

Resource	Domain Resource	Meta	Terminology Systems	MIME Types	Search	
Name Card. Resource 0..1 id 0..1 meta 0..1 implicitRules 0..1 language 0..1	Name Card. DomainResource 0..1 text 0..1 contained 0..* extension 0..* modifierExtension 0..*	Name Card. Meta 0..1 versionId 0..1 lastUpdated 0..1 source 0..1 profile 0..* security 0..* tag 0..*	SNOMED CT http://snomed.info/sct LOINC http://loinc.org UCUM http://unitsofmeasure.org Version 2 table code http://terminology.hl7.org/CodeSystem/v2-[X] Version 3 code system http://terminology.hl7.org/CodeSystem/v3-[X]	JSON application/fhir+json XML application/fhir+xml RDF application/fhir+turtle	Parameter Types Base search URL <code>base-url / resource ? parameter & parameter & ...</code> https://vonk.fire.ly/Patient?name=John number <code>field (:modifier)=(comparator)number</code> length=27 date <code>field (:modifier)= comparator yyyy-mm-ddThh:mm:ss[Z (+ -)hh:mm]</code> birthdate=1964-12-10 string <code>field (:modifier)= text</code> name=John name:exact=John-William token <code>field = system code</code> gender=female gender=http://hl7.org/fhir/v3/AdministrativeGender female gender= female Reference <code>field (:modifier)= id</code> subject:Patient=23 Quantity <code>field = (comparator) number system code</code> value=5.4 http://unitsofmeasure.org mg value=1t5.4 http://unitsofmeasure.org mg Composite <code>field = value , value</code> field = state\$value,state\$value state-on-date=new\$2013-05-04,active\$2013-05-05 uri <code>field (:modifier)= uri</code> uri:below=http://acme.org/fhir/	
Bundle	Operations	For more see:	Interactions			
Name Card. Bundle 0..1 identifier 0..1 type 1..1 timestamp 0..1 total 0..1 link 0..* relation 1..1 url 1..1 entry 0..* link 0..* fullUrl 0..1 resource 0..1 search 0..1 mode 0..1 score 0..1 request 0..1 method 1..1 url 1..1 ifNoneMatch 0..1 ifModifiedSince 0..1 ifMatch 0..1 ifNoneExist 0..1 response 0..1 status 1..1 location 0..1 etag 0..1 lastModified 0..1 outcome 0..1 signature 0..1	Validate a resource <code>[base]/[Resource]\$/validate</code> <code>[base]/[Resource]/[id]\$/validate</code> Terminology operations <code>[base]/ValueSet/[id]\$/expand</code> <code>[base]/ValueSet/[id]\$/validate-code</code> <code>[base]/CodeSystem/\$lookup</code> <code>[base]/CodeSystem/[id]\$/subsumes</code> <code>[base]/CodeSystem/[id]\$/find-matches</code> Fetch records <code>[base]/Patient/[id]\$/everything</code> Meta Operations <code>[base]/\$meta</code> <code>[base]/[Resource]/\$meta</code> <code>[base]/[Resource]/[id]/\$meta</code> <code>[base]/[Resource]/[id]\$/meta-add</code> <code>[base]/[Resource]/[id]\$/meta-delete</code> Generate a Document <code>[base]/Composition/[id]/\$document</code> Process Message <code>[base]/\$process-message</code> Find a functional List <code>[base]/List/\$find</code> ConceptMap operations <code>[base]/ConceptMap/\$translate</code> <code>[base]/ConceptMap/[id]/\$translate</code> Closure Table Maintenance <code>[base]/\$closure</code> Questionnaire operations <code>[base]/StructureDefinition/\$questionnaire</code> <code>[base]/StructureDefinition/[id]/\$questionnaire</code>	https://hl7.org/fhir/r4/operationslist.html	Instance READ GET <code>[base]/[type]/[id]</code> VREAD GET <code>[base]/[type]/[id]/_history/[vid]</code> UPDATE PUT <code>[base]/[type]/[id]</code> DELETE DELETE <code>[base]/[type]/[id]</code> HISTORY GET <code>[base]/[type]/[id]/_history</code> Type level CREATE POST <code>[base]/[type]</code> SEARCH GET <code>[base]/[type]?[parameters]</code> HISTORY GET <code>[base]/[type]/_history</code> Whole System CAPABILITY GET <code>[base]/metadata</code> BATCH TRANSACTION POST <code>[base]/</code> HISTORY GET <code>[base]/_history</code> SEARCH GET <code>[base]?[parameters]</code> Conditional Interactions CREATE POST If-None-Exist: [search parameters] No matches: Create 1 match: 200 OK Multi matches: 412 Precondition Failed UPDATE PUT <code>[base-url] /[type]/?[search parameters]</code> No matches: Create 1 match: Update Multi matches: 412 Precondition Failed DELETE DELETE <code>[base-url] /[type]/?[search parameters]</code> No match: Delete 1 match: Delete Multi matches: 412 Precondition Failed	Parameters for all resources <code>_id</code> <code>_id=23</code> <code>_lastUpdated</code> <code>_lastUpdated=gt2010-10-01</code> <code>_tag</code> <code>_tag=http://acme.org/codes needs-review</code> <code>_profile</code> <code>_profile=http://hl7.org/fhir/StructureDefinition/lipid</code> <code>_security</code> <code>_security = http://hl7.org/fhir/v3/ActCode CEL</code> <code>_text</code> <code>_text=(bone OR liver) and metastases</code> <code>_content</code> <code>_content=(bone OR liver) and metastases</code> <code>_list</code> <code>_list=42</code> <code>_has</code> <code>_has:Observation:patient:code=1234-5</code> <code>_type</code> <code>_type=Observation,Condition</code> <code>_query</code> <code>_query=name&parameters</code>	Search result parameters <code>_include</code> <code>_include=MedicationPrescription:patient</code> <code>_revinclude</code> <code>_revinclude=Provenance:target</code> <code>_count</code> <code>_count=50</code> <code>_sort</code> <code>_sort=status,-date,category</code> <code>_summary</code> <code>_summary=true text data count false</code> <code>_elements</code> <code>_elements=identifier,active,link</code> <code>_contained</code> <code>_contained = true false both</code> <code>_containedType</code> <code>_containedType = container contained</code>	Chained parameters <code>GET [base-url]/DiagnosticReport?subject.name=peter</code>
			Comparators for Search <code>[parameter]=100</code> equal 100 in range [99.5..100.5] <code>[parameter]=100.00</code> equal 100 in range [99.995..100.005] <code>[parameter]=lt100</code> less than 100 <code>[parameter]=le100</code> less or equal to 100 <code>[parameter]=gt100</code> greater than 100 <code>[parameter]=ge100</code> greater or equal to 100 <code>[parameter]=ne100</code> not equal to 100		Made by Firely. Visit our website for FHIR products and services: https://fire.ly .	