FHIR API DOCUMENTATION

Compulink FHIR

Compulink Advantage 12

1. Introduction

This guide is written for third party developers, including patients, who are developing software applications for accessing Protected Health Information (PHI) based on this public API documentation which allows applications to query secured health information. Applications wishing to publish such a public-facing API should have their Health IT vendor register as a developer integrator of services at https://www.compulinkadvantage.com/apipartner/ .

2. Registration

a. Application Access Requests

The API is a read-only RESTful HL7 FHIR® R4 API and follows the syntax described at https://hl7.org/fhir/R4/http.html.
All RESTful data access requests will be in the following format, in which the [base] URL will need to be obtained from the Data Holder, either directly or via directory information:

GET EXAMPLE

```
GET base]/[resource-specific parameters]
```

FHIR Bulk Data Access Group export is also supported as described in the Bulk Data Access IG.

b. Connecting to the server

The server is accessed by clients through an HTTPS connection.

Important: Only TLS 1.2 connections are accepted. All plaintext connections will be refused.

c. Authentication – Registering an application

Prior to making API requests, the client application must obtain an Access Token from the Compulink FHIR Registration Server. The client software must support OAuth 2.0 authorization code grant. For authorization code flow, a client ID and client secret are required. If the client application does not have a client ID and client secret for this purpose, the client application may obtain a client ID and client secret by contacting the data owner or by completing the manual registration process at https://www.compulinkadvantage.com/apipartner/.

When an end user is directed to the authorization endpoint, the user will be presented with a login screen where they can enter their credentials (see 2.e). If the correct credentials are supplied and the end user grants access to the client application, an authorization code will be returned to the client that the client application can use to obtain an access token through the token endpoint as described in RFC 6749.

Each healthcare organization has a unique base URL that is used to access its Authorization Server. The required endpoint URLs are of the following form:

ENDPOINT	URL
Base	https://fhir.compulinkadvantage.com/[client_unique]/
Authorization	https://fhir.compulinkadvantage.com/[client_unique]/authorize
Token	https://oauth.Compulinkadvantage.com/token

d. Authentication – Refresh Token

Client apps that use the authorization code flow and can securely store refresh tokens may request a refresh token by including the offline_access scope in the initial authorization endpoint request. Note that the end user may remove this scope during the authorization process. If a refresh token is permitted, it will be returned together with the access token as per RFC 6749, and can be exchanged for a new access token as per RFC 6749. Refresh token lifetime defaults to 90 days (but may be longer or shorter depending on the Data Holder's institutional policies).

e. Authentication – Additional Users/Patient

Once an application is registered the data owner will have the ability to use the Compulink Advantage software to add or remove users and control scopes for each user.

e. Revoking Authentication

Once an application is registered the data owner will have the ability to use the Compulink Advantage software to revoke access to an application or user.

3. API Details

a. Supported Categories

These requests are generally assigned to a specific patient.

Allergies and Intolerances - US Core **AllergyIntolerance** Profile

Where is it used?

- `AllergyIntolerance` resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
AllergyIntolerance.clinicalStatus	STRING
AllergyIntolerance.code	RXNORM
AllergyIntolerance.patient	REFERENCE
AllergyIntolerance.reaction[x]	-
AllergyIntolerance.reaction.manifestation	STRING, SNOMED CT
AllergyIntolerance.verificationStatus	STRING
AllergyIntolerance.recordedDate	DATE
AllergyIntolerance.onsetDateTime	DATE
AllergyIntolerance.onset	DATE
AllergyIntolerance.note	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Substance (Drug Class)	RxNorm
Substance (Medication)	SNOMED CT
Reaction	SNOMED CT

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/AllergyIntolerance?patient=[patient_unique]

Assessment and Plan of Treatment - US Core CarePlan Profile

Where is it used?

- CarePlan resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
CarePlan.category[x]	-
CarePlan.category:AssessPlan	FIXED
CarePlan.intent	STRING
CarePlan.status	STRING
CarePlan.subject	REFERENCE
CarePlan.text[x]	STRING
CarePlan.text.status	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Assessment and Plan of Treatment	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Category	Filter by category
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/CarePlan?category=assess-plan&patient=[patient_unique]

Care Team Members - US Core CareTeam Profile

Where is it used?

