NHSN Antimicrobial Use and Resistance (AUR) Module: Common Data Import Issues and Questions

Virgie Fields, MS, CPH, CIC

Terence Robinson, MPH

NHSN Antimicrobial Use and Resistance Team

NHSN Annual Training

March 2024

Objectives

- Describe how to manually upload your Antimicrobial Use and Resistance (AUR) Module data

- Review the PDF submission/error report after attempting to upload AUR Module data

- Identify common AUR data import errors

- Describe resources available to address common data import errors

How to Manually Upload Your AUR Data

Virgie Fields, MS, CPH, CIC

Where and how can I upload my AUR data in NHSN?

- In NHSN, select Import/Export on the left navigation menu
- Select "**AU and AR Summary Data**" OR "**Events, Summary Data, Procedure Denominators**" to upload CDA files
  - Both options allow you to upload AUR data into NHSN
  - If you do not see either of these options, a user with administrative rights must change your user rights (NHSN AUR User Rights)
- Then, choose the zip file that contains your AU/AR data
- Click the Submit button

Import/Export Data Screen

How do I know if all the CDA files I submitted together in the same zip file uploaded into NHSN successfully?

- Review the **Records Processed** table for a summary

- Review the **Validation Results** table:

  - **Events** tab: Which AR Event files passed and failed validation (Status column)

  - **Summary Data** tab: Which AU Summary and/or AR Summary files passed and failed validation (Status column)

Records Processed Table

Import Events, Procedures and/or Summary Data

Records Processed

Record Type	# of Records	# Passed	# of Updates*
Events	1	1	0
Summary Data	2	1	0
Procedures	0	0	0

*CDA SetID already exists in the database; existing data will be overwritten.

Validation Results

Events | Summary Data | Procedures

Event Type	Event Date	Patient ID	Location	Set ID	Status
AR	01/21/2024	SA_BLOOD2022A	MSICU	2.16.840.1.113883.3.117.1.1.5.2.1.1.	Ready for Import (A

Error Report | Submit | Cancel

Validation Results Table: Events

Validation Results Table: Summary Data

What happens when I click the Error Report and Cancel buttons?

- When you click the Error Report button, a PDF report will generate which shows the file(s) that passed the initial NHSN validation and the file(s) that did not pass validation.

- When you click the Cancel button, no files will be uploaded, and you'll go back to the submission screen.

- No files will be uploaded until you click the Submit button on this screen.

Type	Month	Year	Location	Set ID	Status
AU	1	2024	FACWIDEIN	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-Sample	Error(s) present
ARSUM	1	2024	FACWIDEIN	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-FacWic	Ready for Import (Add)
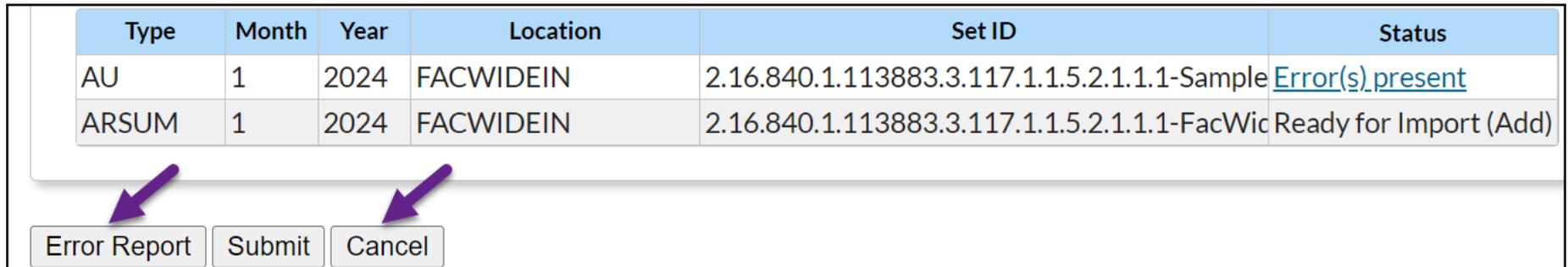
Error Report   Submit   Cancel

What happens when I click the Submit button?

