**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 and  Non- 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.