Introduction to MHD profile

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Training Agenda

Friday, August 26th

- Overview of PIXm profile
- Overview of PDQm profile
- Demo testing in the Patient Manager tool

Monday, August 29th

- Overview of MHD profile
- Demo testing

Tuesday, August 30th

- Overview of ATNA profile
- Overview of CT profile
- Demo testing in the Gazelle Security Suite Tool



Mobile access to Health Documents (MHD)

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

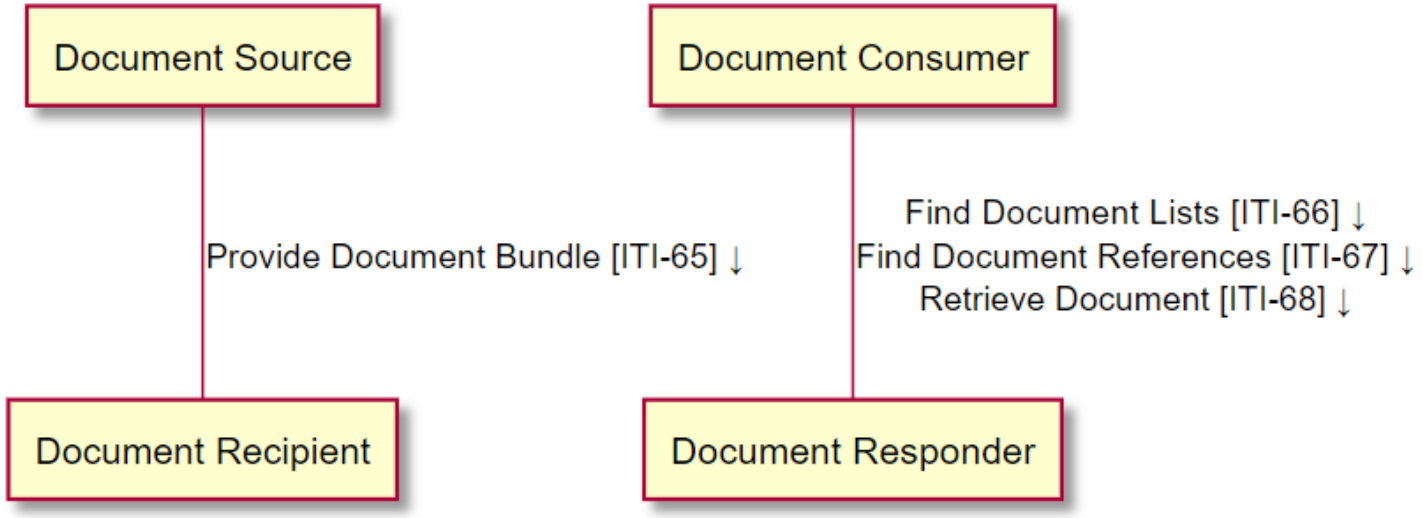
The MHD Profile enables sharing of patient documents to, or from, mobile or constrained devices. Some IHE profiles, especially Cross-Enterprise Document Sharing (XDS), describe sharing of patient document in less constrained environments, and many of the concepts from those profiles are applicable to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

- Provide FHIR based methods of publishing and accessing Document Sharing
- Enable publication of Document by Apps
- Enable Discovery of available document by Apps
- Retrieval of the Document content

