



RESOURCE AND PATIENT MANAGEMENT SYSTEM

C32/CCD Clinical Summary

(BJMD)

Database Encryption SOP

Version 1.0 Patch 3 September 2013

Office of Information Technology (OIT) Division of Information Resource Management Albuquerque, New Mexico

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1.0 Introduction

This document contains the Standard Operation Procedures (SOP) for encrypting the C32 database.

The installation process for the C32/CCD Clinical Document (BJMD) package automatically creates a new Caché database for the C32 Ensemble production. The installation process does not currently encrypt the new database, therefore sites that have encryption enabled in Ensemble need to encrypt the new database after it has been created. Instructions for encrypting a database in Ensemble have been provided in a separate document.

This document provides instructions for how to prepare the C32 Ensemble production and Caché database before encrypting the database and how to return the database and the C32 Ensemble production back to a running state afterwards. By following these instructions, a site can encrypt its C32 database(s) without RPMS downtime.

Note: If your site has more than one RPMS database with an associated C32 database, follow the steps outlined in this document for each C32 database.

2.0 Standard Operating Procedures

Note: Mistakes during the encryption process may result in corruption of the Ensemble namespace. To prevent the loss of data, the database encryption must be performed in coordination with Area Office IT personnel.

2.1 Stop C Messaging

Sign onto the RPMS system as a user with the %All role. Go to the **C Messaging Menu** by selecting the **BJMD C MESSAGING** option. From the **C Messaging Menu**, select the **Manage C Messaging Transmissions** option. At the "Stop C Messaging" prompt, type **Y** to stop C messaging.

```
Select OPTION NAME: BJMD
     1 BJMD BACKGROUND JOB
                                   Background job for C Messaging transmissions
     2BJMD C MESS MGRManage C Messaging transmissions3BJMD C MESSAGINGC Messaging Menu
     4BJMD C32ALLGENGenerate C32 documents for all patients in RPMS5BJMD C32GENONEGenerate C32 for a single patient
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 3 BJMD C MESSAGING
                                    C Messaging Menu
   EDIT Edit C Messaging Site Parameters
   ONE Generate C32 for a single patient
   ALL
          Generate C32 documents for all patients in RPMS
   MANG
         Manage C Messaging transmissions
Select C Messaging Menu Option: MANG Manage C Messaging transmissions
C Messaging status:
No configuration problems found
C Messaging processing task is running
Stop C Messaging? No// Y (Yes)
Attempting to stop C Messaging .... C Messaging stopped
```

Figure 2-1: Stop C Messaging

2.2 Unschedule the Nightly C32 Job

This step is required only if your site has the C32 nightly job scheduled. If your site does not have the C32 nightly job scheduled, then skip to Section 2.3.

From the **C Messaging Menu**, select the **Edit C Messaging Site Parameters** option. Unschedule the nightly job by entering @ at the "**TIME TO RUN NIGHTLY TASK**" prompt, then entering **Y** at the "**SURE YOU WANT TO DELETE**?" prompt. Make a note of the existing value as you will need to enter it after the database has been encrypted.

```
Select OPTION NAME: BJMD
     1BJMD BACKGROUND JOBBackground job for C Messaging transmissions2BJMD C MESS MGRManage C Messaging transmissions3BJMD C MESSAGINGC Messaging Menu4BJMD C32ALLGENGenerate C32 documents for all patients in RPMS5BJMD C32GENONEGenerate C32 for a single patient
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 3 BJMD C MESSAGING C Messaging Menu
   EDIT Edit C Messaging Site Parameters
   ONE
           Generate C32 for a single patient
           Generate C32 documents for all patients in RPMS
   AT.T.
   MANG Manage C Messaging transmissions
Select C Messaging Menu Option: EDIT Edit C Messaging Site Parameters
Now editing C Messaging parameters:
BACKGROUND JOB DELAY: 1//
RECORD GLOBAL REFERENCES: Do not capture global references
          11
TIME TO RUN NIGHTLY TASK: 23:00// @
   SURE YOU WANT TO DELETE? Y (Yes)
Now editing C32 (Patient Summary)-specific parameters:
DAYS KEEP TRANSMISSION ENTRIES: 30//
REPOSITORY LOCATION: http://sample.ihs.gov:19090/PatientRecordReceiv
erService/PatientRecordReceiverService Replace
Checking free space... OK
ENABLED?: YES//
```

Figure 2-2: Unschedule nightly C32 job

2.3 Stop the C32 Production

The instructions for this step depend on which version of Ensemble you are using. If your version of Ensemble is 2009 or 2010, then follow the instructions in Section 2.3.1. If your version of Ensemble is 2012, then skip Section 2.3.1 and follow the instructions in Section 2.3.2.

