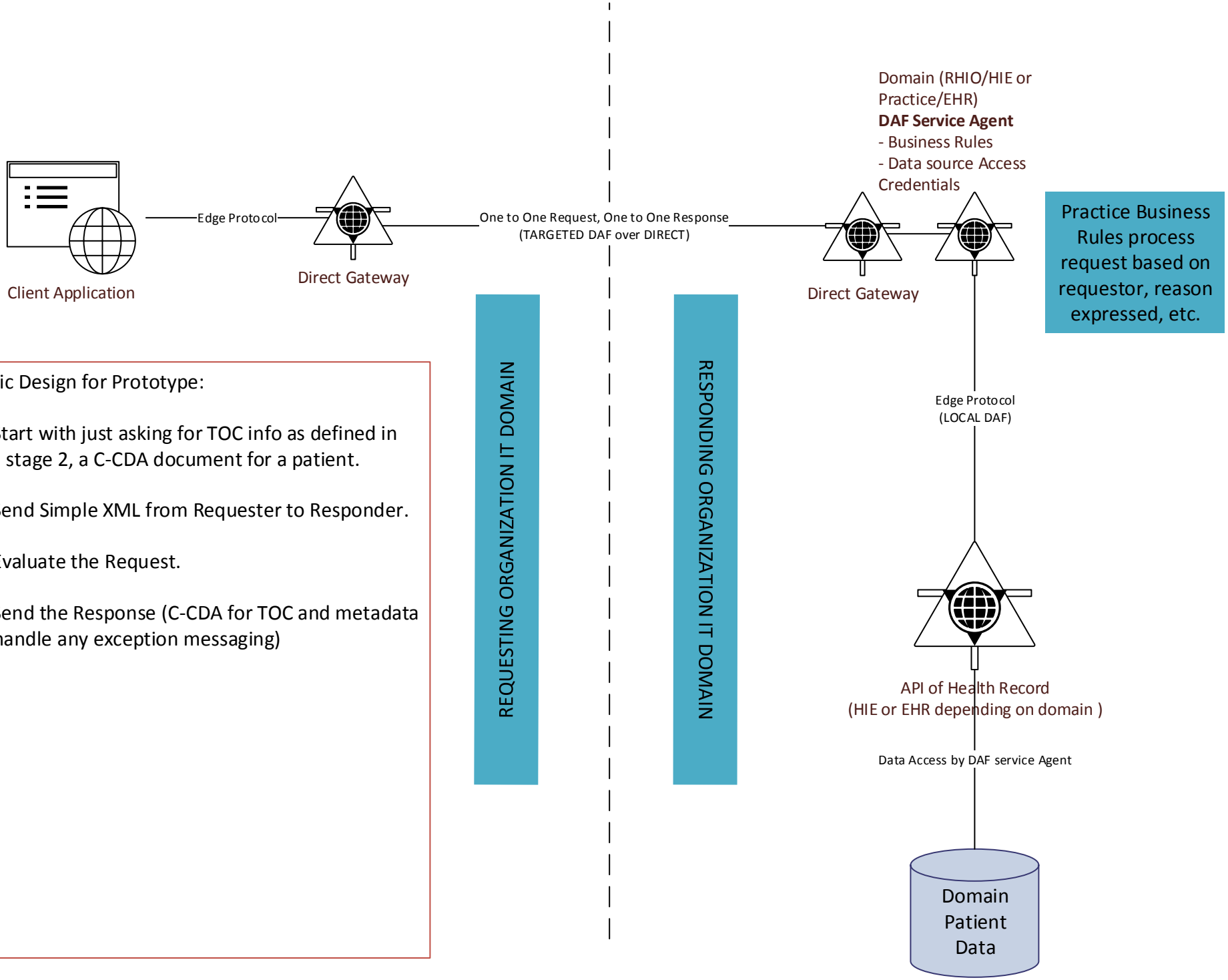


