

RESOURCE AND PATIENT MANAGEMENT SYSTEM

Controlled Drug Export System

(BPDM)

Ensemble Configuration Guide

Version 2.0 Patch 6 November 2022

Office of Information Technology Division of Information Technology

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Preface

The Controlled Drug Export System is used to identify prescriptions for controlled drugs and other specified drugs dispensed at Indian Health Service and tribal health care facilities and create an export file for transmission to state Prescription Drug Monitoring Programs (PDMP). Data is extracted from the Resource and Patient Management System (RPMS) Outpatient Pharmacy Application in operation at the local facilities. This software creates the export file and saves it in a secure directory as defined by facility's RPMS Site Manager or other Information Technology (IT) management personnel.

This document details the configuration of an Ensemble production to automate the upload of the export file to the state PDMP. Automated upload via Ensemble provides a more robust, reliable upload process and adds more efficient error monitoring and email alert capability.

1.0 Ensemble Install and Configuration

It is recommended to configure BPDM in RPMS prior to setting up the Ensemble BPDM Production. Sites currently using the BPDM system will have already completed the configuration. For sites new to BPDM, see the BPDM User Manual for parameter set up.

1.1 Create Database and Namespace

Login in to HealthShare Management Portal with appropriate credentials. The Home page displays.



Figure 1-1: Import results

Click on System Administration, then select Configuration, then System Configuration, then Namespaces.

Menu Home About Help Logout			
Welcome, _SYSTEM	Server: DESKTOP-I83BQB4	Namespace: %SYS Switch	Instance: HEALTH SHARE
View:			Search:
	Configuration »	System Configuration »	Memory and Startup
Home	Security »	Connectivity »	Namespaces
	Licensing »	Mirror Settings »	Local Databases
HealthShare	Encryption »	Database Backup »	Remote Databases
(•)	Enterprise Manager	CSP Gateway Management	Journal Settings
		SQL and Object Settings »	
DeepSee		Device Settings »	
•		National Language Settings »	
		Zen Reports »	
Sector Ensemble		Additional Settings »	
System Operation			
System Explorer			
• •			
System Administration			

Figure 1-2: Close up view of System Administration window

The Namespaces window opens. Existing namespaces are listed in the main pane and there is a Create New Namespace button at the top.

Menu	I Home	About Help Lo	ogout Syste	em > Configurat	ion > Namespa	ces		
Nam	lespaces			Server: User:	DESKTOP-183BG _System	B4 Namespa Licensed t	ce:%SYS to: Property of the	e Indian Health Servic
	Create New	Namespace	Q	Refresh: 🧿	off O on 10) 🗘 sec		
Curre	ent Names	paces and the	eir default dat	tabases for g	globals and r	outines:		
Filter:		Page size: 0	Max rows: 10	00 Results:	11 Page: < <	: <mark>1</mark> ≫ ⇒ of 1		
	Namespace	Globals	Routines	Temp Storage				
	%SYS	CACHESYS	CACHESYS	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	-
	<u>CMBA</u>	CMBA	CMBA	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	DOCBOOK	DOCBOOK	DOCBOOK	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	EHR	EHR	EHR	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	ENSDEMO	ENSDEMO	ENSDEMO	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	HEALTHSHARE	HEALTHSHARE	HEALTHSHARE	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	HSCUSTOM	HSCUSTOM	HSCUSTOM	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	HSLIB	HSLIB	HSLIB	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	HSSYS	HSSYS	HSSYS	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	SAMPLES	SAMPLES	SAMPLES	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete
	USER	USER	USER	CACHETEMP	Global Mappings	Routine Mappings	Package Mappings	Delete

Figure 1-3: Close up view of the Ensemble Namespaces window

Click on **Create New Namespace**. The New Namespace window opens.

Enter the name of the new namespace. It should be named according to your local naming convention but similar in format to what is shown.

M	lenu	Home About Help Logout S	ystem > Co	onfiguration > Namespaces	> New Names	pace	
N	lew Nar	nespace*		Server: DESKTOP-I83BQB4	Namespace	SYS	
				User: _SYSTEM	Licensed to:	Property of the Indian Health Se	FVICE INSTANCE: HEALTHSHARE
	Save	Cancel					
U	Jse the	form below to create a new na	mespace	e:			
		News of the sec					
		Name of the ha	mespace	Required.			
			onu from				
		L. L	орупош	· · ·			
	The defa	ult database for Globals in this names	pace is a	Local Database			
				O Keniole Dalabase			
		Select an existing database for	r Globals	Required	-	Create New Database	
				ivequired.			
1	The defau	It database for Routines in this names	pace is a	💿 Local Database			
				Remote Database			
		Select an existing database for	Routines		-	Create New Database	
	Creat	e a default Web application for this na	moenaco				
	crout	e a delaat freb application for ano na	neopuee				
		Copy namespace mapp	ngs from	~			
		Make this a Health Share na	mespace				

Figure 1-4: Close up view of the New Namespace window

At the 'Select an existing database for Globals' field, click on **Create New Database**. The Database Wizard opens.

HL7 Mapping HL7 V2 to FHIR × 🕐 New Nar	+ +	- 🗆 ×
$\leftarrow \rightarrow \mathbf{C}$ O D localhos		☆ ♡ ⓒ 🤌 ≡
- 🕄 Import bookmarks 🖕 Getting Started 🗋 Cimarron	□ IHS 🌣 Most Visited 🕀 Eastern Sierra Trails 🗅 From Google Chrome	C Other Bookmarks
Menu Home About Help Logout System > New Namespace*	-Configuration > Namespaces > New Namespace Server [ESKTOP/B30009] Namespace: %5YS User _SYSTEM Ucened to Property of the Indian Health Service Instance: HEALTHSHARE	InterSystems [•] HealthShare
Save Cancel		New Namespace
Use the form below to create a new namesp	Database Wizard X Database Wizard User_SYSTEM Namespace %SYS	
Copy fro The default database for Globals in this namespace is	This wizard will help you create a new database. Enter the name of your database CMBA_REDM	
Select an existing database for Globa	Required Database directory (Chabases/gmba_bodg) Required Required	
The default database for Routines in this namespace is		
Select an existing database for Routine		
Create a default Web application for this namespace		
Copy namespace mappings fro		
Make this a HealthShare namespace		
	Bock Next Finds Concel Help	

Figure 1-5: Ensemble with Database Wizard window

Enter the name of the database; make it the same as the namespace, unless instructed otherwise. Click **Browse** and navigate to the directory created for this database. If a directory has not been created for this database, you will need to create the directory similar to those for other Ensemble databases.