2.3.1 Ensemble 2009/2010

Enter the System Management Portal. Select the **Ensemble Management Portal** option in the **System Administration** column.



Figure 2-3: System Management Portal, Ensemble Management Portal option

In the Ensemble Management Portal, navigate to the C32 namespace by selecting the appropriate namespace from the **Namespace** select box in the upper right.

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G Back • 🕑 · 💌 😰	🕯 😚 🔎 Search 👷 Favorites 🥝 🎯 🍓 🔜	<mark>- 11 3</mark>			
Address a http://10.24.196.43:57	7772/csp/c32gold5/UtilEnsHome.csp7\$NAMESPACE=&CSPCHD=00300001	00002bjuV480000003lgATB5Q7Ag	1C0mQxZZyHA&CS	PSHARE=1	💌 🔁 🐼 🔹 🕏
	Ensemble Management Portal			Server: VDE Instance: EN User: UNKN	NMIHSDBD01 ISEMBLE IownUser
[Ensemble]		Namespace	C32GOLD5	Go to:	~
Home			AGMPIGOLD5		
Productions	Welcome to the Ensemble Managemen	nt Portal:	C32GOLD1		
System Monitor	This is the C32GOLD5 namespace.		C32GOLD5 C32SILV5		
Event Log			C32SILVU	V	
Message Browser	Ensemble Running	Serv	EMSG		
Business Processes		Last Activity Time: 20	ENSDEMO	0.844	
Business Rules	Stop Production	Activities Completed:	GOLD1	8,977	
Business Rule Log	Production: BIMD.Prod.Production more	-	TST		
Host Monitor	Start Time: 2011-06-08 13:24:43.027				
Jobs	Iop	Proc	:ess		
Queues	Total Jobs Running: 18	Last Activity Time: 20	11-06-08 13:2	5:43.202	
Maintenance	Jobs OK: 15	Activities Completed:		0	
Dashboards	Jobs Inactive: 3	Messages in Progress:		0	
Business Metrics	Jobs of Other Status: 0	Messages in Queues:		0	
Work flow Portal	Log	Opera	ation		
Testing Service	Last Error Time:	Last Activity Time: 20	11-06-08 13:2	5:43.202	
EDI / HL7 Manager	Total Error Count: 0	Activities Completed:		0	
Logout		Messages in Progress:		0	
		Messages in Queues:		0	
		c	Seconds t	o refresh: 18	~
Done Done					D Internet

Figure 2-4: Ensemble Management Portal, namespace selection

In the C32 namespace, click the **Stop Production** button.

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Address ahttp://10.24.196.43:	57772/csp/c32gold5/UtilEnsHome.csp?\$NAMESPACE=&CSPCHD=00300001	00002bjuV48000000JtgATB5Q7Ag1C0mQ×Z2	Zyha&CSPSHARE=1	💌 🔁 co 🔹	•
	Ensemble Management Portal Licensed to: Vangent, Inc.		Server: VDEN Instance: ENS User: Unkno	IMIHSDBD01 EMBLE wnUser	100
[Ensemble]		Namespace: 🖼26	OLD5 🛛 🛩 Go to:	×	
Home					
Productions	Welcome to the Ensemble Management	nt Portal:			
System Monitor	This is the C32GOLD5 namespace.				
Event Log					
Message Browser	Ensemble Running	Service			
Business Processes		Last Activity Time: 2011-06-	15 11:11:20.844		
Business Rules	Stop Production	Activities Completed:	118,977		
Business Rule Log	Production: BIMD.Prod.Production more				
Host Monitor	Start Time: 2011-06-08 13:24:43.027				
Jobs	lob	Process			
Queues	Total Jobs Running: 18	Last Activity Time: 2011-06-	08 13:25:43.202		
Maintenance	Jobs OK: 15	Activities Completed:	0		
Dashboards	Jobs Inactive: 3	Messages in Progress:	0		
Business Metrics	Jobs of Other Status: 0	Messages in Queues:	0		
Work flow Portal	Log	Operation			
Testing Service	Last Error Time:	Last Activity Time: 2011-06-	08 13:25:43.202		
EDI / HL7 Manager	Total Error Count: 0	Activities Completed:	0		
Logout		Messages in Progress:	0		
		Messages in Queues:	0		
			Seconds to refresh: 0		Y
Done	1040345			Internet	

Figure 2-5: Ensemble Management Portal, Stop Production button

Click **OK** on the **Ensemble Production Stop** screen. If a dialog box asks if you are sure you want to stop the production, click **OK**.