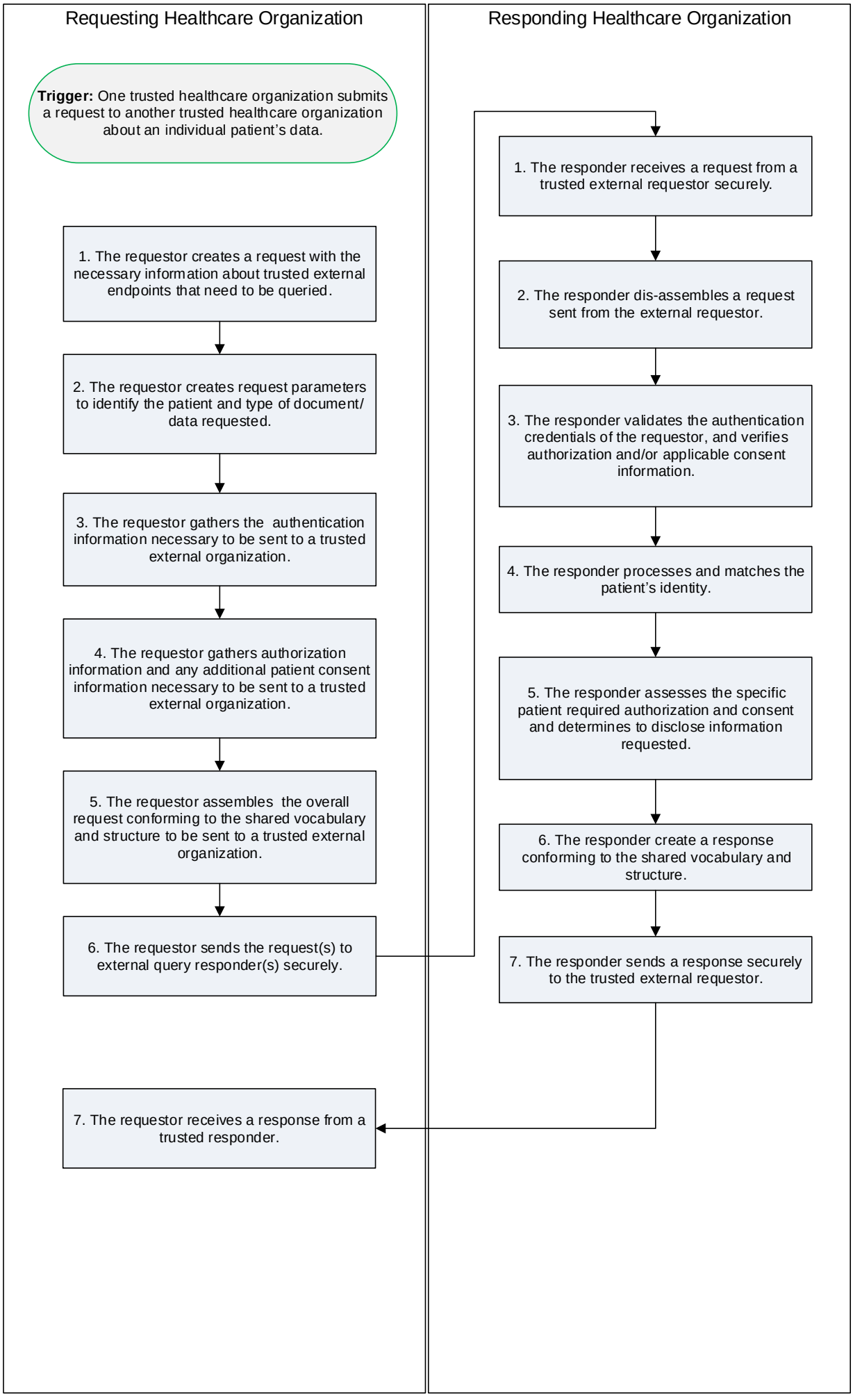
Basic Design for Prototype:

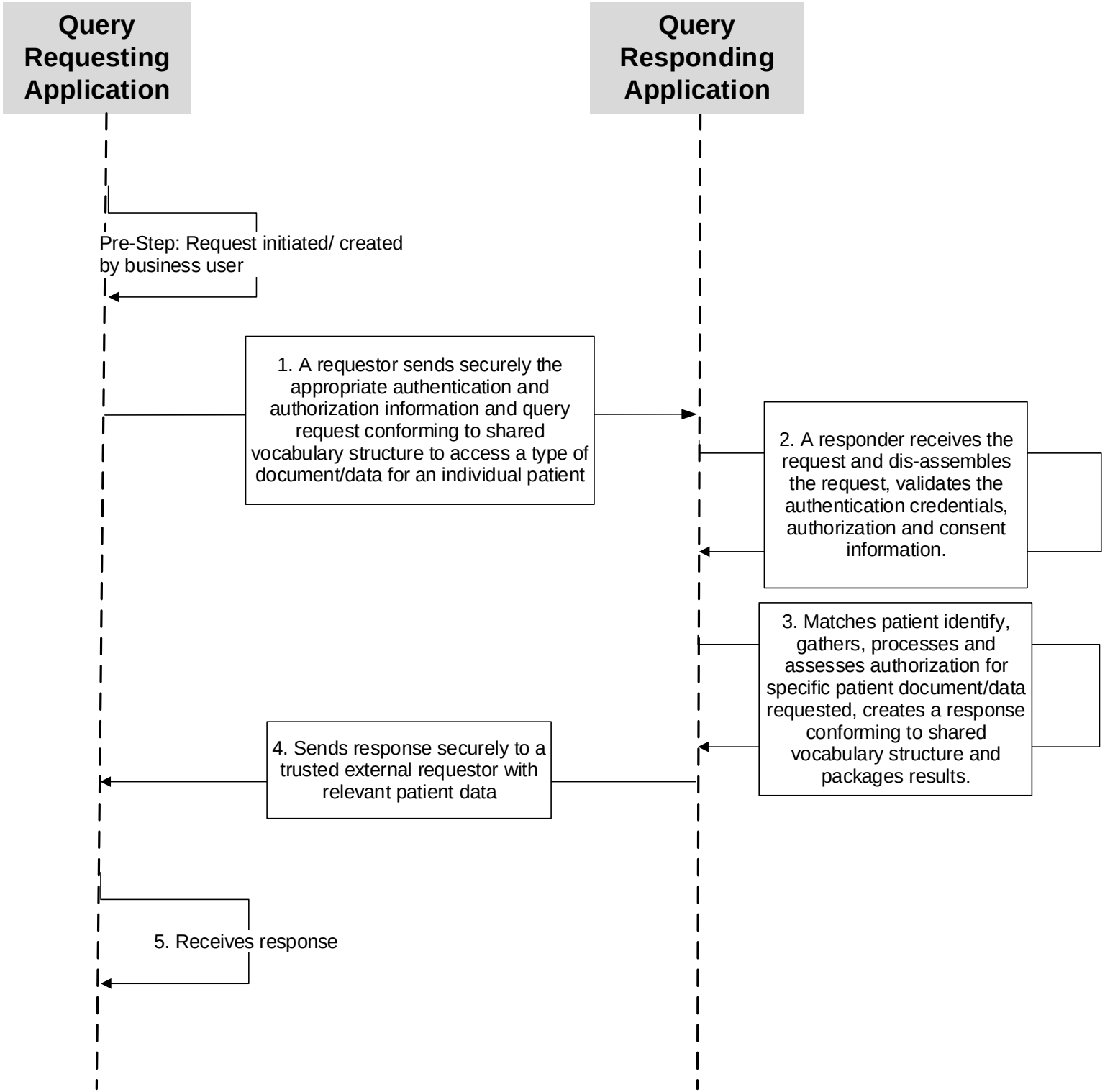
1) Start with just asking for TOC info as defined in MU stage 2, a C-CDA document for a patient.

2) Send Simple XML from Requester to Responder.

3) Evaluate the Request.

4) Send the Response (C-CDA for TOC and metadata to handle any exception messaging)


Requesting Healthcare Organization
Responding Healthcare Organization
Trigger: One trusted healthcare organization submits a request to another trusted healthcare organization about an individual patient's data.
1. The requestor creates a request with the necessary information about trusted external endpoints that need to be queried.
2. The requestor creates request parameters to identify the patient and type of document/ data requested.
3. The requestor gathers the authentication information necessary to be sent to a trusted external organization.
4. The requestor gathers authorization information and any additional patient consent information necessary to be sent to a trusted external organization.
5. The requestor assembles the overall request conforming to the shared vocabulary and structure to be sent to a trusted external organization.
6. The requestor sends the request(s) to external query responder(s) securely.
7. The requestor receives a response from a trusted responder.
1. The responder receives a request from a trusted external requestor securely.
2. The responder dis-assembles a request sent from the external requestor.
3. The responder validates the authentication credentials of the requestor, and verifies authorization and/or applicable consent information.
4. The responder processes and matches the patient's identity.
5. The responder assesses the specific patient required authorization and consent and determines to disclose information requested.
6. The responder create a response conforming to the shared vocabulary and structure.
7. The responder sends a response securely to the trusted external requestor.


Query Requesting Application
Query Responding Application
Pre-Step: Request initiated/ created by business user
1. A requestor sends securely the appropriate authentication and authorization information and query request conforming to shared vocabulary structure to access a type of document/data for an individual patient
2. A responder receives the request and dis-assembles the request, validates the authentication credentials, authorization and consent information.
3. Matches patient identify, gathers, processes and assesses authorization for specific patient document/data requested, creates a response conforming to shared vocabulary structure and packages results.
4. Sends response securely to a trusted external requestor with relevant patient data
5. Receives response