Database Wizard						
Database Wizard	I		User:_SYSTEM Namespace: %SYS			
This wizard will help you create	This wizard will help you create a new database.					
Enter the name of your database	CMBA_BPDM Required.					
Database directory	C:\Databases\cmba_bpdm\ Required.	Browse)			
	Back	Next Finish	Cancel Help			

Figure 1-6: Database Wizard name and directory fields

Click Next. The database details display. No edits are required on this page.

Database Wizard		×
Database Wizard	N	User:_SYSTEM amespace: %SYS
Enter details about the database.		
Initial Size (MB)	This determines how big the Initial database will be.	
Block size for this database will be	Block size is the size of the blocks that the databases uses.	
Journal globals?	Yes V Select Yes' to journal globals in this database.	
Encrypt database?	No V You may not create an Encrypted Database because Encryption is not activated.	
	Back Next Finish Can	el Help

Figure 1-7: Database Wizard database details window

Click Next. The database resources display. No edits are required on this page.

Database Wizard	×
Database Wizard	User:_SYSTEM Namespace: %SYS
Database resources control access to the contents of Caché databases.	
What Is the Database Resource for This Database?	
I want to O Use the default resource, %DB_%DEFAULT O Use an existing resource Create a new resource Database Resource %DB_%DEFAULT	
Back Next Finish Co	ncel Help

Figure 1-8: Database Wizard resource window

Click **Next**. A summary of the information displays. Review the information and make sure it matches these instructions.



Figure 1-9: Database Wizard summary window

Click Finish. You are returned to the New Namespace window.

At the 'Select an existing database for Routines' field, click and select the database just created.

Menu	Home About Help Logout	System > Co	nfiguration > Namespaces	> New Names	pace
lew Na	amespace*		Server: DESKTOP-183BQB4	Namespace	%SYS Property of the Indian Health
โรลเ	/e Cancel			Electriced to.	roperty of the malan neural
Uu	Guileor				
Jse th	e form below to create a new	namespace	9:		
	Name of the	e namespace	CMBA_BPDM Required.		
		Copy from	~		
The de	efault database for Globals in this na	mespace is a	O Local Database ○ Remote Database		
	Select an existing databas	se for Globals	CMBA_BPDM Required.	•	Create New Database
The def	ault database for Routines in this na	mespace is a	 ● Local Database ○ Remote Database 		
	Select an existing database	of for Routines	CMBA_BPDM	•	Create New Database
Сге	ate a default Web application for this	s namespace			
	Copy namespace m	appings from	~		
	Make this a Health Char	o namocnaco			

Figure 1-10: Close up view of New Namespace window

Click **Save** at the top of the form. The namespace is created. The results are listed in a separate page.

Enable Ensemble Namespace
Namespace: CMBA_BPDM User: _SYSTEM Begin at 2022-08-15 10:59:43
Enabling namespace 'CMBA_BPDN' for Ensemble: * This instance is not in a mirror * Mappings - Class: + Adding class mapping Ens> ENSLIB + Adding class mapping Enslib> ENSLIB + Adding class mapping EnsPortal -> ENSLIB + Adding class mapping CSPX.Dashboard -> ENSLIB - Routine: + Adding routine mapping Ens* -> ENSLIB - Global: + Creating new global directory entry for ^CacheMsg + Creating new global directory entry for ^CacheMsg + Creating new global directory entry for ^EnsDICM.Dictionary + Creating new global directory entry for ^EnsDI.ASTM.Description + Creating new global directory entry for ^EnsDI.ASTM.Description + Creating new global directory entry for ^EnsDI.Schema + Creating new global directory entry for ^EnsDI.X12.Description + Creating new global directory entry for ^EnsDI.X12.Schema + Creating new global directory entry for ^EnsHL7.Description + Creating new global directory entry for ^EnsHL7.Schema + Creating new global directory entry for ^EnsHL7.Schema + Adding global mapping `CacheMsg("Arial,Tahoma,Verdana") -> ENSLIB + Adding global mapping `CacheMsg("Confirm") -> ENSLIB
<pre>+ Adding global mapping ^CacheMsg("EDIDocumentView") -> ENSLIB + Adding global mapping ^CacheMsg("Ens") -> ENSLIB + Adding global mapping ^CacheMsg("EnsAPLext") -> ENSLIB + Adding global mapping ^CacheMsg("EnsColumns") -> ENSLIB + Adding global mapping ^CacheMsg("EnsColumns") -> ENSLIB + Adding global mapping ^CacheMsg("EnsColumnsENSDEMO") -> ENSLIB + Adding global mapping ^CacheMsg("EnsDICOM") -> ENSLIB + Adding global mapping ^CacheMsg("EnsDICOM") -> ENSLIB</pre>
<pre>+ Adding global mapping ^CacheMsg("EnsDEIDemodquot;) -> ENSLIB + Adding global mapping ^CacheMsg("EnsEDIEJFACT") -> ENSLIB + Adding global mapping ^CacheMsg("EnsEDIHL7") -> ENSLIB + Adding global mapping ^CacheMsg("EnsEDISIEF&Quot) -> ENSLIB + Adding global mapping ^CacheMsg("EnsEDIX12") -> ENSLIB</pre>
<pre>+ Adding global mapping ~CacheMsg("EnsPusnNotTriCationS") -> ENSLIB + Adding global mapping ^CacheMsg("EnsRecordMap") -> ENSLIB + Adding global mapping ^CacheMsg("EnsSAP") -> ENSLIB + Adding global mapping ^CacheMsg("EnsSVaFATBLe") -> ENSLIB + Adding global mapping ^CacheMsg("EnsWf") -> ENSLIB + Adding global mapping ^CacheMsg("EnsXPATH") -> ENSLIB + Adding global mapping ^CacheMsg("EnsxPATH") -> ENSLIB + Adding global mapping ^CacheMsg("EnsxPATH") -> ENSLIB + Adding global mapping ^CacheMsg("EnsebXML") -> ENSLIB + Adding global mapping ^CacheMsg("EnsebXML") -> ENSLIB + Adding global mapping ^CacheMsg("Ensemble") -> ENSLIB + Adding global mapping ^CacheMsg("EnseMsquot;) -> ENSLIB + Adding global mapping ^CacheMsg("EnseMs</pre>

Figure 1-11: Partial view of Ensemble namespace creation results

Scroll to the bottom of the page and click **Close**. The new namespace is created and appears in the list.

