SWC SKILLED WOUND CARE

EHR OAuth Based API

INTRODUCTION

In this documentation we will list all the steps required to access protected health information based on the documentation of an open API.

Note: Patient data used in this document is test data and doesn't contain any PHI.

Product Name and Version:	Treasure EHR 5.0.1

Client Configurations

- IMPORTANT: Local customer security policies must be in place to prevent unauthorized monitoring or eavesdropping of connections to the server.
- The server is accessed by clients through an https connection.
- Only SSL/TLS connections (TLS 1.0 or higher) are accepted. All plaintext connections will be refused.
- Please limit your connection frequency to a value appropriate for your use case. Connection attempts which are more frequent than permitted by the bandwidth allocation for the data resource are not allowed.
- Client authentication can be performed using a username and strong password. A healthcare organization has to reuse existing patient portal credentials for this purpose, in which case the authenticated username map to a unique patient portal user on the resource holder's side.
- As a part of policy patient portal credentials will be provided to patients during encounter.
- Client software must be capable of making HTTPS RESTful requests
- Apart from above configurations there are no other softwares required on the client side.

REFERENCE

Validate user and get access token

POST

This api is used to validate the user and in return will give an access token along with other parameters. This access token will be used for all future API calls.

Input here username and password in the body part.

The value for input parameter 'grant_type' will remain fixed as 'password'. Please do not change this.

URL: `POST` https://52.53.108.214/swcweb/Authenticate

Request (POST)

HEADERS

```
Content-Type:application/x-www-form-urlencoded
```

BODY

```
username=super&password=super123&grant_type=password
```

Response

200

HEADERS

```
Content-Type:application/json
```

BODY


```
{
  "access_token": "oB2BfyWtbnA_7wgoRfM6qgXmB74oo8SRxGazgGGrmcddf65207WkigD-
1PqIKXsZuIIYDqP4Vqm0VpAWGMzmqeTu4h3FrzrZfZH5v5ID0qn8kAZGYUfxn2uJ_Ramt6PNEgm_6FRKz1Y4Nl8XajAc0RwFQkoeYJKfpQ
sD-RzacghVo1370L5MsLE0p7Dw6SkHwDwQgG2Q8wUhpb79a7LQhpU4XZ1OP-xXSiS7gBR1T28",
  "token_type": "bearer",
  "expires_in": 599
}
```


Search Patient

POST

This api is used to search for a patient. In return it will give a list of patients with its basic demographics.

The access token received in the previous api call should be used here. As can be seen in the headers section here, one need to pass the access token in the header.So search patient is mandatory to get patient id because patient id and access token will be required for all subsequent calls to get patient data.

Input here is in json format as can be seen in the body section. Observe carefully here, that the entire json input parameter is sent with blank name before '='.

URL: `POST` https://52.53.108.214/swcweb/api/SearchPatient

Request (POST)

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HEADERS

```
Content-Type:application/x-www-form-urlencoded
Authorization:Bearer access_token
```

BODY

```
        ={
        "firstname": "bob",
        "lastname": "nice",
        "dob": "04/26/2017",
        "gender": "M"
        }
```

Response

200

HEADERS

```
Content-Type:application/json
```

BODY


```
[
  {
    "MRN": "123456",
    "Id": "1",
    "FirstName": "Bob",
    "LastName": "New",
    "DoB": "20040404",
    "Gender": "M"
  },
  {
    "MRN": "787812",
    "Id": "2",
    "FirstName": "Bob",
    "LastName": "Fresh",
    "DoB": "20090404",
    "Gender": "M"
  }
]
```

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Get Patient Encounters

POST

This api is used to get encounters for a patient. In return it will give a list of encounters.

The access token received in the previous api call should be used here. As can be seen in the headers section here, one need to pass the access token in the header.

Input here is in json format as can be seen in the body section. Observe carefully here, that the entire json input parameter is sent with blank name before '='.

Returnformat will be blank always in this call.
Ccdafromdatetime and ccdatodatetime parameters will be used to filter encounters based on encounter date.