Chemile Start 7 Stop Page - Microsoft Internet Explorer	L	العاد
Back • 🕥 • 🖹 🖻 🔨 O Search 📌 Favorites 🏟 📿 • 🗟 🕞 🚺 🖄		
In the second se	S 60	•
nsemble Production Stop		2
stopping Production B JMD. Prod. Production Status: Finished		
Stopping Production		
System is quiescent Requesting all jobs to terminate		
Production stopped.		
Jone	Internet	

Figure 2-6: Ensemble Production Stop screen, OK button

2.3.2 Ensemble 2012

- 1. Sign on to Ensemble's Management Portal as the administrator.
- 2. At the top center, the main **Management Portal** page displays the server name, the current user, the current namespace, license and instance information, and a **Switch** link. Click the **Switch** link.



Figure 2-7: Ensemble's Management Portal

In the **Namespace Chooser** box, select the appropriate C32 namespace. The namespace will consist of "C32" concatenated with the name of your RPMS namespace. For example, if your RPMS namespace is called "TEST5", then the associated C32 namespace will be called "C32TEST5". Click **OK** to select the namespace. The namespace displayed on the **Management Portal** page will be updated to reflect your selection.

🖉 Namespace Chooser - Windows Internet Explorer	٢.
Namespace Chooser Select a namespace	*
Available Namespaces	
%SYS	
C32XXX	
DOCBOOK	
SAMPLES	
USER	
XXX	
If a namespace exists but is not listed, then you may not hold permission to	
view it, or its database may not be mounted.	
Cancel OK	Ŧ
🗣 Local intranet Protected Mode: Off 🛛 🖓 👻 🔍 100% 💌	



3. On the main **Management Portal** page, select **Ensemble** in the left column, then select **Configure** >>, then select **Production**. When the **View, Edit, Start, or Stop a Production** option appears, click the **Go** button to display the **Production Configuration** page.

🏉 ENS	2012 - H	ome - Windows Internet Explorer					- ē ×
00) - [http://localhost:57774/csp/sys/%25CSP.P	ortal.Home.zen?\$NAMESPACE=C32X	XX		🝷 🗟 🍫 🗙 🖸 Bing	ې م
x	Conve	rt 🔻 🔂 Select					
🚖 Fav	rorites	🛨 ENS2012 - Home					
Me	nu	Home About Help Logout					Ensemble
We	elcome	, UnknownUser	Server:VGEBJ464R User: UnknownUs	ILARL Namespace: C32XXX Sw er Licensed to: License mis:	itch sing or unreadable. Instance: ENS2012		by InterSystems
View				:	Search:	M	anagement Portal
		Heme	Configure »	Production	Production		System Information
		Home	Build »	Business Partners			View System Dashboard
			View »	Credentials			System Up Time
(\bigcirc	DeepSee	List »	Schedule Specs	View, Edit, Start or Stop a		1d 2h 24m
			Monitor »	Data Lookup Tables	Production.		Ensemble Productions
	\frown	Encomble	Manage »	System Default Settings	Go		currently running on this system
	9 0	Ensemble	Interoperate »	Message Bank Link			
			Test »	-	Add to tavorites		
	◢	System Operation			System Resource(s)		
					Ens_ProductionConfig:RE#		
					Custom Resource		
		System Explorer			-		
					Assign		
	•	System Administration					
							-
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Figure 2-9: Ensemble's Management Portal, Production Go button

4. Above the **Services** column on the left, the words **Ensemble Running** will be displayed. If the words **Ensemble Stopped** are displayed, then the production is already stopped and you should skip to section 2.4.