1.2 Import the Production

Open Studio from the HealthShare Taskbar icon. Log in with appropriate credentials.

If you have not previously selected a namespace, the Cache Connection Manager opens. If you have previously selected a namespace, you will need to click **File** and select **Change Namespace** to open the Cache Connection Manager window.

Select the namespace that was created in the previous steps and click **OK**.

Cache Connection Manager					
Select a Cache server and namespace from the list.					
Server:					
HEALTHSHARE (localhost[1972])	<u>C</u> onnect				
Namespace:					
%SYS	-				
СМВА					
CMBA_BPDM	1				
DOCBOOK					
EHR					
ENSDEMO					
HSCUSTOM					
SAMPLES	ОК				
USER					
	Cancel				

Figure 1-12: Cache Connection Manager window

Click **Tools** then select **Import Local**.

A HEALTHSHARE/BCOMTEHRC@ma - I	Default_ma .prj - Studio
File Edit View Project Build Debug	Tools Utilities Window Help
: 扚 🚅, 🖵 🗿 🏐 🖸 🗈 🐰 🗈 🛍	Class Browser Ctrl+W
	Show Plan for SQL statement
	Templates •
	Add-Ins •
	Task List
	Export Ctrl+Shift+I
	Export Special
	Import Remote
	Import Local Ctrl+I
	Compare Ctrl+Alt+C
	Copy Class
	Generate C++ projection
	Import and Export Settings
	Options
	Customize

Figure 1-13: A close up view of the Studio Tools menu

The Open window opens. Navigate to and select the **bpdm0200.06.xml** file and click **Open**.

冉 Open				×
← → • ↑ <mark> </mark> «	August > BDPM p6	✓ [™]	Search 8-31 BDPM p6	it1 ,0
Organize 🔻 New fo	older			- 🔟 ?
💻 This PC	Name	Date modi	Туре	Size
📃 Desktop	🗹 曾 bpdm0200.06	8/31/2022	XML Document	5 KB
Documents	📄 bpdm0200.06k	8/31/2022	06T1K File	526 KB
Downloads	🗋 bpdm0200.06 n	8/31/2022	06T1N File	9 KB
👌 Music				
Pictures				
Videos				
늘 ADC DO NOT US	v <			>
Fil	e name: bpdm0200.06	~	All Files (*.*)	~
			Open	Cancel

Figure 1-14: Selecting the import file

The import dialog displays. There will be four files to import. The names may be slightly different than shown here.

	Import				
Sel	ect items you wish to import				
lt	em	File Date	Date on server		
	BPDM.SFTP.cls	2022-08-31 13:22:38	2022-06-16 13:54:40		
	BPDM.SFTP.RoutingRule.cls	2022-08-31 13:22:38	2022-05-26 13:41:21		
	EnsExportNotes.EnsExportProduct	2022-08-31 13:22:38			
	EnsExportProduction_2022-06-16	2022-08-31 13:22:38			
	Add Inserted Items to Designt				
M	Add imported items to Project				
V	Compile Imported Items				
	Select All Unselect All		OK Cance		

Figure 1-15: Import dialog with 4 files

Click OK.

If successful, the following displays in the Output pane:



Figure 1-16: Import results

You may exit Studio.

1.3 Configure the sFTP Production for PDMP

The following configuration instructions are for the main or only site. If there are additional divisions at your site that upload using different credentials, please use the instructions in Section 1.4 once the main site is configured.

Note: Before Enabling the BPDM Production you will need to make sure all current files that have already been sent to the PMP are moved to the Archive folder. This is very important otherwise they will get uploaded to the PMP again when the production is Enabled.

Ensure the BPDM Production is installed per the previous steps.

If you are a new PMP Upload site, you will need to create and upload keys as described in the BPDM User Manual section 5.2 before configuring the Ensemble production.

If this is an existing PMP Auto Upload site, someone at the facility with Superuser access will need to run the following from a command prompt on the existing key file(s) in the folder where the key exists:

ssh-keygen -p -m pem -f authorized_keys

Go to the BPDM Production in Ensemble. Click **Ensemble**, then **Configure**, then **Production**.

Menu Home	About Help Logout			
Welcome, ma		Server: HQABQDITDDEHR1 User: ma	Namespace: TEHRD_BPDM Switch Licensed to: OIT-EHR1-DEV	
View:			Search:	
		Configure »	Production	
Hom	e	Build »	Business Partners	
		View »	Credentials	
Heat	lthShare	List »	Schedule Specs	
	lionare	Monitor »	Data Lookup Tables	
		Manage »	System Default Settings	
Deep	See	Interoperate »	Enterprise Systems	
		Test »	Public-Service Registry	
			External-Service Registry	
O Ense	emble		Message Bank Link	

Figure 1-17: A close up of Ensemble selecting Configure menu option

The first time you do this, the production will not be open, but there are New and Open buttons at the top of the page. Click **Open**, then select **BPDM**, then **SFTP**.

Menu Home HealthShare About Help Production Configuration	Logout Ensemble > Production C Server: HQABQDITDDEH User: mai	Configuration R1 Namespace: TEHRD_BPDN Licensed to: OIT-EHR1-DEV	1 Switch This is a Development / Instance: HEALTHSHA	System L InterSystems RE HealthShare
View: View: O	Q Refresh: ○ ON	Off Sort: Name	Status Number	Production Configuration
Services 🛞 Pro	cesses 🕤 🛛 O	perations 🕣	Settings Queue Log M	lessages Jobs Actions
Open a Production to display its cor	figuration.			

Figure 1-18: Ensemble Production Configuration before opening the production

Select the **GetBPDM** Service and open the Basic Settings.

