



#### RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Electronic Dental Interface**

# (EDRI)

## **Installation Guide & Release Notes**

Version 1.0 February 2010

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

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Date of Change	Location of Revision	Revision
05/2009		First published
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		Updated prior to national release

### Preface

The purpose of this document is to provide the user with information about the import, export, configuration, and function of the IHSProduction. The IHSProduction has a package name of BADE and allows for the transportation of messages between the EDR and RPMS systems. Included with the production is a portal for monitoring and managing the production.

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### 1.0 Introduction

For over a decade, hospitals and health centers of the Indian Health Service (IHS) and numerous tribal health programs have utilized an information system called the Resource and Patient Management System (RPMS). The RPMS is a highly integrated system consisting of some fifty health care and administrative applications. Virtually all of these applications directly interact with one or more, and sometimes many, of the other RPMS applications.

During this same period, IHS and tribal dental programs have made use of the RPMS Dental Data System (DDS) as their primary system for maintaining a history of individual patient services; contributing dental data to the RPMS electronic clinical record; producing provider and department workload data; and contributing statistical data to the national data center located in Albuquerque, New Mexico. At many sites, data captured in the DDS has also been utilized in the RPMS Third Party Billing System.

With the replacement of the RPMS Dental Data System with an Electronic Dental Record (EDR), it is required that RPMS applications interact with the EDR to meet the needs of both the Dental Department and the local health program as a whole.

The IHSProduction for the Ensemble Interface Engine (EIE) provides transportation of messages between the RPMS system and the EDR system. It accepts DFT\_P03 messages from the EDR system and delivers them to the RPMS system. It accepts MFN\_M02, ADT\_A31 and ADT\_A28 messages from the RPMS system and delivers them to the EDR system.

If an error occurs in receiving a valid EDR or RPMS HL7 message, if there is a connection issue between EIE and either system, or if any other error occurs, an alert is sent from the EIE to the appropriate administrators.

### 2.0 IHSProduction Import

This section describes the process of importing the IHSProduction into Ensemble Studio from an XML document.

### 2.1 Open Ensemble Studio

• In a Windows environment, right-click the Ensemble Cube in the lower right corner and click **Studio**. Type your login ID and password.



Figure 2-1: Opening Ensemble Studio

#### 2.2 Select the proper namespace

The namespace should be ENSRPMS.

1. On the File menu, click Change NameSpace.



Figure 2-2: Change Namespace menu option

2. In the **Namespace** list, click **ENSRPMS**.

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Figure 2-3: Selecting the ENSRPMS namespace

### 2.3 Import the IHSProduction

1. On the **Tools** menu, click **Import Local**.



Figure 2-4: Import Local menu option

- 2. Select the file named EDR\_ENSRPMS.xml on your network or local machine and click **Open**.
- 3. In the **Import** dialog box, ensure that all items in the list are selected and that both the **Add Imported Items to Project** and **Compile Imported Items** options are selected.

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	BADE Adapters HLDGlobalinbound cis     Yes 2009-03-24 08:2     BADE Adapters HLDGlobalinbound cis     Yes 2009-03-27 12:5	
	BADE AlertEmailAddiess.cls Yes 2009-03-07 12:3	
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	Select All OK Cancel	
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Figure 2-5: Import dialog box

4. Click **OK.** 

When the system finishes compiling, "Compilation finished successfully in..." is displayed in the **Result** pane.

### 2.4 Select the system namespace

1. On the File menu, click Change Namespace.



Figure 2-6: Change Namespace menu option

2. In the **Namespace** list, click **%SYS**.

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Ready			

Figure 2-7: Selecting the **%SYS** namespace

### 2.5 Import the EDR system items

1. On the **Tools** menu, click **Import Local**.



Figure 2-8: Import Local menu option

- 2. On your network or local machine, select the EDR\_SYS.xml file and click **Open**.
- 3. In the **Import** dialog box, ensure that all items within the list are selected and that both the **Add Imported items to Project** and **Compile Imported Items** options are selected.



Figure 2-9: Import dialog box

4. Click OK.

When the system finishes compiling, "Compilation finished successfully in..." is displayed in the **Result** pane.

