**SCHIEx EXCHANGE Interoperability Questionnaire **

This questionnaire will be used to assess your organizational capabilities in order to be able to connect to SCHIEx EXCHANGE. This questionnaire assumes that you have identified one or more software systems or applications that you will use to connect to the EXCHANGE. Complete one questionnaire per each system that you wish to onboard to the EXCHANGE. Please note that this addresses the minimal high level requirements for SCHIEx connectivity; some components may be optional. For detailed technical requirementsparticipants must refer to the **SCHIEx Interoperability Services Guide** publishedat [www.schiex.org](http://www.schiex.org).

* **Organization Information:**

Name:

Your Name:

Phone:

Email address:

* **Application/system Information:**

EHR or HIE System Name and Product Version:

Has this system implemented other IHE based connections? **Yes** [ ]  **No** [ ]

Has this system been tested at any Connect-a-thon for some or all of the relevant profiles in the past? **Yes** [ ]  **No** [ ]

Definitions: IHE – Integrating the Healthcare Enterprise PIX – Patient Identity Cross Reference

 XDS – Cross-enterprise Document Sharing BPPC – Basic Patient Privacy Consents

 ATNA – Audit Trail Node Authentication CT – Consistent Time

|  |  |  |
| --- | --- | --- |
|  | PIX: Patient Identity Source | Is your application capable of sending a PIX patient identity feed (PIX v2 ITI-8 or PIX v3 ITI-44)? Yes [ ]  No [ ] Is your application capable of supporting: PIX demographic feeds? Yes [ ]  No [ ] PIX demographic updates? Yes [ ]  No [ ]  PIX patient merges? Yes [ ]  No [ ]   |
|  | **PIX: Patient Identity Consumer** | Is your application capable of sending a PIX query(PIX v2 ITI-9 or PIX v3 ITI-45)?  **Yes** [ ]  **No** [ ]  |
|  | **PIX: Patient Identity Source** | Is your application capable of providing patient SSN (PID-19), if available? **Yes** [ ]  **No** [ ]  |
|  | **XDS: Xds.b Repository /Stable Document Source or On Demand Document Source**  | Is your system capable of responding to a Retrieve Document Set (ITI-43)? **Yes** [ ]  **No** [ ] Is your system capable of sending UTC based timestamps where specified in the IHE specifications (e.g. ITI-41, ITI-42, ITI-61) **Yes** [ ]  **No** [ ] **If you plan to register stable** documents with SCHIEx Document Registry does your systeminclude an Xds.b document repository? **Yes** [ ]  **No** [ ]  Note: The Xds.b repository must be available via open internet standards and cannot be blocked by a firewall or rely on VPN connectivity. **If you do not have an Xds.b repository information regarding hosted options is available**.Is your system capable of * sending a Provide and Register transaction (ITI-41) to your Xds.b repository? **Yes** [ ]  **No** [ ]
* sending an ITI-41 with RPLC (replace)? **Yes** [ ]  **No** [ ]

Is your Xds.b document repository capable of * sending a Register Document Set ITI-42) to the SCHIEx Document Registry? **Yes** [ ]  **No** [ ]