Get Patient Encounters / POST

```
POST https://52.53.108.214/swcweb/api/GetPatientEncounters
```

Request

POST https://52.53.108.214/swcweb/api/GetPatientEncounters

Content-Type:application/x-www-form-urlencoded
Authorization:Bearer access_token

Request Body

={"patientid": "1","ccdafromdatetime": "06/22/2010 8:00 AM", "ccdatodatetime": "06/22/2010 8:00 AM", "returnformat": ""}

```
//fromdate and todate will be used to filter the encounters based on encounter date
```

Response

200

HEADERS

```
Content-Type:application/json
```

BODY


```
[
{"PatientId":"4","EncounterId":"6","VisitBeginDateTime":"2015-06-22","VisitEndDateTime":"6/22/2015 12:00:00 AM","ProviderFullName":null},
{"PatientId":"4","EncounterId":"26","VisitBeginDateTime":"2019-09-05","VisitEndDateTime":"9/5/2019 8:59:04 AM","ProviderFullName":null}
]
```

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Fetch Patient Data

POST

This api is used to get data for a patient.

The access token need to be sent in this API call as well. As can be seen in the headers section here, one need to pass the access token in the header.

The other input here is in JSON format as can be seen in the body section. For the section that needs to be brought are sent with a 'true' value. Date filter is also sent as an input. CCDA will be fetched for the patient id and encounter id that is sent in the input. Observe carefully here, that the entire JSON input parameter is sent with blank name before '='.

The response here will be a patient data in XML format. Please send "returnformat": "xml" always.

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URL: **POST** https://52.53.108.214/swcweb/api/GetPatientData

Request (POST)

HEADERS

```
Content-Type:application/x-www-form-urlencoded
Authorization:Bearer access_token
```

BODY

```
={
"patientid": "1",
"encounterid": "6",
"medications": "true",
"medicationallergies": "true",
"labresults": "true",
"vitalsigns": "true",
"procedures": "true",
"careteammembers": "true",
"immunizations": "true",
"udiforpatientdevices": "true",
"planoftreatment": "true",
"goals": "true",
"healthconcerns": "true",
"labtest": "true",
"assessment": "true",
"problems": "true",
"patientname": "true",
"patientgender": "true",
"patientdob": "true",
"patientrace": "true",
"patientethnicity": "true",
"patientpreferredlanguage": "true",
"smokingstatus": "true",
"ccdafromdate": "", //fromdate and todate can be blank as data will be for the encounerid
sent
"ccdatodate": "",
"returnformat": "xml"
}
```