### 3.0 EDR Installation Script

#### 3.1 Open a Terminal window

1. In a Windows environment, right-click the Ensemble Cube in the lower right corner and click **Terminal**. Type your login ID and password.



Figure 3-1: Logging on

2. At the "DEV" prompt, type **zn** "**ensrpms**" to change to the ENSRPMS namespace.



Figure 3-2: Changing to the ENSRPMS namespace

### 3.2 Run the Installation Script

• At the "ENSRPMS" prompt, type **do ##class(BADE.Install).Installation**().

```
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                                                                              <u>File E</u>dit <u>H</u>elp
Node: npasedra, Instance: CACHE
Username: vangent
Password: *********
DEV>zn "ensrpms"
ENSRPMS>do ##class(BADE.Install).Installation()
Added resource 'BADE_Portal'
Added resource 'BADE_Production'
Added resource 'BADE_Errors'
Added resource 'BADE_MessageView'
Added resource 'BADE_MessageResend'
Added resource 'BADE Security'
Added resource 'BADE_Email'
ENSRPMS>
```

Figure 3-3: Running the installation script

### 4.0 **IHSProduction Configuration**

When the production is installed, the settings listed in Table 5-1 *must* be configured before the production can be run.

**NOTE:** The settings listed in Table 5-1 are the **only** settings that should be changed. **All other settings are configured** *correctly and should not be changed.* 

Table 5-1: Settings that must be configured before IHSProduction can be run

Business Host	Host Type	Setting
RPMSInbound	Business service	ReceivingFacilityName
RPMSInbound	Business service	MaxNmbrMsgs
RPMSInbound	Business service	Throttle
	Business service	IP Address
EDRInbound	Business service	Port
RPMSOutbound	Business operation	SiteID
RPMSOutbound	Business operation	LLink
BadMessages	Business operation	FilePath
EDROutbound	Business operation	IPAddress
EDROutbound	Business operation	Port

### 4.1 Open the Ensemble Management Portal

To open the Ensemble Management Portal, do one of the following:

• In Ensemble Studio, click **Ensemble Management** on the **Utilities** menu.



Figure 4-1: Ensemble Management menu option

• In the System Management Portal, click **Ensemble Management Portal** under **System Administration**.

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<ul> <li>Configuration</li> <li>Security Management</li> <li>Licensing</li> <li>Database Encryption</li> <li>Ensemble Management Portal</li> </ul>	<ul> <li>&gt; Classes</li> <li>&gt; SQL</li> <li>&gt; Routines</li> <li>&gt; Globals</li> </ul>	<ul> <li>» System Dashboard</li> <li>» Backup</li> <li>» Databases</li> <li>» Processes</li> <li>» Locks</li> <li>» Journals</li> <li>» Shadow Servers</li> <li>» Task Manager</li> <li>» System Logs</li> <li>» System Usage</li> <li>» License Usage</li> <li>» License Usage</li> <li>» CSP Sessions</li> <li>» Background Tasks</li> <li>» Diagnostic Report</li> </ul>			
Ensemble Management Portal Go to Ensemble Management Portal. @ co	<u>swicht</u> 1996-2009 InterSystems Corporation. All Rights Reserved.				
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Figure 5-2: Selecting Ensemble Management Portal in the System Management Portal

### 4.2 Change the namespace to ENSRPMS

The namespace should be ENSRPMS.

• In the Namespace list, click ENSRPMS.

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Productions	welcome to the Ensemble Management Porta	u.	ENSEMBLE			
System Monitor	This is the ENSEMBLE namespace.		TST			
Event Log						
Message Browser	Ensemble Stopped	Service				
Business Processes	Start Production	Last Activity Time:				
Business Rules	Start Froduction	Activities Completed:	0			
Business Rule Log	Production: <u>MyPackage.NewProduction</u> <u>more</u>					
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			
Workflow 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			
	unnve InterSystems.com @ Copyright 1995-2009 InterSystems Corporation. All Rights Reserved.					

