LAC Pass Projectathon

MHD Presentation

31-05-2022

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Agenda

- Overview MHD Profiles
- Actors and Transactions
- Use Case 1: Publication of new Documents
- Use Case 2: Discovery and Retrieval of existing documents
- No-peer & Peer-to-peer tests
- Gazelle Tools
- Documentation

Overview

The MHD Profile enables sharing of patient documents to, or from, mobile or constrained devices.
Some IHE profiles, especially Cross-Enterprise Document Sharing (XDS), describe sharing of patient document in less constrained environments, and many of the concepts from those profiles are applicable to the MHD environment.

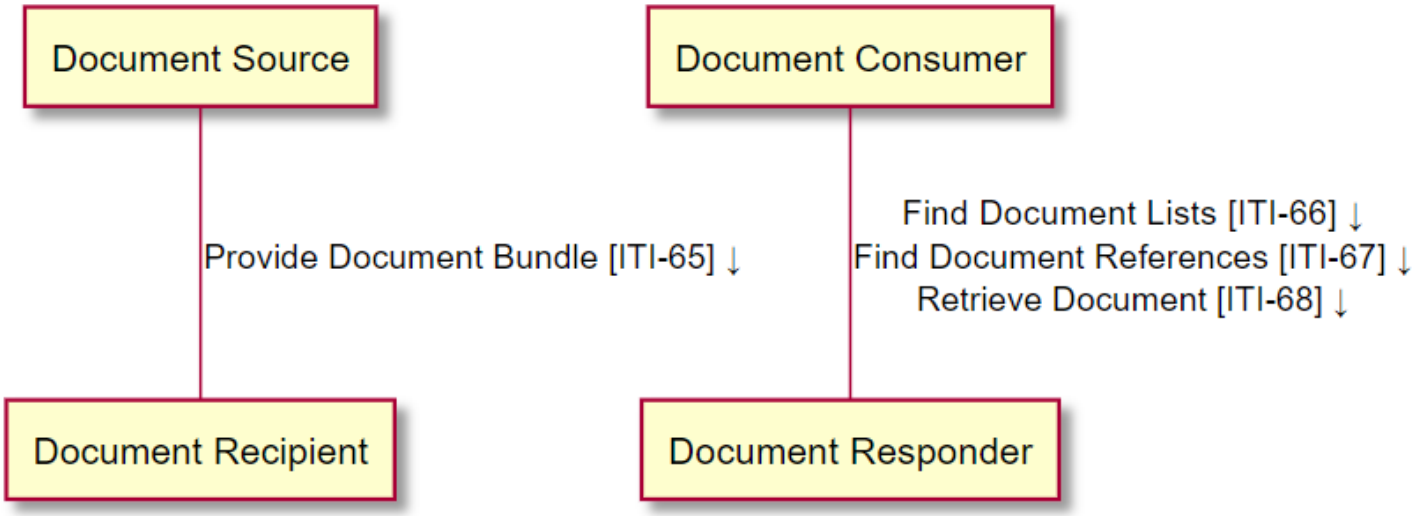
Actors

- Document Source
- Document Recipient
- Document Consumer
- Document Responder

Transactions

- Provide Document Bundle [ITI-65]
- Find Document Lists [ITI-66]
- Find Document References [ITI-67]
- Retrieve Document [ITI-68]