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Response

200

HEADERS

Content-Type:application/xml

BODY


```
"<?xml version=\"1.0\" encoding=\"utf-8\"?>\r\n<ClinicalDocument xmlns=\"urn:hl7-org:v3\"
xmlns:sdtc=\"urn:hl7-org:sdtc\" xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\"
xmlns:gsd=\"http://aurora.regenstrief.org/GenericXMLSchema\"
xmlns:sch=\"http://www.ascc.net/xml/schematron\" xmlns:xlink=\"http://www.w3.org/TR/WD-xlink\"
xmlns:mif=\"urn:hl7-org:v3/mif\">\r\n  <realmCode code=\"US\" />\r\n  <typeId
root=\"2.16.840.1.113883.1.3\" extension=\"POCD HD000040\" />\r\n  <templateId
root=\"2.16.840.1.113883.10.20.22.1.1\" extension=\"2015-08-01\" />\r\n  <templateId
root=\"2.16.840.1.113883.10.20.22.1.1\" />\r\n  <templateId root=\"2.16.840.1.113883.10.20.22.1.2\"
extension=\"2015-08-01\" />\r\n  <templateId root=\"2.16.840.1.113883.10.20.22.1.2\" />\r\n  <id
root=\"78A150ED-B890-49dc-B716-5EC0027B3982\" extension=\"this is documentid\"
assigningAuthorityName=\"Test EHR\" />\r\n  <code codeSystem=\"2.16.840.1.113883.6.1\"
codeSystemName=\"LOINC\" code=\"34133-9\" displayName=\"Summarization of episode note\" />\r\n
<title>Summarization of episode note</title>\r\n  <effectiveTime value=\"2013101012000\" />\r\n
<confidentialityCode code=\"N\" codeSystem=\"2.16.840.1.113883.5.25\" />\r\n  <languageCode code=\"en-US\"
/>\r\n  <recordTarget>\r\n    <patientRole>\r\n      <id root=\"78A150ED-B890-49dc-B716-5EC0027B3982\"
extension=\"123456\" assigningAuthorityName=\"Test EHR\" />\r\n      <addr use=\"HP\">\r\n
<streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n        <city>Beaverton</city>\r\n
<state>OR</state>\r\n        <postalCode>97006</postalCode>\r\n        <country>US</country>\r\n
</addr>\r\n      <telecom use=\"HP\" value=\"555-777-1234\" />\r\n      <telecom use=\"MC\" value=\"555-
723-1544\" />\r\n      <patient>\r\n        <name>\r\n          <given>Alice</given>\r\n
<given>Jones</given>\r\n          <family>Newman</family>\r\n        </name>\r\n        <name>\r\n
<given qualifier=\"BR\">Alicia</given>\r\n          <family>Newman</family>\r\n        </name>\r\n
<administrativeGenderCode codeSystem=\"2.16.840.1.113883.5.1\" code=\"F\" displayName=\"Female\" />\r\n
<birthTime value=\"19700501\" />\r\n        <raceCode codeSystem=\"2.16.840.1.113883.6.238\"
codeSystemName=\"CDC - Race and Ethnicity\" code=\"2106-3\" displayName=\"White\" />\r\n
<sdtc:raceCode codeSystem=\"2.16.840.1.113883.6.238\" codeSystemName=\"CDC - Race and Ethnicity\"
code=\"2108-9\" displayName=\"White Mountain Apache\" />\r\n        <ethnicGroupCode
codeSystem=\"2.16.840.1.113883.6.238\" codeSystemName=\"CDC - Race and Ethnicity\" code=\"2186-5\"
displayName=\"Not Hispanic or Latino\" />\r\n        <languageCommunication>\r\n          <languageCode
code=\"en-US\" />\r\n        </languageCommunication>\r\n      </patient>\r\n
<providerOrganization>\r\n        <id root=\"1.1.1.1.1.1.1.1.4\" />\r\n        <name>Get Well
Clinic</name>\r\n        <telecom use=\"WP\" value=\"123-234-4444\" />\r\n        <addr use=\"WP\">\r\n
<streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n          <city>Beaverton</city>\r\n
<state>OR</state>\r\n          <postalCode>97006</postalCode>\r\n          <country>US</country>\r\n
</addr>\r\n      </providerOrganization>\r\n    </patientRole>\r\n  </recordTarget>\r\n  <author>\r\n
<time value=\"2015102212000\" />\r\n    <assignedAuthor>\r\n      <id root=\"2.16.840.1.113883.4.6\"
extension=\"authorid\" />\r\n      <code code=\"208D00000X \" codeSystem=\"2.16.840.1.113883.6.101\"
codeSystemName=\"NUCC\" displayName=\"Get Well Clinic\" />\r\n      <addr use=\"WP\">\r\n
<streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n        <city>Beaverton</city>\r\n
<state>OR</state>\r\n        <postalCode>97006</postalCode>\r\n        <country>US</country>\r\n
</addr>\r\n      <telecom use=\"WP\" value=\"123-234-4444\" />\r\n      <assignedPerson>\r\n
<name>\r\n          <prefix>Dr</prefix>\r\n          <given>Albert</given>\r\n
<family>Davis</family>\r\n        </name>\r\n      </assignedPerson>\r\n
<representedOrganization>\r\n        <id root=\"2.16.840.1.113883.3.441.1.50\" extension=\"300011\" />\r\n
<name>Get Well Clinic</name>\r\n        <telecom use=\"WP\" value=\"123-234-4444\" />\r\n        <addr