🚱 🕒 🔹 🚯 http://localhost57774/csp/32xxx/EnsPortal.ProductionConfig.zen?SNAMESPACE=C3200X&SNAMESPACE=C3200X
X 🗞 Convet 👻 🚵 Select
Favorites 🔊 Production Configuration
Menu Home About Help Logout Ensemble > Production Configuration Ensemble > Production Configuration
BJMD Prod Production Server, VieBJ464R1LARL Namespace C32XXX SWitch User Switc
View: Start Stop On © Off Sort: Name Status Number Production Configuration
Production Stopped Category: All Category: All Production Settings Production Settings
SetVices Processes Operations BJMD.NIST.ValidateC32FileBS BJMD.NIST.ValidateC32BP A AlertEmailBO BJMD.Prod.ErrorRecordBS BJMD.Prod.PushC32DocBP BJMD.NIST.ValidateC32FileBO BJMD.NIST.ValidateC32FileBO PulC32BS GeneratePulDocBP BJMD.Prod.PushC32DocBP BJMD.Prod.Operation.ValidationWebServiceSO Apply ✓ Search: Imformational Settings GeneratePulDocBP BJMD.Prod.PushWS.Op.PatientRecordReceiverF Informational Settings Velocities GeneratePushDocBP GeneratePushDocB Informational Settings Informational Settings
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Figure 2-10: Ensemble production in a stopped state

5. Click the **Stop** button. It might take the production a few seconds to stop. When it stops, you will see the text in Figure 2-12 appear on the screen. There might be additional messages on this screen if it takes Ensemble more than a few seconds to stop all associated processes.

Stop Production - Windows Internet Explorer			×
Stop Production			^
Stopping Production: BJMD.Prod.Production			
StoppingProduction			
11:39:49.963:Ens.Director: StopProduction initiated. 11:39:50.010:Ens.Director: Production 'BJMD.Prod.Production' stopped Done.			
· · · · · · · · · · · · · · · · · · ·			
		OK	Ŧ
Done 🗣 Local intranet Protected Mode: Off	- - -	a 100%	•

Figure 2-11: Stopping the Ensemble production

1. Click **OK** to return to the **Production Configuration** screen.

2.4 Dismount the C32 Database

The instructions for this step depend on which version of Ensemble you are using. If your version of Ensemble is 2009 or 2010, then follow the instructions in section 2.4.1. If your version of Ensemble is 2012, then skip section 2.4.1 and follow the instructions in section 2.4.2.

2.4.1 Ensemble 2009/2010

Return to the System Management Portal by clicking **Home** in the upper left of the Ensemble Management Portal.

Ensemble - Microsoft Inte	rnet Explorer			
Bark - C - R	2005 Bep			-
Address a http://10.24.196.43:5	57772/csp/c32gold5/UtilEnsHome.csp?\$NAMESPACE=		💙 🛃 Go	2
INTERSYSTEM	Ensemble Management Portal		Server: VDENMIHSD8D0 Instance: ENSEMBLE User: UnknownUser	
[Ensemble]		Namespace: C32GOLD5	🕙 Go to:	
Home				
Productions	Welcome to the Ensemble Management	nt Portal:		
System Monitor	This is the C32GOLD5 namespace.			
Event Log				
Message Browser	Ensemble Stopped	Service		
Business Processes		Last Activity Time:		
Business Rules	Start Production	Activities Completed:	0	
Business Rule Log	Production: BIMD.Prod.Production more			
Host Monitor	Start Time:			
Jobs	lob	Process		
Queues	Total Jobs Running: 0	Last Activity Time:		
Maintenance	Jobs OK: 0	Activities Completed:	0	
Dashboards	Jobs Inactive: 0	Messages in Progress:	0	
Business Metrics	Jobs of Other Status: 0	Messages in Queues:	0	
Work flow Portal	Log	Operation		
Testing Service	Last Error Time:	Last Activity Time:		
EDI / HL7 Manager	Total Error Count: 0	Activities Completed:	0	
Logout		Messages in Progress:	0	
		Messages in Queues:	0	
			: 21	
Done Done		n li	Internet	

Figure 2-12: Ensemble Management Portal, Home option

Select **Databases** in the **Operations** column.



Figure 2-13: System Management Portal, Databases option

On the **Databases** screen, locate the C32 database and click **Dismount** for that database. Be sure to select the correct database.

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Name CACHESYS CACHELIB CACHELIB CACHETEMP CACHEAUDIT AGMPIGOLDS AGMPISILVU	Page size: 20 ✓ Items found: 24 Directory h:\intersystems\ensemble\mgr\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\ h:\intersystems\ensemble\mgr\cachelib\	Page Max Size (GB) Unlimited Unlimited Unlimited Unlimited Unlimited	1 2 » Size (MB) 36 225 382 1 11 11	>) of 2 Status Mounted/RW Mounted/RW Mounted/RW Mounted/RW Mounted/RW	Encrypted No No No Yes Yes	Journal Yes No No Yes No No	Dismount	
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Figure 2-14: Database screen, Dismount option

On the **Dismount Database** screen, click the **Perform Action Now** button.



