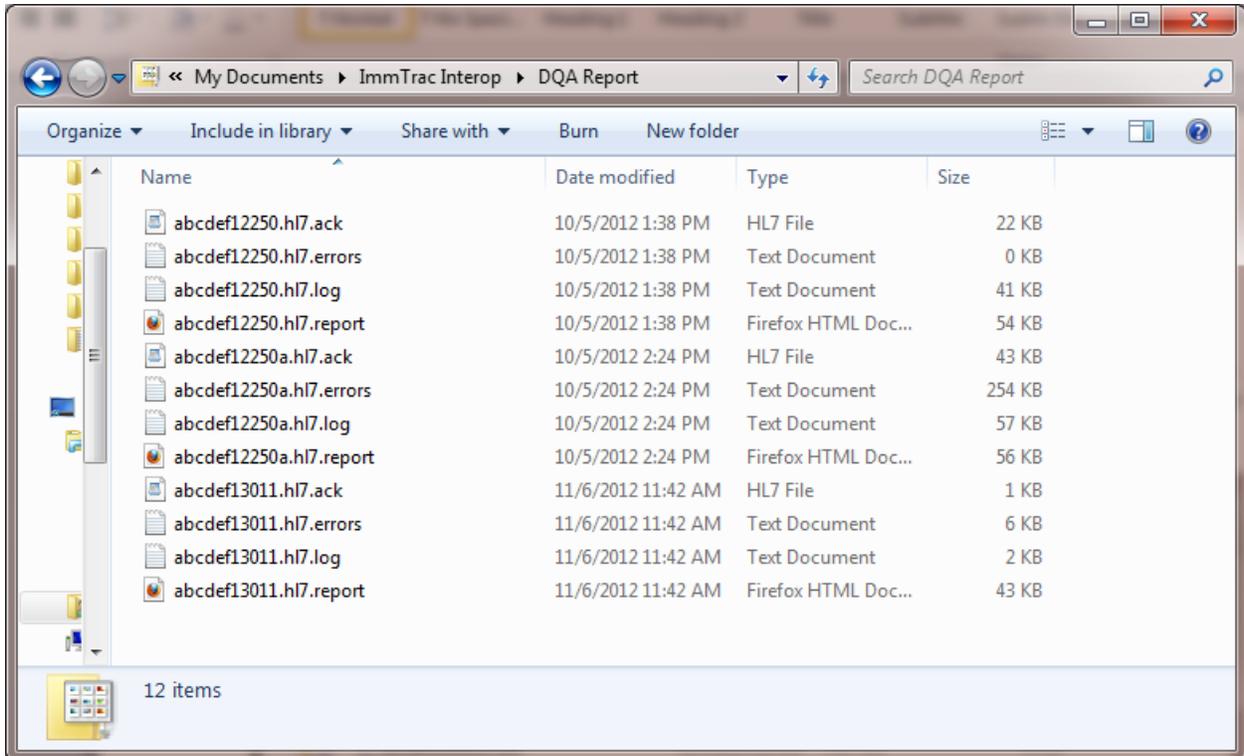


Log onto the FTP and access the DQA Report folder. *You will see four DQA reports for each HL7 file submitted.*

In the screenshot below, notice that the size of the error file titled 'abcdef12250.hl7.errors' is 0kb. This indicates that the hl7 file submitted called 'abcdef12250.hl7' was an error free file. However, the error files for 'abcdef12250a.hl7' and 'abcdef13011.hl7' are 254kb and 6kb, respectively. These files do contain messages with errors. The errors will need to be reviewed, fixed and resubmitted before they will make it into ImmTrac.



#### EXAMPLE 1: File abcdef1250a.hl7

1. Open the report file for the first file containing errors (i.e., abcdef12250a.hl7.report)

Firefox

Data Quality Report

file:///C:/Users/ctrzan967.TDHEXCH/Documents/ImmTrac Interop/DQA Report/abcdef12250a.hl7.report.html

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# BCARSWELL Quality Report

Batch Title	Batch Type	Profile	File Name	Received
File Import	Submission	HL7 File	abcdef12250a.hl7	Fri, Oct 5, 2012 2:24 PM

**Ready for Production**

All required fields are present, interface is ready for production.