- CareTeam resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
CareTeam.participant[x]	-
CareTeam.participant.member	STRING
CareTeam.participant.role	STRING
CareTeam.status	STRING
CareTeam.subject	REFERENCE
CareTeam.Encounter	REFERENCE

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Care Team Members	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results
Status	Filter by status

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/CareTeam?patient=[patient_unique]&status=proposed

Clinical Notes - US Core DocumentReference Profile

Where is it used?

- DocumentReference resource.
  - May be referenced in:
    - DiagnosticReport resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
DocumentReference.author	REFERNCE
DocumentReference.category	STRING
DocumentReference.content[x]	-
DocumentReference.content.attachment[x]	-
DocumentReference.content.attachment.contentType	STRING
DocumentReference.content.attachment.url	URL
DocumentReference.content[x]	-
DocumentReference.context.format	STRING
DocumentReference.context.period	DATE
DocumentReference.custodian	REFERENCE
DocumentReference.encounter	REFERENCE
DocumentReference.date	DATE
DocumentReference.identifier	INTEGER
DocumentReference.status	STRING
DocumentReference.subject	REFERENCE
DocumentReference.type	LOINC

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Consultation Note Discharge Summary Note History & Physical Progress Note Imaging Narrative Procedure Note	LOINC
Laboratory Report Narrative Pathology Report Narrative	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Type	Filter by type
Category	Filter by category
Date	Filter by date

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/DocumentReference?patient=[patient_unique]

Clinical Notes - US Core DiagnosticReport Profile for Report and Note Exchange

Where is it used?

- DiagnosticReport resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
DiagnosticReport.category	LOINC
DiagnosticReport.code	LOINC
DiagnosticReport.effectiveDateTime	DATETIME
DiagnosticReport.encounter	REFERENCE
DiagnosticReport.issued	DATETIME
DiagnosticReport.performer	REFERENCE
DiagnosticReport.presentedForm.URL	REFERENCE
DiagnosticReport.status	STRING
DiagnosticReport.subject	REFERENCE
DiagnosticReport.performer	REFERENCE
DiagnosticReport.presentedForm	LOINC

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Imaging Narrative Procedure Note	LOINC

Laboratory Report Narrative Pathology Report Narrative	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results
Code	Filter by code
Category	Filter by category
Date	Filter by date

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/DiagnosticReport?_revinclude=Provenance:target&category=LP29684-5&patient=[patient_unique]

Laboratory - US Core DiagnosticReport Profile for Laboratory Results Reporting

Where is it used?

- DiagnosticReport resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
DiagnosticReport.category	LOINC
DiagnosticReport.code	LOINC
DiagnosticReport.effectiveDateTime	DATETIME
DiagnosticReport.encounter	REFERENCE
DiagnosticReport.issued	DATETIME
DiagnosticReport.performer	REFERENCE
DiagnosticReport.status	STRING
DiagnosticReport.subject	REFERENCE

DiagnosticReport.performer	REFERENCE
DiagnosticReport.presentedForm	LOINC
DiagnosticReport.result	REFERENCE

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Tests	LOINC
Results	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results
Code	Filter by code
Category	Filter by category
Date	Filter by date

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/DiagnosticReport?category=LAB&patient=[patient_unique]

Goals - US Core Goal Profile

Where is it used?

- Goal resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Goal.description	STRING
Goal.lifecycleStatus	STRING

Goal.subject	REFERNCE
Goal.target.dueDate	DATE

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Patient Goals	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Goal?patient=[patient_unique]

Health Concerns - US Core Condition Profile

Where is it used?

- Condition resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Condition.category	STRING, SNOMED CT
Condition.clinicalStatus	STRING
Condition.code	ICD10
Condition.subject	REFERNCE
Condition.verificationStatus	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE

Health Concerns	ICD10

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Condition?patient=[patient_unique]

Problems - US Core Condition Profile

Where is it used?

- Condition resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Condition.category	STRING, SNOMED CT
Condition.clinicalStatus	STRING
Condition.code	SNOMED CT
Condition.subject	REFERNCE
Condition.verificationStatus	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Problems	SNOMED CT

Search Methods:

SEARCH	TYPE

id	Direct result
_search	Search results
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Condition?patient=[patient_unique]

Immunizations - US Core Immunization Profile

Where is it used?

