

EMTS Node Webinar Script Part 4

Introduction

In this section of the webinar we will look at the minor differences between submitting transactions using the EMTS website instead of submitting transactions from a node.

EMTS Website Diagram

The EMTS website is really a node client that has been customized to streamline the series of web service calls, but essentially works the same as described in section three of this webinar.

Once again, please use the "Next" and "Back" buttons to navigate through the steps.

Please click Next to continue.

Step 1

First log in to the MyCDX website.

Step 2

Click the OTAQEMTS: OTAQ EMTS link.

Your CDX Web credentials are passed to the EMTS website to automatically sign-in to the EMTS website.

Step 3

If you do not have permission to operate in the EMTS website, you are given an error message and redirected back to the MyCDX website.

Step 4

Select an XML file to submit.

The CDX Node URL, dataflow name, and other submission parameters are provided automatically by the EMTS.

The EMTS verifies that the document is zipped, and that the XML conforms to the EMTS schema specifications.

Step 5

The EMTS creates a security token that contains your CDX Web user ID, email address, and affiliation.

Step 6

The EMTS submits the XML file to the CDX Node using the security token.

Step 7

The CDX Node validates the security token against NAAS which will authenticate the submitter and authorize the submission to the EMTS.

Step 8

The CDX Node validates the payload.

The submission payload can contain only one document. The document must be compressed as a ZIP document type.

Step 9

The CDX extracts your CDX Web user ID, email address, and affiliation and logs this information for future use.

Step 10

The CDX Node archives the submitted document.

Step 11

The CDX Node generates a unique transaction ID and updates the status to "RECEIVED."

The CDX transaction ID uniquely identifies the submission, and can be used to check the status of the submission.

Step 12

If previous operations are successful, the CDX Node returns a Submit response to the EMTS which includes the unique CDX transaction ID, and the status of "RECEIVED."

If the previous operation fails, the CDX Node returns a SOAP fault to the EMTS Node and the dataflow ends.

The next sequence of steps are performed asynchronously after the submit response is sent back to the EMTS.

Step 13

The CDX Node updates the status to "PROCESSING," and verifies that the user is registered and active in the OTAQ Registration database.

If the user is not active or not registered in the OTAQ Registration database, the transaction status is set to "FAILED" and the dataflow ends.

The CDX Node sends email to the submitter and the CDX Node Administrator regarding the failure.

Step 14

The CDX Node performs XML validation against the QA Server.

After completion, the QA Server submits an XML validation report to the CDX Node.

The CDX Node archives the XML validation report.

Step 15

If the document did not pass XML Validation, the transaction status is set to "FAILED" and the dataflow ends.

The CDX Node will send an email to the submitter regarding the failure. The XML validation content is provided within the email.

Step 16

The CDX Node creates a security token that includes the submitter's CDX Web user ID, email address, and affiliation.

This is extracted from the security token that was created during the validation process.

Step 17

The CDX Node submits the XML file to the EMTS Node, using the security token. The CDX Node will retry three times if submission to the EMTS Node is not successful.

If the CDX Node successfully submits the document to the EMTS Node, the transaction status is set to "PENDING."

If the submission fails, the transaction status is set to "FAILED" and the dataflow ends.

The CDX Node sends email to the submitter and the CDX Node Administrator regarding the failure.

Step 18

The EMTS Node validates the security token with NAAS and extracts the submitter's CDX Web user ID from security token.

Step 19

The EMTS Node queues the submission for processing.

Step 20

If validation and queuing were successful, the EMTS Node returns the CDX transaction ID to the CDX Node.

If failed, the EMTS Node returns a SOAP fault to the CDX Node.

The CDX Node sets the transaction status to "FAILED" and the dataflow is ended.

Step 21

The EMTS processes the submission by checking the contents of the file and looking for critical errors.

If processing is successful a notification is sent to the CDX Node providing the final status of the submission.

The CDX Node updates the transaction status to "COMPLETED" and the dataflow is done.

The CDX Node sends an email to the submitter regarding the completion of the transaction.

Step 22

However, if processing fails, the EMTS Node issues a notification to inform the CDX Node of the failure.

Step 23

The EMTS Node submits a QA Feedback report to the CDX Node.

The report contains a zipped QA Feedback report.

The CDX Node archives the QA feedback report, ends the dataflow, and updates the status to "FAILED."

The CDX Node sends an email to the submitter regarding the failure of a transaction.

Please click Next to view a roll-over diagram showing all of the steps.

Roll-over Diagram

As you can see, there are numerous steps in the dataflow.

This entire process can take a few seconds or several minutes, depending on the load on the Exchange Network.

You can roll-over any of these steps to see each of the corresponding web service calls.

Please click Next to learn about the status of your submission.

Status of Your Submission

Once you have submitted a file to the EMTS, your file will progress through the series of steps in the dataflow with the submission status updated as the process completes.

You can check on the status of your file at any time by invoking the GetStatus web service method.

The GetStatus response contains information regarding the status of your file.

If the response returns an error, as seen in this table, you will be able to determine at what point in the dataflow processing has stopped.

If the error occurred at any of the first five points, your XML file never made it past the CDX Node and was not received by the EMTS.

However, if the file was sent to the EMTS but the file failed one or more business content checks, the response will indicate that the backend processing by the EMTS Node has failed.

This concludes the fourth section of the Node Webinar; please click Next when you are done.