- XDS on FHIR

- Details : https://profiles.ihe.net/ITI/MHD/

Actors and Transactions



Reference :
https://profiles.ihe.net/ITI/MHD/1331_actors_and_transactions.html

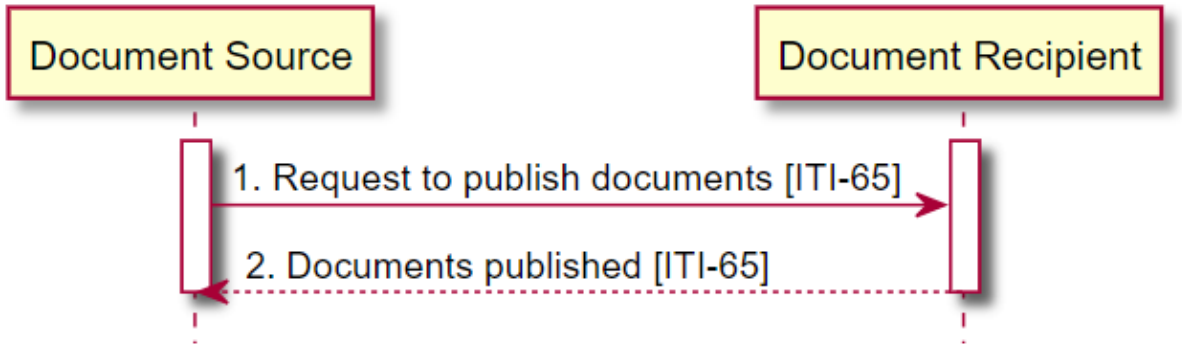
Actors and Transactions

Actors/Transactions	Role
Document Source ITI-65	Sends documents and metadata to the Document Recipient
Document Recipient ITI-65	Accepts the document and metadata sent from the Document Source
Document Consumer ITI-66	Requests List Resources, matching the supplied set of criteria, from the Document Responder
Document Responder ITI-66	Returns List Resources that match the search criteria provided by the Document Consumer
Document Consumer ITI-67	Requests a list of DocumentReference Resources, matching the supplied set of criteria, from the Document Responder
Document Responder ITI-67	Returns DocumentReference Resources that match the search criteria provided by the Document Consumer
Document Consumer ITI-68	Requests a document from the Document Responder
Document Responder ITI-68	Serves the document to the Document Consumer

Document Source

The following CapabilityStatements define the Actor capabilities

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



Bundle

- DocumentReference
  Binary
- DocumentReference
  Binary
- List (Folder)
- Patient

Document Source

Reference :

MhdList Structure : https://profiles.ihe.net/ITI/MHD/StructureDefinition-IHE.MHD.Minimal.Folder.html

Patient Structure : http://hl7.org/fhir/R4/patient.html

MinimalDocumentReference Structure : https://profiles.ihe.net/ITI/MHD/StructureDefinition-IHE.MHD.UnContained.Comprehensive.DocumentReference.html

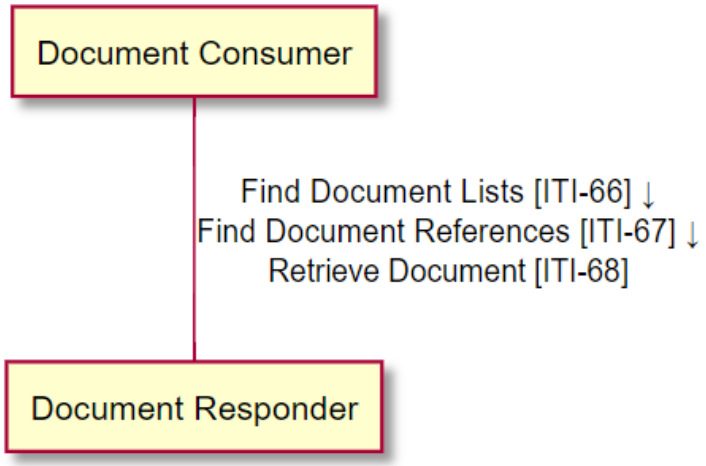
Example of Bundle transaction : http://hl7.org/fhir/R4/bundle-transaction.html

Document Consumer

This Actor is allowed to use :

- Find Document List ITI-66
- Find Document References ITI-67
- Retrieve Document ITI-68

The Document Consumer queries Document Responder for SubmissionSet, Folder, and DocumentReference metadata meeting certain criteria and may retrieve selected documents.



Document Consumer

Reference :

https://profiles.ihe.net/ITI/MHD/CapabilityStatement-IHE.MHD.DocumentConsumer.html

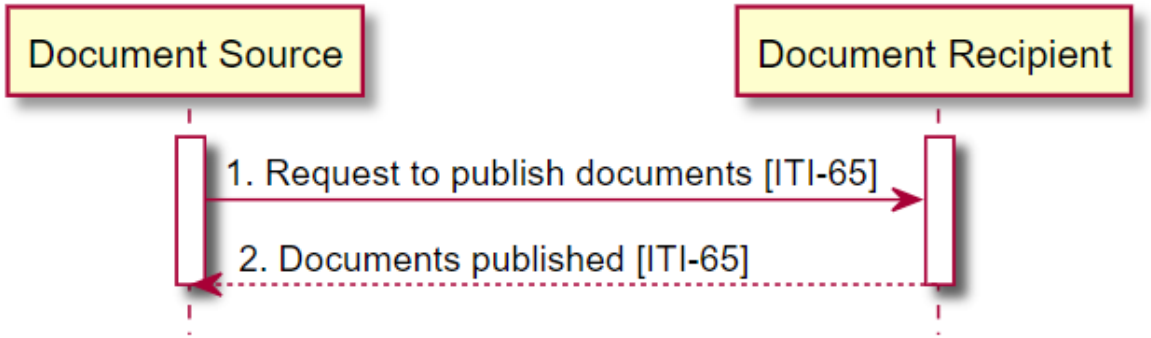
ITI 66 : https://profiles.ihe.net/ITI/MHD/ITI-66.html

