

## 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

<b>SNOMED CT</b> http://snomed.info/sct	<b>Version 2 table code</b> http://hl7.org/fhir/v2/[x]
<b>LOINC</b> http://loinc.org	<b>Version 3 code system</b> http://hl7.org/fhir/v3/[x]
<b>UCUM</b> http://unitsofmeasure.org	<b>URI</b> urn:ietf.rfc:3986

## Tags

<b>Entry Level</b> http://hl7.org/fhir/tag http://hl7.org/fhir/tag/text http://hl7.org/fhir/tag/profile	<b>Feed level</b> http://hl7.org/fhir/tag/document http://hl7.org/fhir/tag/message
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## 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

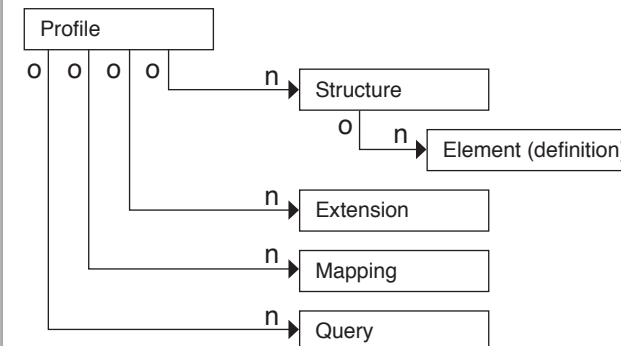
### Type level

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/h17  
 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