- When you click the Submit button, only the file(s) that successfully passed validation uploads to NHSN. Clicking the Submit button generates a PDF report, which shows the file(s) that successfully imported and the file(s) that did not pass validation and did not import.

- Save the PDF report for your records each time you import data into the AUR Module.

Type	Month	Year	Location	Set ID	Status
AU	1	2024	FACWIDEIN	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-Sample	Error(s) present
ARSUM	1	2024	FACWIDEIN	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-FacWid	Ready for Import (Add)

Error Report Submit Cancel

Pop-up Messages when Submitting CDA Files

How to Read the PDF Submission Report

Virgie Fields, MS, CPH, CIC

PDF Submission Report when Uploading CDA Files via DIRECT

- DIRECT sends AUR data via your vendor software system directly to NHSN

- This same PDF submission report is returned to the vendor software system when files are sent via DIRECT

- Some vendor software systems package the returned PDF in different ways (*i.e.*, facilities will see similar information but not in a PDF form)

PDF Submission Report: Summary Table

- Review the summary table that lists how many CDA files, separated by Events (AR Events) and Summary Data (AU Summary, AR Summary), were attempted to be uploaded, how many files passed NHSN validation, and how many files updated data already in NHSN via succession management

CDA Import Report: Zip File Name: AUR Test Files.zip			
FACILITY:CDA-XYZ_qa_Test Facility Date of Import: 08/Feb/2024 03:07:21 EST			
Summary:			
Event ID	**Total # attempted**	**Total # Passed Validation**	**Total # of Updates***
Events	1	1	0
Summary Data	2	1	0

PDF Submission Report: Files that Passed Validation

CDA Import Report: Zip File Name: AUR Test Files.zip

FACILITY:CDA-XYZ_qa_Test Facility   Date of Import: 08/Feb/2024 03:07:21 EST

Summary:

Event ID	Total # attempted	Total # Passed Validation	Total # of Updates*
Events	1	1	0
Summary Data	2	1	0

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.1138 83.3.117.1.1.5.2.1.1.1-AntiP25_SA_2022	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.1138 83.3.117.1.1.5.2.1.1.1-FacWideIN_202106	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: Event Type (AR Event) and Event Date

- In this example, one file with information on an AR Event with a specimen collection date of January 21, 2024, passed validation and was successfully uploaded into NHSN

- For AR Events (numerator), Event Type will display **AR**

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-AntiP25_SA_2022	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-FacWideIN_202106	No	08/Feb/2024 15:07:20 EST

17

PDF Submission Report: NHSN ID

▪ You can use the NHSN ID to search for this AR Event in your NHSN analysis reports (Event ID)

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.1138 83.3.117.1.1.5.2. 1.1.1-AntiP25_SA_202 2	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.x ml	2.16.840.1.1138 83.3.117.1.1.5.2. 1.1.1-FacWideIN_202 106	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: CDA File Name

- The CDA File Name tells you the names of the zip file and the specific XML file that contained the information for this event or summary record

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.1138 83.3.117.1.1.5.2. 1.1.1-AntiP25_SA_2022	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.1138 83.3.117.1.1.5.2. 1.1.1-FacWideIN_202106	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: setID

- Each CDA file will have its own setID which is like a document number
- NHSN stores the setID for each CDA file and a look-up occurs to see if it already exists in the application

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.1138 83.3.117.1.1.5.2.1.1.1-AntiP25_SA_2022	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.1138 83.3.117.1.1.5.2.1.1.1-FacWideIN_202106	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: *setID Already Exists in the Database

- "No" means a record with this setID has not been uploaded into NHSN before
- "*Yes-setID found in database" means that a record with this setID has already been uploaded before and this upload will replace existing data

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.1138 83.3.117.1.1.5.2. 1.1.1- AntiP25_SA_202 2	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.1138 83.3.117.1.1.5.2. 1.1.1- FacWideIN_202 106	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: CDA Processing Date/Time Stamp

- The CDA Processing Date/Time Stamp shows you the exact date and time when the record was successfully uploaded into NHSN

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.1138 83.3.117.1.1.5.2.1.1.1-AntiP25_SA_2022	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.1138 83.3.117.1.1.5.2.1.1.1-FacWideIN_2021 06	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: Event Type (AR Summary) and Event Date

- In this example, one AR Summary file for January 2024 passed validation and was successfully uploaded into NHSN

- For AR Summary (denominator) data, Event Type will display **ARSUM**

ImportDetails - Valid

Line listing for each record that passed the validation.

