ToO DB Web APIs

Prepared by Han Xuhui on behalf of the SUSS development team at CSC

Why Providing The ToO DB Web APIs

- 1. The ToO DB is complex (59 tables in the database).
- 2. The access of ToO DB is restricted (security reason).
- 3. The Web APIs can be easily to built into website and code.
- 4. The data structure of Web APIs is clearly described in the document.

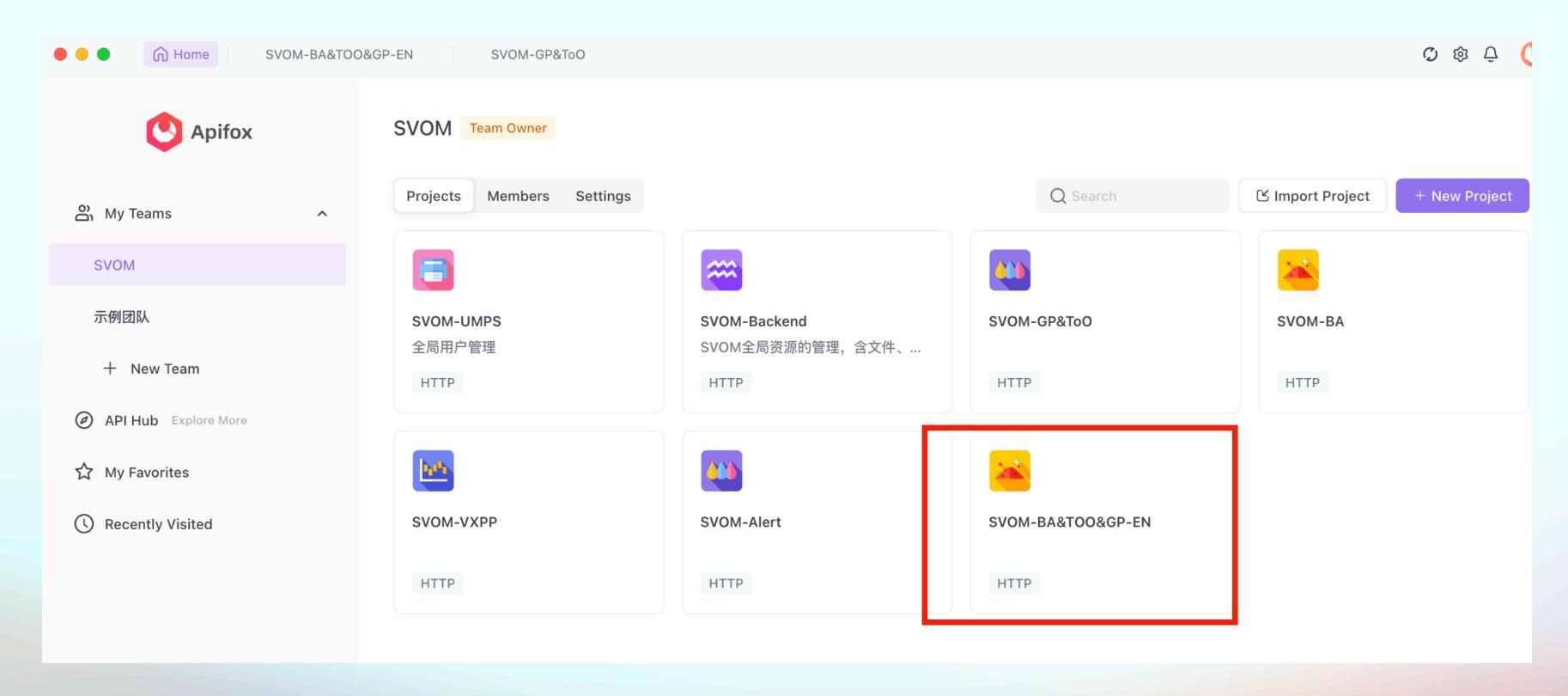
The information provided by ToO DB Web APIs

- 1. ToO proposal and voting result
- 2. The ToO target and ToO-MM tiling
- 3. ToO request of SVOM and status
- 4. SVOM workplan and execution status

