DSS HIE PILOT PROJECT:

PILOT PARTICIPANT INTEGRATION TEST PLAN
APRIL 15, 2020

eHealthConnecticut, Hartford Hospital and Misys Open Source Solutions (MOSS) are in the process of finalizing the Health Information Exchange (HIE) platform that will reside at the Connecticut Hospital Association (CHA). This document provides an outline of the testing activities for the DSS HIE Pilot Project. There are three distinct phases of testing. Those phases are unit, system and integration testing. Each phase and associated activities are described below:

Unit Testing

During the unit testing phase, pilot participants will work with their developers/vendors to ensure that all published transactions conform to the technical specification provided by Hartford Hospital and MOSS. Additionally, pilot participants will need to verify that the data contained in those messages accurately reflect the data in their source systems. The data include demographic and consent information in registration transactions, and medical information in the Continuity of Care Documents (CCD's) generated by your system(s).

Upon completion of these tasks, pilot participants will provide written unit test sign off and are now prepared for the system test phase.

System Testing

HIE Platform System Testing

Hartford Hospital and MOSS are executing a system test to test all components of the HIE platform. This testing is being executed on servers at Hartford Hospital, and will continue after those servers are moved to CHA.

SMC Partners (SMC) has installed a server in their location dedicated to eHealthConnecticut, and Hartford Hospital has installed a copy of the HIE platform on that server. SMC Partners is executing an independent system test on behalf of eHealthConnecticut and DSS. SMC Partners is generating patient registration transactions and CCD documents and, like Hartford Hospital and MOSS, testing the HIE components. As SMC identifies issues, they are being investigated and remediated by Hartford Hospital and MOSS on the Hartford Hospital system. Periodically a new release is generated and installed on the SMC server for continued testing.

<u>Pilot Participant System Testing</u>

As part of the system test phase, pilot participants and their developers will connect to the eHealthConnecticut testing platform located at CHA to ensure that their systems can successfully register patients, submit documents, and change patient consent. They will also verify that they can view patient data via the MOSS portal. At a minimum, the pilot participants must perform the following tasks:

1. Register a patient in the exchange with an unknown consent.
2. Login to the portal and verify that the patient does not appear in the portal.
3. Send a second registration message for the same patient changing the consent to opt-in.
4. Login to the portal and verify that the patient is now visible in the portal.
5. Submit a CCD for the patient.
6. Login to the portal and ensure that the document appears in the portal and the data are correct.
7. Send a third registration message for the same patient changing the consent to opt-out.
8. Login to the portal and verify that the patient and his/her documents are not visible in the portal.
9. Send a forth registration message for the same patient changing the consent to opt-in.
10. Login to the portal and verify that the patient and documents are again visible in the portal.

Upon completion of the system test phase, pilot participants will provide written sign off and are now prepared to participate in the integration test phase.

Integration Testing

On a date to be determined, eHealthConnecticut is planning to perform an integration test involving all pilot participants. During this integration test we envision that pilot participants will submit transactions for common patients and ensure that those transactions are accurately reflected in the exchange. A more detailed test script will be developed, but the following types of test scenarios will be executed.

1. Participant A registers a patient with an opt-in consent and submits a document.
2. All participants login to the portal and ensure they can see the new patient and view the document.
3. Participant B submits a transaction to change the patient's consent status to opt-out.
4. All participants login to the portal and verify that the patient and documents are no longer visible.
5. Participant C submits a document to change the patient's consent back to opt-in and submits a new document.
6. All participants login to the portal and verify that the patient and documents are visible.
7. Participants D and E submit new documents and all participants view those documents in the portal.
8. All participants log in as users with different roles to see that the role-based security system screens certain documents from certain users.
9. eHealthConnecticut verifies that all transactions are appropriately logged in the audit trail.

Upon successful completion of the integration test, eHealthConnecticut will provide MOSS and Hartford Hospital with final acceptance test sign off. At that time MOSS and Hartford Hospital will

move ahead with a production release. After the servers at CHA are moved to production, the test environment will be housed on the dedicated server at SMC. Any required system fixes or enhancements will be implemented by Hartford Hospital/MOSS on the SMC server and tested there before being moved to the production environment.

Please provide any feedback via email to scleary@gosmcpartners.com and cthompson@gosmcpartners.com.