ITI 67 : https://profiles.ihe.net/ITI/MHD/ITI-67.html

ITI 68 : https://profiles.ihe.net/ITI/MHD/ITI-68.html

Document Recipient

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

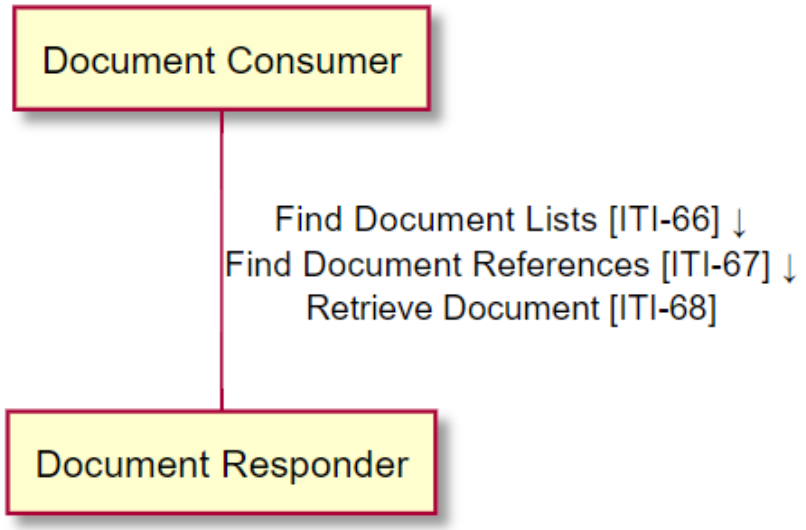


Reference :
https://profiles.ihe.net/ITI/MHD/CapabilityStatement-IHE.MHD.DocumentRecipient.Comprehensive.html

Document Responder

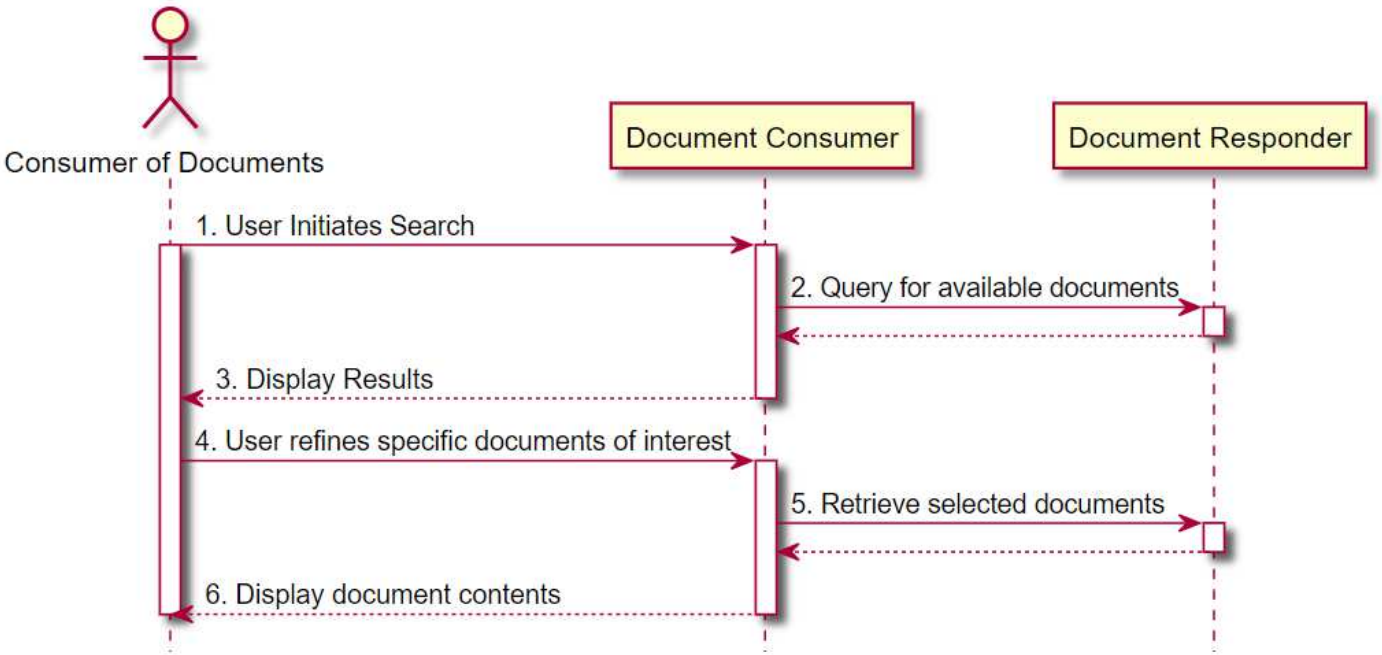
The Document Responder responds with SubmissionSet, Folder, and DocumentReference metadata in response to a search request, and it also responds with documents in response to a retrieve request from the Document Consumer.