Figure 5-3: Selecting the ENSRPMS namespace

### 4.3 Open the IHSProduction configuration page

1. In the menu on the left side of the page, click **Productions**.



Figure 5-4: **Productions** option

2. In the **BADE.IHSProduction** row, click **Configure**.

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[Ensemble] > [Productions]		Namespace: ENSRPMS 💌 Go to: 💽
Home		
Productions	Create New Production	
System Monitor	Edit, start or stop an Ensemble production using the table below:	Last update: 2009-03-27 13:31:33.592 🔽 Auto
Event Log		
Message Browser	Filter: Page size: 20 💌 Items found: 1	
Business Processes	Production Status Last Start Time Last Stop Tim	ne de la companya de
Business Rules	BADE.IHSProduction Stopped 2009-03-27 12:53:43.482 2009-03-27	12:56:50.966 <u>Configure</u> <u>Start</u> - <u>Model</u>
Business Rule Log		Edit the configuration of this production.
Host Monitor		
Jobs		
Queues		
Maintenance		
Dashboards		
Business Metrics		
Workflow Portal		
Testing Service		
EDI / HL7 Manager		
Logout		

Figure 5-5: Selecting the **Configure** option for BADE.IHSProduction

### 4.4 BADE.IHSProduction Settings

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					1 EDROVER	~~ ×	ne the HL7 messages	to the LDM. system via TCP/DP	~
Production: BAI	DE.IHSProduction							Last Modified: N	/A
Apply	Cancel	Neb	Start Production	Step Production	Add Service	Add Process	Add Operation	View Model	
	Production Sett	ings			Additional	Production Settin	gs		
Name:	BADE HSPreduction	-		ShutdownTimeout:	120				
	RPMS and EDR.	landling message	s sent to/from	UpdateTimeout:	10				
Description:	This production between the DEST SINCE system	transports mess DIX system and t	the v						
Actor Pool Size:	2								
Testing Enabled:									
Log Unassigned Trace Events:									

Figure 5-6: BADE.IHSProduction configuration screen

NOTE: Table 5-2 is provided for information only. *The default settings on the BADE.IHSProduction configuration screen should not be changed.* 

Table 5-2: BADE.IHSProduction settings

Setting	Value	Comments
Name	BADE.IHSProduction	The package name (BADE) and the production name (IHSProduction) separated by a period. (This setting should not be changed.)
Description	This production transports messages between the DENTRIX system and the RPMS system.	(This setting should not be changed.)
Actor Pool Size	2	The number of Actor jobs available to execute Business Process (BP) instances. (This setting should not be changed.)

Setting	Value	Comments
Testing Enabled	Unchecked	The Testing Service is not enabled for this production.
		(This setting should not be changed.)
Log Unassigned Trace Events	Checked	Trace events that do not belong to any configuration item are logged.
		(This setting should not be changed.)
ShutdownTimeout	120	The amount of time required for a click on <b>Stop Production</b> to succeed.
		(This setting should not be changed.)
UpdateTimeout	10	The amount of time required for production updates to succeed.
		(This setting should not be changed.)

