

Resource

Name	Card.
Resource	
id	0..1
meta	0..1
implicitRules	0..1
language	0..1

Domain Resource

Name	Card.
DomainResource	
text	0..1
contained	0..*
extension	0..*
modifierExtension	0..*

Meta

Name	Card.
Meta	
versionId	0..1
lastUpdated	0..1
profile	0..*
security	0..*
tag	0..*

Bundle

Name	Card.
Bundle	
type	1..1
base	0..1
total	0..1
link	0..*
relation	1..1
url	1..1
entry	0..*
base	0..1
link	0..*
resource	0..1
search	0..1
mode	0..1
score	0..1
transaction	0..1
method	1..1
url	1..1
ifNoneMatch	0..1
ifMatch	0..1
ifModifiedSince	0..1
ifNoneExist	0..1
transactionResponse	0..1
status	1..1
location	0..1
etag	0..1
lastModified	0..1
signature	0..1

Operations

Validate a resource

```
[base]/[Resource]/$validate
[base]/[Resource]/[id]/$validate
```

Meta operations

```
[base]/$meta
[base]/[Resource]/$meta
[base]/[Resource]/[id]/$meta
[base]/[Resource]/[id]/$meta-add
[base]/[Resource]/[id]/$meta-delete
```

Generate a document

```
[base]/Composition/$document
```

ConceptMap operations

```
[base]/ConceptMap/$translate
[base]/ConceptMap/[id]/$translate
[base]/ConceptMap/$batch
```

Closure table maintenance

```
[base]/$closure
```

DAF operations

```
[base]/Encounter/[id]/$everything
[base]/Patient/$everything
[base]/Patient/[id]/$everything
```

Questionnaire operations

```
[base]/Questionnaire/$populate
[base]/Questionnaire/[id]/$populate
[base]/StructureDefinition/$questionnaire
[base]/StructureDefinition/[id]/$questionnaire
```

Terminology operations

```
[base]/ValueSet/$expand
[base]/ValueSet/[id]/$expand
[base]/ValueSet/$lookup
[base]/ValueSet/$validate-code
[base]/ValueSet/[id]/$validate-code
[base]/ValueSet/$batch
```

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?
HISTORY	GET	[base-url]/[type]/_history

Whole System

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

Conditional Interactions

CREATE	POST	If-None-Exist: base/[type]?[search parameters] No matches: Create 1 match: 200 OK Multi matches: 412 Precondition Failed
UPDATE	PUT	[base-url] /[type]/?[search parameters] No matches: Create 1 match: Update Multi matches: 412 Precondition Failed
DELETE	DELETE	[base-url] /[type]/?[search parameters] No matches: 404 Not Found 1 match: Delete Multi matches: 412 Precondition Failed

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]
Version 3 code system
http://hl7.org/fhir/v3/[x]
URI
urn:ietf.rfc:3986

Search

Parameter Types

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

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`

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

uri `field =(modifier) = url`

url:below=http://acme.org/fhir/

Parameters for all resources

_id	_id=23
_language	_language=fr
_lastUpdated	_lastUpdated=>2010-10-01
_tag	_tag=http://acme.org/codes needs-review
_profile	_profile=http://hl7.org/fhir/StructureDefinition/lipid
_security	_security = http://hl7.org/fhir/v3/ActCode CEL
_text	_text=(bone OR liver) and metastases
_content	_content=(bone OR liver) and metastases
_query	_query=name¶meters
_filter	_filter=name co "pe" or name co "pie"

Search result parameters

_include	_include=MedicationPrescription:patient&criteria...
_revinclude	_revinclude=Provenance:target&criteria...
_count	_count=50
_sort	_sort:asc=birthdate
_summary	_summary = true
_contained	_contained = true false both
_containedType	_containedType = container contained

Chained parameters

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