use=\"WP\">\r\n          <streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n
<city>Beaverton</city>\r\n          <state>OR</state>\r\n          <postalCode>97006</postalCode>\r\n
<country>US</country>\r\n        </addr>\r\n      </representedOrganization>\r\n    </assignedAuthor>\r\n
</author>\r\n  <dataEnterer>\r\n    <assignedEntity>\r\n      <id root=\"2.16.840.1.113883.4.6\"
extension=\"123456\" />\r\n      <addr use=\"WP\">\r\n        <streetAddressLine>1357 Amber
Drive</streetAddressLine>\r\n        <city>Beaverton</city>\r\n        <state>OR</state>\r\n
<postalCode>97006</postalCode>\r\n        <country>US</country>\r\n      </addr>\r\n      <telecom
use=\"WP\" value=\"123-234-4444\" />\r\n      <assignedPerson>\r\n        <name>\r\n
<given>Tracy</given>\r\n          <family>Davis</family>\r\n        </name>\r\n      </assignedPerson>\r\n
</assignedEntity>\r\n  </dataEnterer>\r\n  <custodian>\r\n    <assignedCustodian>\r\n
<representedCustodianOrganization>\r\n        <id extension=\"1234567\" root=\"2.16.840.1.113883.4.6\"
/>\r\n        <name>Get Well Clinic</name>\r\n        <telecom use=\"WP\" value=\"123-234-4444\" />\r\n
<addr use=\"WP\">\r\n          <streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n
<city>Beaverton</city>\r\n          <state>OR</state>\r\n          <postalCode>97006</postalCode>\r\n
<country>US</country>\r\n        </addr>\r\n      </representedCustodianOrganization>\r\n
</assignedCustodian>\r\n  </custodian>\r\n  <documentationOf typeCode=\"DOC\">\r\n    <serviceEvent
```

```
classCode=\"PCPR\">\r\n      <effectiveTime>\r\n        <low value=\"19700501\" />\r\n        <high
value=\"2013101012000\" />\r\n      </effectiveTime>\r\n      <performer typeCode=\"PRF\">\r\n
<assignedEntity>\r\n          <id root=\"78A150ED-B890-49dc-B716-5EC0027B3982\" extension=\"davisid\"
assigningAuthorityName=\"Test EHR\" />\r\n          <code code=\"200000000X\" displayName=\"General
Physicians\" codeSystemName=\"Provider Codes\" codeSystem=\"2.16.840.1.113883.6.101\" />\r\n
<addr>\r\n            <streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n
<city>Beaverton</city>\r\n            <state>OR</state>\r\n            <postalCode>97006</postalCode>\r\n
<country>US</country>\r\n          </addr>\r\n          <telecom use=\"WP\" value=\"123-234-4444\" />\r\n
<assignedPerson>\r\n            <name>\r\n              <suffix>M.D.</suffix>\r\n
<prefix>Dr.</prefix>\r\n              <given>Albert</given>\r\n              <family>Davis</family>\r\n
</name>\r\n          </assignedPerson>\r\n          <representedOrganization>\r\n            <id
root=\"2.16.840.1.113883.19.5.9999.1393\" />\r\n            <name>Get Well Clinic</name>\r\n
<telecom use=\"WP\" value=\"123-234-4444\" />\r\n            <addr>\r\n
<streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n              <city>Beaverton</city>\r\n
<state>OR</state>\r\n              <postalCode>97006</postalCode>\r\n
<country>US</country>\r\n            </addr>\r\n          </representedOrganization>\r\n
</assignedEntity>\r\n      </performer>\r\n      <performer typeCode=\"PRF\">\r\n
<assignedEntity>\r\n          <id root=\"78A150ED-B890-49dc-B716-5EC0027B3982\" extension=\"nurseid\"
assigningAuthorityName=\"Test EHR\" />\r\n          <code code=\"200000000X\" displayName=\"General
Physicians\" codeSystemName=\"Provider Codes\" codeSystem=\"2.16.840.1.113883.6.101\" />\r\n
<addr>\r\n            <streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n
<city>Beaverton</city>\r\n            <state>OR</state>\r\n            <postalCode>97006</postalCode>\r\n
<country>US</country>\r\n          </addr>\r\n          <telecom use=\"WP\" value=\"123-234-4444\" />\r\n
<assignedPerson>\r\n            <name>\r\n              <suffix>RN.</suffix>\r\n
<prefix>Nurse.</prefix>\r\n              <given>Tracy</given>\r\n              <family>Davis</family>\r\n
</name>\r\n          </assignedPerson>\r\n          <representedOrganization>\r\n            <id
root=\"2.16.840.1.113883.19.5.9999.1393\" />\r\n            <name>Get Well Clinic</name>\r\n
<telecom use=\"WP\" value=\"123-234-4444\" />\r\n            <addr>\r\n
<streetAddressLine>1357 Amber Drive</streetAddressLine>\r\n              <city>Beaverton</city>\r\n