### 4.5 Business Services

#### 4.5.1 RPMSInbound Settings

INTERSYSTE/	Ensemble Configuration Licessed to: Property of the Indian Health S	Server EDRWINDLY Millione CACHE User UnknownUser	
(Ensemble) > [Product	ions)		Namespace: ENSRPHIS 💌 Golto: 💌
BADE.1HSProduction Production Running	Business Services	Business Processes	Business Operations
BADE Adapters.HLDC entere messages from the HEA and Escala-st.7.Adapters TC/Tel capt messages from the EDR syste	Rostineound I Brecchound m via TCh(P) Exclusional Exclusional Exclusional C	AACE ECHMessageRouting	BPHSCutbound     BACE.Adapters.HL.GGbbblCh/stound     BACE.Adapters.HL.GGbbblCh/stound     BACE.Bdbbbbbbb     BacHessage     Coll.B.TRI.D.TRI.CutboundAdapter     BacHessage     Coll.B.TRI.D.Adapter.10POutboundAdapter     Seed the HJ. Ressages to the IDR system via TDNIP     EnsultAnt     EnsultAnt
Budness Services B	ADE Services RPMS		
Apply	Cancel Copy Remov	e Change Class	Instances History Keb
	General Settings		Specific Settings
Name:	RPMSinbound	Adapter Class:	BADE Adapters MLDGlobalhbound
Comment:	Retrieve messages from the HLA and HLB glot	Target Config Names:	BACE RRISNessageRouting
Schedule:		Search Table Class:	EneLib HL7.SearchTable
Category:	EDR	Local Facility Applications	SCEnsemberL7
Class:	BADE Services RPI/S	Framing:	Fexbe
Description:	A Business Service that receives messages from the RPMS system via the HLOGlobal Inbound Adapter.	Ack Mode: Use Ack Commit	Never M
Enabled:		Codes:	feer w
Foreground:		AdditachE88	Table W
Log Trace Events:		Ratchianding	Envis Service Ranks in
Inactivity Timeout:	•	Nessage Schema	BLAR DOWN
Pool Size:	1	Category:	(and the set
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		MaxNmbritsos	50
		Throttle	1000
		SiteID:	
		Call Interval:	4
		Carl Interval:	·

Figure 5-7: RPMSInbound configuration screen

NOTE: In Table 5-3, only the settings shown in *italics (Receiving Facility Name, MaxNmbrMsgs*, and *Throttle)* should be changed.

All other settings are configured correctly. The default values should not be changed.

#### Table 5-3: RPMSInbound settings

Name         RPMSInbound         (This setting should not be changed.)           Comment         Retrieve messages from the HLA and HLB globals         (This setting should not be changed.)           Schedule <blank>         The Start/Stop schedule associated with this item. This setting should not be changed.           Category         EDR         A grouping for pieces of a production that can be used to filter views for a production.           Class         BADE.Services.RPMS         (This setting should not be changed.)           Description         A business service that receives messages from the RPMS system via the HLOGlobal Inbound Adapter         (This setting should not be changed.)           Enabled         Checked         This item is enabled when this production is started.           Foreground         Unchecked         This item is not run in a foreground process (This setting should not be changed.)           Log Trace Events         Checked         Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.</blank>	Setting	Value	Comments
Comment         Retrieve messages from the HLA and HLB globals         (This setting should not be changed.)           Schedule <blank>         The Start/Stop schedule associated with this item. This setting should not be changed.           Category         EDR         A grouping for pieces of a production that can be used to filter views for a production.           Class         BADE.Services.RPMS         (This setting should not be changed.)           Description         A business service that receives messages from the RPMS system via the HLOGlobal Inbound Adapter         (This setting should not be changed.)           Enabled         Checked         This item is enabled when this production is started.           Foreground         Unchecked         This item is not run in a foreground process (This setting should not be changed.)           Log Trace Events         Checked         Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.</blank>	Name	RPMSInbound	(This setting should not be changed.)
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ClassBADE.Services.RPMS(This setting should not be changed.)DescriptionA business service that receives messages from the RPMS system via the HLOGlobal Inbound Adapter(This setting should not be changed.)EnabledCheckedThis item is enabled when this production is started. (This setting should not be changed.)ForegroundUncheckedThis item is not run in a foreground process (This setting should not be changed.)Log Trace EventsCheckedLogging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.	Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.
ClassBADE.Services.RPMS(This setting should not be changed.)DescriptionA business service that receives messages from the RPMS system via the HLOGlobal 			(This setting should not be changed.)
DescriptionA business service that receives messages from the RPMS system via the HLOGlobal Inbound Adapter(This setting should not be changed.)EnabledCheckedThis item is enabled when this production is started. (This setting should not be changed.)ForegroundUncheckedThis item is not run in a foreground process (This setting should not be changed.)Log Trace EventsCheckedLogging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.	Class	BADE.Services.RPMS	(This setting should not be changed.)
Enabled       Checked       This item is enabled when this production is started.         (This setting should not be changed.)       (This setting should not be changed.)         Foreground       Unchecked       This item is not run in a foreground process (This setting should not be changed.)         Log Trace Events       Checked       Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.	Description	A business service that receives messages from the RPMS system via the HLOGlobal Inbound Adapter	(This setting should not be changed.)
Foreground       Unchecked       This item is not run in a foreground process (This setting should not be changed.)         Log Trace Events       Checked       Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.	Enabled	Checked	This item is enabled when this production is started.
Foreground       Unchecked       This item is not run in a foreground process (This setting should not be changed.)         Log Trace Events       Checked       Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.			(This setting should not be changed.)
Log Trace Events         Checked         Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.	Foreground	Unchecked	This item is not run in a foreground process. (This setting should not be changed.)
(This setting should not be changed.)	Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production. (This setting should not be changed.)
Inactivity Timeout       0       Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function.         (This setting should not be changed.)	Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function. (This setting should not be changed.)
Pool Size       1       Number of system jobs that must be allocated to run this business service.         (This setting should not be changed.)	Pool Size	1	Number of system jobs that must be allocated to run this business service. (This setting should not be changed.)

