Updox SMTP Edge Protocol Tool Instructions

6/9/2017

I. Introduction

The Updox SMTP Edge Protocol Tool enables Updox EHR partners using Direct messaging APIs to demonstrate the SMTP edge protocol requirement in the 2015 ONC Certification (b1) Transitions of Care module. Edge protocol refers to the communication method between an EHR and its HISP.

The EHR sends and receives Direct messages the same as currently done (via the Updox APIs) and this tool converts the messages as needed for the test. In the (b1) certification test, the ONC Test Tool is the EHR's HISP (not Updox). The objective is to demonstrate that the EHR can communicate with its HISP via the SMTP edge protocol standard.

Setup is very easy. The EHR vendor simply directs their Updox API request calls to this edge protocol tool. Here is the workflow:

- Send
 - EHR sends a Direct message to the edge protocol tool via Updox API.
 - Edge protocol tool receives that message and sends to ONC Test Tool via SMTP.
 - ONC Test Tool receives the message and validates it was sent via SMTP.
- Receive
 - ONC Test Tool sends a message to the edge protocol tool.
 - o Edge protocol tool receives the message and EHR retrieves the message via Updox API.
 - EHR receives the Direct message.

The following APIs are currently not supported. Contact us if you plan to use the Updox SMTP Edge Protocol tool and use any of these APIs when sending and retrieving Direct messages.

- Direct Actions
 - o directVettedUserGet
 - o patientDirectMessageSend
 - o statusList
- Message Actions
 - messageCountForAccount
 - messageCountSince
 - messageEmptyTrash
 - messageForward
 - messageListSince1_1
 - messageListSince1_2
 - o messageMark
 - o messageMove
 - o messageReply
 - messageRetrieve1_1
 - userMessageListSince

Important Notes:

- Sending and receiving is limited to the ONC Test Tool (cannot send a message to yourself using this tool).
- The ONC Test Tool does not send back MDNs for the (b1) module "Send" tests.
- There is no charge for this tool.
- This tool is for **testing purposes only**, not production use.
- This tool is optional, a partner may choose to add an edge protocol standard to its EHR product instead.

II. Setup Steps

Note: all certification testing needs to occur in the Updox **QA environment** (not Production).

1. In your testing environment, direct your Updox API requests to this address followed by the API name https://partner-edge.updoxnet.com/api/io/

For example: https://partner-edge.updoxnet.com/api/io/directSimpleSend

Make a note of the original URL so you change the configuration back after you complete testing.

- 2. Create a new Updox test practice via API when pointing to <u>partner-edge.updoxnet.com</u>.
- 3. Create a user in this practice with a Direct address.
- 4. Create a new account with the Updox SMTP Edge tool:
 - a. Go to https://partner-edge.updoxnet.com/ui/
 - b. Complete the fields then click Create Account.



Note: the information in the HISP Endpoint section is from the ONC Test Tool instructions.

III. ONC Test Tool

- 1. Go to the ONC Test Tool website: https://ttpedge.sitenv.org/ttp/#/home
- 2. Click **2015 Testing by Criteria**.
- 3. Click 170.315(b)(1) tab.
- 4. Enter the profile information.
- 5. Select the criteria to be tested: (the XDR criteria are not applicable to this tool)
 - Criteria (i)(A) Send using Edge Protocol SMTP
 - Criteria (i)(B) Receive using Edge Protocol SMTP
 - Criteria (i)(C) XDM Processing (Received via Edge Protocol)
- 6. Follow the ONC Test Tool instructions for each of the test cases listed.

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Edge Testing	Tool - 2015 Certif	fication To	esting
Home § 170.3	315(b)(1) § 170.315(h)(1) § 170.3	315(h)(2)	
	Select Criteria for § 170.3	315(b)(1)	Please select •
	Default Profile	0.	
v p	lendor SMTP Hostname/IP partner-edge.updoxnet.com	€	— Enter partner-edge.updoxnet.com
v y	lendor SMTP Email Address /ouraddress@direct.updoxqa.com	€	Enter the Direct address for the user you created in Step 3 of the Setup.
v c	/endor SMTP Username Vendor Pass	sword 🕜	Username: client
т	ſLS Required 𝗭	0	
I	+ New Profile	e 🗶 Remove	

IV. Test: Send using Edge Protocol – SMTP

Note: You'll send a Direct message from the EHR/Updox account you created in the setup section to the Direct address specified in the ONC test cases.