Is your system capable of managing a unique digital certificate for the Participant organization? **Yes** [ ]  **No** [ ] **OR****If you plan to register on demand** documents with SCHIEx Document Registry is your system capable of sending aRegister Document transaction (ITI-61)? **Yes** [ ]  **No** [ ]  |
|  | **XDS: Document Consumer** | Is your application capable of sending a Registry Query (ITI-18)? **Yes** [ ]  **No** [ ] Does the query include “On-demand” as well as stable documents? **Yes** [ ]  **No** [ ]  |
|  | **XDS: Document Consumer** | Is your application capable of sending a Retrieve Document Set (ITI-43)? **Yes** [ ]  **No** [ ]  |
|  | **XDS: Document Source** | Is your application capable of building CDA R2 compliant documents? **Yes** [ ]  **No** [ ]  |
|  | **Secure/authenticated Communication** | Is your application and Xds.b repository capable of mutual Transport Layer Security (TLS) 1.0 secured communication? **Yes** [ ]  **No** [ ]  Does your application support IHE Consistent Time? **Yes** [ ]  **No** [ ] Does your application support IHE ATNA specifications? **Yes** [ ]  **No** [ ] (SCHIEx expects the edge system to maintain its own ATNA audit logs and the logs need to be compliant with the IHE specifications) |
|  | **BPPC : Basic Patient Privacy Consent Profile** | Are you able to create and register BPPC document from your edge application? **Yes** [ ]  **No** [ ] (If no, SCHIEx offers a web tool to manage SCHIEx level opt out decisions.) |
|  | **Sensitive Data** | Does your system have a method to filter/exclude data that the Participant organization deems as subject to special protection from documents that are registered with SCHIEx. **Yes** [ ]  **No** [ ]  |
|  | **Multiple Community IDs** | Is your system capable of including the Home Community Id in the Retrieve Document Set (ITI-43) transaction? **Yes** [ ]  **No** [ ] (The Home Community Id is sent by SCHIEx in response to an ITI-18 for each document entry in the response. This will then have to be sent as part of a subsequent ITI-43 to SCHIEx) |
|  | **Document Title** | Is your system capable of configuring the document title in the XDS metadata (ITI-42/ITI-41) to reflect the name of your organization or site (rather than a generic title such as “medical summary”)? **Yes** [ ]  **No** [ ]  |
|  | **XDS Metadata** | Does your system support configuring specific codes for XDS metadata: (Required and recommended codes will be shared based on the document types being registered.) XDSSubmissionSet.contentTypeCode Yes [ ]  No [ ] XDSDocumentEntry.classCode Yes [ ]  No [ ] XDSDocumentEntry.confidentialityCode (expect <Code code="N" display="Normal" codingScheme="2.16.840.1.113883.5.25"/>) Yes [ ]  No [ ] XDSDocumentEntry.formatCode Yes [ ]  No [ ] XDSDocumentEntry.healthCareFacilityTypeCode Yes [ ]  No [ ] XDSDocumentEntry.practiceSettingCode Yes [ ]  No [ ] XDSDocumentEntry.typeCode Yes [ ]  No [ ] Does your system have the ability to base the following XDS metadata values on a root OID specific to the participant: (SCHIEx can issue root OID or customer can use existing OID. OID in use has to be a registered OID)XDSSubmissionSet.sourceId Yes [ ]  No [ ] XDSDocumentEntry.uniqueId Yes [ ]  No [ ] XDSSubmissionSet.uniqueId Yes [ ]  No [ ]  |
|  | **Test System** | Do you have a test system to use for SCHIEx validation testing? Yes [ ]  No [ ] Do you have the capability to ensure that you only send transactions on test patients during SCHIEx validation testing? Yes [ ]  No [ ]  |
|  | **Document Type and Content** | What document type(s) will the Participant organization register with SCHIEx? Please be as specific as you can. (E.g. CCD, HITSP C32, MU1 HITSP C32, CCDA, MU2 Transition of Care Inpatient CCDA, C62 etc.) Is the Document **Encounter Specific** [ ] or a **Patient Level Summary** [ ]  ? |
| 1. Are
 | **Immunization reporting?** | Are you interested in using SCHIEx for immunization reporting? Yes [ ]  No [ ]  If yes, does you system support one or multiple document source ID’s? \_\_\_\_\_\_\_\_\_ Have you registered with DHEC? Yes [ ]  No [ ] Have you performed any content testing with DHEC? Yes [ ]  No [ ]  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|   | **Content Domain** | **Present?** | **Coding Systems for Highlighted Domains****( ex: ICD-9 CM DX or Immun. CPT or CVX)** |  |  |  |  |
|  |  |  |  |
| a. | Advance Directive  | Yes [ ]  No [ ]  |   |  |  |  |  |
| b. | Allergy / Drug Sensitivity | Yes [ ]  No [ ]  |  |  |  |  |  |
| c. | Comment  | Yes [ ]  No [ ]  |   |  |  |  |  |
| d. | Condition /Problem | Yes [ ]  No [ ]  |   |  |  |  |  |
| e. | Encounters | Yes [ ]  No [ ]  |   |  |  |  |  |
| f. | Healthcare Provider  | Yes [ ]  No [ ]  |   |  |  |  |  |
| g. | Immunization  | Yes [ ]  No [ ]  |   |  |  |  |  |
| h. | Information Source (person or organization that provided the information) | Yes [ ]  No [ ]  |   |  |  |  |  |
| i. | Insurance Provider  | Yes [ ]  No [ ]  |   |  |  |  |  |
| j. | Language Spoken  | Yes [ ]  No [ ]  |   |  |  |  |  |
|  |  |  |  |
| k. | Medication – Prescription andNon- Prescription | Yes [ ]  No [ ]  |   |  |  |  |  |
|  |  |  |  |  |
| l. | Personal Information (Name, address, phone, gender, DOB, marital status, race, ethnicity, etc.) | Yes [ ]  No [ ]  |   |  |  |  |  |
| m. | Plan of Care ( includes active or pending orders, interventions, encounters, services, procedures, events of clinical significance for care) | Yes [ ]  No [ ]  |   |  |  |  |  |
| n. | Pregnancy  | Yes [ ]  No [ ]  |   |  |  |  |  |
| o. | Procedure  | Yes [ ]  No [ ]  |   |  |  |  |  |
| p. | Support  | Yes [ ]  No [ ]  |   |  |  |  |  |
| q. | Vital Signs  | Yes [ ]  No [ ]  |   |  |  |  |  |
| r. | Results (Chemistry/Hematology) | Yes [ ]  No [ ]  |   |  |  |  |  |
| s. | Discharge Summary | Yes [ ]  No [ ]  |   |  |  |  |  |
| t. | Consults/Referrals | Yes [ ]  No [ ]  |   |  |  |  |  |
| u. | Results of Diagnostic Studies (Notes) | Yes [ ]  No [ ]  |   |  |  |  |  |
| v. | Procedure Notes | Yes [ ]  No [ ]  |   |  |  |  |  |
| w. | History & Physicals (List sections in column to the right - such as Social History, Family History, Assessment, Physical Exam. etc.) | Yes [ ]  No [ ]  |   |  |  |  |  |