Setting	Value	Comments
Adapter Class	BADE.Adapters. HLOGlobalInbound	Name of the Adapter class declared in the Business class for this item.
		(This setting should not be changed.)
Target Config Names	BADE. RPMSMessageRouting	The Business host where messages are sent.
		(This setting should not be changed.)
Search Table Class	EnsLib.HL7. SearchTable	The set of searchable properties associated with each HL7 message processed.
· · · · ·		(This setting should not be changed.)
Local Facility Application	ISC:EnsembleHL7	The LocalFacility:LocalApplication codes representing this (receiving) facility and application, separated by a colon. Used as SendingFacility and SendApplication in reply ACK message headers.
Framing	Floviblo	The HLZ inbound message framing
Fraining	FIEXIDIE	protocol. Flexible = Determine framing style from the content of received data.
		(This setting should not be changed.)
Ack mode	Never	Controls ACK handling. Never = do not send back any ACK.
		(This setting should not be changed.)
Use Ack Commit	False	Use legacy-mode 'Ax' codes.
obucs		(This setting should not be changed.)
IgnoreInboundAck	False	Ignore inbound ACK messages to avoid ACK feedback loop. This setting has no effect on this inbound adapter/service since it does not receive or send ACK messages to RPMS.
		(This setting should not be changed.)
AddNackERR	False	Do not add an ERR error code segment when generating NACK messages. (Not used for this service since it does not send NACK/ACK messages.)
Potob Hondling	Single Coopies Datab	(This setting should not be changed.)
BatchHandling	Single-Session Batch	KPINS is not sending batched messages.
		(This setting should not be changed.)

Setting	Value	Comments
Message Schema Category	BADE.RPMS	Category to apply to incoming message types to produce a complete DocType specification. Combines with document type name (MSH:9) to produce a MessageType specification, which is used to look up a MessageStructure/DocType in the MessageTypes section of the given HL7 schema category. (This setting should not be changed.)
DefCharEncoding	Latin1	The default character encoding used when reading or writing HL7 messages.
		(This setting should not be changed.)
Alert Grace Period	5	When <b>Alert On Error</b> is set to True, refrain from alerting if the error is not from ProcessInput() and the service succeeds again within this number of seconds. (This setting should not be changed.)
Alert On Error	True	Send an alert message whenever an error occurs.
		(This setting should not be changed.)
Archive IO	False	The adapter does not log each input and output communication with the external system to the Ensemble I/O archive. (This setting should not be changed.)
Receiving Facility Name	DENTRIX	Name of receiving facility on which to filter HL7 messages within the HLOGlobalInbound adapter.
MaxNmbrMsgs	50	Maximum number of messages processed in each polling interval. This value may need to be adjusted depending on the number of messages received and/or processed and the processing power of the server running the EIE. In most cases, this setting will only affect the initial patient upload when large numbers of records may be processed. This value can also be modified using the EIE Management Portal.

Setting	Value	Comments
Throttle	1000	The amount of time to delay after processing each message; used to manage throughput. 1000 = 1 second of delay between each message processed. This value can also be modified using the EIE Management Portal.
Site ID	<installation id="" site=""></installation>	Numeric DUZ(2) value
Call Interval	5	Minimum interval between invocations of the adapter by the Ensemble framework. For adapters that poll for external events, this is the polling interval. This value can also be modified using the EIE Management Portal.
		(This setting should not be changed.)