Facility ID:	Event Type	Event Date	NHSN ID	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AR	01/21/2024	120936	AUR Test Files/R3_AntiP25_SA_Blood_aro-num.xml	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-AntiP25_SA_2022	No	08/Feb/2024 15:07:20 EST
13860	ARSUM	1/2024	23570	AUR Test Files/ARO Summary_R3-D4_FacWideIN.xml	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-FacWideIN_202106	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: Files that Failed Validation

ImportDetails - CDA(s) Failed

Line listing for each record that failed validation and did not import

Facility ID:	Event Type	Event Date	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AU	1/2024	AUR Test Files/Sample_R1_93 drugs_FACWIDEIN_Jan2022.xml	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-SampleAU_R1_FACWIDEIN_Jan2022	No	08/Feb/2024 15:07:20 EST

Reason for failure:		
	1.1	Drug code 138099 is invalid. Please correct
	1.2	Drug code 135098 is invalid. Please correct
	1.3	Nirmatrelvir is a required drug. Please work with your vendor to add this drug to your AU files.
	1.4	Rezafungin is a required drug. Please work with your vendor to add this drug to your AU files.
	1.5	Nirsevimab is a required drug. Please work with your vendor to add this drug to your AU files.
	1.6	Molnupiravir is a required drug. Please work with your vendor to add this drug to your AU files.
	1.7	Sulbactam/Durlobactam is a required drug. Please work with your vendor to add this drug to your AU files.

PDF Submission Report: Event Type (AU) and Event Date

- In this example, one AU Summary file for January 2024 failed validation and was not uploaded into NHSN
- For AU Summary data, Event Type will display **AU**

ImportDetails - CDA(s) Failed

Line listing for each record that failed validation and did not import

Facility ID:	Event Type	Event Date	CDA File Name	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
13860	AU	1/2024	AUR Test Files/Sample_R1_9 3 drugs_FACWIDEIN _Jan2022.xml	2.16.840.1.113883. 3.117.1.1.5.2.1.1.1- SampleAU_R1_FA CWIDEIN_Jan2022	No	08/Feb/2024 15:07:20 EST

PDF Submission Report: Reasons for failure

- The reasons why a file failed validation are listed below the file information

- In this example, the AU file had two types of errors

Reason for failure:	
1.1	Drug code 138099 is invalid. Please correct
1.2	Drug code 135098 is invalid. Please correct
1.3	Nirmatrelvir is a required drug. Please work with your vendor to add this drug to your AU files.
1.4	Rezafungin is a required drug. Please work with your vendor to add this drug to your AU files.
1.5	Nirsevimab is a required drug. Please work with your vendor to add this drug to your AU files.
1.6	Molnupiravir is a required drug. Please work with your vendor to add this drug to your AU files.
1.7	Sulbactam/Durlobactam is a required drug. Please work with your vendor to add this drug to your AU files.

