------|----------|-------------------|
| Method         | POST                                   |          |                   |
| Parameter      | Meaning                                | Required | Field description |
| userId         | Household ID                           | Yes      |                   |
| boothIds       | Booth IDs, separated by,               | No       | aaa,bbb,ccc       |
| customBoothIds | Defined Booth IDs, separated by,       | No       | aaa,bbb,ccc       |
| slotNums       | The number of ideas, separated by,     | Yes      | aaa,bbb,ccc       |
| requestId      | Request ID                             | Yes      |                   |
| requestTime    | Request time: timestamp                | Yes      | Default contains  |
| accessId       | system organization id                 | Yes      | QA System ID      |

|           |                       |     |                                                                                                                                                                                                                     |
|-----------|-----------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| secretKey | request signature key | Yes | If the SDK is not transferred, it will be automatically transferred. For other methods, only the SDK and POP methods need to be transferred before obtaining the secretKey. Later, you can use the secretKey method |
| uid       | account id            | No  | The account id passed in POP mode needs to be passed in public cloud mode to verify whether the account is consistent with the organization.<br><br>Deployment not required                                         |

Example of the call:

```

1  @Test
2  public void testBatchRecommend() {
3      IClientProfile profile = DefaultProfile.getProfile("qci-test.aliyun.co
4      m", "Pass into AccessId",
5          "Pass into AccessSecretKey");
6      IAcsClient client = new DefaultAcsClient(profile);
7      BatchRecommendRequest request = new BatchRecommendRequest(MethodType.P
8      OST, ProtocolType.HTTP, profile);
9      request.setBoothIds("4a5bff53a99240369136034a697fbd49,8b5c6c3435104765
10     ba0d07ad25a847c4");
11     //request.setCustomBoothIds("f3c8aa6567184a99a36d65c418cecf83,4a5bff53
12     a99240369136034a697fbd49");
13     request.setRequestId("1");
14     request.setRequestTime(1L);
15     request.setSlotNums("1,1");
16     request.setUserId("2002624");
17     request.setAcceptFormat(FormatType.JSON);
18     try {
19         BatchRecommendResponse acsResponse = client.getAcsResponse(request
20         );
21         if (acsResponse.isSuccess()) {
22             Map<String, RecommendResponse.Data> data = acsResponse.getData
23             ();
24             for (String boothId: data.keySet()) {
25                 // Process the recommend content
26                 RecommendResponse.Data recommendResponse = data.get(boothI
27                 d);
28                 //System.out.println(recommendResponse);
29             }
30             } else {
31                 //System.out.println(acsResponse.getErrorDesc());
32             }
33         System.out.println(JSON.toJSONString(acsResponse));
34     } catch (ClientException e) {
35         e.printStackTrace();
36     }
37 }

```

Returned result:

key is: booth ID

The value is: the corresponding recommendation content of the booth is consistent with the individual.

```

1  {
2      "data": {
3          "8b5c6c3435104765ba0d07ad25a847c4": {
4              "deliveryContents": [
5                  {
6                      "contentId": "cf6d088f9774451491f8a45d87e2891b",
7                      "delivery": null,
8                      "deliveryId": "c946c98a7a49469f8fb59b2265140a31",
9                      "campaignId": "10bf7516db2e4318931daf36b385b3eb",
10                     "contentType": [
11                         "TEXT"
12                     ],
13                     "content": [
14                         {
15                             "materialType": 10,
16                             "materials": [
17                                 {
18                                     "value": "darkroom with lights"
19                                 }
20                             ],
21                             "name": "Delivery content-zhcTest2"
22                         }
23                     ],
24                     "referralLink": null,
25                     "deepLink": null,
26                     "flowProportion": 100,
27                     "isPocketPlan": false,
28                     "score": 100,
29                     "order": 0,
30                     "gmtModified": "2023-02-02 16:08:08"
31                 }
32             ]
33         },
34         "4a5bff53a99240369136034a697fbd49": {
35             "deliveryContents": [
36                 {
37                     "contentId": "d68246b39e2d4c7dbfcd02e1ed2f2685",
38                     "delivery": null,
39                     "deliveryId": "fa789715ca49414494c75da848a48573",
40                     "campaignId": "a8882130f1bc4fafa0b4bac8ca3bb110",
41                     "contentType": [
42                         "TEXT"
43                     ],
44                     "content": [
45                         {

```

```

46         "materialType": 10,
47         "materials": [
48             {
49                 "value": "ah real"
50             }
51         ],
52         "name": "Content 001-zhcTest"
53     }
54 ],
55     "referralLink": null,
56     "deepLink": null,
57     "flowProportion": 100,
58     "isPocketPlan": false,
59     "score": 100,
60     "order": 0,
61     "gmtModified": "2023-02-02 15:56:14"
62 }
63 ]
64 }
65 },
66     "errorCode": null,
67     "errorDesc": null,
68     "exStack": null,
69     "opers": [
70     ],
71     "solution": null,
72     "success": true,
73     "traceId": "1"
74 }

```