<state>OR</state>\r\n              <postalCode>97006</postalCode>\r\n
<country>US</country>\r\n            </addr>\r\n          </representedOrganization>\r\n
</assignedEntity>\r\n      </performer>\r\n    </serviceEvent>\r\n  </documentationOf>\r\n
<componentOf>\r\n    <encompassingEncounter>\r\n      <id root=\"78A150ED-B890-49dc-B716-5EC0027B3982\"
extension=\"visit123\" assigningAuthorityName=\"Test EHR\" />\r\n      <code code=\"99201\"
displayName=\"Routine Follow-up Visit\" />\r\n      <effectiveTime>\r\n        <low value=\"201208061230\"
/>\r\n        <high value=\"201208061200\" />\r\n      </effectiveTime>\r\n      <encounterParticipant
typeCode=\"ATND\">\r\n        <assignedEntity>\r\n          <id root=\"78A150ED-B890-49dc-B716-
5EC0027B3982\" extension=\"davisid\" assigningAuthorityName=\"Test EHR\" />\r\n
<assignedPerson>\r\n            <name>\r\n              <suffix>M.D.</suffix>\r\n
<prefix>Dr.</prefix>\r\n              <given>Albert</given>\r\n              <family>Davis</family>\r\n
</name>\r\n          </assignedPerson>\r\n        </assignedEntity>\r\n      </encounterParticipant>\r\n
<encounterParticipant typeCode=\"ATND\">\r\n        <assignedEntity>\r\n          <id root=\"78A150ED-
B890-49dc-B716-5EC0027B3982\" extension=\"nurseid\" assigningAuthorityName=\"Test EHR\" />\r\n
<assignedPerson>\r\n            <name>\r\n              <suffix>RN.</suffix>\r\n
<prefix>Nurse.</prefix>\r\n              <given>Tracy</given>\r\n              <family>Davis</family>\r\n
</name>\r\n          </assignedPerson>\r\n        </assignedEntity>\r\n      </encounterParticipant>\r\n
<location>\r\n        <healthCareFacility>\r\n          <id root=\"78A150ED-B890-49dc-B716-5EC0027B3982\"
extension=\"78A150ED-B890-49dc-B716-5EC0027B3982\" assigningAuthorityName=\"Test EHR\" />\r\n
<code code=\"261QU0200X\" codeSystem=\"2.16.840.1.113883.6.101\" codeSystemName=\"NUCC\"
displayName=\"Urgent Care\" />\r\n          <location>\r\n            <name>Get well clinic123</name>\r\n
<addr>\r\n              <streetAddressLine>2472, Rocky place</streetAddressLine>\r\n
<city>Beaverton</city>\r\n              <state>OR</state>\r\n
<postalCode>97007</postalCode>\r\n              <country>US</country>\r\n            </addr>\r\n
</location>\r\n        </healthCareFacility>\r\n      </location>\r\n    </encompassingEncounter>\r\n
</componentOf>\r\n  <component>\r\n    <structuredBody>\r\n      <component>\r\n        <section>\r\n
<templateId root=\"2.16.840.1.113883.10.20.22.2.13\" />\r\n          <code code=\"46239-0\"
codeSystem=\"2.16.840.1.113883.6.1\" codeSystemName=\"LOINC\" displayName=\"CHIEF COMPLAINT AND REASON FOR
VISIT\" />\r\n          <title>CHIEF COMPLAINT</title>\r\n          <text>\r\n            <table
border=\"1\" width=\"100%\">\r\n              <thead>\r\n                <tr>\r\n
<th>Reason for Visit/Chief Complaint</th>\r\n              </tr>\r\n            </thead>\r\n
<tbody>\r\n              <tr>\r\n                <td>\r\n                  <list>\r\n
<item>Mild Fever, 2 days Chills, 2 days Cough productive of greenish sputum, 2 days</item>\r\n
</list>\r\n                </td>\r\n              </tr>\r\n            </tbody>\r\n
</table>\r\n          </text>\r\n        </section>\r\n      </component>\r\n      <component>\r\n
<section>\r\n          <templateId root=\"2.16.840.1.113883.10.20.22.2.6.1\" extension=\"2015-08-01\"
/>\r\n          <templateId root=\"2.16.840.1.113883.10.20.22.2.6.1\" />\r\n          <code code=\"48765-
2\" codeSystem=\"2.16.840.1.113883.6.1\" />\r\n          <title>ALLERGIES, ADVERSE REACTIONS</title>\r\n
<text>Data in this section may be excluded or not available.</text>\r\n          <entry>\r\n
<act classCode=\"ACT\" moodCode=\"EVN\">\r\n            <templateId
root=\"2.16.840.1.113883.10.20.22.4.30\" />\r\n            <id
```

```
root=\"2.16.840.1.113883.3.441.1.50.300011.51.26562.57\" extension=\"1307\" />\r\n              <code
code=\"48765-2\" displayName=\"Allergies, adverse reactions, alerts\" codeSystem=\"2.16.840.1.113883.6.1\"
codeSystemName=\"LOINC\" />\r\n              <statusCode code=\"active\" />\r\n
<effectiveTime>\r\n              <low nullFlavor=\"UNK\" />\r\n              </effectiveTime>\r\n
<entryRelationship typeCode=\"SUBJ\" inversionInd=\"true\">\r\n              <observation