PDF Submission Report: Reasons for failure – Removed AU drugs

- Error: Drug code ____ is invalid. Please correct
  - We review the list of eligible AU drugs annually and sometimes remove drugs that have little to no reported use
  - Gemifloxacin (138099) and Quinupristin/Dalfopristin (135098) were removed from AU Option reporting for January 2024 forward
  - Refer to the [list of antimicrobial agents eligible for the AUR Module](#)

Reason for failure:	
1.1	Drug code 138099 is invalid. Please correct
1.2	Drug code 135098 is invalid. Please correct

PDF Submission Report: Reasons for failure – Added AU drugs

- Error: ____ is a required drug. Please work with your vendor to add this drug to your AU files.
  - We added two new drugs for January 2023 forward and three new drugs for January 2024 forward
  - Refer to the [list of antimicrobial agents eligible for the AUR Module](#)

Reason for failure:		
	1.3	Nirmatrelvir is a required drug. Please work with your vendor to add this drug to your AU files.
	1.4	Rezafungin is a required drug. Please work with your vendor to add this drug to your AU files.
	1.5	Nirsevimab is a required drug. Please work with your vendor to add this drug to your AU files.
	1.6	Molnupiravir is a required drug. Please work with your vendor to add this drug to your AU files.
	1.7	Sulbactam/Durlobactam is a required drug. Please work with your vendor to add this drug to your AU files.

Common AUR Data Import Error Messages

Terence Robinson, MPH

"Antimicrobial Use and Resistance Module not followed for this month, year, and location."

- This error message means that you did not add the month, year, and location in the CDA file you're trying to upload in the Antimicrobial Use and Resistance portion of your Monthly Reporting Plan.

- To resolve this error, you must add the location(s) to the Antimicrobial Use and Resistance portion of your Monthly Reporting Plan for every month you plan to submit AUR data.

  - For steps on how to add a location to your monthly reporting plan, follow the instructions in Q1 of the Monthly Reporting Plan section of the AU FAQs and Q5 of the General Submission Requirements section of the AR FAQs.

"Antimicrobial Use and Resistance Module not followed for this month, year, and location." (cont.)

- For example, if a facility wants to report AU data for their medical-surgical ward for January 2024, the MEDSURG64 location would need to be checked in the AU Option section of the reporting plan.

"Location does not exist."

- The location name used in your CDA file does not match a location currently mapped in your NHSN facility. The location in the CDA file must be an exact match to what's in NHSN (*i.e.*, "Your Code" value).

- Meet with Infection Prevention department and export the location list out of NHSN (Facility > Locations > Export Location List) so you can compare what's in NHSN to what's in your vendor system and decide the best way to rectify.

Location Table

Display All   Print Location List
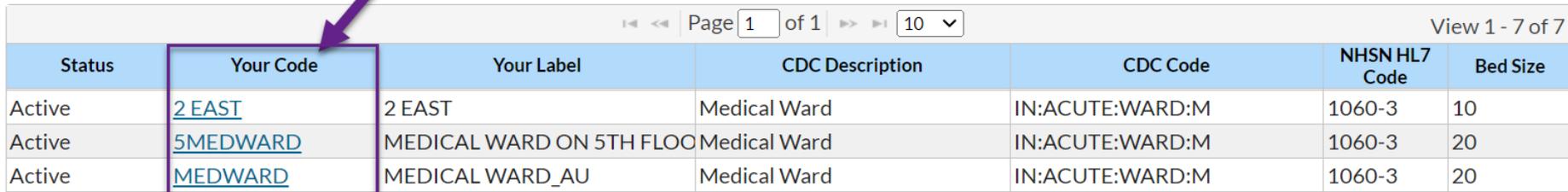
Status	Your Code	Your Label	CDC Description	CDC Code	NHSN HL7 Code	Bed Size
Active	2 EAST	2 EAST	Medical Ward	IN:ACUTE:WARD:M	1060-3	10
Active	5MEDWARD	MEDICAL WARD ON 5TH FLOO	Medical Ward	IN:ACUTE:WARD:M	1060-3	20
Active	MEDWARD	MEDICAL WARD_AU	Medical Ward	IN:ACUTE:WARD:M	1060-3	20

Page 1 of 1   View 1 - 7 of 7

"Location AA location code XX does not match NHSN's location code YY for this facility. Please correct this location mapping before importing records."

- The location designation included in the CDA file should match the CDC Location Designation in NHSN.

- For example, the AU Summary file for MEDWARD should include the NHSN HL7 Code **1060-3** which corresponds to the CDC Location Designation of Medical Ward.

