LACPASS

Transactions Workshop

Sergio Peñafiel
sergio@create.cl

Transacciones MHD

MHD Transactions

Se usarán las siguiente 4 transacciones MHD:

ITI-65: Provide Document
Registra y persiste un IPS en el servidor FHIR crea la carpeta de documentos del paciente y las referencias

ITI-66: Find Document Lists
Buscar las listas de documentos de un paciente dado su identificador

ITI-67: Find Document References
Busca las referencias de los documentos de un paciente

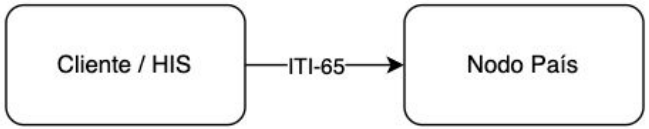
ITI-68: Retrieve Document
Obtiene un documento IPS dado la referencia al documento

CREATE

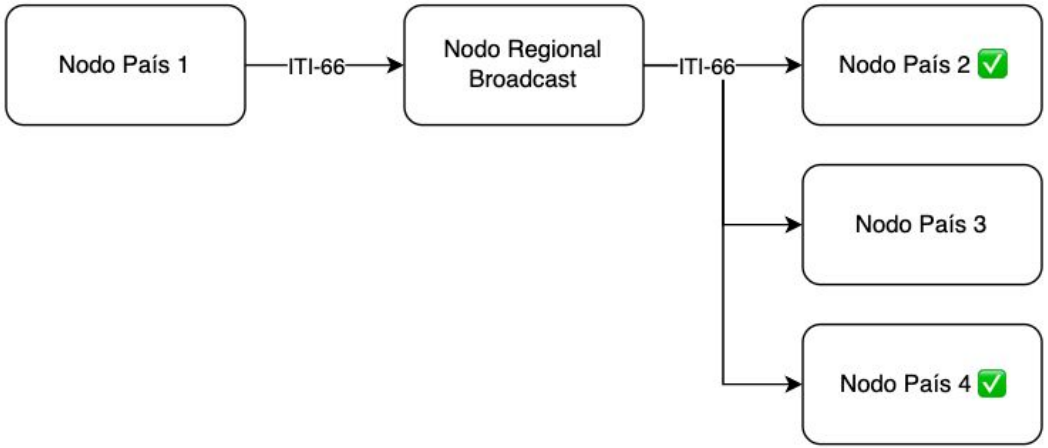
Mensajes

Messages

1. Generar y persistir IPS



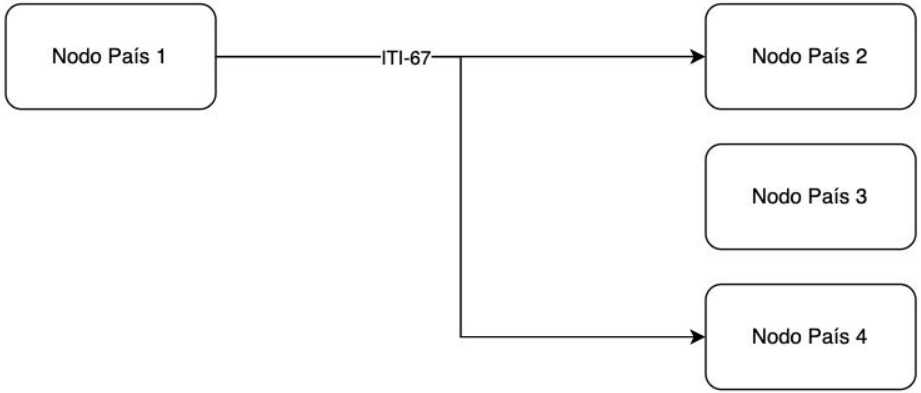
2. Consultar IPS a nodos de la red



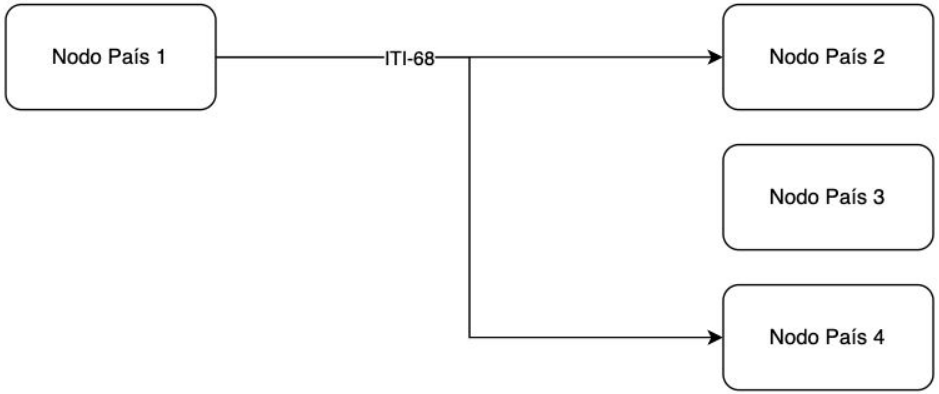
CREATE

Mensajes

Messages



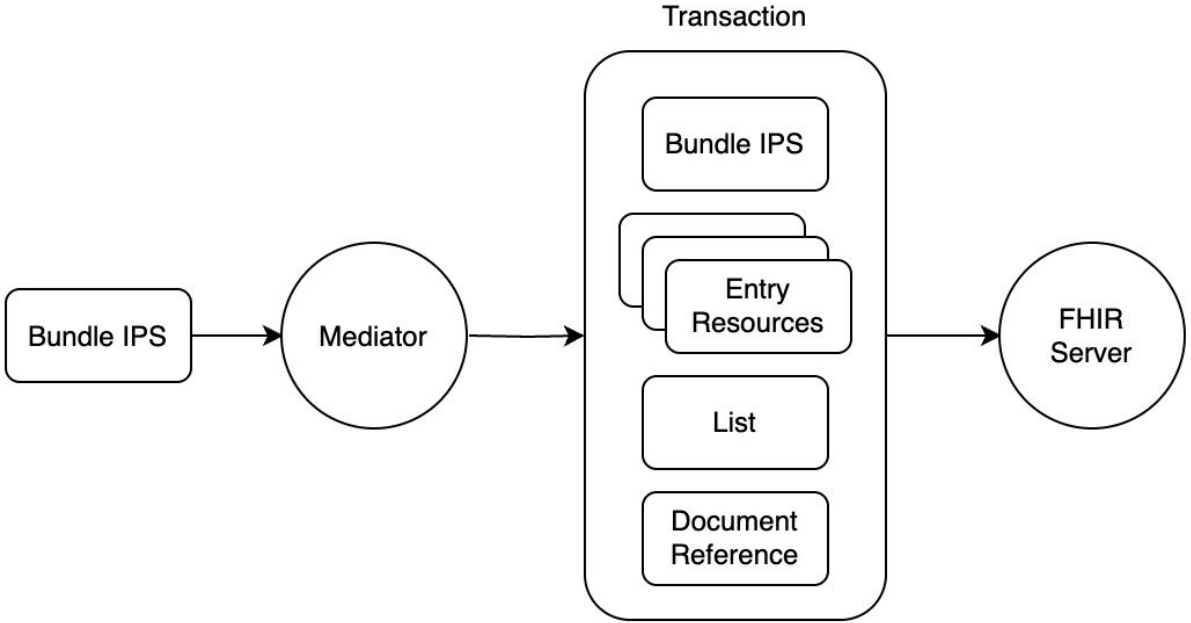
3. Mostrar IPS



CREATE

ITI-65: Provide Document

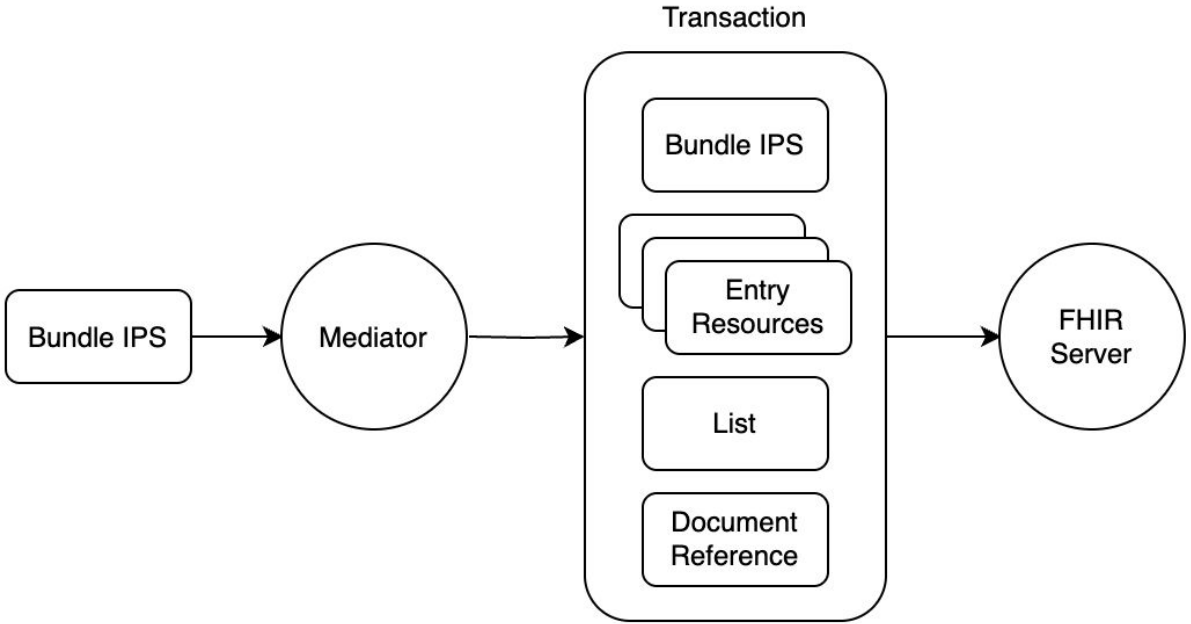
Se creó un mediador IPS (API gateway) que dado un Bundle de IPS crea la transacción FHIR, agrega los recursos por separado, crea la carpeta (lista) de documentos del paciente y sus referencias.



CREATE

ITI-65: Provide Document

Se creó un mediador IPS (API gateway) que dado un Bundle de IPS crea la transacción FHIR, agrega los recursos por separado, crea la carpeta (lista) de documentos del paciente y sus referencias.



Importante: El paciente del Bundle de IPS debe tener tanto el identificador nacional como el internacional (pasaporte)