- Immunization resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Immunization.occurrenceString	STRING, DATETIME
Immunization.patient	REFERNCE
Immunization.primarySource	BOOLEAN
Immunization.status	STRING
Immunization.statusReason	STRING
Immunization.vaccineCode	CVX

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Immunization	CVX

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Immunization?patient=[patient_unique]

Medications - US Core MedicationRequest Profile

Where is it used?

- MedicationRequest resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
MedicationRequest.authoredOn	DATETIME
MedicationRequest.dosageInstruction	-
MedicationRequest.dosageInstruction.text	STRING
MedicationRequest.encounter	REFERENCE
MedicationRequest.intent	STRING
MedicationRequest.medication[x]	RXNORM
MedicationRequest.reportedBoolean	BOOLEAN
MedicationRequest.requester	REFERENCE
MedicationRequest.status	STRING
MedicationRequest.subject	REFERENCE

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Medications	RxNorm

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results

Patient	Patient results
Intent	Filter by intent
Status	Filter by status

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/MedicationRequest?_revinclude=Provenance:target&intent=proposal&patient=[patient_unique]

Procedures - US Core Procedure Profile

Where is it used?

- Procedure resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Procedure.code	SNOMED CT
Procedure.performedDate	DATE
Procedure.status	STRING
Procedure.subject	REFERENCE

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Procedures	SNOMED CT

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results
Date	Filter by date

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Procedure?patient=[patient_unique]

Unique Device Identifier(s) for Patient's Implantable Device(s) - US Core ImplantableDevice Profile

Where is it used?

- Device resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Device.distinctIdentifier	STRING
Device.expirationDate	DATE
Device.lotNumber	INTEGER
Device.manufactureDate	DATE
Device.patient	REFERENCE
Device.serialNumber	STRING
Device.type	SNOMED CT
Device.udiCarrier	STRING
Device.udiCarrier.carrierAIDC or Device.udiCarrier.carrierHRF	STRING
Device.udiCarrier.deviceIdentifier	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Device	UDI

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Device?_revinclude=Provenance:target&patient=[patient_unique]

Laboratory - US Core Laboratory Result Observation Profile

Where is it used?

- Observation resource.
  - May be referenced in:
    - DiagnosticReport resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Observation.category	FIXED
Observation.code	LOINC
Observation.effectiveDateTime	DATE
Observation.status	STRING
Observation.subject	REFERENCE
Observation.valueQuantity[x]	-
Observation.valueQuantity.value	STRING
Observation.valueQuantity.unit	STRING
Observation.referenceRange	-
Observation.referenceRange.Low.value	STRING
Observation.referenceRange.Low.unit	STRING
Observation.referenceRange.High.value	STRING
Observation.referenceRange.High.unit	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Tests	LOINC

Results	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results
Category	Filter by category
Code	Filter by code
Date	Filter by date

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Observation?category=laboratory&patient=[patient_unique]

Smoking Status - US Core Smoking Status Observation Profile

Where is it used?

- Observation resource.

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Observation.code	FIXED
Observation.issued	DATE
Observation.status	STRING
Observation.subject	REFERENCE
Observation.value[x]:valueCodeableConcept	SNOMED CT

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Smoking Status	SNOMED CT

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results
Code	Filter by code

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Observation?code=72166-2&patient=[patient_unique]

Vital Signs – FHIR Core **VitalSigns** Profile

Where is it used?

- `Observation` resource.

Available Vital Signs panel options:

- *Diastolic Blood Pressure* - Blood pressure systolic and diastolic (FHIR Core Profile)
- *Systolic Blood Pressure* - Blood pressure systolic and diastolic (FHIR Core Profile)
- *Body Height* - Body height (FHIR Core Profile)
- *Body Weight* - Body weight (FHIR Core Profile)
- *Heart Rate* - Heart rate (FHIR Core Profile)
- *Respiratory Rate* - Body temperature (FHIR Core Profile)
- *Body Temperature* - Body temperature (FHIR Core Profile)
- *Pulse Oximetry* - US Core Pulse Oximetry Profile (Builds on FHIR Core Profile)
- *Inhaled Oxygen Concentration* - US Core Pulse Oximetry Profile (Builds on FHIR Core Profile)
- *BMI Percentile (2-20 years old)* - US Core Pediatric BMI for Age Observation Profile (Builds on FHIR Core Profile)
- *Weight-for-Length Percentile (Birth-36 months)* - US Core Pediatric Weight for Height Observation Profile (Builds on FHIR Core Profile)
- *Occipital-frontal Head Circumference Percentile (Birth-36 months)* - US Core Pediatric Head Occipital Frontal Circumference Observation Profile (Builds on FHIR Core Profile)