Location Table

Display All   Print Location List

Status	Your Code	Your Label	CDC Description	CDC Code	NHSN HL7 Code	Bed Size
Active	2 EAST	2 EAST	Medical Ward	IN:ACUTE:WARD:M	1060-3	10
Active	5MEDWARD	MEDICAL WARD ON 5TH FLOO	Medical Ward	IN:ACUTE:WARD:M	1060-3	20
Active	MEDWARD	MEDICAL WARD_AU	Medical Ward	IN:ACUTE:WARD:M	1060-3	20

Page 1 of 1   10 ∨   View 1 - 7 of 7

"The submitted document version 1 must be greater than the existing record version of 1. Please use CDA succession management to update."

- This error message indicates that you are uploading a CDA file that was previously successfully uploaded into NHSN with that same setID.

- If you are attempting to update an existing record in NHSN with new information, contact your vendor to resubmit data using "succession management " (aka version control).

  - Succession management allows users to simply export a new version of files to NHSN. For more information, refer to Q10 and Q11 in the General Submission section of the AU FAQs.

  - If your vendor does not offer this option, you will have to delete the previously uploaded data. For instructions on how to delete submitted AUR data, follow the instructions in Q9 in the General Submission section of the AU FAQs.

"A record for the selected summary data element already exists. Select different header information, or if viewable in the UI, consider using the 'edit' for the existing record."

- This error message indicates that there is already an existing record for the location/month you are trying to upload into NHSN.

- To fix this issue, you can do one of the following before uploading the new record:

  - Reach out to your vendor to resubmit data using "succession management" (aka version control), or

  - Delete the existing record and try your upload again.

"Unable to determine panel drug size."

- This error occurs when uploading an AR Event CDA file with missing antimicrobial susceptibility testing results for required drugs.

- Based on the organism reported, the NHSN application requires you to include specific antimicrobial susceptibility tests in the CDA file. The list of susceptibility tests for each organism is called the drug panel and the number of tests included in each panel varies. The organism and corresponding drug panel can be found in Appendix F of the [AUR Module Protocol](#).

- To resolve this issue, work with your vendor to ensure the CDA file includes all required drugs. The CDA file must include all drugs in the specific panel regardless of whether the lab tested them.

"validatePathogenEffectiveDates: Pathogen is not valid."

- This error occurs when uploading an AR Event CDA file with a pathogen not eligible for AR Option reporting.

- A list of eligible pathogen SNOMED codes is available in our vendor Information Data Model (IDM) within the AR CDA Toolkit: https://www.cdc.gov/nhsn/cdaportal/toolkits.html.

  - Refer to the AR Option Pathogen Roll-up_2024.xlsx for the complete list of eligible SNOMED codes for 2024

  - Refer to Excel: idm-vendors-12.0; Tabs: Pathogen Codes <Year>

    - All pathogens/organisms in the Pathogen Codes tabs of the IDM with an "X" in the "ARO Pathogen" column are reportable

- Reach out to your vendor to exclude pathogen from reporting.

"This specimen source is not eligible for AR Option submission."

- This error occurs when uploading an AR Event CDA file with a specimen source not eligible for AR Option reporting.

- A list of eligible specimen source SNOMED codes is available in our vendor IDM within the AR CDA Toolkit: https://www.cdc.gov/nhsn/cdaportal/toolkits.html.

  - Excel: idm-vendors-12.0; Tab: Specimen Source

- Any specimen with an X in Column F (Valueset: ARSpecimenSource) is eligible for AR Option reporting. Columns I - L denote the specific category (lower respiratory, blood, CSF, urine). Any specimen types not included with an "X" in Column F, are not eligible for 2024 AR Option reporting.

- Reach out to your vendor to exclude specimen source from reporting.

"Could not find NHSN organization by OID." & "Missing essential information."

- An OID is a unique identifier for your NHSN facility. To verify if your facility has or needs an OID, users with administrative rights can navigate through the NHSN application following the steps below:

  1. Navigate to Facility then Facility Info on the left navigation menu.
  2. On the Edit Facility Information page, you'll find the OID section on the top right of the screen.

