



Content Types and encodings

	XML	json
Resource	application/xml+fhir	application/json+fhir
Bundle	application/atom+xml	application/json+fhir
TagList	application/xml+fhir	application/json+fhir

Primitive Data Types

instant
date
dateTime
decimal
boolean
integer
string
- code
- id
uri
- oid
- uuid
base64Binary

Complex Data Types

Ratio
CodeableConcept
Period Quantity
Range Age
Attachment Distance
Identifier Duration
Schedule Count
HumanName Money
Coding SampledData
Address Contact

Terminology Systems

SNOMED CT

<http://snomed.info/sct>

LOINC

<http://loinc.org>

UCUM

<http://unitsofmeasure.org>

Version 2 table code

[http://hl7.org/fhir/v2/\[x\]](http://hl7.org/fhir/v2/[x])

Version 3 code system

[http://hl7.org/fhir/v3/\[x\]](http://hl7.org/fhir/v3/[x])

URI

<urn:ietf:rfc:3986>

Tags

Entry Level

<http://hl7.org/fhir/tag>
<http://hl7.org/fhir/tag/text>
<http://hl7.org/fhir/tag/profile>

Feed level

<http://hl7.org/fhir/tag/document>
<http://hl7.org/fhir/tag/message>

Interactions

Instance

READ	GET [base-url]/[type]/[id]
VREAD	GET [base-url]/[type]/[id]/_history/[vid]
UPDATE	PUT [base-url]/[type]/[id]
DELETE	DELETE [base-url]/[type]/[id]
HISTORY	GET [base-url]/[type]/[id]/_history

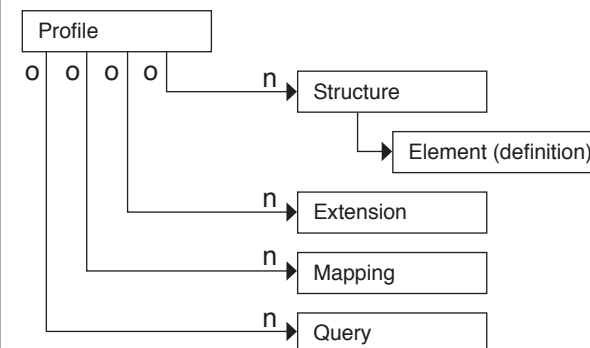
Type level

CREATE	POST [base-url]/[type]
SEARCH	GET [base-url]/[type]/_search? or /[type]?
HISTORY	GET [base-url] /[type]/_history
VALIDATE	POST [base-url]/[type]/_validate{/[id]}

Whole System

CONFORMANCE	GET [base-url] /metadata
TRANSACTION	POST [base-url]/
HISTORY	GET [base-url]/_history
SEARCH	GET [base-url]/

Profile Hierarchy



Search

Parameter Types

Base search URL **base-url / resource ? parameter & parameter & ...**

<http://spark.furore.com/fhir/Patient?name=John>

Number **field (:modifier) = (comparator) number**

length=27

Date **field (:modifier) = comparator yyyy-mm-ddThh:mm:ss(TZ)**

birthdate=1964-12

string **field (:modifier) = text**

name=John

name:exact=John-William

Token **field = namespace | code**

gender=F

gender=http://hl7.org/fhir/v3/AdministrativeGender|F

gender=|F

Reference **field (:modifier) = id**

provider=Organization/hl7

subject:Patient=23

Quantity **field = (comparator) number | namespace | code**

value=5.4|<http://unitsofmeasure.org>|mg

value=<5.4|<http://unitsofmeasure.org>|mg

Composite **field = value , value**

field = state\$value,state\$value

state-on-date=new\$2013-05-04,active\$2013-05-05

Includes **_include=reference.reference.reference ...**

_include=MedicationDispense.authorizingPrescription

Global parameters

_count

_count=20

_sort

_sort:desc=name

Chained parameters

GET [base-url]/DiagnosticReport?subject.name=peter

GET [base-url]/DiagnosticReport?subject:Patient.name=peter

Text Searches

GET [base-url]/Condition?_text=(bone OR liver)and metastases

Selecting resources by tag, profile or security label

GET [base-url]/Condition? tag=http://acme.org/fhir/tags/needs-review

GET [base-url]/DiagnosticReport?_profile=http://hl7.org/fhir/profile/lipid