Figure 2-15: Dismount Database screen, Perform Action Now button

2.4.2 Ensemble 2012

Return to the Management Portal by clicking **Home** in the upper left corner of the **Production Configuration** screen.



Figure 2-16: Production Configuration screen, Home option

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In the Management Portal, select System Operation, then select Databases.

Figure 2-17: Management Portal, Databases option

On the **Databases** screen, locate the C32 database and click **Dismount** for that database. Be sure to select the correct database.

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Convert ·	Select									
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			User, 90	vorak	License	d to: Vang	gent, Inc.	insta	nce: E3IHS	by the system
eespace	Integrity Check Integrity Log									
e following is	s a list of the local databases								Last update: 2012-07-10 14:54:43.734 Auto	
Filter:	Page size: 20 - 8	ems found: 14		1						
Barne	Directory	Max Size (GB)	Site (MR)	Status	Encrypted	Journal				
CACHESYS	h 'intersystems\e3hs/mor\.	Unimted	108	Mounted/RW	No	Yes		-		
CACHELE	h.\intersystems\e3ihs\mgr\cachelib\	Unlimited	319	Mounted/R	No	No		-		
CACHETEMP	h lintersystems/e3ihs/mpricachetempl	Unimted	1095	Mounted/RW	No	No				
CACHE	h.\intersystems\e3ihs\mgr\cache\	Unimited	31	Mounted/RW	No	No		1		
CACHEAUDIT	h:\intersystems\e3its\mgr\cacheaudt\	Unlimited	1	Mounted/RW	No	Yes	- a -	-		
C32G0L01	j'lensemblele3hs-c32gold11	Unimbed	144	Mounted/RW	No	Yes	Cismpent			
DOCROOK	NY MARKEN N	Unlimited	142	Mounted/RW	No	No	Dismount	1	<u> </u>	
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ENSEMBLE	h:\intersystems\e3ihs\mgriensemble\	Unlimited	1	Mounted/RW	No	Yes	Remount			
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GOLD1	j\ensemble\e3hs-gold1\	Unlimited	28173	Mounted/RW	No	Yes	Convert	-		
8/2	1/42/	Unlimited	1848	Mounted/RW	No	No	Dismount	-		
SAMPLES	h \intersystems\e3ihs\mgrisamples\	Unlimited	51	Mounted/RW	No	No	Diamount	-		
							1000			

Figure 2-18: Database screen, Dismount option

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On the **Dismount Database** screen, click the **Perform Action Now** button.



Figure 2-19: Dismount Database screen, Perform Action Now button

2.5 Perform Encryption

Encrypt the database following the instructions provided in the separate encryption document. If you need a copy of the encryption document, contact the Office of Information Technology (OIT). See section 3.0 for OIT contact information.

2.6 Re-mount the Database

The instructions for this step depend on which version of Ensemble you are using. If your version of Ensemble is 2009 or 2010, then follow the instructions in section 2.6.1. If your version of Ensemble is 2012, then skip section 2.6.1 and follow the instructions in section 2.6.2.

2.6.1 Ensemble 2009/2010

In the System Management Portal, select the **Databases** option in the **Operations** column.



Figure 2-20: System Management Portal, Databases option

Locate the C32 database and click **Mount** for that database.

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Name	Directory	Max Size (GB)	Size (MB)	Status	Encrypted	Journal	-	
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Figure 2-21: Databases screen, Mount option

On the **Mount Database** screen, ensure that the **Read Only** checkbox is unchecked and click the **Perform Action Now** button.



Figure 2-22: Mount Database screen, Perform Action Now option

2.6.2 Ensemble 2012

In the Management Portal, select System Operation, then select Databases.