Actors and Transactions

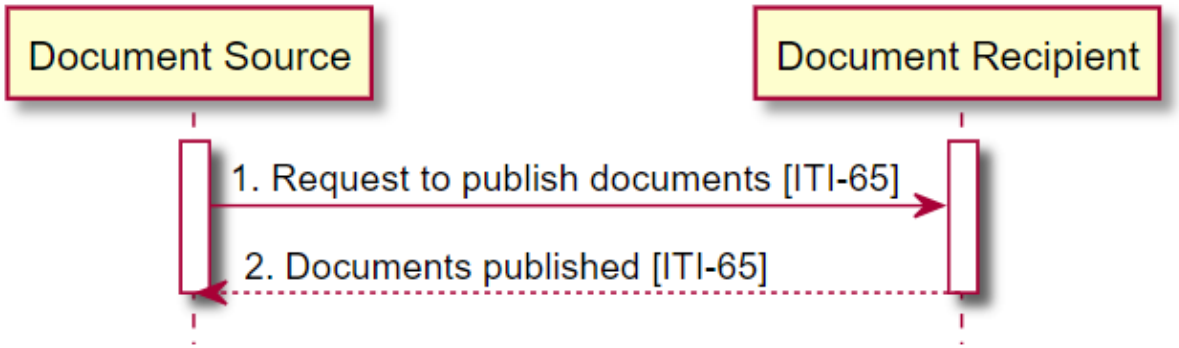


Document Source

The Document Source is the producer and publisher of SubmissionSet, Folder, DocumentReference, and documents to a Document Recipient.

The following CapabilityStatements define the Actor capabilities

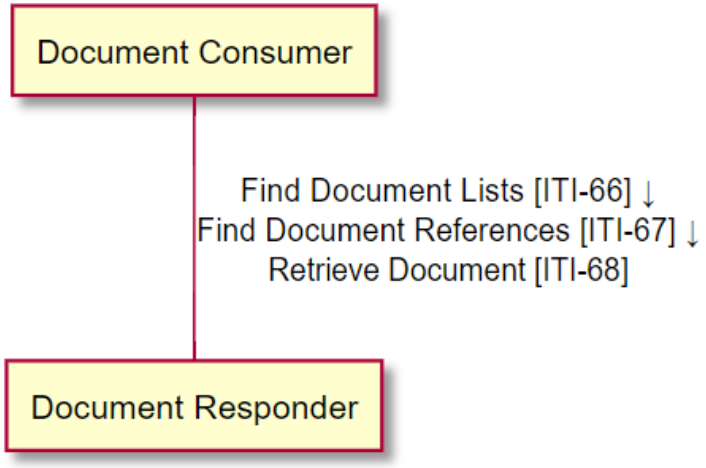
- Document Source
- Document Source implementing Comprehensive Metadata Option
- Document Source implementing UnContained Reference Option



Document Consumer

This is the **Requirements** CapabilityStatement for a Document Consumer. The Document Consumer may declared the UnContained References Options.

This Actor is allowed to use Find Document List ITI-66, Find Document References ITI-67, and Retrieve Document ITI-68 transactions.
The Document Consumer Actor should be robust for unconstrained DocumentReference and List Resources, as the results returned to the Document Consumer from the Document Responder may not follow the conformance constraints.

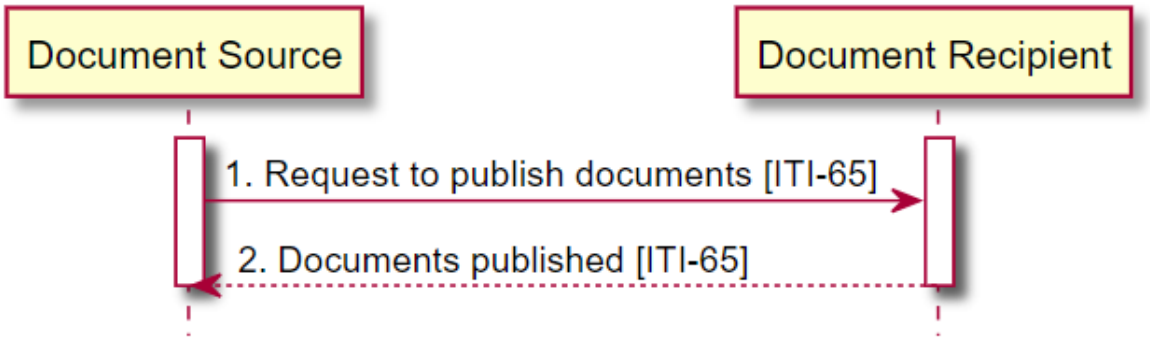


Document Recipient

The Document Recipient receives documents and metadata sent by the Document Source.