- If you've verified that your facility does not have an OID, follow the steps outlined [here](#) to obtain one.

Reason for failure:		
	1.1	Could not find NHSN organization by oid.File: ARO Summary_R3-D4_EMER.zip/ARO Summary_R3-D4_EMER.xml
	1.2	Missing essential information,ARO Summary_R3-D4_EMER.zip/ARO Summary_R3-D4_EMER.xml:null

"Could not find NHSN organization by OID." & "Missing essential information." (cont.)

- Once you have obtained and confirmed your facility OID, make sure the OID is added to NHSN (Facility > Facility Info) and reach out to your vendor to update the CDA files with this information.

- Addressing the first error can often address the additional errors.

"The file does not contain a valid Vendor OID and/or a valid SDS Validation ID. Please correct the information in the CDA file and re-upload the file."

- AU Summary, AR Event, and AR Summary files will fail to upload without the proper vendor credentials in the files. Please refer to the [Synthetic Data Set (SDS) validation process](#) page for more details.

- This validation process is completed by the vendor and facilities have no role.

- The vendor will need to update the vendor section of the CDA files with their vendor OID and the correct SDS Validation ID.

"The file does not contain a valid Vendor OID and/or a valid SDS Validation ID. Please correct the information in the CDA file and re-upload the file."

- Below is an example of the XML coding of the author field that you can provide to your vendor contact

```xml
<!-- The author of a population summary report is the software forming the message. -->
<author>
  <time value="20080701"/>
  <assignedAuthor>
  <!--root=vendor OID; extension is assigned SDS Validation ID -->
    <id root="2.16.840.1.114222.4.3.99.99" extension="AR_2019"/>
    <assignedAuthoringDevice>
    <!--Optional Vendor Software Name -->
    <manufacturerModelName>DataProvider</manufacturerModelName>
    <!--optional version and release of the software-->
    <softwareName>1.5.432.55v1</softwareName>
    </assignedAuthoringDevice>
    <!--optional vendor name-->
    <representedOrganization>
    <name>SS_CDA Facility</name>
    </representedOrganization>
  </assignedAuthor>
</author>
```

Rhapsody Error

- Several situations may trigger a Rhapsody Error
- Sometimes, the issue is with the NHSN servers
  - Log out of NHSN, log back in, and re-attempt your upload a few times
  - If error continues, there may be a problem with your CDA file(s)

Rhapsody Error (cont.)

- Common issues with CDA files that trigger a Rhapsody Error:
  - Your facility Object Identifier (OID) was entered into more than one NHSN facility
  - Ineligible characters (*e.g.*, "&") in certain places such as the Display Name
  - Formatting of the CDA file (*e.g.*, templateID lines of code are in incorrect places)
  - Duplicate information within the file (*e.g.*, antimicrobial susceptibility testing results are duplicated for one or more drugs)
  - Missing essential information (*e.g.*, date of admission for AR Event)
  - Blank CDA file (file size is 0)

Resources

Terence Robinson, MPH

Resources

- AUR Module
  Protocol: https://www.cdc.gov/nhsn/pdfs/pscmanual/11pscaurcurrent.pdf
- AU FAQs: https://www.cdc.gov/nhsn/faqs/faq-au.html
- AR FAQs: https://www.cdc.gov/nhsn/faqs/faq-ar.html
- CDA FAQs: https://www.cdc.gov/nhsn/cdaportal/faqs.html
- Video - Uploading CDA Files into NHSN:
  https://www.youtube.com/watch?v=T4DLtimpB5M

For any questions or concerns, contact the NHSN Help Desk using

NHSN-ServiceNow to submit questions to the NHSN Help Desk. The new portal can be accessed at **https://servicedesk.cdc.gov/nhsncsp**. Users will be authenticated using CDC's Secure Access Management Services (SAMS) the same way you access NHSN. If you do not have a SAMS login, or are unable to access ServiceNow, you can still email the NHSN Help Desk at nhsn@cdc.gov.