	- 🗆 ×
← → C D localhost:57772/csp/healthshare/cmbb/EnsPortal.ProductionConfig.zen?PRODUCTION=BPDM.SFTP	☆ ♡ III\ =
Menu Home HealthShare About Help Logout Ensemble > Production Configuration BPDM.SFTP Server HOABQDTTDDEHR2 User CMBA Namespace CMBB Switch This is a Development System	InterSystems [•] HealthShare
View: Start Stop ORefresh: O on O off Sort: Name Status Number	Production Configuration
Production Suspended Category: Al v Legend Production Settings	GetBPDM
Services * Operations * Operati	Settings Queue Log Messages Jobs Actions Apply ♥ ♥ Search: • Informational Settings • Basic Settings Enabled ♥ Katernal Registry ID File Path G:PUB/BPDMarchwe/ Work Path G:PUB/BPDMarchwe/ Work Path Call Interval 5 sendBrDM • Additional Settings • Additional Settings • Additional Settings • Additional Settings • Additional Settings • Additional Settings, click on the Production Settings link in the title area of the configuration diagram.

Figure 1-19: Ensemble Production Configuration GetBPDM service.

Check the **Enabled** box if not already checked.

Production Configuration
GetBPDM
Settings Queue Log Messages Jobs Actions
Apply 🔻 🖨 Search:
Informational Settings
Enabled
External Registry ID
File Path
G:\PUB\BPDM\
File Spec
CMBA.*
Archive Path
G:\PUB\BPDM\archive\
Work Path
Call Interval
5
Target Config Names
SendBPDM 🔻
Additional Settings

Figure 1-20: GetBPDM Basic Settings detail

In the File Path field enter the path to where the PDM Export files are created or use the magnifying glass to select.

In the File Spec field enter the masking for the file, this will usually be the FILE NAME DESCRIPTOR field in the PDM SITE PARAMETERS concatenated with the DEFAULT FILE EXTENSION field, in the example above it is *CMBA*.*.

In the Archive Path field enter the path where the successfully uploaded files will be moved for backup purposes. If this folder does not currently exist it will need to be created.

Click Apply.

In the main pane, click **SendBPDM Operation** and open the Basic Settings.



Figure 1-21: SendBPDM Operation Settings

Check the **Enabled** box if not already checked.

	Production Configuration	n			
SendBPDM					
Settings Queue Log	Messages Jobs Actions				
Apply 🔻 🖨 Sea	rch:	^			
► Informational Setti	ngs				
Enabled					
External Registry	ID				
	•				
FTP Server					
sftp.pmpclearingho	ouse.net				
FTP Port					
22					
Credentials					
pmp 🔻 🥄					
File Path					
NM					
File Name					
%f					
- SETD Sottings					

Figure 1-22: SendBPDM Operation Basic Settings detail

In the FTP Server field enter **sftp.pmpclearinghouse.net** if not already present.

In the FTP Port field enter 22 if not already present.

Click Apply.

In the Credentials field enter **pmp** and then click the magnifying glass. The Credentials Viewer window opens.

Production Configuration	× 🐼 Crede	entials × +					- 🗆 ×
$\leftarrow \rightarrow C$	O 🗅 localh	nost:57772/csp/healthshare/cmbb/EnsPo	ortal.Credentials.zen?ID=pmp			☆	
Menu Home HealthShare	About Help Logo	ut Ensemble > Credentials Server: HOABQDITDDEHR2 Names User: CMBA License	ace: CMBB Switch This is a D d to: OIT-EHR2-DEV Instance:	evelopment System HEALTHSHARE			terSystems [®]
						Credentials	/iewer
Credentials are your authorization keys to connect to systems and applications outside Ensemble. The table shows all the credentials currently defined for this namespace You can use the form on the right to create, edit, or delete credentials.	e pmp	User name India505368769@prodpmpstp		Password xx	Business Partner	ID Indexter for this item User Name Indis503368799@prodpmpsftp User name used to connect to external a Password used to connect to external a Show typing Business Partner Indisess Partner Name of Business Partner Profile assoc Business Partners Configuration New Sove Remove	yatam yatam aled with this term on Page

Figure 1-23: Credentials Viewer

In the ID field enter **pmp**.

In the User Name field enter the User Name as listed in the PDM SITE PARAMETERS in RPMS.

In the Password field enter the password for the entered User Name.

Note: If the site has not used automated upload via sFTP before, the User Name and Password may have to be configured on the PMP Clearinghouse website.

Credentials Viewer
ID pmp Identifier for this item User Name
India5053668769@prodpmpsttp User name used to connect to external system Password
Password used to connect to external system Show typing During
Business Partner Image: Second system Name of Business Partner Profile associated with this item Business Partners Configuration Page
New Save Remove

Figure 1-24: Credentials Viewer detail

Click Save. You should now see the credentials listed.

To Navigate back to the Production, close the Credentials Tab at the top of the window. You should still see the SendBPDM Operation Basic Settings.

In the File Path field enter the path on the PMP server where the files are going to be uploaded. This is typically the relevant state abbreviation with no slashes.

t: Na	me	Status	Number	Produc	tion Co	onfigura	ation
Sen Setti	ndBl	PDM Queue	Log Messa	ges Jobs	Actions		
Ар	ply	▼ 🖧	Search:	-			
	Enat	oled					^
	Exte	rnal Reg	istry ID		•		
	FTP	Server	inghauco n	-+			
	FTP	Port	ingnouse.ne	÷l			
	22 Cred	lentials					
	pmp			,	▼₹		
	File NM	Path					
	File I	Name					
	%T						
• 5	SFTP	Settings					

Figure 1-25: Detail view of SendBPDM Basic Settings showing File Path

Open SFTP Settings.

File Name
%f
✓ SFTP Settings
SFTP Append Mode
Client
SFTP Public Key File
g:\pub\bpdm\authorized_keys.pub
SFTP Private Key File
g:\pub\bpdm\authorized_keys
SFTP File Access Mode
0600
Connection Settings

Figure 1-26: SFTP Settings for SendBPDM

In the SFTP Public Key File field, enter the path and filename to the public key file. It will typically be named authorized_keys.pub.

In the SFTP Private Key File field, enter the path and filename of the private key file. It will typically be named authorized_keys.

Click Apply.

On the main pane, select the EMailAlert Operation.

Open Additional Settings.