Document Responder



Reference : https://profiles.ihe.net/ITI/MHD/CapabilityStatement-IHE.MHD.DocumentRecipient.Comprehensive.html

Use Case 1: Discovery and Retrieval of existing documents



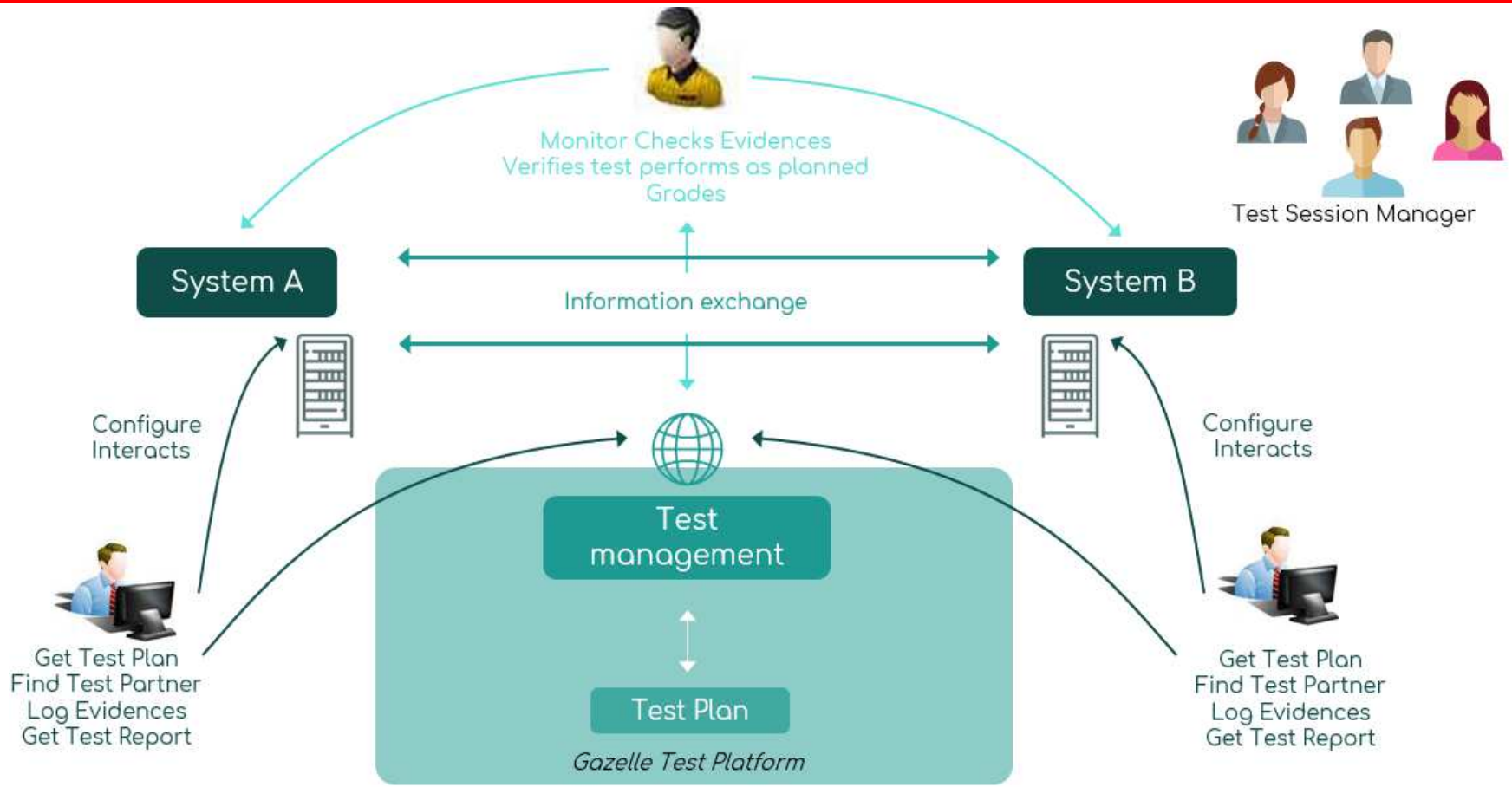
Use Case 2: Publication of new Documents