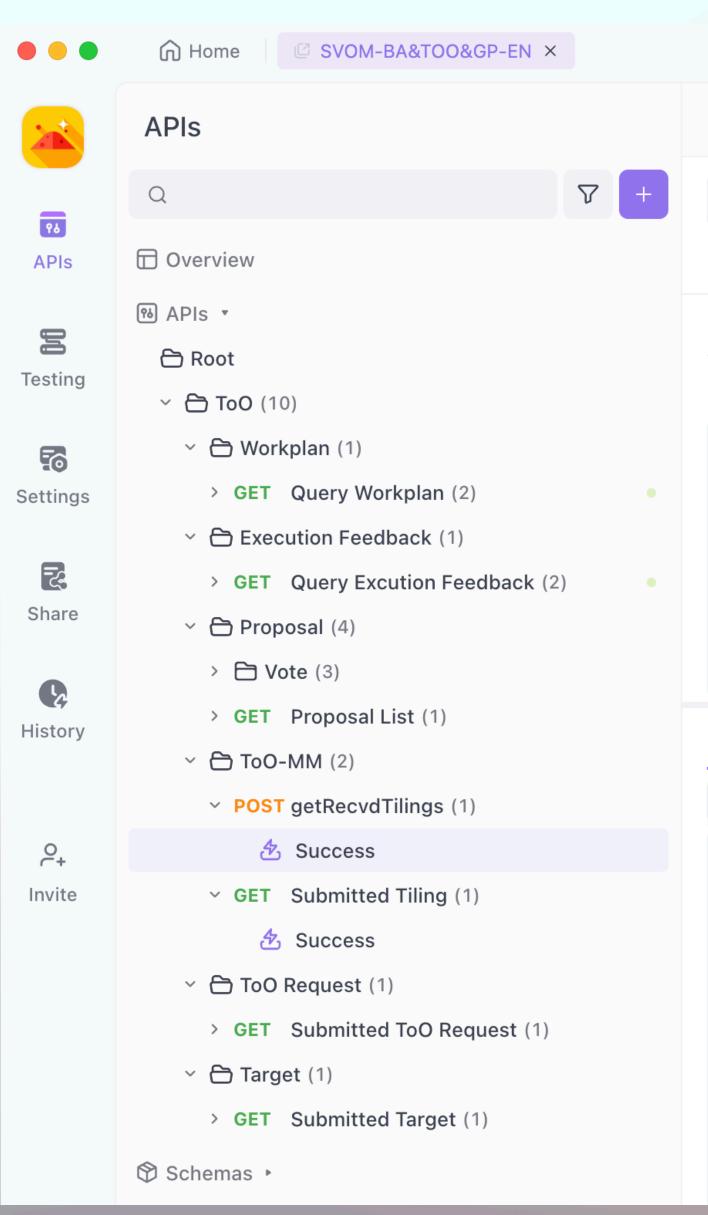
To be added

- 1. ToO proposal and voting result
- 2. the ToO-MM tilings for the ground telescope
- 3. Follow-up request of the ground telescope and status
- 4. Data status and download link