## Scoring Summary

DQA Score	Description
35	Problem

Measurement	Score	Description	Weight
Completeness	69	Poor	50%
- Patient	84	Good	20%
- Vaccination	58	Problem	20%
- Vaccine Group	60	Poor	10%
Quality	0	Problem	40%
- No Errors	0	Problem	28%
- No Warnings	0	Problem	12%
Timeliness	0	Problem	10%

**Data Received**

2. Scroll down to the Quality section of the report (~2/3 down the document)

- Under the Errors heading, review the errors you received in your file, and how many times the error occurred.

**Quality**

Quality measures the number of errors and warnings that are encountered during processing. Total errors registry must account for less than one percent of total number of patients and vaccinations. Total warnings registered are expected to account for less than ten percent of the total patients and vaccinations.

**Quality Score**

Quality Score	Description
0	Problem

Measurement	Score	Description	Weight
No Errors	0	Problem	28%
No Warnings	0	Problem	12%

Coded Value Issues	Count
Unrecognized Codes	2

Errors are expected to be encountered on less than one percent of messages.

**Errors**

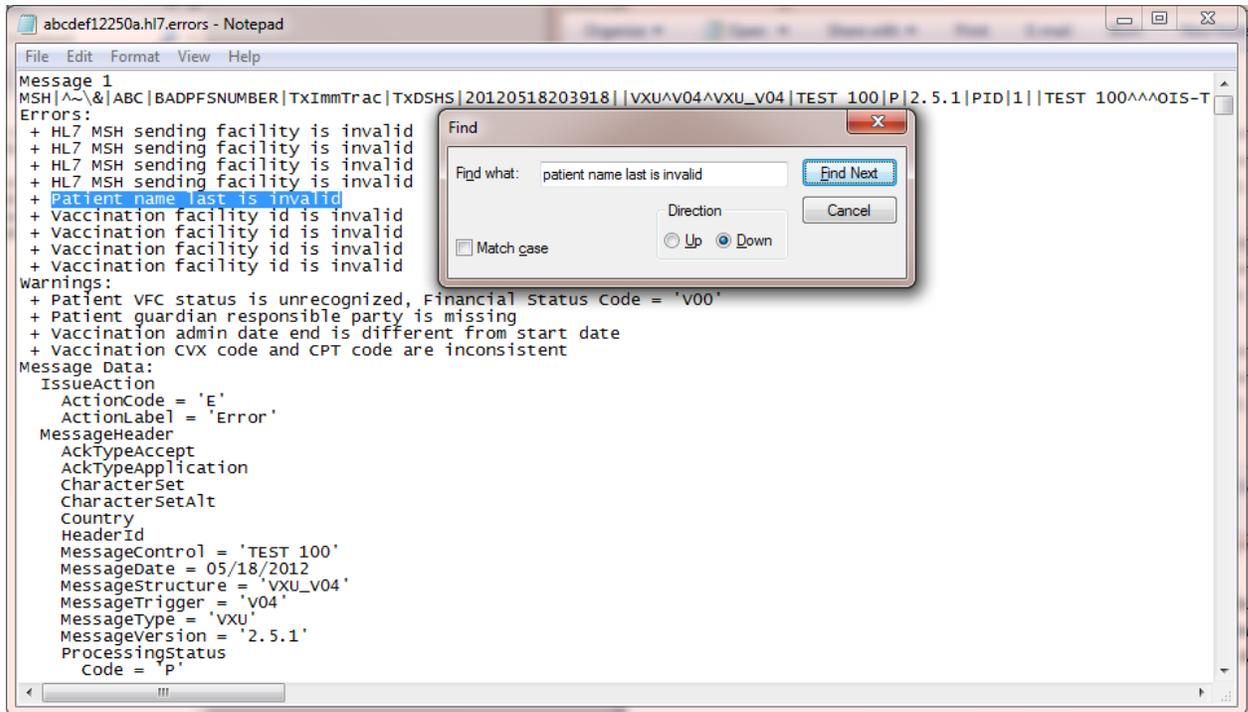
Description	Count	Percent
HL7 MSH sending facility is invalid	200	400%
Vaccination facility id is invalid	200	400%
Patient name last is invalid	1	2%

- Determine if this is an error you can fix by updating the patient record or vaccination information, or whether it is something that requires a call to your vendor.