Publication of new documents Use Case Description

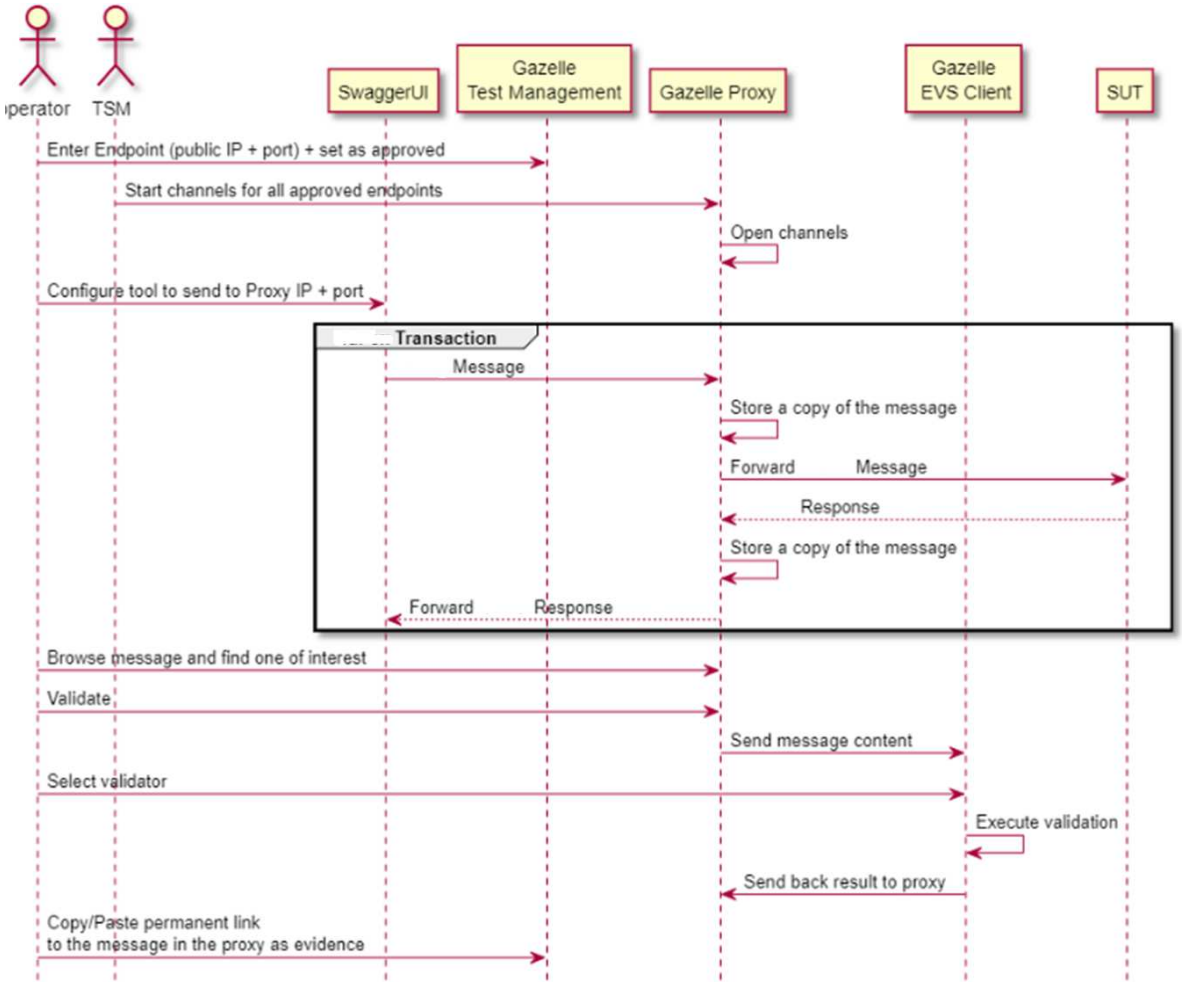
This use case presumes that the mobile device knows or discovers the patient identity. The patient identity might be obtained through some IHE transactional method such as the Patient Demographics Query for Mobile PDQm or Patient Identifier Cross-Reference for Mobile PIXm Profile. The patient id might simply be entered via some device interface, a user interface, or be specified in a configuration setting (e.g., mobile PHR application). The use case also allows for identity cross-referencing to be implemented by the Document Recipient.