Number Production Configuration						
EMailAlert						
Settings Queue Log Messages Jobs Actions						
Apply 🔻 🖨 Search:						
	▲					
Additional Settings						
Schedule						
	▼ 🍕					
Pool Size						
1						
Recipient						
demouser.user@ihs.gov, demouser.admin@ihs.gov						
Cc						
Bcc	Bcc					
From						
bpdmpmpuploaderror@ihs.gov						
Continue If Invalid Recipient						
	~					
×						

Figure 1-27: EMailAlert Operation Additional Settings

In the Recipient field, enter email addresses of users that should receive transmission failure alerts separated by commas, e.g., <u>demouser.user@ihs.gov</u>, <u>demouser.admin@ihs.gov</u>.

The From email will already be filled in. However, consider adding "error" to the "From" email address as shown.

Open Alerting Control and change the Alert Retry Grace Period to 300 seconds.

EMailA	lert					
Settings	Queue	Log	Messages	Jobs	Actions	
Apply	▼ 🞝	Sea	arch:			
► Addit	ional Se	etting	IS			
▼ Alerti	ing Cont	trol				
Aler	t Retry (Grace	e Period			
300		J				
Que	ue Cour	nt Ale	ert			
0		J				
Que	ue Wait	Aler	t			
0		J				
Aler	t On Err	or				
Inac	tivity Ti	meou	ıt			
0		J				
Aler	t Group	S				
						<u>′</u>
► Deve	lopmen	t and	Debugging]		
To view	the Prod	uctio	n Settings, c	lick or	the Prod	luction

Figure 1-28: EMailAlert Operation Alerting Control settings

Click Apply.

Select the **Ens.Alert** Process. Confirm the Basic Settings and Additional Settings are as follows:



Figure 1-29: Ens.Alert Process settings detail

If needed, configure additional sites as noted in the following section. If no additional sites need to be configured, skip to section 1.5.

1.4 Additional BPDM Sites

If you have additional divisions that use separate credentials, you will need to create a new Service and Operation for each additional site. The following describes the process for creating an additional site.

1.4.1 Services

Click the **plus sign (+)** button next to the Services label.

Production Configuration	×	+		
$\leftarrow \ \rightarrow \ {\sf G}$	0	8	0	10.15
Menu Home HealthShare At	oout	Help	Log	out
BPDM.SFTP				
View:	St	art	S	top
Production Stopped				
Services 🖤				
GetBPDM				

Figure 1-30: Close up of Services label and plus sign button

The Business Service Wizard opens.

Business Service Wizard Server HOABODITDDEHR1 Namespace TEHRD_BPDM_Swit	ch This is a DevelopmerX
Business Service Wizard Add a new Business Service to this Production.	
All Services HL7 Input X12 Input Business Metric Service Class EnsLib.File.PassthroughService Service Name GetBPDMTEHRD Display Category Comment Enable Now Image: Comment in the service in the servic	▲ ↓ Use this form to add a new business service to the production. For help with any setting in this form, hover the cursor over the setting name.
	Cancel OK

Figure 1-31: Business Service Wizard

Under the Service Class select EnsLib.File.PassthroughService.

In the Service Name field, name the Service GetBPDM<sitename>.

Click OK.

Select the service you just created and open **Basic Settings**.

us Number	Production Configuration
GetBPDMTEHRD	
Settings Queue Log Me	essages Jobs Actions
Apply 🔻 🖨 Search	1: ·
→ Basic Settings	
Enabled	
External Registry ID	
	V
File Path	
G:\PUB\BPDM\TEHF	<u>کار</u>
File Spec	
TEHRD.*	
Archive Path	
G:\PUB\BPDM\TEHF	RD\Archive\
Work Path	
	Q
Call Interval	
5	
Target Config Name	5
	•
•	•

Figure 1-32: The new Service's Basic Settings

In the File Path field enter the path to where the PDM Export files are created or use the magnifying glass to select.

In the File Spec field enter the masking for the file, this will usually be the FILENAME field in the PDM SITE PARAMETERS concatenated with the DEFAULT FILE EXTENSION field, in the example it would be *TEHRD*.*.

In the Archive Path field enter the path where the successfully uploaded files will be moved for backup purposes.

Open Additional Settings.

GetBPDMTEHRD
Settings Queue Log Messages Jobs Actions
Apply 🔻 🔹 Search:
▼ Additional Settings
Schedule
v 3
Pool Size
Subdirectory Levels
Charset
Native 🔻
Append Timestamp
0
Confirm Complete Writable
File Access Timeout
Semaphore Specification
Generate SuperSession ID
× •

Figure 1-33: The new Service's Additional Settings

In the Append Timestamp field change this to **0**.

In the Confirm Complete field change this to **Writeable**.

In the File Access Timeout field, change this to 10.

Click Apply.

Repeat for any additional sites.

1.4.2 Operations

Click the **plus sign** (+) button next to the Operations label.



Figure 1-34: The Operations label with the plus sign button to the right

The Business Operation Wizard opens.

Bus	iness Operation Wizard	Server: HQABQDITDDEHR1 Namespace: TEHRD	_BPDM Swit	ch This is a De 🗙
6	Business Add a new l	Operation Wizard Business Operation to this Production.		
	All Operations HL	7 Output X12 Output Workflow EnsLib.FTP.PassthroughOperation		Use this form to add a new business
	Operation Name Display Category	SendBPDMTEHRD		operation to the production
	Comment	Sends the PDM Export File to the PMP Processor		For help with any setting in
	Enable Now			this form, hover the cursor over the setting name.
			Cancel	ОК

Figure 1-35: Business Operation Wizard

In the Operation Class select **EnsLib.FTP.PassthroughOperation**.

In the Operation Name field, name the operation SendBPDM<sitename>.

In the Comment field enter Sends the PDM Export File to the PMP Processor.

Click OK.

Select the Operation you just created and open **Basic Settings**.

SendBPDMTEHRD
Settings Queue Log Messages Jobs Actions
Apply 🔻 🖨 Search:
· · · · · · · · · · · · · · · · · · ·
Basic Settings
Enabled
External Registry ID
FTP Server
sftp.pmpclearinghouse.net
FTP Port
22
Credentials
▼
File Path
File Name
%f_%Q
SFTP Settings
↓
×

Figure 1-36: The new Operation's Basic Settings

In the FTP Server field enter **sftp.pmpclearinghouse.net**.

