

Clinical Document Architecture (CDA) Import Function

Division of Healthcare Quality Promotion

Target Audience

This training is intended for:

- CDA software vendors
- Facility Users submitting CDAs into the NHSN application with application 'Admin' user rights

Objectives

- Identify the steps in submitting records to NHSN via the NHSN Import Data function. Demonstrate import for the following events:
 - Bloodstream infection (CLABSI)
 - ICU denominator
 - Surgical Site infection
 - Procedure

Information about the CDA ZIP File

- Before using the Import Data function, you must generate CDA zip files that contain the event and/or denominator records to be imported.
- CDA files are exported from the facility's available electronic sources of medical information (e.g., electronic medical record software, laboratory information, admission, discharge, and transfer data).
 - For details on generating your CDA zip files, consult your Infection Control software vendor representative.
- To report to NHSN, CDA files are created, zipped, and then imported into the NHSN application.
 - Monthly reporting plans and locations must be added manually before data can be imported.

NHSN User Rights

- □ Users need "Administrator" rights in order to upload all CDA types.
- There is only one facility administrator for a facility in NHSN, but there can be multiple users with "Administrator" rights.

ome Logged into XVZ Liquor Facility XVZ Liquors (1)	rs (ID 10009) as D 10009) is follo	MINDVD. wing the PS component.		
Plan Data cport		User ID: MINDYD	Edit Use	r Rights
Rights	Patient	Facility List: Healthcare Personnel Safety	Biovigilance	
Administrator	R		0	
All Rights	1	(E)	10	
Analyze Data		E1		
Add, Edit, Delete		E3	10	
View Data			E	
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NHSN User Rights

- If a user does not have administrative rights, the facility administrator should follow the steps below to edit the user's profile:
 - Click 'Users' and then 'Find' in the navigation menu.
 - Enter a search criteria (i.e. User ID) and Click the 'Find' button.
 - Click the 'Edit' button.
 - Click the 'Edit Rights' button on the user profile and click the checkbox to provide administrative rights.
 NHSN National Healthcare Safety Network (U04/-SDC-BETA:443)
 - Click the 'Save' button.

	NHSN - National Healthcare Safety Network (0047-SDC-BETA:443)
🌹 NHSN Home	Logged into XYZ Medical Center (ID 10009) as MINDYD. Facility XYZ Medical Center (ID 10009) is following the PS component.
Alerts	Find User
Reporting Plan	
Patient	GHELP
Event	
Procedure	 Enter search criteria and click Find
Summary Data	
Import/Export	User Information
Analysis	User ID:
Surveys	First Name:
Users	
Add	Middle Name:
	Last Name:
Croup	Phone Number:
Tools	
	E-mail Address:
Log Out	Find Clear Back

Access the Import Function

	NHSN - National Healthcare Safety Network (apt-v-nhsn-test:8001)
🌹 NHSN Home	Logged into CDA-XYZ Test Facility (ID 13860) as MDQ1.
Alerts	NUSN Dationt Safety Component Home Dage
Reporting Plan	NIGN Patient Safety Component nome Page
Patient	
Event	Use the Navigation bar on the left to access the features of the application
Procedure	ose the wavigation bar on the left to access the reactives of the application.
Summary Data	
Import/Export 🥌	
Analysis	Action items
Surveys	
Users	
Facility	You must complete these items.
Group	• Conter lights <u>not accepted</u>
Tools	Alerts
Log Out	
-	You have <u>2</u> incomplete events
	You have <u>130</u> missing events
	You have <u>26</u> incomplete summary items You have <u>123</u> missing summary items
	You have 9 incomplete procedures
	You have <u>318</u> missing procedures
	You have <u>26</u> missing Procedure-associated events
	You have <u>14</u> unusual susceptibility profiles
	and a second

- On the left navigation panel.
 - Select the Import/Export option.

Selecting the Import/Export Type

In the Import/Export drop-down list, select either:

- (CDA) Events, Summary Data, Procedure Denominators
- (CDA) SSI events

SSI records must be imported in a separate zip file <u>after</u> importing the associated Procedure event records.

NHSN also accepts CSV file format for the following:

- Patients
- Procedures
- Surgeons

(This is not addressed in these slides)

Select import/export type	
Select import/export type	
em Patients	
Procedures CSV import	
con Surgeons	
Events, Summary Data, Procedure Denominators	
SSI events (requires link to procedure)	DA import
Export Facility Data	
Export Location List	
Export Surgeon List	

Selecting the CDA Zip file to Import

Click the Browse button.

Using the browsing window, select the CDA zip file to be imported into NHSN.

	Import/Export Data
Events, Summary Data, Procedure Denominators	
	Browse
Submit Back	

Import Events, Summary Data, Procedure Denominators

When the CDA zip filename displays in the Selected Data File field, click Submit.

The import validation process begins.

