BIO-METRIC DEVICE INTEGRATION

- STARTEK (FM220U)
- MANTRA (MFS100)
- MORPHO (MSO1300 E3)

•

Device Information

```
getDeviceInformation(device: 'mantra' | 'morpho' | 'startek') {
    let deviceInfo = device == 'mantra' ? "/rd/info" : device == 'startek'
? '/rd/info' : '/getDeviceInfo';
    let URL = device == 'mantra' ? mantraURL : device == 'startek' ?

startekURL : morphoURL
    return this.http.request('DEVICEINFO', URL + deviceInfo, {
responseType: "text" }).pipe(
        switchMap(async xml => await this.parseXmlToJson(xml))
    );
}
```

Sample Response

Device Status

```
getDeviceStatus(device: 'mantra' | 'morpho' | 'startek'):
Observable<any> {
    let URL = device == 'mantra' ? mantraURL : device == 'startek' ?
startekURL : morphoURL
    return this.http.request('RDSERVICE', URL, { responseType:
"text" }).pipe(
    switchMap(async xml => await this.parseXmlToJson(xml))
    );
}
```

Sample Response:

```
"$": {
    "xmlns:xsi": "http://www.w3.org/2001/XMLSchema-instance",
    "xmlns:xsd": "http://www.w3.org/2001/XMLSchema",
    "dpId": "STARTEK.ACPL",
    "rdsId": "ACPL.WIN.001",
    "rdsVer": "1.0.4",
    "dc": "",
    "mi": "FM220U",
    "mc": "",
    "error": "Pl connect FM220"
}
```

Capture Fingerprint

```
captureFinger(device: 'mantra' | 'morpho' | 'startek', request:
any): Observable<any> {
    let URL = device == 'mantra' ? mantraURL : device == 'startek' ?
startekURL : morphoURL
```

```
let params = `<?xml version="1.0"?> <PidOptions

ver="${request?.pidOptVer}"> <Opts fCount="${request?.fCount}"

fType="${request?.fType}" iCount="${request?.iCount}"

pCount="${request?.pCount}" format="${request?.format}"

pidVer="${request?.pidVer}" timeout="${request?.timeout}"

posh="${request?.posh}" env="${request?.env}" /> <CustOpts> <Param

name="mantrakey" value="undefined" /> </CustOpts> </PidOptions>`

    return this.http.request('CAPTURE', URL + "/rd/capture", { body:

params, responseType: "text" }).pipe(

    switchMap(async xml => await this.parseXmlToJson(xml))

);
}
```

XML Parser

```
async parseXmlToJson(xml: any) {
  return await xml2js
    .parseStringPromise(xml, { explicitArray: false })
    .then(response => response);
}
```

Dependencies

```
    xml2js: ^0.6.2
    @types/xml2js: ^0.4.12
```

Localhost URL :

```
const mantraURL = "http://localhost:11100"
const morphoURL = 'http://127.0.0.1:11101'
const startekURL = 'http://localhost:11100'
```

```
let config = {
    pidOptVer: '1.0',
    fCount: '1',
    fType: '0',
    iCount: '0',
    pCount: '0',
    format: '0',
    pidVer: '2.0',
    timeout: '10000',
    posh: 'UNKNOWN',
    env: 'P'
}
```