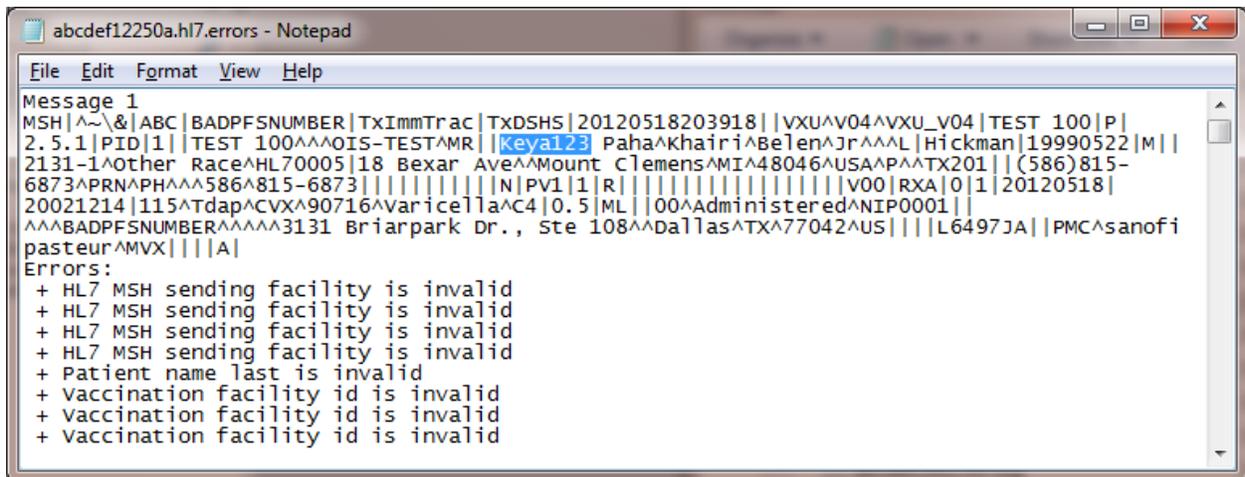
*NOTE: You can see that this file contained 401 errors total, but 200 of them were related to an invalid sending facility in the MSH segment, and 200 to an invalid vaccination facility ID. These errors indicated that an invalid PFS number was included in MSH-4 and RXA-11.4. These errors must be fixed by your EHR vendor.*

*The other error received in this file refers to the patient's name. This is something that you will be expected to review and fix without intervention from your vendor. All issues related to patient information found when reviewing the DQA report may be fixed on the patient record in your EHR.*

- For issues that you determine you can fix, open the error report associated with the report you are viewing (e.g., in this case, you will open abcdef12250a.hl7.errors), and search for the error you received.



- Review the information in the Message where the error was found. *In this example, you will look at the patient's last name.*



- Update the patient's record in the EHR. Your EHR should explain to you how to include this updated record in your next batch file.

### Example 2: abcdef13011.hl7

- Open the report file for the first file containing errors (i.e., abcdef13011.hl7.report) and scroll down to the Quality section of the report.

**Quality Score**

Quality Score	Description
0	Problem

Measurement	Score	Description	Weight
No Errors	0	Problem	28%
No Warnings	0	Problem	12%

Coded Value Issues	Count
Unrecognized Codes	7
Deprecated Codes	1

Errors are expected to be encountered on less than one percent of messages.

**Errors**

Description	Count	Percent
Patient address is missing	2	29%
Vaccination admin code is invalid	1	4%