In the FTP Port field enter **22**.

Click Apply.

In the Credentials field enter **pmp<sitename>** and then click the magnifying glass. The Credentials Viewer window opens.

	Credentials Viewer
ID	
Identifie	er for this item
User N	Vame 5053668770@prodpmpsftp
User na	me used to connect to external system
Passw	•••••
Passwo	rd used to connect to external system
Busine	ess Partner
	▼ 3
Name o Busir	f Business Partner Profile associated with this item ness Partners Configuration Page
New	Save Remove

Figure 1-37: Credentials Viewer detail

In the ID field enter pmp<sitename>.

In the User Name field enter the User Name as listed in the PDM SITE PARAMETERS.

In the Password field enter the password for the entered User Name.

Note: If the additional site has not used automated upload via sFTP before, the User Name and Password may have to be configured on the PMP Clearinghouse website.

Click Save. You should now see the credentials listed.

To Navigate back to the Production, close the Credentials Tab at the top of the window. You should still see the SendBPDM Operation Basic Settings.

SendBPDMTEHRD					
Settings Queue Log Messages Jobs Actions					
Apply 🔻 🗟 Search:					
· · · · · · · · · · · · · · · · · · ·					
Basic Settings					
Enabled					
External Pegietry ID					
FTP Server					
sftp.pmpclearinghouse.net					
FTP Port					
22					
Credentials					
pmpTEHRD 🔻 🔧					
File Path					
NM					
File Name					
%f					
SETP Settings					
▼					
•					

Figure 1-38: The new Operation's Basic Settings, continued

In the File Path field enter the path on the PMP server where the files are going to be uploaded. This is typically the relevant state abbreviation with no slashes.

In the File Name field remove everything except %f.

Click Apply.

Open SFTP Settings.

File Name			
%f			
✓ SFTP Settings			
SFTP Append Mode			
Client			
SFTP Public Key File			
g:\pub\bpdm\authorized_keys.pub			
SFTP Private Key File			
g:\pub\bpdm\authorized_keys			
SFTP File Access Mode			
0600			
Connection Settings			

Figure 1-39: The new Operation's SFTP Settings

In the SFTP Public Key File enter the path and filename of the public key, it should be authorized_keys.pub.

In the SFTP Private Key File field enter the path and filename of the private key, it should be authorized_keys.

Click Apply.

Open Connection Settings.

Settings Queue Log Messages Jobs Actions Apply ▼ Image: Search: Image: Search:
Apply ▼
SFIP Settings Connection Settings SSL Configuration
Connection Settings SSL Configuration
SSL Configuration
ISFIP
UsePASV
Stay Connected
5
5
Additional Settings
Alerting Control
5
Development and Debugging
To view the Production Settings, click on the Production Settings link in the title area of the configuration diagram.

Figure 1-40: The new Operation's Connection Settings

In the SSL Configuration field enter **!SFTP**.

In the Stay Connected field change this to 5.

Click Apply.

Repeat for any additional sites.

1.4.3 Link Operation to Service

Click on the Service that was created in Section 1.4.1.

In the Basic Settings section click on the **Target Config Names** drop down and select the matching Operation that was created.

GetBPDMTEHRD
Settings Queue Log Messages Jobs Actions
Apply 🔻 🖨 Search:
Basic Settings
Enabled
External Registry ID
File Path
G:\PUB\BPDM\TEHRD\
File Spec
TEHRD.*
Archive Path
G:\PUB\BPDM\TEHRD\Archive\
Work Path
Call Interval
5
Target Config Names
SendBPDMTEHRD V

Figure 1-41: Basic Settings Section, click Target Config Name drop down menu and select newly created matching Operation

Click Apply.

Repeat for each Service you created.

1.5 Enable the Production

Note: Before Enabling the BPDM Production you will need to make sure all current files that have already been sent to the PMP are moved to the Archive folder. This is very important otherwise they will get uploaded to the PMP again when the production is Enabled.

If your site is an existing auto upload site, you will need to use Fileman in RPMS to edit the PDM SITE PARAMETERS file. You must set the AUTO UPLOAD and SFTP RENAME EXPORT FILE fields to **NO** as this Ensemble automated upload process does not use those parameters. Leaving the settings will cause duplicate uploads.

```
Select OPTION: ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE: PDM SITE PARAMETERS
(3 entries)
EDIT WHICH FIELD: ALL// AUTO UPLOAD?
THEN EDIT FIELD: SFTP RENAME EXPORT FILE
THEN EDIT FIELD:
Select PDM SITE PARAMETERS SITE/LOCATION: DEMO HOSP
AUTO UPLOAD?: YES// NO
SFTP RENAME EXPORT FILE: YES// NO
Select PDM SITE PARAMETERS SITE/LOCATION:
```

Figure 1-42: FileMan in RPMS to edit the PDM SITE PARAMETERS file

If this is an existing PMP Auto Upload site, someone at the facility with Superuser access will need to run the following from a command prompt on the existing key file(s) in the folder where the key exists:

ssh-keygen -p -m pem -f authorized_keys

Once everything has been configured, click the **Start** button at the top to start the production.

After clicking Start, any export files in the folder designated in the File Path field in GetBPDM will be automatically uploaded to the state. If no export files exist in the folder, you can move a file from the Archive folder to test the automated upload. This may result in a duplicate upload if the file was previously uploaded but will serve as a valid test of automated upload settings.

2.0 Monitoring the BPDM Production

If transmission fails for any reason, the recipients entered during the configuration steps above should receive an email alert. The emails will be specific to the problem encountered.