ITI-66: Find Document List

Busca una lista de documentos de un paciente dado su identificador.

```
curl -i -X GET
http://localhost:8080/fhir/List/?patient.identifier=CY/Passport-HG-1112&
_format=json&status=current
```


```
{
  "resourceType": "Bundle",
  "id": "bacb56fd-1ba2-42b6-9787-dea1ef02db98",
  "meta": {
    "lastUpdated": "2023-05-05T18:35:42.967+00:00"
  },
  "type": "searchset",
  "total": 7,
  "link": [
    {
      "relation": "self",
      "url": "http://lacpass.create.cl:8080/fhir/List?
_format=json&patient.identifier=CY%2FPassport-AI-1111"
    }
  ],
  "entry": [
    {
      "fullUrl": "http://lacpass.create.cl:8080/fhir/List/2732",
      "resource": {
        "resourceType": "List",
        "id": "2732",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2023-05-02T02:44:50.675+00:00",
          "source": "#nmx3OsMUMF4Mevt6"
        },
        "extension": [
          {
            "url": "http://profiles.ihe.net/ITI/MHD/StructureDefinition/ihe-
```


CREATE

ITI-67: Find Document References

Busca todos las referencias a documentos de un paciente dado su identificador.

```
curl -i -X GET
http://localhost:8080/fhir/DocumentReference/?patient.identifier=CY/Passport-HG-1112&_format=json&status=current
```


```
{
  "resourceType": "Bundle",
  "id": "59b7d4f3-b7bc-4c11-a3f7-92f2fbe56045",
  "meta": {
    "lastUpdated": "2023-05-05T18:52:55.681+00:00"
  },
  "type": "searchset",
  "total": 7,