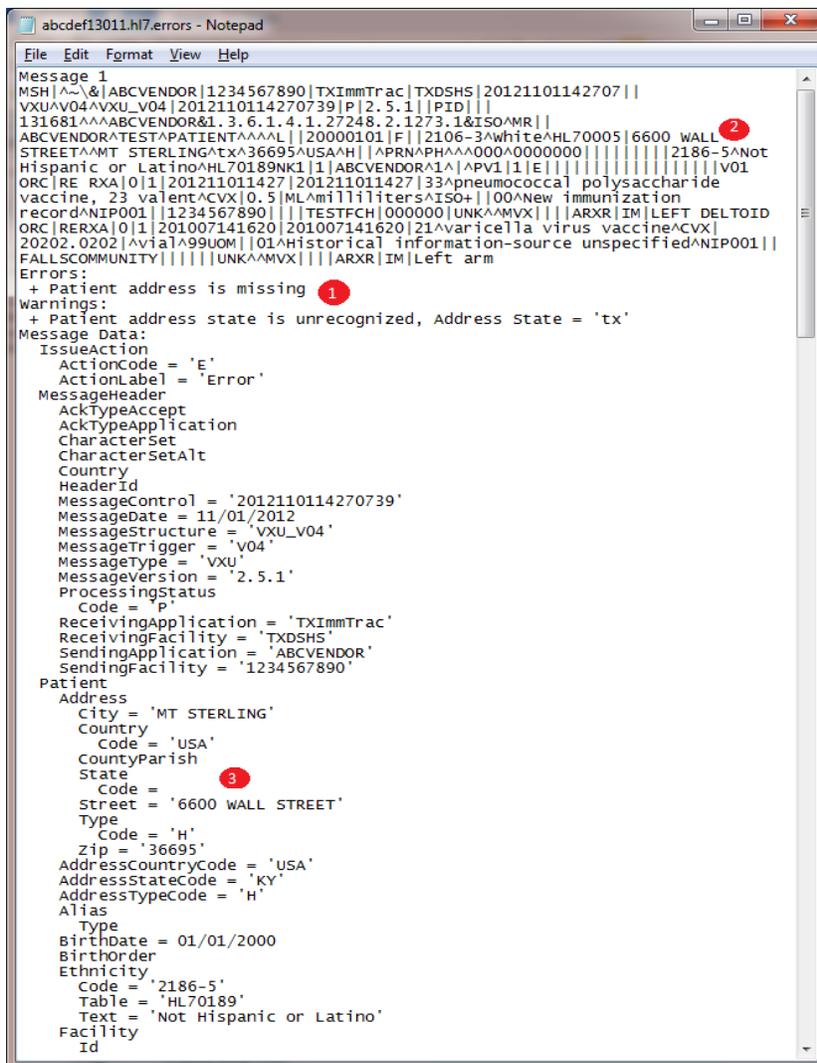
- Review the errors received in your file and note how many times they occurred. *In this example, there are two records where the patient address was missing and one where the vaccination admin code was invalid.*
- Determine if this is an error you can fix by updating the patient record or vaccination information, or whether it is something that requires a call to your vendor.

*NOTE: The two errors relating to a missing patient address were received because there was missing address information listed in the patient record. This is an issue you can fix on the patient's record in the EHR.*

The other error relates to the CVX code for the vaccination administered. If you receive a message stating that the vaccination code is invalid, it is likely due to an inactive CVX code used on the record where the error was found is inactive. Your vendor can explain how to fix this error.

4. For issues that you determine you can fix, open the error report associated with the report you are viewing (e.g., in this case, you will open abcdef13011.hl7.errors), and search for the error you received.