#### 4.5.2 EDRInbound Settings

INTERSYSTEM	Ensemble Configuration	ith Service	Some EDGWINDEV Internet CACHE Une UnknownUter Normesdate (NSRMS * Gota *
BADE JHSProduction Production Running BOE Adapters (R-DA) where executes from the H-DA and Emilia R-DA adapter (175 ado and messages from the EOK potent SELECTRON Selection (1996)	Business Services	Business Processes	Business Operations   Buck Adapters H.COldbarDutboard  Pact Ref R. Adapters H.ColdbarDutboard  Pact Ref
Namai Commenti Schedule: Categoryi Classi Description: Brabled: Peregnoundi Log Tince Events: Directivity Timesuti Pool Site:	General Settings ESkround Accept messages from the EOR system via TC IOR Insc. 4 m. 7 Server TCHService N/A I I I I I I I I I I I I I	Adapter Class: Target Config Namas: Search Table Class: Local Facility Application: Framing: Ack Mode: Use Ack Commit Codes: Ignore/InfoundAck: AdditackBRR: Batchhanding: Message Schema Celegry: DelCharfineding: Alert On Errori Archive 301 Job Fer Connection: Allowed JP Addresses: QBIas: Call Interval: Port: Stay Connectedi Read Timeout; SBL Config:	Specific Settings           Encla KC7 Adapter TCPREquestsAdapter           SAGE SC7 Adapter TCPREquestsAdapter           Encla KC7 State           GC Enservicent, T           Peoble           Immediate           V           True           Settersson Blach M           ADAET SCR           Settersson Blach M           ADAET SCR           True           V           True           Settersson Blach M           ADAET SCR           True           V           True           Settersson Blach M           ADAET SCR           Settersson Blach M           Settersson Blach M

Figure 5-8: EDRInbound configuration screen

NOTE: In Table 5-4, only the setting shown in *italics* (IP Address and *Port*) should be changed.

All other settings are configured correctly. The default values should not be changed.

Table 5-4: EDRInbound settings

Setting	Value	Comments
Name	EDRInbound	(This setting should not be changed.)
Comment	Accept messages from the EDR system via TCP/IP	(This setting should not be changed.)

Setting	Value	Comments
Schedule	<blank></blank>	The Start/Stop schedule associated with this item.
		(This setting should not be changed.)
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production. (This setting should not be changed.)
Class	Ensl ib HI 7 Service	
	TCPService	(This setting should not be changed.)
Description	<blank></blank>	(This setting should not be changed.)
Enabled	Checked	This item is enabled when this production is started.
		(This setting should not be changed.)
Foreground	Unchecked	This item is not run in a foreground process.
		(This setting should not be changed.)
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.
		(This setting should not be changed.)
Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function.
Pool Sizo	1	Number of system jobs that must be
FUUI SIZE	1	allocated to run this business service.
		(This setting should not be changed.)
Adapter Class	EnsLib.HL7.Adapter. TCPInboundAdapter	Name of the Adapter class declared in the Business class for this item.
		(This setting should not be changed.)
Target Config Names	BADE. EDRMessageRouting	The business host where messages are sent.
		(This setting should not be changed.)

Setting	Value	Comments
Search Table Class	EnsLib.HL7.SearchTable	The set of searchable properties associated with each HL7 message processed.
		(This setting should not be changed.)
Local Facility Application	ISC:EnsembleHL7	The LocalFacility:LocalApplication codes representing this (receiving) facility and application, separated by a colon. Used as SendingFacility and SendApplication in reply ACK message headers. (This setting should not be changed.)
Framing	Flexible	The HL7 inbound message framing
J		protocol. Flexible = Determine framing style from the content of received data.
		(This setting should not be changed.)
Ack mode	Immediate	Controls ACK handling. Immediate = Send back (commit) ACK reply message immediately upon receipt of the inbound message.
		(This setting should not be changed.)
Use Ack Commit Codes	True	If HL7 message VersionID is 2.3 or higher, use the "enhanced-mode" ACK "Commit" codes ("Cx") in MSA:1 ("AcknowledgementCode"). (This setting should not be changed.)
IgnoreInboundAck	True	Set to True to avoid ACK feedback loop.
		(This setting should not be changed.)
AddNackERR	True	If a Nack message is sent (ACK with an error), the ERR code segment is added.
		(This setting should not be changed.)
BatchHandling	Single-Session Batch	EDR is not sending batched HL7 messages.
		(This setting should not be changed.)