classCode=\"OBS\" moodCode=\"EVN\" negationInd=\"false\">\r\n              <templateId
root=\"2.16.840.1.113883.10.20.22.4.7\" />\r\n              <id root=\"2.16.840.1.113883.3.441\"
extension=\"03d2b31b04fd4042a24423b657750245\" />\r\n              <code code=\"ASSERTION\"
codeSystem=\"2.16.840.1.113883.5.4\" />\r\n              <statusCode code=\"completed\" />\r\n
<effectiveTime>\r\n              <low nullFlavor=\"UNK\" />\r\n
</effectiveTime>\r\n              <value xsi:type=\"CD\" code=\"419199007\"
codeSystem=\"2.16.840.1.113883.6.96\" codeSystemName=\"SNOMED CT\" displayName=\"Allergy to substance
(disorder)\" />\r\n              <entryRelationship typeCode=\"MFST\" inversionInd=\"true\">\r\n
<observation classCode=\"OBS\" moodCode=\"EVN\" nullFlavor=\"NI\">\r\n              <templateId
root=\"2.16.840.1.113883.10.20.22.4.7\" />\r\n              <id root=\"2.16.840.1.113883.3.441\"
extension=\"121213121312\" />\r\n              <code code=\"ASSERTION\"
codeSystem=\"2.16.840.1.113883.5.4\" />\r\n              <statusCode code=\"completed\" />\r\n
<effectiveTime>\r\n              <low nullFlavor=\"UNK\" />\r\n
</effectiveTime>\r\n              <value xsi:type=\"CD\" code=\"419199007\"
codeSystem=\"2.16.840.1.113883.6.96\" displayName=\"Allergy to Substance\" />\r\n
</observation>\r\n              </entryRelationship>\r\n              </observation>\r\n
</entryRelationship>\r\n              </act>\r\n              </entry>\r\n              </section>\r\n
</component>\r\n      <component>\r\n        <section>\r\n          <templateId
root=\"2.16.840.1.113883.10.20.22.2.2.1\" />\r\n          <code code=\"11369-6\"
codeSystem=\"2.16.840.1.113883.6.1\" codeSystemName=\"LOINC\" displayName=\"History of immunizations\"
/>\r\n          <title>IMMUNIZATIONS</title>\r\n          <text>\r\n            <table border=\"1\"
width=\"100%\">\r\n              <thead>\r\n                <tr>\r\n                <th>Vaccine</th>\r\n
<th>Date</th>\r\n                <th>Status</th>\r\n                <th>Lot number</th>\r\n
</tr>\r\n              </thead>\r\n              <tbody>\r\n                <tr>\r\n
<td>Influenza Virus Vaccine(CVX: 88)\r\n                </td>\r\n                <td>May 10, 2014
</td>\r\n                <td>completed</td>\r\n                <td>1</td>\r\n                </tr>\r\n
<tr>\r\n                <td>influenza, intradermal, quadrivalent, preservative free(CVX: 166)\r\n
</td>\r\n                <td>June 22, 2015 </td>\r\n                <td>Cancelled</td>\r\n
<td>1</td>\r\n                </tr>\r\n              <tr>\r\n                <td>Tetanus and
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SWC SKILLED WOUND CARE

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( kg )\r\n                  </td>\r\n                  <td>June 22, 2015 </td>\r\n
</tr>\r\n                <tr>\r\n                  <td>BP Systolic</td>\r\n                  <td>145 \r\n
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</tr>\r\n                <tr>\r\n                  <td>BMI (Body Mass Index)</td>\r\n
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<td>November 1, 2011 </td>\r\n                </tr>\r\n                <tr>\r\n                  <td>O2 %
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</effectiveTime>\r\n              <value xsi:type=\"CD\" displayName=\"Amnesia\" />\r\n
</observation>\r\n          </entry>\r\n        </section>\r\n      </component>\r\n      <component>\r\n
<section>\r\n          <templateId root=\"1.3.6.1.4.1.19376.1.5.3.1.3.1\" extension=\"2014-06-09\" />\r\n
<templateId root=\"1.3.6.1.4.1.19376.1.5.3.1.3.1\" />\r\n          <code code=\"42349-1\"
codeSystem=\"2.16.840.1.113883.6.1\" codeSystemName=\"LOINC\" displayName=\"REFERRALS\" />\r\n
<title>REFERRALS</title>\r\n          <text>\r\n            <paragraph>Pulmonary function tests<br />\r\n
Details: Ms Alice Newman is being referred to Community Health Hospitals Inpatient facility because of the
high fever noticed and suspected Anemia<br />\r\n          Scheduled Appointment Date:   August 15, 2012
<br /></paragraph>\r\n          </text>\r\n        </section>\r\n      </component>\r\n
</structuredBody>\r\n  </component>\r\n</ClinicalDocument>"
```