In this example, the feedback was that the patient address was missing(1). But there is an address for this patient in the message (2). By scrolling down on the patient address, the State Code component is empty (3). The system did not recognize 'tx' as a state. You must use the proper case, which for state is upper case (TX). You may fix this in your EHR, then contact your vendor for how to ensure this message gets resubmitted in the next weekly batch



```
abcdef13011.hl7.errors - Notepad
File Edit Format View Help
Message 1
MSH|^~\&|ABCVENOR|1234567890|TXImmTrac|TXDSHS|20121101142707||
VXU^V04^VXU_V04|2012110114270739|P|2.5.1||PID||
131681^^^ABCVENOR&1.3.6.1.4.1.27248.2.1273.1&ISO^MR||
ABCVENOR^TEST^PATIENT^AAA^L||20000101|F||2106-3^white^HL70005|6600 WALL
STREET^MT STERLING^TX^36695^USA^H||APRN^PH^AAA000^0000000|||2186-5^Not
Hispanic or Latino^HL70189NK1|1|ABCVENOR^A1^APV1|1|E|||||||V01
ORC|RE RXA|0|1|201211011427|201211011427|33^pneumococcal polysaccharide
vaccine, 23 valent^CVX|0.5|ML^M|||||liters^ISO+||00^New immunization
record^NIP001||1234567890|||TESTFCH|000000|UNK^MVX|||ARXR|IM|LEFT DELTOID
ORC|RE RXA|0|1|201007141620|201007141620|21^varicella virus vaccine^CVX|
20202.0202|Avial^99UOM||01^Historical information-source unspecified^NIP001||
FALL^COMMUNITY|||||UNK^MVX|||ARXR|IM|Left arm
Errors:
+ Patient address is missing (1)
Warnings:
+ Patient address state is unrecognized, Address State = 'tx'
Message Data:
IssueAction
  ActionCode = 'E'
  ActionLabel = 'Error'
MessageHeader
  AckTypeAccept
  AckTypeApplication
  CharacterSet
  CharacterSetAlt
  Country
  HeaderId
  MessageControl = '2012110114270739'
  MessageDate = '11/01/2012'
  MessageStructure = 'VXU_V04'
  MessageTrigger = 'v04'
  MessageType = 'VXU'
  MessageVersion = '2.5.1'
  ProcessingStatus
    Code = 'P'
  ReceivingApplication = 'TXImmTrac'
  ReceivingFacility = 'TXDSHS'
  SendingApplication = 'ABCVENOR'
  SendingFacility = '1234567890'
Patient
  Address
    City = 'MT STERLING'
    Country
      Code = 'USA'
    CountyParish
    State
      Code = (3)
    Street = '6600 WALL STREET'
    Type
      Code = 'H'
    Zip = '36695'
  AddressCountryCode = 'USA'
  AddressStateCode = 'KY'
  AddressTypeCode = 'H'
  Alias
  Type
  BirthDate = '01/01/2000'
  Birthorder
  Ethnicity
    Code = '2186-5'
    Table = 'HL70189'
    Text = 'Not Hispanic or Latino'
  Facility
  Id
```

5. Update the patients' records in the EHR. *Since there were two errors relating to missing patient addresses, you would also search for the second instance of a missing address in this file, and fix that patient's record as well.*
6. *Search for the invalid vaccination admin code in your error file.*

```

abcdef13011.hl7.errors - Notepad
File Edit Format View Help
Message 33|
MSH|^~\&|ABCVENDOR|1234567890|TXImmTrac|TXDSHS|20121101142707||VXU^V04^VXU_V04|
2012110114270739|P|2.5.1||PID|||131681^ABCVENDOR&1.3.6.1.4.1.27248.2.1273.1&ISO^MR||
ABCVENDOR^TEST^PATIENT^L||20000101|F||2106-3^white^HL70005|6600 WALL STREET^MT
STERLING^TX^36695^USA^H||^APRN^PH^0000^00000000|||2186-5^Not Hispanic or
Latino^HL70189NK1|1|ABCVENDOR^1^APV1|1|E|||V01ORC|RE RXA|0|1|
201211011427|201211011427|88^INFLUENZA VACCINE^CVX|0.5|ML^m|liliters^ISO+||00^New
immunization record^NIP001||1234567890|||TESTFCH|000000|UNK^MVX|||ARXR|IM|LEFT
DELTOIDORC|RERXA|0|1|201007141620|201007141620|21^varicella virus vaccine^CVX|
20202.0202|^vial^99UOM||01^Historical information-source unspecified^NIP001||
FALLSCOMMUNITY|||UNK^MVX|||ARXR|IM|Left arm
Errors:
+ Vaccination admin code is invalid, vaccination CVX code = '88'

```

7. Open the list of vaccinations to determine the reason that this code is [invalid](#). *There is a legend in K1, and the inactive dates are listed in Column G.*
8. Fix the error. *Who fixes code errors depends on your EHR software. If it is just a matter of selecting a different code from the dropdown, you should be able to fix the error on the patient's record in the EHR. Sometimes, this may require a configuration change. Your EHR Vendor should be able to explain to you how to fix the error, or fix it for you themselves.*
9. Resubmit the fixed messages in your next batch file. *Your EHR should explain to you how to include this updated record in your next submission.*