Setting	Value	Comments
Message Schema Category	BADE.EDR	Category to apply to incoming message types to produce a complete DocType specification. Combines with document type name (MSH:9) to produce a MessagType specification, which is used to look up a MessageStructure/DocType in the MessageTypes section of the given HL7 schema category. (This setting should not be changed.)
DefCharEncoding	Latin1	The default character encoding used when reading or writing HL7 messages.
		(This setting should not be changed.)
Alert Grace Period	5	When <b>Alert On Error</b> is set to True, refrain from alerting if the error is not from ProcessInput() and the service succeeds again within this number of seconds.
Alort On Error	Truo	Sond an alort massage whonever an error
Alert On Litor	The	(This setting should not be changed.)
Archive IO	False	The adapter does not log each input and output communication with the external system to the Ensemble I/O archive. (This setting should not be changed.)
Job Per Connection	False	A new job is not spawned to handle each incoming TCP connection. Multiple connections are not handled simultaneously. (This setting should not be changed.)
Allowed IP Addresses	IP Address of Dentrix Server	Must be set to the IP address of DENTRIX dental server.
QSize	0	Number of incoming connections for the operating system to hold open on behalf of EDR. Set to 0 if only one connection at a time is expected. Set to a large number if many clients will be connecting rapidly. (This setting should not be changed.)

Setting	Value	Comments
Call Interval	5	Minimum interval between invocations of the adapter by the Ensemble framework. For adapters that poll for external events, this is the polling interval. (This setting should not be changed.)
Port	5028	TCP port that listens for and accepts connections.This must match the Dentrix Servers outbound message port. The Default is 5028.
Stay Connected	-1	<ul> <li>-1 = never disconnect.</li> <li>(This setting should not be changed. Note that the setting is <i>negative</i> 1.)</li> </ul>
Read Timeout	5	Number of seconds to wait for each successive incoming TCP read following receipt of initial data from remote TCP port. (This setting should not be changed.)
SSL Config	<blank></blank>	(This setting should not be changed.)
# 4.6 Business Processes

### 4.6.1 BADE.EDRMessageRouting Settings



Figure 5-9: BADE.EDRMessageRouting configuration screen

NOTE: Table 5-5 is provided for information only. *The default settings on the BADE.EDRMessageRouting configuration screen should not be changed.* 

Table 5-5: BADE.EDRMessageRouting settings

Setting	Value	Comments
Name	BADE.EDRMessageRouting	(This setting should not be changed.)
Comment	Routes messages received from the EDR system.	(This setting should not be changed.)
Schedule	<blank></blank>	The Start/Stop schedule associated with this item. (This setting should not be changed.)

Setting	Value	Comments
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.
		(This setting should not be changed.)
Class	EnsLib.HL7.MessageRouter. RoutingEngine	(This setting should not be changed.)
Description	<blank></blank>	(This setting should not be changed.)
Enabled	Checked	This item is enabled when this production is started.
		(This setting should not be changed.)
Foreground	Unchecked	Do not run this item in a foreground process.
		(This setting should not be changed.)
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.
		(This setting should not be changed.)
Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function.
		(This setting should not be changed.)
Pool Size	1	Number of system jobs that must be allocated to run this business service.
		(This setting should not be changed.)
Local Facility Application	ISC:EnsembleHL7	The LocalFacility:LocalApplication codes representing this (receiving) facility and application, separated by a colon. Used as SendingFacility and SendApplication in reply ACK message headers. (This setting should not be changed.)
Ack Type	<blank></blank>	Determines the ACK type (e.g., AA vs. CA) if constructing an ACK or NACK reply message locally. (This setting should not be changed.)