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Fetch Patient Data (Specific Category)

POST

This api is used to get data for a patient.The access token need to be sent in this API call as well. As can be seen in the headers section here, one need to pass the access token in the header.

The other input here is in JSON format as can be seen in the body section. For the section that need to be brought are sent with a 'true' value. Date filter is also sent as an input. The date filter will be applicable only at encounter level. Data will be fetched in XML format for the patient id and encounter id that is sent in the input and only for the section requested. Observe carefully here, that the entire JSON input parameter is sent with blank name before '='.

The response here will be a only patient data sections in XML format. The XML format will be similar to CCDA but there will not be extra data apart from requested segment.

CCDA header with only specific sections requested or snippet of the XML containing only the specific section(s) requested will be returned.

URL: `POST` https://52.53.108.214/swcweb/api/GetPatientData

Request (POST)

HEADERS

```
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer access_token
```

BODY

```
={
"patientid": "1",
 "encounterid": "4",
"problems": "true",
"patientname": "true",
"patientgender": "true",
"patientdob": "true",
"patientrace": "true",
"patientethnicity": "true",
"patientpreferredlanguage": "true",
"ccdafromdate": "", //both ccdafromdate and ccdatodate will be blank as data is filtered already and encounter level. Data will be fetched for encountered sent in input parameter always
"ccdatodate": "",
"returnformat": "xml" //This will be always xml
}
```

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Response

200

HEADERS

```
Content-Type:application/xml
```

BODY


```
<?xml version="1.0"?>
- <SelectedComponents>
    <templateId xmlns="urn:hl7-org:v3" extension="2015-08-01" root="2.16.840.1.113883.10.20.22.1.1"/>
    <templateId xmlns="urn:hl7-org:v3" root="2.16.840.1.113883.10.20.22.1.1"/>
    <templateId xmlns="urn:hl7-org:v3" extension="2015-08-01" root="2.16.840.1.113883.10.20.22.1.2"/>
    <templateId xmlns="urn:hl7-org:v3" root="2.16.840.1.113883.10.20.22.1.2"/>
    <id xmlns="urn:hl7-org:v3" extension="c3575e8b-0465-4279-b5a7-fb20bcb5cfa3" root="d8fd9a91-80fe-4abd-97e5-76ecb7d779e2" assigningAuthorityName="Integra Cloud"/>
    <code xmlns="urn:hl7-org:v3" displayName="Summarization of episode note" code="34133-9" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"/>
    <effectiveTime xmlns="urn:hl7-org:v3" value="20180416100707"/>
    <languageCode xmlns="urn:hl7-org:v3" code="en-US"/>
  - <recordTarget xmlns="urn:hl7-org:v3">
      - <patientRole>
          <id extension="97007B1BA6" root="d8fd9a91-80fe-4abd-97e5-76ecb7d779e2" assigningAuthorityName="Integra Cloud"/>
        + <addr use="HP">
          <telecom value="5557231544" use="HP"/>
          <telecom value="5557771234" use="MC"/>
        - <patient>
            - <name>
                <given>Alice</given>
                <given>Jones</given>
                <family>Newman</family>
              </name>
            + <name>
              <administrativeGenderCode displayName="Female" code="F" codeSystem="2.16.840.1.113883.5.1"/>
              <birthTime value="19700501"/>
              <raceCode displayName="White" code="2106-3" codeSystemName="CDC - Race and Ethnicity" codeSystem="2.16.840.1.113883.6.238"/>
              <sdtc:raceCode displayName="White European" code="2108-9" codeSystemName="CDC - Race and Ethnicity" codeSystem="2.16.840.1.113883.6.238" xmlns:sdtc="urn:hl7-org:sdtc"/>
              <ethnicGroupCode displayName="Not Hispanic or Latino" code="2186-5" codeSystemName="CDC - Race and Ethnicity" codeSystem="2.16.840.1.113883.6.238"/>
            - <languageCommunication>
                <languageCode code="en"/>
              </languageCommunication>
          </patient>
        + <providerOrganization>
        </patientRole>
    </recordTarget>
  - <component xmlns="urn:hl7-org:v3">
      - <structuredBody>
          - <component>
              - <section>
                  <templateId extension="2015-08-01" root="2.16.840.1.113883.10.20.22.2.5.1"/>
                  <templateId root="2.16.840.1.113883.10.20.22.2.5.1"/>
                  <code displayName="PROBLEM LIST" code="11450-4" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"/>
                  <title>PROBLEMS</title>
                - <text>
                  - <table width="100%" border="1">
                      - <thead>
                          - <tr>
                              <th>Problem</th>
                              <th>Effective Dates</th>
                              <th>Problem Status</th>
                            </tr>
                        </thead>
                      - <tbody>
                          - <tr>
                              <td> Essential hypertension (disorder) [Code: 59621000] </td>
                              <td>October 5, 2011 </td>
                              <td>Active</td>
                            </tr>
                        </tbody>
                    </table>
                </text>
                - <entry typeCode="DRIV">
                  - <act moodCode="EVN" classCode="ACT">
                      <templateId extension="2015-08-01" root="2.16.840.1.113883.10.20.22.4.3"/>
                      <templateId root="2.16.840.1.113883.10.20.22.4.3"/>
                      <id extension="492f8a10-c563-4cc1-b31f-a89c00a56740" root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7"/>
                      <code displayName="Concern" code="CONC" codeSystem="2.16.840.1.113883.5.6"/>
                      <statusCode code="active"/>
                    - <effectiveTime>
                        <low value="20111005"/>
                        <high nullFlavor="UNK"/>
                      </effectiveTime>
                    - <entryRelationship typeCode="SUBJ">
                      - <observation moodCode="EVN" classCode="OBS">
                          <templateId extension="2015-08-01" root="2.16.840.1.113883.10.20.22.4.4"/>
                          <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
                          <id extension="492f8a10-c563-4cc1-b31f-a89c00a56740" root="ab1791b0-5c71-11db-b0de-0800200c9a66"/>
                        - <code displayName="Condition" code="64572001" codeSystemName="SNOMED-CT" codeSystem="2.16.840.1.113883.6.96">
                            <translation displayName="Condition" code="75323-6" codeSystemName="LOINC" codeSystem="2.16.840.1.113883.6.1"/>
                          </code>
                          <statusCode code="completed"/>
                        - <effectiveTime>
                            <low value="20111005"/>
                            <high nullFlavor="UNK"/>
                          </effectiveTime>
                          <value displayName="Essential hypertension (disorder)" code="59621000" codeSystem="2.16.840.1.113883.6.96" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="CD"/>
                        </observation>
                    </entryRelationship>
                  </act>
                </entry>
              </section>
          </component>
      </structuredBody>
    </component>
  </SelectedComponents>
```

