

## DocumentReference (C-CDAs)

### Overview

The Document Reference resource is used to fetch the documents associated with a patient. The resource shall conform to the US Core Document Reference Profile (v3.1.1: STU3)

### Schema

| Element Name | Data Type  | Card. | Description & Constraints                                       |
|--------------|--|-------|---|
| id           | string   | 0..1  | Document Reference resource entry id                            |
| meta         | Meta   | 0..1  | Metadata(profile and last updated date/time) about the resource |
| identifier   | Identifier   | 0..*  | Other identifiers for the document                              |
| status       | code   | 1..1  | Current status of this document reference                       |
| type         | CodeableConcept  | 1..1  | Code that identifies the kind of document (LOINC if possible)   |
| category     | CodeableConcept  | 1..*  | Code that identifies the category of document                   |
| subject      | Reference(US Core Patient Profile)   | 1..1  | Who/what is the subject of the document                         |
| date         | instant  | 0..1  | When this document reference was created                        |
| author       | Reference(US Core Practitioner Profile   US Core Organization Profile   US Core Patient Profile) | 0..*  | Practitioner reference who authored the document                |
| custodian    | Reference(US Core Organization Profile)  | 0..1  | Organization which maintains the document                       |
| content      | BackboneElement  | 1..*  | Document referenced   |
| context      | BackboneElement  | 0..1  | Encounter reference when this document was created              |

### Supported operations

Search for Document Reference that meet supplied query parameters:

| Search parameter name      | Sample query  | Expected output   |
|----------------------------|---|---|
| id                         | GET [base]/DocumentReference/[id]<br>Example:<br>1. GET [base]/DocumentReference/2169591<br>2. GET [base]/DocumentReference?id=2169591                        | The system shall return C-CDA document associated with the specific id.<br><br>Element-DocumentReference.id   |
| patient                    | GET [base]/DocumentReference?patient=[reference]<br>Example:<br>1. GET [base]/DocumentReference?patient=113719  | The system shall return patient summary document associated with the specific patient.<br><br>Element-DocumentReference.subject                     |
| patient and category       | GET [base]/DocumentReference?patient=[reference]&category=clinical-note<br>Example:<br>1. GET [base]/DocumentReference?patient=1235541&category=clinical-note | The system shall return patient summary document associated with the specific patient.<br><br>Element-DocumentReference.category                    |
| patient, category and date | GET [base]/DocumentReference?patient=[reference]&category=clinical-note&date={gt lt ge le}[date]{&date={gt lt ge le}[date]&...}<br>Example:                   | The system shall return patient summary document associated with the specific patient & data containing in the specific date range.<br><br>Element- |

|                       |   |  |
|-----------------------|---|--|
|                       | 1. GET<br>[base]/DocumentReference?patient=1235541&category=clinical-note&date=ge2019   | DocumentReference.category<br>DocumentReference.date   |
| patient and type      | GET<br>[base]/DocumentReference?patient=[reference]&type=[code]<br>Example:<br>1. GET<br>[base]/DocumentReference?patient=1316024&type=34133-9            | The system shall return patient summary document associated with the specific patient.<br><br>Element-<br>DocumentReference.type |
| patient and encounter | GET<br>[base]/DocumentReference?encounter={ID}&patient=[reference]<br>Example:<br>1. GET<br>[base]/DocumentReference?encounter=43jk4b3jk4&patient=1316024 | The system shall return visit summary type C-CDA document associated with the specific encounter.                                |

Sample request:

Headers:

Accept: application/json+fhir

Authorization: <OAuth2 Bearer Token>

GET https://staging-fhir.ecwcloud.com/fhir/r4/FFBJCD/DocumentReference?patient=Lt2IFR5Ah76n4d8TFP5gBJiCIKJuEyZG8Ek3KV3alFE&type=34133-9

Sample output:

(Note: Data elements, including resource IDs, in the JSON response may be encrypted. The sample output listed in the API documentation is meant for illustrative purposes only. If you have any questions, please reach out to eClinicalWorks FHIR Support.)

```
{
  "resourceType": "Bundle",
  "id": "812a9497-0659-4ae1-bd59-5a6f3ca8374c",
  "meta": {
    "lastUpdated": "2025-01-29T00:09:49.626-05:00"
  },
  "type": "searchset",
  "total": 1,
  "link": [
    {
      "relation": "self",
      "url": "http://staging-fhir.ecwcloud.com/fhir/r4/FFBJCD/DocumentReference?patient=Lt2IFR5Ah76n4d8TFP5gBJiCIKJuEyZG8Ek3KV3alFE&type=34133-9"
    }
  ],
  "entry": [
    {
```

```

"fullUrl": "http://staging-fhir.ecwcloud.com/fhir/r4/FFBJCD/Binary/Lt2IFR5Ah76n4d8TFP5gBGjui1OcmG8y9MQHF3HPjoQ",
"resource": {
  "resourceType": "Binary",
  "id": "Lt2IFR5Ah76n4d8TFP5gBGjui1OcmG8y9MQHF3HPjoQ",
  "meta": {
    "profile": [
      "http://hl7.org/fhir/R4/binary"
    ]
  },
  "contentType": "application/xml",
  "data": "{redacted base 64 encoded C-CDA xml}"
},
"search": {
  "mode": "include"
}
},
{
  "fullUrl": "http://staging-fhir.ecwcloud.com/fhir/r4/FFBJCD/DocumentReference/Lt2IFR5Ah76n4d8TFP5gBGjui1OcmG8y9MQHF3HPjoQ",
  "resource": {
    "resourceType": "DocumentReference",
    "id": "Lt2IFR5Ah76n4d8TFP5gBGjui1OcmG8y9MQHF3HPjoQ",
    "meta": {
      "lastUpdated": "2025-01-29T00:09:38.293-05:00",
      "profile": [
        "http://hl7.org/fhir/us/core/StructureDefinition/us-core-documentreference"
      ]
    },
    "text": {
      "status": "generated",
      "div": "<div xmlns=\\"http://www.w3.org/1999/xhtml\\"><table
border=\\"1\\"><tbody><tr><td>Status</td><td><span>CURRENT</span></td></tr><tr><td>DocumentReference Type</td><td><span>34133-
9</span></td></tr><tr><td>DocumentReference Type Name</td><td><span>Summary of episode
note</span></td></tr><tr><td>Created Date</td><td><span>12 October 2022</span></td></tr></tbody></table></div>"
    },
    "identifier": [
      {
        "system": "urn:oid:2.16.840.1.113883.4.391",
        "value": "Lt2IFR5Ah76n4d8TFP5gBGjui1OcmG8y9MQHF3HPjoQ"
      }
    ],
    "status": "current",
    "type": {
      "coding": [
        {
          "system": "http://loinc.org",
          "code": "34133-9",
          "display": "Summary of episode note"
        }
      ],
      "text": "CCD Document"
    },
    "category": [
      {
        "coding": [
          {
            "system": "http://hl7.org/fhir/us/core/CodeSystem/us-core-documentreference-category",
            "code": "clinical-note",
            "display": "Clinical Note"
          }
        ],
        "text": "Clinical Note"
      }
    ],
    "subject": {
      "reference": "Patient/Lt2IFR5Ah76n4d8TFP5gBjICIKJuEyZG8Ek3KV3alFE",

```

```
    "type": "Patient"
  },
  "date": "2022-10-12T11:00:00.000-04:00",
  "author": [
    {
      "reference": "Organization/Lt2IFR5Ah76n4d8TFP5gBPMFWGL8HhxnxxooU.mnA.n5.Xl5yXZN1TQgZByeKFIIZ",
      "type": "Organization"
    }
  ],
  "custodian": {
    "reference": "Organization/Lt2IFR5Ah76n4d8TFP5gBPMFWGL8HhxnxxooU.mnA.n5.Xl5yXZN1TQgZByeKFIIZ",
    "type": "Organization"
  },
  "content": [
    {
      "attachment": {
        "contentType": "application/xml",
        "url": "Binary/Lt2IFR5Ah76n4d8TFP5gBGjui1OcmG8y9MQHF3HPjoQ"
      },
      "format": {
        "system": "urn:oid:1.3.6.1.4.1.19376.1.2.3",
        "code": "urn:hl7-org:sdwg:ccda-structuredBody:2.1",
        "display": "Documents following C-CDA constraints using a structured body"
      }
    }
  ],
  "context": {
    "encounter": [
      {
        "extension": [
          {
            "url": "http://hl7.org/fhir/StructureDefinition/data-absent-reason",
            "valueCode": "unknown"
          }
        ]
      }
    ]
  },
  "period": {
    "end": "2025-01-29T23:59:59-05:00"
  }
},
"search": {
  "mode": "match"
}
}
```

**Error:** In the event of an error, the system will respond with below error codes -

Error codes:

| Code | Severity | Description           | Example   |
|------|----------|-----------------------|---|
| 400  | error    | Bad request           | Invalid Parameters passed in the request or there is a Data Access Layer exception due to documentation.  |
| 401  | error    | Unauthorized          | Invalid or expired Access Token.  |
| 403  | error    | Forbidden             | Valid Access Token is present but requested scope is not authorized.  |
| 404  | error    | Not found             | Unknown resource type or Requested resource is not found  |
| 408  | error    | Request time out      | Request timed out because there is a communication issue with EMR or the response received from EMR was passed the acceptable threshold (possible reason could be the amount of data system is trying to return). |
| 500  | error    | Internal Server error | There is an internal error processing the request.  |