TOO DB Web APIs online document

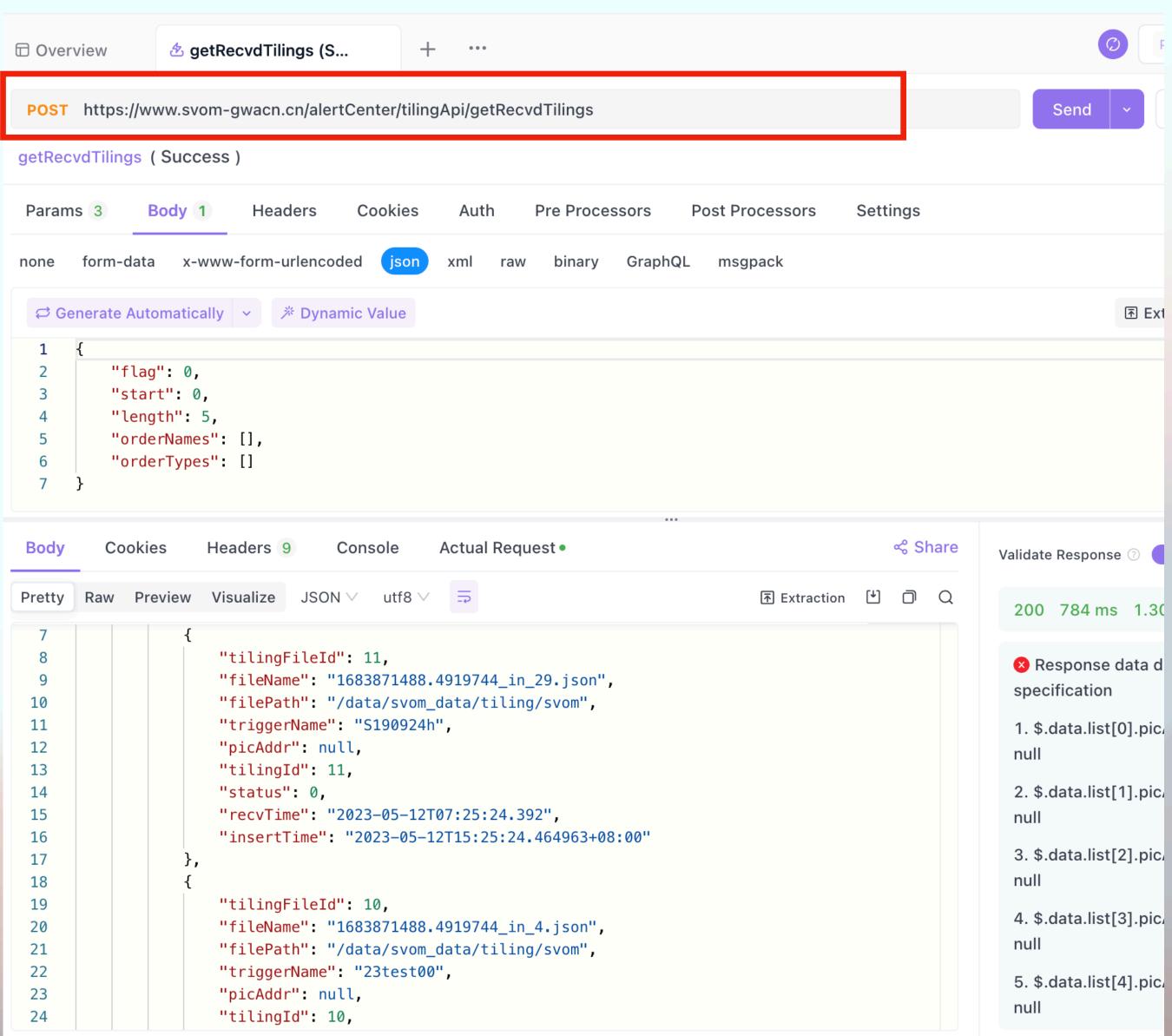


Apifox online document (need to be invited)



Example of TOO DB Web APIs

Run APIs online



Example of TOO DB Web APIs

```
> function convertObjToQuery(obj) : string {...}
 const query : {...} = {
                             Using API in the code
     'triggerId': null,
     'triggerName': null,
     'telescopeName': null
 const data : {...} = {
     "flag": 0,
     "start": 0,
     "length": 10,
     "orderNames": []
     "orderTypes": []
 const url : string = 'https://www.svom-gwacn.cn/alertCenter/tilingApi/getRecvdTilings' + '?' + convertObjToQuery(query);
                                                                                                                                            Result
 let requestOptions :{...} = {
     method: 'POST',
     headers: {
         'Content-Type': 'application/json'
                                                        Result:
                                                        E ▼ Array (8)
     body: JSON.stringify(data),
                                                            0 ► {tilingFileId: 11, fileName: "1683871488.4919744_in_29.json", filePath: "/data/svom_data/tiling/svom", triggerName: "S190924h", picAddr: null, ...}
     redirect: 'follow'
                                                            1 ► {tilingFileId: 10, fileName: "1683871488.4919744_in_4.json", filePath: "/data/svom_data/tiling/svom", triggerName: "23test00", picAddr: null, ...}
                                                            2 ▶ {tilingFileId: 9, fileName: "1683871488.4919744_in_4.json", filePath: "/data/svom_data/tiling/svom", triggerName: "23test00", picAddr: null, ...}
                                                            3 ► {tilingFileId: 8, fileName: "1683871488.4919744_in_4.json", filePath: "/data/svom_data/tiling/svom", triggerName: "23test00", picAddr: null, ...}
                                                            4 ▶ {tilingFileId: 7, fileName: "1683700760.1423793_x.json", filePath: "/data/svom_data/tiling/svom", triggerName: "23test00", picAddr: null, ...}
 fetch(url, requestOptions)
                                                            5 ▶ {tilingFileId: 6, fileName: "1683700760.1423793_in_2021.json", filePath: "/data/svom_data/tiling/svom", triggerName: "S200114f", picAddr: null, ...}
     .then(response : Response => {
                                                            6 ▶ {tilingFileId: 5, fileName: "1680252982.6082575_in_8.json", filePath: "/data/svom_data/tiling/svom", triggerName: "S200114f", picAddr: null, ...}
        response.json().then(result => {

√ ItilingFileId: 4, fileName: "1680174750.3315089_in_2.json", filePath: "/data/svom_data/tiling/svom", triggerName: "S200114f", picAddr: null, ...}

            if (result.errCode === 0) {
                                                           ▶ "Array"原型
                console.log('Result:');
                console.log(result.data.list);
            } else {
                console.log('Error with return: ' + result.msg);
        })
     })
     .catch(error => console.log('Error', error));
```