Facility XYZ Medical Center (ID 10009) is following the PS component.	Import/Export Data
Events, Summary Data, Procedure Denominators	
\\cdc.gov\project\NCEZID_DHQP_SB\Surveill Browse	
Submit Back	

After the initial import validation process has completed for the zip file, the system displays the validation results. At this point, the records have not been imported into the NHSN application.

User can verify import information for each tab:

Events

Procedures



User can verify:

- *"# of Records that Passed": shown in top table*
- "Status" of each CDA:
 - displays if Error(s) present
 - if no errors exist, then will display "Ready for Import".

NHSN Home Alerts Reporting Plan Patient Event Procedure	Logged into _XVZ in I Facility _XVZ in PrePr Records Proc	PreProd (ID 10009) as MIND od (ID 10009) is following th essed	vd. 18 PS component. Import Eve	ents, Procedur	es and/or Summary Dat	ta
Summary Data	Record Ty	pe # of Recorc	# Passed # of Update	5*		
Analysis	Events	16	14 0	_		
Summary Data 0 0 0						
Users	Procedures	6	6 0	_	\ \	4
Facility	*CDA SetID al data will be ov	ready exists in the o rerwritten.	database; existing		\	4
Group						
	Validation Re	sults				
	Events	Summary Data	Procedures			
	Event Type	Event Date	Patient ID	Location	Set ID	Status
	NOEVENT	NO DATE	NO PATIENTID	NO LOCATION CODE	NO SETID	Error(s) present
	LABID	05/24/2014	MHD_1015e	ICU-A	2.16.840.1.113883.3.117.1.1.5.2.1.1.3678-MH	Error(s) present
	UTI	01/02/2015	MHD_1015C_MDF	OY MEDSURG64	2.16.840.1.113883.3.117.1.1.5.2.1.1.11474-R	2Ready for Import (Add)
	UTI	01/02/2015	MHD_1015_0848	ICU-A	2.16.840.1.113883.3.117.1.1.5.2.1.1.15807-r	Ready for Import (Add)
	UTI	01/01/2015	MHD_1015_0849	ICU-A	2.16.840.1.113883.3.117.1.1.5.2.1.1.11836-r	2 Ready for Import (Add)
the second secon		0 21/20	StAur-Bld	Constant of the Constant	12. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

- If at least one CDA passes the validation process for import, the 'Submit' button is enabled at the bottom of the screen.
 - When the Submit button is enabled, click it.
 - The valid CDAs are imported into the NHSN database.
 - The CDAs with an error will <u>not</u> import into NHSN.

Records Processed

Record Type	# of Record	# Passed	# of Updates
Events	2	1	0
Summary Data	0	0	0
Procedures	0	0	0
*CDA SetID already ex data will be overwritte	xists in the n.	database;	existing

Validation Results

- If at least one CDA <u>fails</u> the validation process for import, the 'Error Report" button is enabled at the bottom of the screen.
 - Click the "Error Report" button to view a detailed error report.

Records Processed

Record Type	# of Record	# Passed	# of Updates*
Events	2	1	0
Summary Data	0	0	0
Procedures	0	0	0
*CDA SetID already ex data will be overwritte	xists in the n.	database;	existing

Validation Results

Events	Summary Data	Procedures			
Event Type	Event Date	Patient ID	Location	Set ID	Status
UTI	04/13/2015		4BRN	2.16.840.1.114222.4.3.2.2.1.261.1.2.1-344	Error(s) present
UTI	04/13/2015	2-QA5307922	ICU-A	2.16.840.1.114222.4.3.2.2.1.261.1.2.1-344	Ready for Import (Add)
Error Report	Submit Cancel				

Error Report

When you click the 'Error Report', a file in PDF format is generated and displayed showing the details of the error.

The file can be saved or printed.

ImportDetails - CDA(s) Failed

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

			Name		souu	Exists in the Database	Processing Date/Time Stamp
17705 UTI		04/13/2015	UTI_344.:	xmi	ml 2.16.840.1.114222. 4.3.2.2.1.261.1.2.1- 344	No	19/Nov/2015 15:16:35 EST
Reason for failu	ire:	•					· · · · · · · · · · · · · · · · · · ·
1	.1			User cann organizatio	ot upload the docum on. Please correct the	ents for a different e error and upload ag	jain.
1	.2			Patient ID is required.			
1	1.3			You have a meets crite this location or exit and	submitted a pathoge eria for in-plan MDR(on. Change MDRO In I revise plan.	n/drug susceptibility t D infection surveilland fection Surveillance t	hat xe in to Yes

- When valid CDAs have been successfully imported and saved in the NHSN database, a message displays indicating the a successful import.
- A report can be generated showing details of the import process. If desired, click the 'Show Report' button.

Validation R	esults							
Events	Summary Data	Procedures						
Event	Type Event I	Date	Patient ID	Location				
* No ever	nts found in the import	ed file.	Success					
Error Report Submit Cancel			data (2nd 2 NHSN Data	Successfully imported all CDA document data (2nd zip file to Import_SumRpts.zip) into the NHSN Database.				
				Show R	eport OK			

Confirmation of CDA import – Error Report or Report

When you click the 'Show Report" button, a PDF format file is generated and displayed. The file can be saved or printed. The report has summary and detailed sections.