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Observation.category	-
Observation.category.coding.code	FIXED
Observation.code.coding.code	LOINC
Observation.effectiveDateTime	DATE
Observation.status	STRING
Observation.subject	REFERNCE
Observation.value[x]	-
Observation.value[x].code	LOINC
Observation.value[x].system	STRING
Observation.value[x].unit	STRING
Observation.value[x].value	STRING
Observation.value[x]:valueQuantity	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
Systolic blood pressure Diastolic blood pressure Heart Rate Respiratory rate Body temperature Body height Body weight Pulse oximetry Inhaled oxygen concentration BMI Percentile (2 - 20 years) Weight-for-length Percentile (Birth - 36 Months) Head Occipital-frontal Circumference Percentile (Birth - 36 Months)	LOINC

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Patient	Patient results

Category	Filter by category
Code	Filter by code
Date	Filter by date

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Observation?code=2708-6&patient=[patient_unique]

b. Patient Search

This guide will assist in finding a patient.

Patient Demographics - US Core Patient Profile

Where is it used?

- Patient resource.
  - May also be referenced in:
    - AllergyIntolerance resource
    - CarePlan resource
    - CareTeam resource
    - Condition resource
    - Implantable Device resource
    - DiagnosticReport resource
    - DocumentReference resource
    - Goal resource
    - Immunization resource
    - MedicationRequest resource
    - Observation resource
    - Procedure resource
    - Encounter resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Patient.address[x]	-
Patient.address.city	STRING

Patient.address.line	STRING
Patient.address.period	DATE
Patient.address.postalCode	STRING
Patient.address.state	STRING
Patient.birthDate	DATE
Patient.communication	-
Patient.communication.language	STRING
Patient.extension:birthsex	STRING
Patient.extension:ethnicity	STRING
Patient.extension:race	STRING
Patient.gender	STRING
Patient.identifier	REFERENCE
Patient.name[x]	-
Patient.name.family	STRING
Patient.name.given	STRING
Patient.name.suffix	STRING
Patient.name.Period.start	DATE
Patient.name.Period.end	DATE
Patient.telecom[x]	-
Patient.telecom.use	STRING
Patient.telecom.value	STRING

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE
First Name	N/A
Last Name	N/A
Middle Name	N/A
Suffix	N/A
Previous Name	N/A
Date of Birth	N/A
Race	See 45 CFR 170.207(f)
Ethnicity	See 45 CFR 170.207(f)

Sex (Birth)	See 45 CFR 170.207(n)
Preferred Language	See 45 CFR 170.207(g)
Current Address	N/A
Previous Address	N/A
Phone Number	See 45 CFR 170.207(q)(1)
Phone Number Type	N/A
Email Address	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
Birthdate	Filter by birth date
Name	Filter by name
Gender	Filter by gender

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Patient?birthdate=1980-12-01&name=SAMPLE

c. Additional Categories

These requests are available but may not be specific to a patient.

Encounter - US Core Encounter Profile

Where is it used?

- `Encounter` resource.
  - May also be referenced in:
    - `CareTeam` resource
    - `Condition` resource
    - `DiagnosticReport` resource
    - `DocumentReference` resource
    - `MedicationRequest` resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Encounter.class	-
Encounter.hospitalization	STRING
Encounter.hospitalization.dischargeDisposition	STRING
Encounter.location	-
Encounter.location.location	REFERENCE
Encounter.participant	-
Encounter.participant.individual	REFERENCE
Encounter.participant.period	DATE
Encounter.participant.type	STRING
Encounter.period	DATE
Encounter.reasonCode	STRING
Encounter.status	STRING
Encounter.subject	REFERENCE
Encounter.type	STRING

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Encounter/[encounter_unique]

Practitioner - US Core Practitioner Profile

Where is it used?