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Edge Testin	g Tool - 2015 Certification	n Testing		
Home § 1	70.315(b)(1) § 170.315(h)(1) § 170.315(h)(2)			Login/Sign up
	 Select Criteria for § 170.315(b)(1) 	Criteria (i)(A) Send using Edge Protocol - SMTP		
	Default Profile 0	SMTP Test 8, 14, 18 (Send) Verifies the ability of the sending system to send an email to ETT	More Info.	
	Vendor SMTP Hostname/IP visit and PLAIN SASL	1	RUN	
	partner-edge.updoxnet.com	Authentication (if enabled). The SUT will send an email to wellformed1@ttpedge.sitenv.org. Hitting Run will cause ETT to	Logs	
	Vendor SMTP Email Address	search for an email sent to wellformed1@ttpedge.sitenv.org from		
	youraddress@direct.updoxqa.com	 the email address entered in Profile window. Note that the C-CDA Document Type selected will not affect the test result. 		
	Vendor SMTP Username Vendor SMTP Password	C-CDA Document Type O		
	TLS Required 🕑	SMTP MT Test 46 (Generate Disposition Notification Options Header)	More Info.	RUN
	+ New Profile Ø Save X Remove	vertices the ability of the serialing system to serial messages with a correct Disposition Notification Options Header. The sending system will send a message to wellformed14@ttpds.sitenv.org with the required header. Hitting 'Run' will cause ETT to check for this header.	Logs	KON

V. Test: Receive using Edge Protocol – SMTP

Note: You'll need to show that the message and attachment are received in the EHR.

Ige Testing Tool - 2015 Certification 1	Testing		
Certification Home § 170.315(b)(1) § 170.315(h)(1) § 170.315(h)(2)			Login/Sign up
Select Criteria for § 170.315(b)(1)	Criteria (i)(B) Receive using Edge Protocol - SMTP		
Default Profile Image: Constraint of the strained P Vendor SMTP HostnamedP Image: Constraint of the straint of the	SMTP Test 9, 16, 20 (Receive) Verifies the ability of the receiving system to accept a STARTTLS connection with PLAIN SASL authentication(if enabled). Hitting 'Run' will cause ETT to send an email. Verify the receipt of email with subject 'STARTTLS & PLAIN SASL AUTHENTICATION'. c-CDA Document Type Select document	More Info. Logs	RUN
Vendor SMTP Username Vendor SMTP Password TLS Required	SMTP Test 25(a) (Receive Text and CCDA) Verifies the ability of SUT to receive text and CCDA attachments	More Info. Logs	RUN
+ New Profile	SMTP Test 25(b) (Receive PDF and CCDA) Verifies the ability of SUT to receive PDF and CCDA attachments	More Info.	RUN
	SMTP Test 25(c) (Receive Text and XDM) Verifies the ability of SUT to receive text and XDM attachments	More Info. Logs	RUN
	SMTP Test 25(d) (Receive CCDA and Text) Verifies the ability of SUT to receive CCDA and text attachments	More Info. Logs	RUN
	SMTP Test 25(e) (Receive CCDA and Pdf) Verifies the ability of SUT to receive CCDA and PDF attachments	More Info.	RUN
	SMTP Test 25(f) (Receive XDM and Text) Verifies the ability of SUT to receive XDM and text attachments	More Info. Logs	RUN
	SMTP Test 26(a) (Receive bad CCDA) Verifies the ability of SUT to receive a CCDA document that includes a broken reference to a style-sheet	More Info. Logs	RUN
	SMTP Test 26(b) (Receive bad CCDA) Verifies the ability of SUT to receive a CCDA document with good reference to an invalid style-sheet	More Info. Logs	RUN
	SMTP Test 27 (Receive XDM with bad XHTML) Verifies the ability of SUT to receive an XDM package containing a bad XHTML file	More Info. Logs	RUN
	SMTP Test 28 (Receive XDM with MIME type 'application/octet-stream') Verifies the ability of SUT to receive an XDM package with MIME- type 'application/octet-stream' at the SMTP layer	More Info.	RUN
	SMTP Test 29 (Receive XDM with MIME type 'application/xml') Verifies the ability of Vendor to receive an XDM package with MIME-type 'application/xml' at the XDM layer (in METADATA.XML)	More Info.	RUN

VI. Test: XDM Processing



VII. Wrap Up

When finished with the testing, direct the API requests from your test EHR back to the Updox QA environment (e.g. https://updoxqa.com/api/io/directSimpleSend).