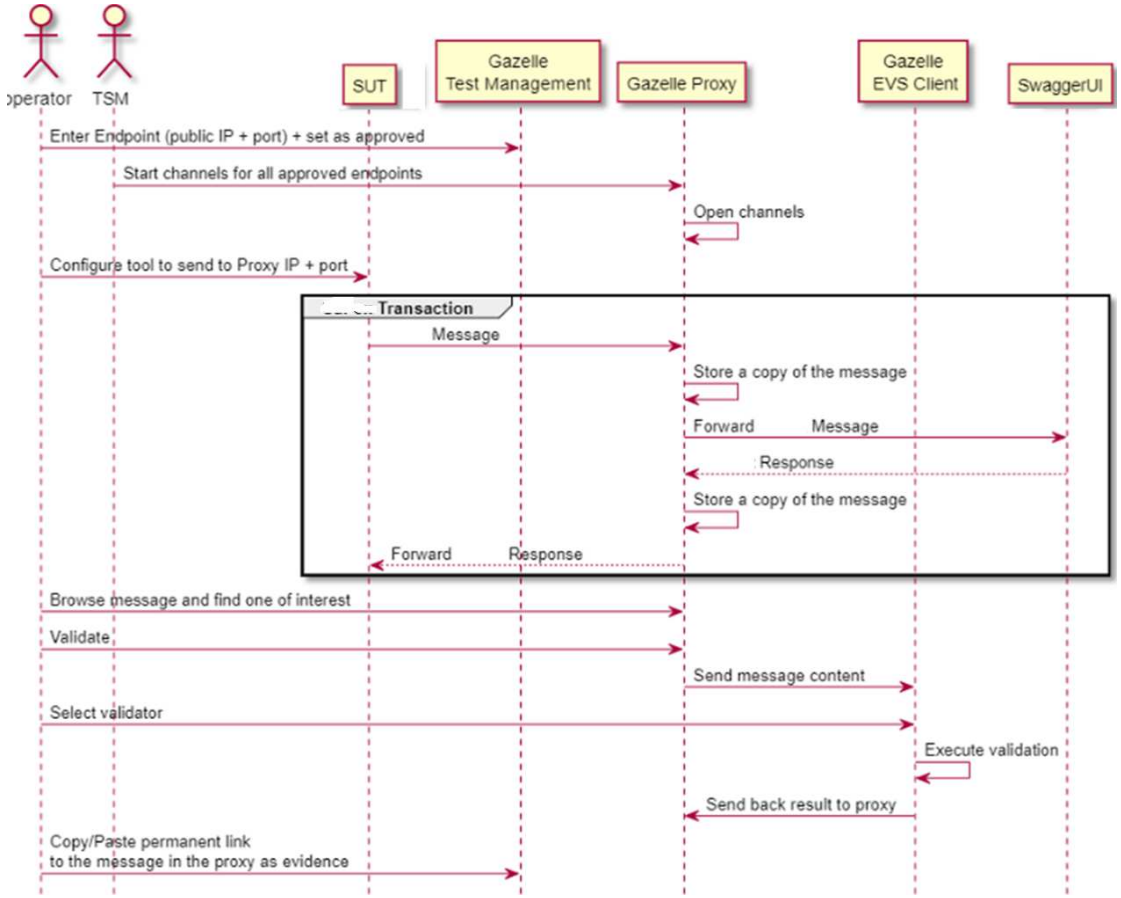
Peer-to-peer test



No peer test – System Under Test as Server



No peer test – System Under Test 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

https://wiki.ihe.net/index.php?title=IHE_Test_Tool_Information

- ITI 65

Questions ?