C	DA Import Report: Zi	ip File Name: Vendor.	zip] 🤇 📕		
E	ACILITY: XYZ in PreProd	Date of Import: 19/Nov	/2015 03:23:29 EST		- 🕴 🗖		
s	ummary:10009					ImportDetai	ils - Valid for each re
E	vent ID	Total # attempted	Total # Passed Validation	Total # of Updates*	ا 🖌 ا	Facility ID:	Event Typ
s	summary:17705	1-		1-		10009	UTI
	vent ID vents	Total # attempted	Total # Passed Validation	Total # of Updates*		ImportDetai Line listing	ils - CDA(s for each re
		1-1				Facility ID:	Event Ty
						17705	UTI
						Reason for failur	re:
						1.	2
						1.	.3
	61						

mportDetails - Valid ine 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
10009	UTI	04/13/2015	479736	for xyz_UTI_344.xm I	2.16.840.1.1142 22.4.3.2.2.1.261. 1.2.1-344	No	19/Nov/2015 15:23:29 EST

ImportDetails - CDA(s) Failed Line listing for each record that failed validation and did not import

Facility ID:	Event Type	Event Date	CDA Fi Name	le	setId	*setId Already Exists in the Database	CDA Processing Date/Time Stamp
17705	υτι	04/13/2015	UTI_344.:	xml	2.16.840.1.114222. 4.3.2.2.1.261.1.2.1- 344	No	19/Nov/2015 15:23:29 EST
Reason for failure:							
1.1				User canr organizati	not upload the docum ion. Please correct th	ents for a different e error and upload ag	gain.
1.2					Patient ID is required.		
1.3				You have meets crit this locati or exit an	submitted a pathoge teria for in-plan MDR(on. Change MDRO In d revise plan.	n/drug susceptibility t D infection surveillance fection Surveillance	hat æin to Yes

SSI Events

SSI must be imported <u>after</u> the matching Procedure exist in the NHSN database.

□ Select the "SSI events" icon and Browse for the SSI CDA Zip file.

Click the "Submit" button.



SSI Events

The SSI- Procedure link is displayed. You may validate the correct linkage occurred by clicking the Procedure ID show in blue (Proc ID)

Click the 'Error(s) present' link to view errors or click the 'Submit' button to import the SSI

CDAs.

Recording	pe # of Record	# Passed	# of Updates*				
urgical Site I	nfection: 4	4	0				
CDA SetID al ata will be ov	ready exists in the erwritten.	database;	; existing				
alidation De	culto						
	suits						
551							
		-	-1			6 - 1 D	-
Event Type	Event Date	Pa	atient ID	Proc Code	Proc Date	Set ID	Status
SSI	01/10/2015	MHD_10	15Aa	AMP	01/05/2015	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-MHD	Ready for Import (A
Link to	o:	c ID)					
SSI	01/28/2015	A-MHD_	HPRO_1015	HPRO	01/25/2015	2.16.840.1.113883.3.117.1.1.5.2.1.1.1-SSI-	Ready for Import (A
): • 539772 (Pro	c ID)					
Link to			152.00	HYST	01/01/2014	2.16.840.1.113883.3.117.1.1.5.2.1.1.1289-N	Ready for Import (A
Link to SSI	01/20/2014	MHD_10	isa_sp				
Link to SSI Link to	01/20/2014 •: • 539773 (Pro	MHD_10 c ID)	15a_sp				
Link to SSI Link to SSI	01/20/2014 0: • <u>539773</u> (Pro 11/27/2013	MHD_10 c ID) MHD_10	15a_sp	HYST	11/01/2013	2.16.840.1.113883.3.117.1.1.5.2.1.1.9605-	Ready for Import (A
Link to SSI Link to SSI	01/20/2014 : • <u>539773</u> (Pro 11/27/2013 : • 539774 (Pro	MHD_10 c ID) MHD_10	115a_sp	HYST	11/01/2013	2.16.840.1.113883.3.117.1.1.5.2.1.1.9605-N	Ready for Import (A

Viewing imported data

Imported data may be viewed in the User Interface.
 Linked Procedure and SSI records display the record is linked



Things to remember

- Contact your infection control software vendor support staff first for error messages that appear on the Error Report produced by the import function.
- Users need "Administrator" rights in order to upload all CDA types
- All records imported must fall within a previously entered monthly reporting plan.
 - Therefore, no "out of plan" events can be imported using the CDA function.
- All location entries must be made in NHSN prior to the first CDA import
- **Each SSI record must be linked to its procedure**
- **Reference the NHSN website for more CDA information.**
- Contact NHSN CDA support at <u>NHSNCDA@cdc.gov</u> for any issues that relate to use of the CDA Import function.