Figure 2-23: Management Portal, Databases option

On the **Databases** screen, locate the C32 database and click **Mount** for that database.

abases - Windo	ws Internet Explorer									0.4
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1				101						
Filter:	Page size: 20 + 8	ems found: 14								
Name	Directory	Max Size (G8)	Size (MB)	Status	Encrypted	Journal		1	7	
CACHESYS	h:\intersystems\e3ihs\mgrl	Unlimited	108	Mounted/RW	No	Yes	1	-	-	
CACHELIE	h.\intersystems\e3ihs\mgr\cachelib\	Unimted	319	Mounted/R	No	No				
CACHETEMP	h lintersystemsle3ihs/mgricachetempl	Unimted	1095	Mounted/RW	No	No	-	-	-	
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ENSEMBLE	h:\intersystems\e3ihs\mgr\ensemble\						2010/01/01	1.		
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one

Figure 2-24: Databases screen, Mount option

On the **Mount Database** screen, ensure that the **Read Only** checkbox is unchecked and click the **Perform Action Now** button.

Original Control Contrective Contrel Contrel Contrel Contrel Contrel Contrel Contrel	
Favorites Favorites Mount database Mount C32GOLD1 in the following Mode: Read Only Perform Action Now	
Mount database Mount C32GOLD1 in the following Mode: Read Only Perform Action Now	
Mount C32GOLD1 in the following Mode: Read Only Perform Action Now	
Read Only Perform Action Now	
Perform Action Now	
Perform Action Now	
💊 Local intranet Protected Mode: Off	

Figure 2-25: Mount Database screen, Perform Action Now option

2.7 Reschedule the Nightly C32 Job

This step is required only if you unscheduled the nightly C32 job in section 2.2. If you did not unschedule the nightly C32 job, then skip to section 2.8

Go to the **C Messaging Menu** by selecting the **BJMD C MESSAGING** option in TaskMan. From the **C Messaging Menu**, select the **EDIT** option. Reschedule the nightly job by entering the time to run the job at the **TIME TO RUN NIGHTLY TASK** prompt.

```
Select OPTION NAME: BJMD
     1 BJMD BACKGROUND JOB Background job for C Messaging transmissions
         BJMD C MESS MGRManage C Messaging transmissionsBJMD C MESSAGINGC Messaging Menu
     2
     3
        BJMD C32ALLGENGenerate C32 documents for all patients in RPMSBJMD C32GENONEGenerate C32 for a single patient
     4
     5
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5: 3 BJMD C MESSAGING
                                       C Messaging Menu
   EDIT Edit C Messaging Site Parameters
   ONE
           Generate C32 for a single patient
   ALL
           Generate C32 documents for all patients in RPMS
```

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MANG Manage C Messaging transmissions Select C Messaging Menu Option: EDIT Edit C Messaging Site Parameters Now editing C Messaging parameters: BACKGROUND JOB DELAY: 1// RECORD GLOBAL REFERENCES: Do not capture global references // TIME TO RUN NIGHTLY TASK: 2300 Now editing C32 (Patient Summary)-specific parameters: DAYS KEEP TRANSMISSION ENTRIES: 30// REPOSITORY LOCATION: REPOSITORY LOCATION: http://sample.ihs.gov:19090/PatientRecordReceiverService/PatientRecordReceiverService e Replace Checking free space...OK ENABLED?: YES//

Figure 2-26: Reschedule Nightly Task

2.8 Restart C Messaging

From the **C Messaging Menu**, select the **MANG** option. Restart C Messaging by entering **Y** at the Start C Messaging? prompt. This option will also automatically restart the Ensemble production, so it is not necessary to start the production from the Ensemble Management Portal.

```
EDIT Edit C Messaging Site Parameters
ONE Generate C32 for a single patient
ALL Generate C32 documents for all patients in RPMS
MANG Manage C Messaging transmissions
Select C Messaging Menu Option: MANG Manage C Messaging transmissions
C Messaging status:
No configuration problems found
C Messaging processing task is not running
Start C Messaging? No// Y (Yes)
Attempting to start C Messaging (JUN 15, 2012@10:38:11)..C Messaging started
```

Figure 2-27: Restart C Messaging

Normally, starting C Messaging will automatically start the associated Ensemble production within two minutes. If your **_SYSTEM** user account has been disabled, then it will not be possible to automatically start the Ensemble production. In that case, the production will need to be started manually.

The instructions for starting the Ensemble production depend on which version of Ensemble you are using. If you are using Ensemble 2009 or 2010, then follow the

steps in section 2.8.1. If you are using Ensemble 2012, then skip section 2.8.1 and follow the steps in section 2.8.2.