High Level Overview of Document Sharing

(from SCHIEx Interoperability Services Guide)

**Step 1 – Provide Patient Information**

Patient Identity Feed – ITI-8

Adding patient to domain

SCHIEx PIX Manager

Participant

The participant, the Patient Identity Source, sends a Patient Identify Feed (ITI-8) transaction to add/update a patient in the domain specified in the transaction. SCHIEx PIX Manager then handles the cross-referencing of patients across multiple domains and ensures that any documents in the Registry will be associated with this patient.

Patient information must be provided to and processed by the SCHIEx PIX Manager before documents can be submitted or retrieved for that patient.

**Step 2 – Provide Documents**

**(Note: SCHIEx also supports systems with “on-demand” document registrations ITI- 61)**

Patient Provide and Register Document Set-b – ITI-41

Registering Documents
 ITI-42

Participant

SCHIEx XDS Registry

XDS Repository

Now that a patient is in the system, the participant can begin adding documents associated with that patient. The participant, the Document Source, will send a Provide and Register Document Set-b (ITI-41) transaction to an XDS Repository.

The results of this transaction are:

* The document(s) in the transaction are then stored in a Repository and available for retrieval
* The provided documents are registered with the SCHIEx XDS Registry

**Step 3 – Retrieve Documents**

6. Retrieve Document Set Response

1. PIX Query – ITI-9

Participant managed XDS Repository

Participant

SCHIEx PIX Manager

5. Retrieve Document Set – ITI-43

2. List of matching PatiendIDs/Domains

3. Query Registry (use SCHIEx RegistryAffinity Domain based PatientID) – ITI-18

4. Repository and Document IDs

SCHIEx XDS Registry

After patient information has been provided and there are documents associated with the patient, the general flow required to retrieve available documents for a patient is as follows:

* Participant sends a PIX Query (ITI-9) transaction. The SCHIEx PIX Manager responds with a list of cross-referenced matching patient IDs/domains. The patient id associated with the “SCHIEx” Registry Affinity Domain should be the id used for registry transactions
* Participant queries the SCHIEx XDS Registry via a Query Registry (ITI-18) transaction using the cross-referenced SCHIEx Registry Affinity Domain based identifier that was received from the PIX Manager. The SCHIEx XDS Registry returns URI(s) and document information.
* Participant queries the appropriate repositories with the provided URI(s) and document information via Retrieve Document Set (ITI-43) transaction. The queried repositories return a document set.

The result of these transactions will be a CDA document set that may contain demographics, problems, procedures, medications, allergies, etc. (depending on the information available at that site). This document set will contain the clinical information from other SCHIEx participants about the patient in question.