

SK 쉐더스 SUMiTS IoT 플랫폼 연동 보고서

2023. 7. 3 (SW 개발실 고안나)

- Safewaredata 서버의 DB에 skdevice 테이블을 생성하고 SK쉐더스에서 판매한 제품 번호를 등록, 기기가 연결되어 MQTT Client에 연동 메시지가 뜨면 skdevice DB 조회하여 제품 번호가 있으면 HttpClient의 PostAsync 함수 사용하여 SK 쉐더스에게 Json 형태로 변환하여 메시지를 보내도록 함.

```
2023.06.30 13:32:31.066 테스트: 0=0:1:0.100.021,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:32:35.568 테스트: 0=0:1:0.100.022,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:32:40.062 테스트: 0=0:1:0.100.023,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:32:44.566 테스트: 0=0:1:0.100.024,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:32:49.063 테스트: 0=0:1:0.100.025,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:32:53.630 테스트: 0=0:1:0.100.026,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:32:58.141 테스트: 0=0:1:0.100.027,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:02.706 테스트: 0=0:1:0.100.028,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:07.052 테스트: 0=0:1:0.100.029,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:11.566 테스트: 0=0:1:0.100.030,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:16.068 테스트: 0=0:1:0.100.031,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:20.553 테스트: 0=0:1:0.100.032,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:25.062 테스트: 0=0:1:0.100.033,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:27.169 테스트: 0=2:1:1.100.034,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:33:29.628 테스트: 0=0:1:1.100.035,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:34:34.226 테스트: 0=0:1:0.100.000,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:34:36.722 테스트: 0=0:1:0.100.001,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:34:43.226 테스트: 0=0:1:0.100.002,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:34:47.731 테스트: 0=0:1:0.100.003,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:34:52.235 테스트: 0=0:1:0.100.004,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:34:56.744 테스트: 0=0:1:0.100.005,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:01.303 테스트: 0=0:1:0.100.006,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:05.727 테스트: 0=0:1:0.100.007,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:10.227 테스트: 0=0:1:0.100.008,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:14.727 테스트: 0=0:1:0.100.009,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:19.236 테스트: 0=0:1:0.100.010,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:23.719 테스트: 0=0:1:0.100.011,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:28.228 테스트: 0=0:1:0.100.012,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:32.730 테스트: 0=0:1:0.100.013,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:36.363 테스트: 0=2:1:1.100.014,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:37.298 테스트: 0=2:1:1.100.015,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985
2023.06.30 13:35:41.864 테스트: 0=0:1:1.100.016,ZZ12300001:sfuser:테스트:01066970375:37.4140,127.0985

"period": {
  "Id": "ZZ12300001",
  "Qos": 0,
  "Type": 1,
  "Fall": 0,
  "Bat": 100,
  "Count": 2,
  "Site": "테스트",
  "Phone": "01066970375",
  "Latitude": "37.4140",
  "Longitude": "127.0985",
  "EventTime": "2023.07.03 15:09:31.652"
}
```

- 기존 Safeware API를 수정하여 SK 쉐더스 측에서 판매한 제품 정보를 알 수 있도록 지정한 쿠키 값으로 우리 쪽 REST API (<http://info.safewaredata.co.kr/api/Devices>)를 조회하면 SK 쉐더스에서 판매한 제품 정보만 확인할 수 있도록 함. 개별 제품 데이터만 확인 할 경우엔 <http://info.safewaredata.co.kr/api/Devices/{deviceId}> 로 조회.

METHOD

SCHEME // HOST [":" PORT] [PATH ["?" QUERY]]

GET

http://info.safewaredata.co.kr/api/Devices

length: 42 byte(s)

Send

QUERY PARAMETERS

Add query parameter

HEADERS

Form

BODY

☒ Content-Type

:

application/json

x

☒ Cookie

:

Session-Id=jimxyhzm

x

Add header

Add authorization

XHR does not allow payloads for GET request.

Response

Cache Detected - Elapsed Time: 1.2s

200 OK

HEADERS ②

pretty ▼

Cache-Control: no-cache
Pragma: no-cache
Content-Type: application/json; charset=utf-8
Expires: -1
Server: Microsoft-IIS/10.0
X-AspNet-Ver... 4.0.30319
X-Powered-By: ASP.NET
Date: Mon, 03 Jul 2023 07:37:40 GMT
Content-Leng... 56 kilobytes

▶ COMPLETE REQUEST HEADERS

BODY ②

pretty ▼

```
[
  {
    DeviceId : "HS_001",
    Type : 1,
    Company : "휴앤서비스",
    Site : "휴앤서비스",
    DateInserted : "2023-06-29 오전 10:57:47"
  },
  {
    DeviceId : "BB_001",
    Type : 1,
    Company : "SK브로드밴드",
    Site : "브로드밴드",
    DateInserted : "2023-06-29 오전 10:58:12"
  }
]
```

□ SK 실더스 측에서 보내준 연동 결과

The screenshot shows a web application interface with a dark theme. At the top, there's a header with the text "SUMITS IoT - Chrome". Below the header, there's a main content area. On the left, there's a sidebar with the text "ZZ12300001" and "추락여부" (Fall Status) with a battery icon and "배터리 잔량" (Battery Level) showing "100%". In the center, there's a map showing a location in South Korea, with a red dot indicating a specific point. On the right, there's a table with columns: "사용자ID", "사용자명", "사용자전화", "관리자명", and "관리자전화". Below the map, there's a table with columns: "측정일시", "추락여부", "배터리잔량(%)", "현상명", "전화번호", "위도", and "경도". The table contains one row of data.

측정일시	추락여부	배터리잔량(%)	현상명	전화번호	위도	경도
2023-06-30 13:35:13	정상	100	테스트	01066970375	37.4140	127.0986

□ 기존에 SK 실더스에게 판매한 500개 제품 번호 전부 DB의 devices 테이블 및 skdevice 테이블에 등록 완료.