2.8.1 Ensemble 2009/2010

- 1. Sign on to Ensemble's System Management Portal as the administrator.
- 2. On the main **System Management Portal** page, select **Ensemble Management Portal** at the bottom of the leftmost column.
- 3. In the top right corner you will see the word **Namespace** and a drop-down list of all namespaces defined within the Ensemble instance. Select the namespace where your C32 Ensemble production is located. The application will refresh the page, and you will see this name prominently displayed at the top of the page.

Note: Ensemble namespaces can look almost identical when viewed on this page, so make sure that you have the right namespace selected.

At the top of the inner box the words **Ensemble Stopped** will be displayed:

Ensemble - Mozilla Firefox Sile Edit View History Redemark	s Tools Hale						. 6	×
	http://10.24.196.43:57772/csp/ens	semble/UtilEnsHome.csp?C	SPSHARE=1	8\$NAMESPACE=&CSPCHD=00200C	- 3- 6	ioogle	P) .
INTERSYSTEMS	Ensemble Management licensed to: Vangent, Inc.	t Portal			Serve Instar User:	2 VDENMIHS 100: ENSEMBL AMIKHAYL	SDBD01 LE	^
[Ensemble]				Namespace: ENSEMBLE	v c	o to:	*	
Home								
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System Monitor	This is the ENSEMB	LE namespace.						
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Business Processes		opped	Last Act	bitu Time:	_			
Business Rules	Start Production		Activitie	s Completed:	0			
Business Rule Log	Production:	more	Activitie	s completed.	-			
Host Monitor	Start Time:							
Jobs	loh		-	Process				
Queues	Total Jobs Running:	0	Last Act	ivity Time:	-			
Maintenance	lobs OK:	0	Activitie	s Completed:	0			
Dashboards	Jobs Inactive:	0	Message	s in Progress:	0			
Business Metrics	Jobs of Other Status:	0	Message	es in Queues:	0			
Workflow Portal	Log		Operation					
Testing Service	Last Error Time:		Last Act	ivity Time:				
EDI / HL7 Manager	Total Error Count:	0	Activitie	s Completed:	0			
Logout	ogout			s in Progress:	0			
			Message	s in Queues:	0			
				Seconds to refr	esh: 15			
								×
Done							SI 53	Fox

Figure 2-28: Ensemble production in a stopped state

4. Click the **Start Production** button immediately under the words **Ensemble Stopped**.

5. A pop-up will appear and ask you "Are you sure you want to start Production BJMD.Prod.Production?" Click **OK**. The lines in Figure 2-30 should appear on the screen.

🕙 Ensemble Start / Stop Page - Mozilla Firefox	
Elle Edit View Higtory Bookmarks Iools Help	
🔇 💽 🗸 🏠 🗋 http://10.24.196.43:57772/csp/c32gold1/CSPX.EnsStartStopPage.cls?MODE=start&URL=UtilEnsHome.csp& 🏠 🔹 🔀 🖕 Google 💦 🔎	ABP
Ensemble Production Start	
Starting Production BJMD. Prod. Production Status: Finished	
ConfigItem 'AlertEmailBO' started. ConfigItem 'BJMD. Prod. C32FileBO' started. ConfigItem 'BJMD. Prod. CompiledRecordBS' started. ConfigItem 'BJMD. Prod. ErrorRecordBS' started. ConfigItem 'BJMD. Prod. GenerateC32DocBP' started. ConfigItem 'BJMD. Prod. PullWS. Op. PatientRecordReceiverPort' started. ConfigItem 'BJMD. Prod. PushWS. Op. PatientRecordReceiverPort' started. ConfigItem 'BJMD. Prod. PushWS. Op. PatientRecordReceiverPort' started. ConfigItem 'Ens. Actor' updated. ConfigItem 'Ens. Actor' updated. ConfigItem 'Ens. Alarm' started. ConfigItem 'Ens. Alarm' started. ConfigItem 'Ens. Alert' started. ConfigItem 'Ens. ScheduleHandler' started. Scheduler has been updated. Production BJMD. Prod. Production started.	

OK

Done

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Figure 2-29: Starting the Ensemble production

6. Click **OK** to return to the **Ensemble productions** screen.

Notice that the button that used to read **Start Production** now reads **Stop Production**. The button will remain in this state as long as the production is running.

2.8.2 Ensemble 2012

1. Sign on to Ensemble's Management Portal as the administrator.

2. At the top center, the main **Management Portal** page displays the server name, the current user, the current namespace, license and instance information, and a **Switch** link. Click the **Switch** link.