From: bpdmpmpup	<pre>bloaderror@ihs.gov bpdmpmpuploaderror@ihs.gov</pre>						
Sent: Thursday, June 30, 2022 2 <u>:29 PM</u>							
To:	(IHS/HQ) ▷; IHS/HQ) [C]						
<	>;						
Subject: BPDM PMP Upload Error Ensemble Alert from configuration item 'SendBPDM' on system							
'HEALTHSHARE'							
Ensemble alert em	ail triggered at 2022-06-30 15:29:04.412 [2022-06-30 21:29:04.412 UTC]						
Alert Text:	ERROR < Ens> ErrGeneral: Retrying Message body 7@Ens.StreamContainer /						
2 because Status 'ERROR < Ens> ErrOutConnectFailed: SFTP Connect failed for							
sftp.pmpclearingho	sftp.pmpclearinghouse.net:22/pmp/SSL='!SFTP'/PubKey='G:\PUB\BPDM\Patch 6 Release\authorized keys						
with error ERROR	with error ERROR #7500: SSH AuthenticateWithKevPair Error '-2146430958': SSH Error [80101012]:						
Username/PublicK	ey combination invalid [80101012] at Session.cpp:313.0' matched ReplyCodeAction 1 :						
'E=R' resulting in Action code R							
Alert Time:	2022-06-30 15:28:22.219 [2022-06-30 21:28:22.219 UTC]						
Production:	BPDM.SFTP						
Source:	SendBPDM						
Session:	555						
System:	HEALTHSHARE						
Instance:	HEALTHSHARE						
Node:	I.D1.NA.IHS.GOV						

Figure 2-1: A sample alert email

If it is a temporary issue, the file will upload once the issue is resolved. If it doesn't resolve, you can view the Event Log in Ensemble for the SendBPDM Operation.

To view the Event Log, click on the **SendBPDM** Operation and click the **Log** tab. This will display what the process has been doing over time.

Sort: Name Status Number			Production Configuration
Legend Production Settings	Send	BPDM	
Operations 👻	Settings	s Queue Lo	og Messages Jobs Actions
SendBPDM	50+ ro	ow(s) 11	:19:19 🖻 Go To Event Log 🖬 🔷
	Туре	Time	Text
	Info	2022-05-11 15:43:36.14	Disconnecting from 0 sftp.pmpclearinghouse.net
	Info	2022-05-11 15:43:31.13	Put stream 8@%Library.FileCharacterStream to NM/TEHRCDEMO_051122_1817T.txt
	Info	2022-05-11 15:43:30.95	Put stream 8@%Library.FileCharacterStream to NM/TEHRCDEMO_051122_1816T.txt
	Info	2022-05-11 15:43:30.77	Put stream 8@%Library.FileCharacterStream to NM/TEHRCDEMO_051122_1815T.txt
	Info	2022-05-11 15:43:30.60	Connected to FTP Server 'sftp.pmpclearinghouse.net:22/pmp /SSL='ISFTP'/PubKey='g:\pub bpdm\tehrc\authorized_keys.pub' /PrivKey='g:\pub\bpdm\tehrc \authorized_keys" at path 'NM' using Credentials 'pmp'
	Info	2022-05-11 15:43:29.24	ConfigItem 'SendBPDM' (EnsLib.FTP.PassthroughOperation) started in job 51304
	Alert	2022-05-11 15:40:42.01	ERROR <ens>ErrFailureTimeout: FailureTimeout of 15 seconds exceeded in EnsLib.FTP.PassthroughOperation; status from last attempt was ERROR <ens>ErrOutConnectFailed: SFTP Connect failed for sfp.pmpclearinghouse.net:22/pmp /SSL="ISFTP'/PubKey="g:\pub SL="ISFTP'/PubKey="g:\pub bpdm\tehrc\authorized_keys.pub" /PrivKey="g:\pub\bpdm\tehrc \authorized_keys' with error ERROR #7500: SSH Connect Error '-2147013895': No such host is known. [80072AF9]: No such host is known. [80072AF9]: No such host is known. [80072Af9] at\.\shared \Utility\utilNetSocket.cpp:969,0 (alert request ID=58)</ens></ens>
	Error	2022-05-11 15:40:42.01	ERROR <ens>ErrFailureTimeout: FailureTimeout of 15 seconds exceeded in EnsLib.FTP.PassthroughOperation; status from last attempt was ERROR <ens>ErrOutConnectFailed: SFTP Connect failed for sfp.pmpclearinghouse.net:22/pmp /SSL='ISFTP'/PubKey='g:\pub \bpdm\tehrc\authorized_keys.pub'</ens></ens>

Figure 2-2: The SendBPDM Log

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To get a detailed look at the log, click the **Go To Event Log** link at the top. The Event Log will open in a new tab.