  "link": [
    {
      "relation": "self",
      "url": "http://lacpass.create.cl:8080/fhir/DocumentReference?_format=json&patient.identifier=CY%2FPassport-AI-1111"
    }
  ],
  "entry": [
    {
      "fullUrl": "http://lacpass.create.cl:8080/fhir/DocumentReference/2731",
      "resource": {
        "resourceType": "DocumentReference",
        "id": "2731",
        "meta": {
          "versionId": "1",
          "lastUpdated": "2023-05-02T02:44:50.675+00:00",
          "source": "#nmx3OsMUMF4Mevt6",
          "profile": [
            "http://hl7.org/fhir/uv/ips/StructureDefinition/Bundle-uv-ips"
          ]
        },
        "masterIdentifier": {
          "system": "https://profiles.ihe.net/ITI/MHD/StructureDefinition/IHE.MHD.Comprehensive.Documen
```

```
        "identifier": [
          {
            "system": "https://profiles.ihe.net/ITI/MHD/StructureDefinition/IHE.MHD.Comprehensive.DocumentReference",
            "value": "3446f727-fa5c-4307-ac55-70f62b3053e5"
          }
        ],
        "status": "current",
        "subject": {
          "reference": "Patient/2626"
        },
        "date": "2023-01-15T17:26:43.023+00:00",
        "content": [
          {
            "attachment": {
              "contentType": "application/fhir+json",
              "url": "http://lacpass.create.cl:8080/fhir/Bundle/3446f727-fa5c-4307-ac55-70f62b3053e5"
            }
          }
        ]
      },
      "search": {
        "mode": "match"
      }
    },
```