Figure 2-30: Management Portal

In the **Namespace Chooser** box, select the appropriate C32 namespace. The namespace will consist of "C32" concatenated with the name of your RPMS namespace. For example, if your RPMS namespace is called "TEST5", then the associated C32 namespace will be called "C32TEST5". Click **OK** to select the namespace. The namespace displayed on the **Management Portal** page will be updated to reflect your selection.

🖉 Namespace Chooser - Windows Internet Explorer
Namespace Chooser Select a namespace
Available Namespaces
%SYS
C32XXX
DOCBOOK
ENSDEMO
ENSEMBLE
LISER
XXX
If a namespace exists but is not listed, then you may not hold permission to view it, or its database may not be mounted.
Cancel OK
🗣 Local intranet Protected Mode: Off 🛛 🖓 👻 🔍 100% 👻



 On the main Management Portal page, select Ensemble in the left column, then select Configure >>, then select Production. When the View, Edit, Start, or Stop a Production option appears, click the Go button to display the Production Configuration page.

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00) - [http://localhost:57774/csp/sys/%25CSP.P	ortal.Home.zen?\$NAMESPACE=C32X	XX		🔹 🗟 🍫 🗙 📴 Bing	۶ -
x 4	Conve	rt 🔻 🔂 Select					
🚖 Fav	rorites	🛨 ENS2012 - Home					
Me	nu	Home About Help Logout					Ensemble
We	elcome	, UnknownUser	Server: VGEBJ464R User: UnknownUs	ILARL Namespace: C32XXX Sw er Licensed to: License mis:	itch sing or unreadable. Instance: ENS2012		by InterSystems
View				:	Search:	Ma	anagement Portal
			Configure »	Production	Production		System Information
		Home	Build »	Business Partners			View System Dashboard
	-		View »	Credentials			System Up Time
(\bigcirc	DeepSee	List »	Schedule Specs	View, Edit, Start or Stop a		1d 2h 24m
			Monitor »	Data Lookup Tables	Production.		Ensemble Productions
	\frown		Manage »	System Default Settings	Go		There are no productions currently running on this system
	<u> >0</u>	Ensemble	Interoperate »	Message Bank Link			
			Test »		Add to favorites		
		System Operation			System Resource(s)		
		· ·			Ens_ProductionConfig:RE/		
					Custom Resource		
		System Explorer			-		
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	•	System Administration					
							•
\sim						Local intranet Protected M	ode: Off 🏾 🖓 🔻 🍕 100% 👻

Figure 2-32: Management Portal

8. Above the **Services** column on the left, the words **Ensemble Stopped** will be displayed. If the words **Ensemble Running** are displayed, then the production is already running and you should skip the rest of this section.

🚱 🕟 💌 🚱 http://localhost.57774/csp/32xxx/EnsPortal.ProductionConfig.zen?SNAMESPACE=C32XXX8SNAMESPACE=C32XXX
X 🗞 Convert 🔻 🖺 Select
Favorites 🕟 Production Configuration
Production Configuration Ensemble Production Configuration Ensemble Production Configuration BMD Prod Production Berrer OSEBA64R1LAR User: UnknownUser Namespace: C32XXX Switch Ensemble by InterSystems View: Image: Statl Stop Refresh: On @ off Sort: Name Status Number Production Stopped Processes © Category: All Legend Production Settings Services © Processes © Category: All Operations © BuMD NIST.ValidateC32FileBS BuMD NIST.ValidateC32DoCP BuMD NIST.ValidateC32FileBO BuMD Prod.PushWS.Op.PatientRecordReceiver Informational Settings Informational Settings Informational Settings Actor Pool Size Informational Settings Actor Pool Size Informational Settings Informational Settings <td< td=""></td<>
These are the Production settings. To view item settings, click on a configuration item.
🚱 Local intranet I Protected Mode Off 🛛 🖗 💌 🛞 100% 💌

Figure 2-33: Ensemble production in a stopped state

9. Click the **Start** button. There might be additional messages on this screen if it takes Ensemble more than a few seconds to stop all associated processes.

3. A pop-up will appear and ask you "Do you wish to start this Production?" Click the **OK** button. The lines in Figure 2.34 should appear on the screen.



Figure 2-34: Starting the Ensemble production

Click **OK** to return to the **Production Configuration** screen.

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

Fax: (505) 248-4363

Web: http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm

Email: support@ihs.gov

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