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Additional information for the Data Elements used to represent each data category can be found with search parameter are mentioned below

CCDA Element	Parameter	Possible Value
Patient Name	"patientname": "true"	true / false
Sex	"patientgender": "true"	true / false
Date of Birth	"patientdob": "true"	true / false
Race	"patientrace": "true"	true / false
Ethnicity	"patientethnicity": "true"	true / false
Preferred Language	"patientpreferredlanguage": "true"	true / false
Smoking Status	"smokingstatus": "true"	true / false
Problems	"problems": "true"	true / false
Medications	"medications": "true"	true / false
Medication Allergies	"medicationallergies": "true"	true / false
Laboratory Tests	"labtest": "true"	true / false
Laboratory Values Results	"labresults": "true"	true / false
Vital Signs	"vitalsigns": "true"	true / false
Procedures	"procedures": "true"	true / false
Care Team Members	"careteammembers": "true"	true / false
Immunizations	"immunizations": "true"	true / false
Unique Device Identifiers (procedures)	"udiforpatientdevices": "true"	true / false
Assessment and Plan	"assessment": "true"	true / false
Goals	"goals": "true"	true / false
Health Concerns	"healthconcerns": "true"	true / false
returnformat	" returnformat": "xml"	For now it will be always XML.
CCDA From date	"ccdafromdate": ""	This will be always blank as data is filtered at encounter level itself and returned data will be for given encounter
CCDA To date	"ccdatodate": ""	This will be always blank as data is filtered at encounter level itself and returned data will be for given encounter

All values are options, if you donot give any paratemer it will return complete record.

Error handling

API Server handles the Errors & have valid Exception methods that provides a HTTP status code and a Meaningful messages in JSON format.

Unauthorized HTTP response Code - 401

- If the access token used in the request is invalid, expired, or the user has not been authorized to access the requested Resource, the API will return a 401 Unauthorized HTTP response.

Forbidden Request - HTTP Status Code - 403

- A user trying to access another users profile or data will be returned with a Forbidden Request Error.
- JSON response is returned from the Server for the forbidden request

Bad Request - HTTP Status Code - 400

- An invalid or a bad URL request to the server is returned with a HTTP - 400 response and message
- JSON response is returned from the Server for the forbidden request

Response OK - HTTP Status Code - 200

- An valid request to the server is returned with a HTTP - 200 response and message
- JSON response is returned from the Server for the forbidden request

Terms of Use

https://52.53.108.214/SWCWeb/Terms.pdf