CREATE

ITI-68: Retrieve Document

Consulta directa para obtener un Bundle de IPS

```
curl -i -X GET
http://lacpass.create.cl:8080/fhir/Bundle/3446f727-fa5c-4307-ac55-70f62b
3053e5
```


```
{
  "resourceType": "Bundle",
  "id": "IPS-examples-Bundle-01",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2023-05-02T03:07:54.745+00:00",
    "source": "#nUguoDse0XS8hCha"
  },
  "language": "en-GB",
  "identifier": {
    "system": "urn:oid:2.16.724.4.8.10.200.10",
    "value": "175bd032-8b00-4728-b2dc-748bb1501aed"
  },
  "type": "document",
  "timestamp": "2017-12-11T14:30:00+01:00",
  "entry": [
    {
      "fullUrl": "Composition/3273",
      "resource": {
        "resourceType": "Composition",
        "id": "30551ce1-5a28-4356-b684-1e639094ad4d",
        "text": {
          "status": "generated",
          "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\"><p><b>Generated Narrative</b>
</p><div style=\"display: inline-block; background-color: #d9e0e7; padding: 6px; margin: 4px;
border: 1px solid #8da1b4; border-radius: 5px; line-height: 60%\"><p style=\"margin-bottom:
0px\">Resource &quot;30551ce1-5a28-4356-b684-1e639094ad4d&quot; </p></div><p>
<b>identifier</b>: id: 3f69e0a5-2177-4540-baab-7a5d0877428f</p><p><b>status</b>: final</p><p>
```


CREATE

Colección en Postman

Postman Collection

Se creó una colección en Postman con todas las solicitudes de las transacciones

https://www.postman.com/flight-geoscientist-85716189/workspace/public/collection/17243398-22594d1a-245c-4b75-8978-2a995812b8ff?action=share&creator=17243398

Servicio	URL
Servidor FHIR	http://lacpass.create.cl:8080/
Mediador IPS	http://lacpass.create.cl:3000/
Broadcast	http://lacpass.create.cl:5000/

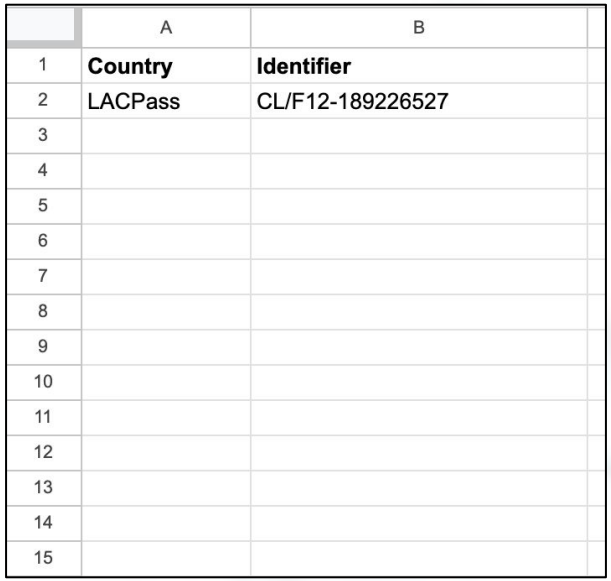
CREATE

Pacientes de Ejemplo

Sample patients

Se creó un excel compartido para subir pacientes de ejemplo con sus IPS cargados

https://docs.google.com/spreadsheets/d/16yH6T8evirLkTLgu2SgyWbu6YenUX5JMJeB9aYOhTkY/edit?usp=sharing



	A	B
1	**Country**	**Identifier**
2	LACPass	CL/F12-189226527
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

CREATE