The following CapabilityStatements define the Actor capabilities

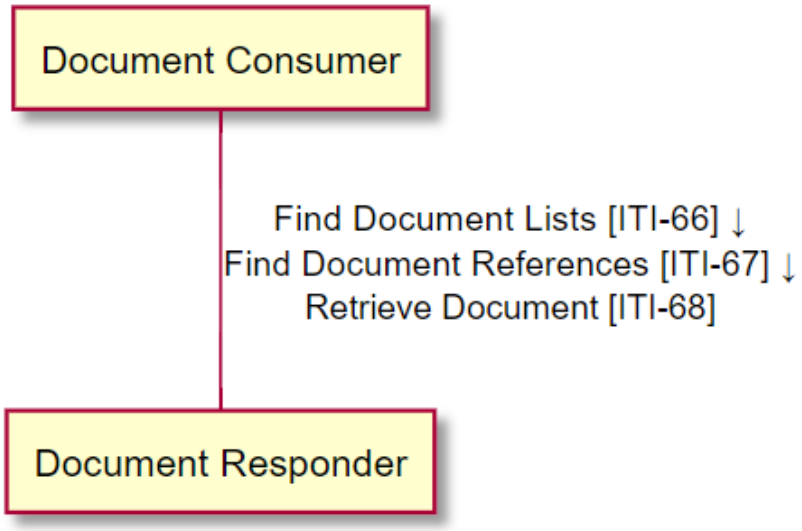
- Document Recipient
- Document Recipient implementing Comprehensive Metadata Option
- Document Recipient implementing UnContained Reference Option



Document Responder

The Document Responder responds with SubmissionSet, Folder, and DocumentReference metadata in response to a search request, and responds with documents in response to a retrieve request, from a Document Consumer. The following CapabilityStatements define the Actor capabilities

Document Responder



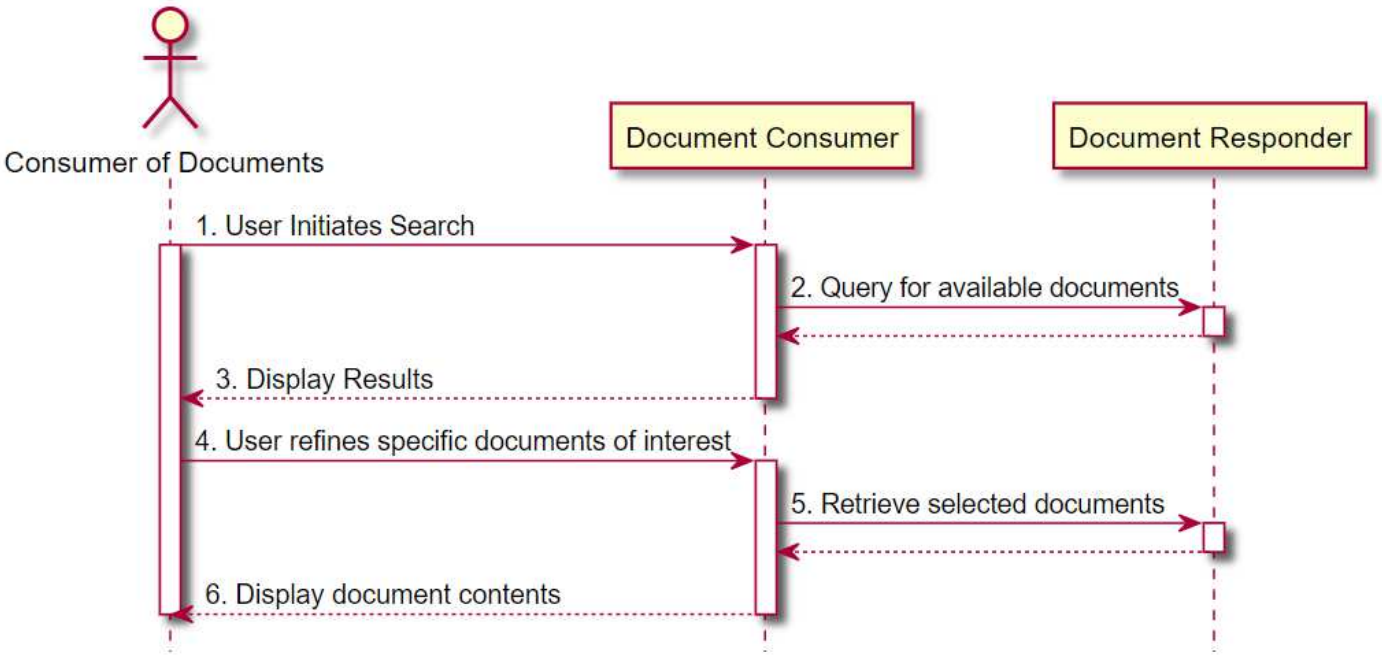
Use Case 1: Publication of new Documents