- Practitioner resource.
    - May also be referenced in:

- CareTeam resource
- DiagnosticReport resource
- DocumentReference resource
- MedicationRequest resource
- Encounter resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Practitioner.identifier	-
Practitioner.identifier.value	NPI
Practitioner.name	-
Practitioner.name.family	STRING
Practitioner.name.given	STRING
Practitioner.name.prefix	STRING
Practitioner.name.suffix	STRING
Practitioner.telecom[x]	-
Practitioner.telecom.use	STRING
Practitioner.telecom.value	STRING
Practitioner.address[x]	-
Practitioner.address.city	STRING
Practitioner.address.line	STRING
Practitioner.address.postalCode	STRING
Practitioner.address.state	STRING

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Practitioner /[practitioner_unique]

Organization - US Core Organization Profile

Where is it used?

- `Organization` resource.
  - May also be referenced in:
    - `Encounter` resource
    - `Provenance` resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Organization.active	BOOLEAN
Organization.address	-
Organization.address.city	STRING
Organization.address.country	STRING
Organization.address.line	STRING
Organization.address.postalCode	STRING
Organization.address.state	STRING
Organization.identifier	NPI
Organization.name	STRING
Organization.telecom[x]	-
Organization.telecom.system	STRING
Organization.telecom.value	STRING

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Organization/[organization_unique]

Provenance - US Core Provenance Profile

Where is it used?

- `Provenance` resource.
  - May also be referenced in:
    - `AllergyIntolerance` resource
    - `CarePlan` resource
    - `CareTeam` resource
    - `Condition` resource
    - `Implantable Device` resource
    - `DiagnosticReport` resource
    - `DocumentReference` resource
    - `Goal` resource
    - `Immunization` resource
    - `MedicationRequest` resource
    - `Observation` resource
    - `Procedure` resource
    - `Encounter` resource
    - `Patient` resource

Supported Elements:

RESOURCE DATA ELEMENT	DATA TYPE
Provenance.agent	-
Provenance.agent.onBehalfOf	REFERENCE
Provenance.agent.type	STRING
Provenance.agent.type.coding.code	STRING
Provenance.agent.who	REFERENCE
Provenance.agent:ProvenanceAuthor	STRING
Provenance.agent:ProvenanceTransmitter	STRING
Provenance.recorded	DATETIME
Provenance.target	FIXED

USCDI Element Types:

USCDI ELEMENT	SUPPORTED TYPE

Author Time Stamp	N/A
Author Organization	N/A

Search Methods:

SEARCH	TYPE
id	Direct result
_search	Search results
_revinclude=Provenance:target	Include in other resrouces

Example:

EXAMPLE
https://fhir.compulinkadvantage.com/[client_unique]/Observation?_revinclude=Provenance:target&category=laboratory&patient=[patient_unique]

4. Usage Terms

a. Fees and Limitations

Usage of our standard API as listed above don't not contain any additional fees. Data owner (such as medical office) must retain an active Advantage Partnership Support Service agreement.
Costs and Limitations are publicly available here: **Disclosure-Analysis-Costs-and-Limitations**

b. Restrictions and Obligations

Any user shall be restricted to the data and scopes made available to that user. That usage shall be in the context of the information provided in registration.
Compulink or the data owner (such as the medical organization) reserve the right to remove or restrict access to users. Other reasons for removal include, but are not limited to:

1. Sublicense or share any protected connectivity content from the API for use by a non-registered application.
2. Perform an action with the intent of introducing the interface to any viruses, worms, defects, Trojan horses, malware, or any items of a destructive nature.
3. Defame, abuse, harass, stalk, or threaten others.
4. Interfere with or disrupt the APIs or the servers or networks providing the APIs.
5. Reverse engineer or attempt to extract the source code from any API or any related software, except to the extent that this restriction is expressly prohibited by applicable law.
6. Collecting data outside the agree upon context of usage.

You may not use the APIs and may not accept the Terms if you are a person barred from using or receiving the APIs under the applicable laws of the United States or other countries including the country in which you are resident or from which you use the APIs.

c. Contact

For any developer related question or clarifications regarding Compulink FHIR API please contact:

Compulink Customer Care

Phone: 805.716.8677 | Fax: 805.497.4983
support@compulinkadvantage.com