Example of TOO DB Web APIs

Result:

```
import requests
                            Using API in the code
query = {
   'triggerId': None,
   'triggerName': None,
   'telescopeName': None
data = {
   "flag": 0,
   "start": 0,
   "length": 10,
   "orderNames": [],
   "orderTypes": []
```

Result

```
url = 'https://www.svom-gwacn.cn/alertCenter/tilingApi/getRecvdTilings'
caponac - requesta.post(ort, parama-query, jaor
if response.status_code == requests.codes.ok:
   response_json = response.json()
   if response_json.get('errCode') == 0:
       data_list = response_json.get('data').get('list')
       print(f'Result: \n{data_list}')
   else:
       print(f'Failed with return: {response_json.get("msg")}')
else:
   print(f'Failed with {response.status_code}')
```

[{'tilingFileId': 11, 'fileName': '1683871488.4919744_in_29.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': 'S190924h ', 'picAddr': None, 'tilingId': 11, 'status': 0, 'recvTime': '2023-05-12T07:25:24.392', 'insertTime': '2023-05-12T15:25:24.464963+08:0 0'}, {'tilingFileId': 10, 'fileName': '1683871488.4919744_in_4.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': '23tes t00', 'picAddr': None, 'tilingId': 10, 'status': 0, 'recvTime': '2023-05-12T06:17:48.166', 'insertTime': '2023-05-12T14:17:48.227717+0 8:00'}, {'tilingFileId': 9, 'fileName': '1683871488.4919744_in_4.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': '23t est00', 'picAddr': None, 'tilingId': 9, 'status': 0, 'recvTime': '2023-05-12T06:04:59.618', 'insertTime': '2023-05-12T14:04:59.677761+ 08:00'}, {'tilingFileId': 8, 'fileName': '1683871488.4919744_in_4.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': '23 test00', 'picAddr': None, 'tilingId': 8, 'status': 0, 'recvTime': '2023-05-12T06:04:12.691', 'insertTime': '2023-05-12T14:04:12.749022 +08:00'}, {'tilingFileId': 7, 'fileName': '1683700760.1423793_x.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': '23te st00', 'picAddr': None, 'tilingId': 7, 'status': 0, 'recvTime': '2023-05-12T05:54:25.690', 'insertTime': '2023-05-12T13:54:25.74873+08 :00'}, {'tilingFileId': 6, 'fileName': '1683700760.1423793_in_2021.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': 'S 200114f', 'picAddr': None, 'tilingId': 6, 'status': 0, 'recvTime': '2023-05-12T01:21:20.132', 'insertTime': '2023-05-12T09:21:20.19659 2+08:00'}, {'tilingFileId': 5, 'fileName': '1680252982.6082575_in_8.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': ' S200114f', 'picAddr': None, 'tilingId': 5, 'status': 0, 'recvTime': '2023-03-31T09:31:10.103', 'insertTime': '2023-03-31T17:31:10.1394 44+08:00'}, {'tilingFileId': 4, 'fileName': '1680174750.3315089_in_2.json', 'filePath': '/data/svom_data/tiling/svom', 'triggerName': 'S200114f', 'picAddr': None, 'tilingId': 4, 'status': 0, 'recvTime': '2023-03-30T11:13:04.491', 'insertTime': '2023-03-30T19:13:04.538 715+08:00'}]

What information needed by CSC BA Tools

BA shift in FSC

Thank you