Publication of new documents Use Case Description

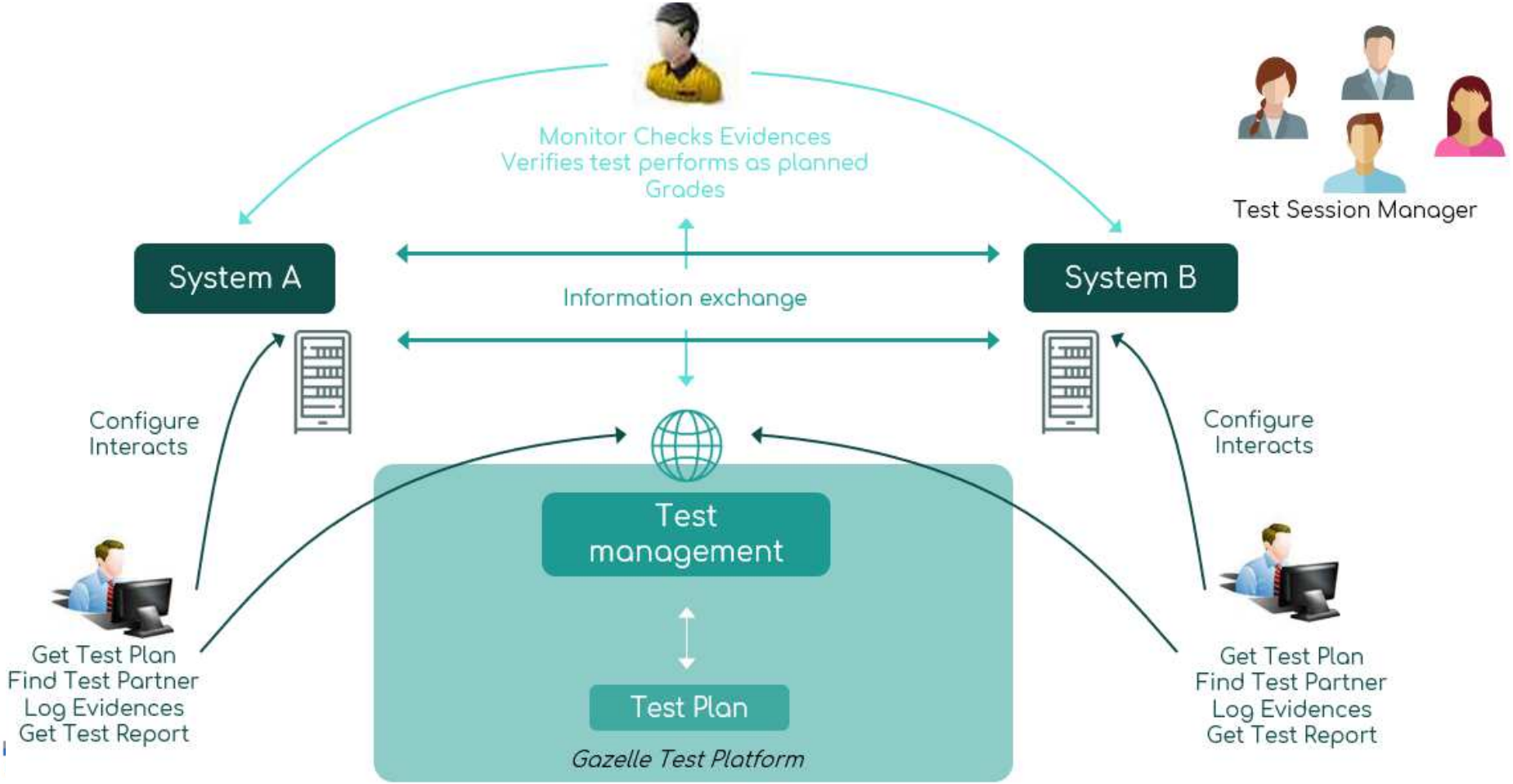
In this use case, a new document or set of documents is published from the mobile device. For example, a mobile device is a medical device that is submitting new health measurements, or a mobile device has a user-interface used to capture user input such as a Patient Consent. This device-created content is formed by the application, implementing the MHD Document Source, into a Document and submitted with the metadata.