Production Configuration	×	🚱 Event Loç	3		×	+							- 🗆 X
$\leftarrow \rightarrow C$	0	& ≕ 10.1	155.107.	39 :57772;	/csp/h	ealthshare/bcomtehrc/En:	sPortal.Ev	rentLog.:	zen?SOURCE	=SendBPDM			☆ ♡ \ \\ =
Menu Home HealthShare A	About F	Help Logout	Ens	emble > Ev	ent Log	3							1 InterSystems
Event Log			Server: User:	HQABQDI _SYSTEM	TDDEH	R1 Namespace: BCOMTER Licensed to: OIT-EHR1	HRC Swite	ch This i Insta	is a Developi ance: HEALT	nent System HSHARE			U HealthShare
Search Cancel Res	set	Previous	Nex	Exp	ort								Event Log
		×		Туре	ID	Time Logged	Session	Job	Source	Text	»	Trace	000
Quick Search				Info	989	2022-05-11 15:43:36.140		51304	SendBPDM	Disconnecting from sftp.pmpclearinghou		Type:	Alert
- Event Types		_		Info	988	2022-05-11 15:43:31.138	323	51304	SendBPDM	Put stream 8@%Library.FileCharacterStr		Text:	ERROR <ens>ErrFailureTimeout: FailureTimeout of 15</ens>
• Event Types				Info	987	2022-05-11 15:43:30.958	321	51304	SendBPDM	Put stream 8@%Library.FileCharacterStr			seconds exceeded in EnsLib.FTP.PassthroughOperation; status from last attempt was ERROR
 Search Events By 				Info	986	2022-05-11 15:43:30.772	318	51304	SendBPDM	Put stream 8@%Library.FileCharacterStr			<ens>ErrOutConnectFailed: SFTP Connect failed for</ens>
Start Time Sts	art ID			Info	985	2022-05-11 15:43:30.602	318	51304	SendBPDM	Connected to FTP Server 'sftp.pmpcleari			/PubKey='g:\pub\bpdm\tehrc\authorized_keys.pub'
	AIL ID			Info	981	2022-05-11 15:43:29.241		51304	SendBPDM	Configitem 'SendBPDM' (EnsLib.FTP.Pas			/PrivKey='g:\pub\bpdm\tehrc\authorized_keys' with error ERROR #7500: SSH Connect Error '-2147013895'
End Time End	id ID	_ /	» 🔲	Alert	966	2022-05-11 15:40:42.011	<u>312</u>	34716	SendBPDM	ERROR <ens>ErrFailureTimeout: Failure</ens>			No such host is known.
				Error	965	2022-05-11 15:40:42.010	312	34716	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>			[80072AF9]: No such host is known. [80072AF9] at \\shared\Utility\utlNetSocket.cpp:969,0 (alert request
Source Contig Item				Alert	962	2022-05-11 15:40:27.006	312	34716	SendBPDM	ERROR <ens>ErrOutConnectFalled: SF</ens>			ID=58)
Source Class Ses	asion IC	0		Error	961	2022-05-11 15:40:27.006	312	34716	SendBPDM	ERROR <ens>ErrOutConnectFalled: SF</ens>		Logged	2022-05-11 15:40:42.011
				Alert	960	2022-05-11 15:40:26.978	306	34716	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>		Source: Session	SendBPDM : 312
Source Method Job		_		Error	959	2022-05-11 15:40:26.978	306	34716	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>		Job:	34716
Text	_	_		Alert	955	2022-05-11 15:40:11.972	306	34716	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>		Class:	EnsLib.FTP.PassthroughOperation
				Error	954	2022-05-11 15:40:11.972	306	34716	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>		Method:	SendAlert
				Alert	951	2022-05-11 15:40:11.957	297	34716	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>		Stack:	(none)
Purge Event Log				Error	950	2022-05-11 15:40:11.956	297	34716	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>			
				Alert	948	2022-05-11 15:39:56.952	297	34716	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>			
				Error	947	2022-05-11 15:39:56.951	297	34716	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>			
				Info	943	2022-05-11 15:39:56.772		34716	SendBPDM	Confightern 'SendBPDM' (EnsLib, FTPPa)			
				Alert	924	2022-05-11 14:56:13.846	292	30532	SendBPDM	FRROR <ens>ErrFailureTimeout: Failur</ens>			
				Error	923	2022-05-11 14:56:13.845	292	30532	SendBPDM	FRROR <ens>ErrFailureTimeout: Failur</ens>			
				Alert	921	2022-05-11 14:55:58 839	292	30532	SendBPDM	ERROR <ens>ErrOutConnectEailed: SE</ens>			
				Error	920	2022-05-11 14:55:58 839	202	30532	SendBPDM	ERROR «Ens» ErroutConnectFailed: SE			
				Alert	920	2022-05-11 14:55:58 817	252	30532	SendBPDM	EPPOP <encserreailuretimeout eailur<="" td=""><td></td><td></td><td></td></encserreailuretimeout>			
				Fror	910	2022-05-11 14:55:50 016	200	20522	CandPPDM	ERROR Sens-circaliure (interout, i anur			
				Erroi	917	2022-00-11 14:00:00.010	288	30532	CandDDDM	ERROR <ens>EnFailure Inneout, Failur</ens>			
				Alert	915	2022-00-11 14:00:43.611	288	30532	Senderum	ERROR <ens>ErroutConnectFailed. or</ens>			
				Error	914	2022-05-11 14:55:43.811	288	30532	SendBPDM	ERROR <ens>ErroutConnectFaired. SF</ens>			
				Alert	909	2022-05-11 14:55:43.798	282	30532	Senderum	ERROR <ens>Err-allureTimeout. Failur</ens>			
				Error	908	2022-05-11 14:55:43.797	282	30532	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>			
				Alert	906	2022-05-11 14:55:28.788	282	30532	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>			
				Error	905	2022-05-11 14:55:28.788	282	30532	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>			
				Info	901	2022-05-11 14:55:28.708		30532	SendBPDM	Configitem 'SendBPDM' (EnsLib.FTP.Pa:			
				Alert	883	2022-05-11 14:53:05.380	277	46260	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>			
				Error	882	2022-05-11 14:53:05.379	277	46260	SendBPDM	ERROR <ens>ErrFailureTimeout: Failur</ens>			
				Alert	881	2022-05-11 14:52:50.373	277	46260	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF</ens>			
				Error	880	2022-05-11 14:52:50.372	277	46260	SendBPDM	ERROR <ens>ErrOutConnectFailed: SF ~</ens>			×
			`		_					,			· · · · · · · · · · · · · · · · · · ·

Figure 2-3: Event Log main view

Click on one of the line items to get a description of what is happening.

		Event Log	
»	Trace		^
"	ID:	966	
	Туре:	Alert	
	Text:	ERROR <ens>ErrFailureTimeout: FailureTimeout of 15 seconds exceeded in EnsLib.FTP.PassthroughOperation; status from last attempt was ERROR <ens>ErrOutConnectFailed: SFTP Connect failed for sfp.pmpclearinghouse.net:22/pmp/SSL='!SFTP' /PubKey='g:\pub\bpdm\tehrc\authorized_keys.pub' /PrivKey='g:\pub\bpdm\tehrc\authorized_keys' with error ERROR #7500: SSH Connect Error '-2147013895': No such host is known. [80072AF9]: No such host is known. [80072af9] at \\shared\Utility\utlNetSocket.cpp:969,0 (alert request ID=58)</ens></ens>	
	Logged:	2022-05-11 15:40:42.011	
	Source:	SendBPDM	
	Session:	312	
	Job:	34716	
	Class:	EnsLib.FTP.PassthroughOperation	
	Method:	SendAlert	
	Trace:	(none)	
	Stack:		

Figure 2-4: Close up view of an alert's details

Glossary

Controlled Substance

In this context, a medication whose manufacture, possession, and use is regulated and designated as a controlled substance by the Drug Enforcement Administration or State.

Prescription Drug Monitoring Program (Prescription Monitoring Program)

In this context, an electronic database that tracks controlled substance and other designated medication prescriptions in a state.

Acronym List

Acronym	Meaning
IHS	Indian Health Service
IT	Information Technology
KIDS	Kernel Installation and Distribution System
PDMP	Prescription Drug Monitoring Program, also known as Prescription Monitoring Program
PMP	Prescription Monitoring Program, also known as Prescription Drug Monitoring Program
RPMS	Resource and Patient Management System
sFTP	Secure File Transfer Protocol

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

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