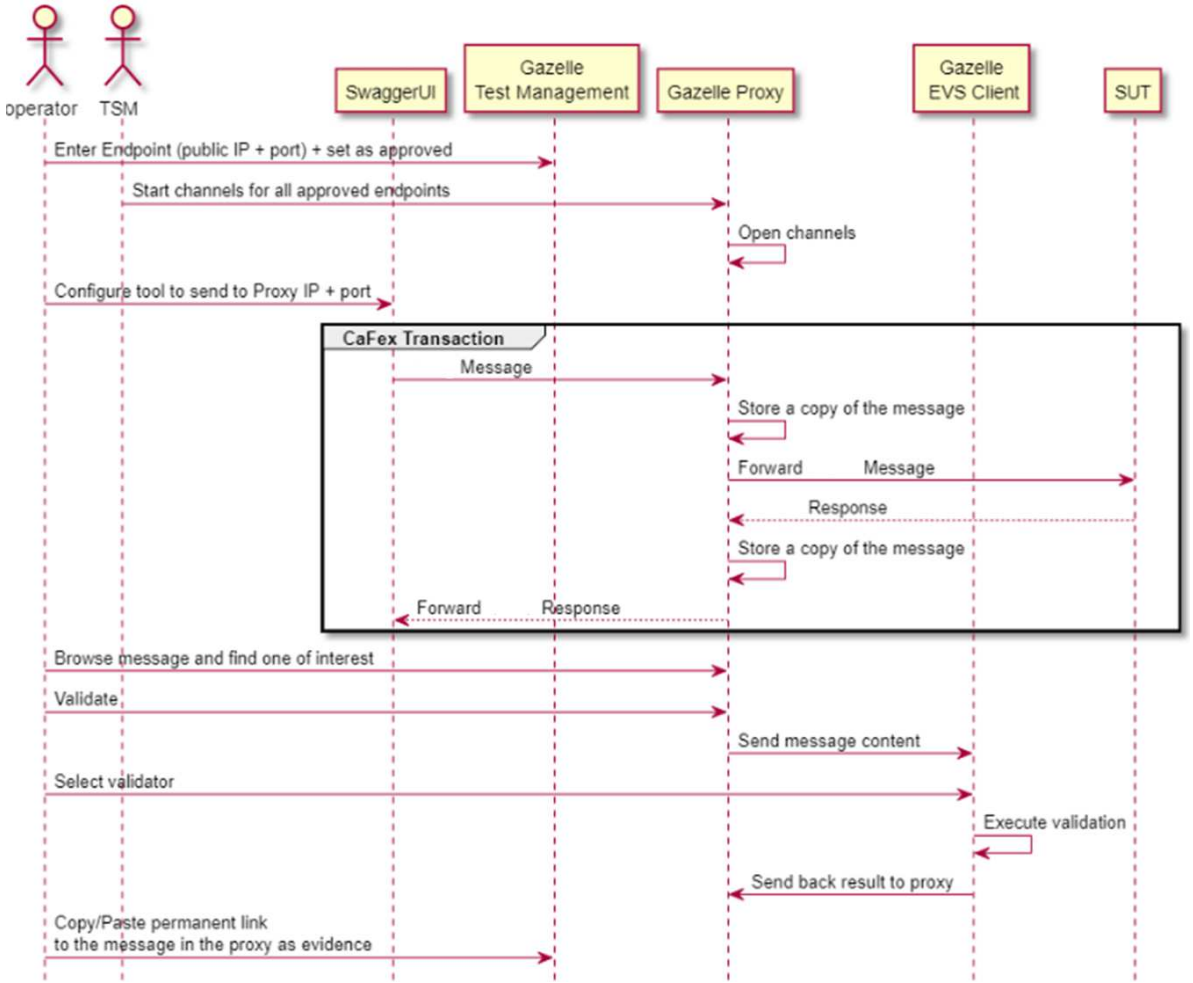
Use Case 2: Discovery and Retrieval of existing documents



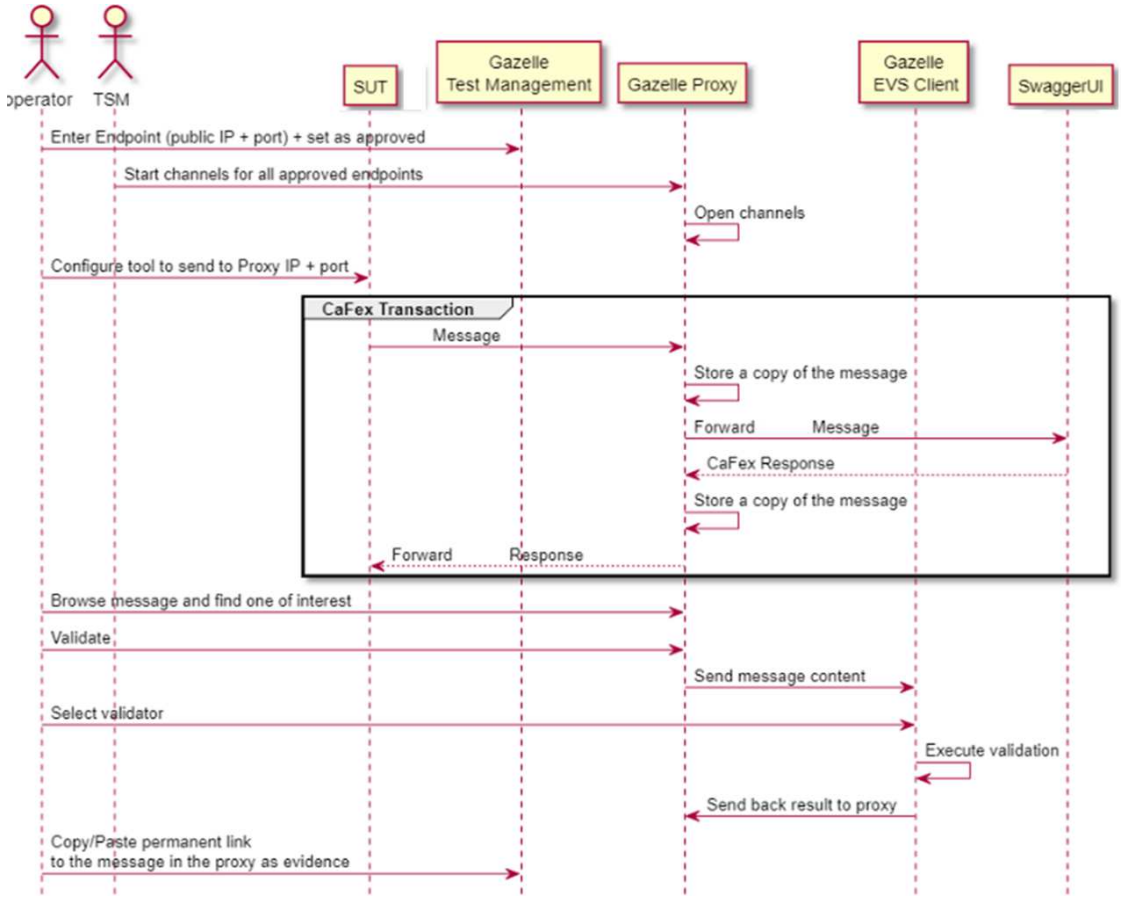
Peer-to-peer test



No peer test – SUT as a Server



No peer test – SUT as Client



Documentation

https://profiles.ihe.net/ITI/MHD/1334_overview.html

https://www.ihe.net/uploadedFiles/Documents/ITI/IHE_ITI_Suppl_MHD_Rev1.3_TI_2014-10-14.pdf

Demonstration