Setting	Value	Comments
NackCode	<blank></blank>	Determines the NACK code type (e.g., AE vs. AR) if constructing a NACK reply message locally to report an error.
		(This setting should not be changed.)
AddNackERR	False	Do not add an ERR code segment to Nack (ACK with an error) messages.
		(This setting should not be changed.)
Validation	dm-z	d = require a DocType; m = do not tolerate BuildMap errors; -z = do not tolerate unrecognized trailing Z- segments.
		(This setting should not be changed.)
Business Rule Name	BADE.EDRMessageRouting	(This setting should not be changed.)
Alert on Bad Message	True	Send an alert if validation blocks a message.
		(This setting should not be changed.)
Bad Message Handler	BadMessages	Name of host that handles messages blocked by validation.
		(This setting should not be changed.)
Response From	<blank></blank>	No reply will be requested from any target. A message is ACKed when it is received from the DENTRIX system.
		(This setting should not be changed.)
Response Target Config Names	<blank></blank>	Names a destination or destinations, in addition to the caller, to which responses are forwarded. Left blank because no ACKs are being received or created.
		(This setting should not be changed.)
Response Timeout	-1	This setting has no effect if <b>ResponseFrom</b> is empty.
		(This setting should not be changed. Note that the setting is <i>negative</i> 1.)
ForceSyncSend	False	Do not make synchronous calls for "send" actions.
		(This setting should not be changed.)

Setting	Value	Comments
Alert On Error	True	Send an alert message whenever an error occurs.
		(This setting should not be changed.)

#### 4.6.2 BADE.RPMSMessageRouting Settings

INTERSYSTE	Ensemble Configurati	OR dian Health Service			Server EDRWINDEV Instance CACHE
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	General Settings		Specific	Settings	
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Comment:	Routes messages received from the RPUS sy	Ack7y	pe:	×	
Schedule:		NackC	lede: 🖉		
Category:	604	AddNi	rokERRI False M		
Classi	Enaux HL7.MapRovter RoutingEnpine	Valda	dioni dn-z		
Description:	N/A	Name	BADE RPIC	StressageRouting	
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Log Trace Events:	ă l	Bad H Handi	essage BadMessag	pes .	
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		Respo	nse ut		
		Force	SyncSend: Fase M		
		Alert	On Errors 🛛 True 💌		

Figure 5-10: BADE.RPMSMessageRouting configuration screen

NOTE: Table 5-6 is provided for information only. *The default settings on the BADE.RPMSMessageRouting configuration screen should not be changed.* 

Table 5-6: BADE.RPMSMessageRouting settings

Setting	Value	Comments
Name	BADE. RPMSMessageRouting	(This setting should not be changed.)
Comment	Routes messages received from the RPMS system	(This setting should not be changed.)

Setting	Value	Comments
Schedule	<blank></blank>	The Start/Stop schedule associated with this item.
		(This setting should not be changed.)
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.
		(This setting should not be changed.)
Class	EnsLib.HL7.MsgRouter. RoutingEngine	(This setting should not be changed.)
Description	<blank></blank>	(This setting should not be changed.)
Enabled	Checked	This item is enabled when this production is started.
		(This setting should not be changed.)
Foreground	Unchecked	Do not run this item in a foreground process.
		(This setting should not be changed.)
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.
less stirites	<u>^</u>	(This setting should not be changed.)
Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function.
Pool Size	1	Number of system jobs that must be
		allocated to run this business service.
		(This setting should not be changed.)
Local Facility Application	ISC:EnsembleHL7	The LocalFacility:LocalApplication codes representing this (receiving) facility and application, separated by a colon. Used as SendingFacility and SendApplication in reply ACK message headers. (This setting should not be changed.)

Setting	Value	Comments
Ack Type	<blank></blank>	Determines the ACK type (e.g., AA vs. CA) if constructing an ACK or NACK reply message locally.
		(This setting should not be changed.)
NackCode	<blank></blank>	Determines the NACK code type (e.g., AE vs. AR) if constructing a NACK reply message locally to report an error.
		(This setting should not be changed.)
AddNackErr	False	Do not add an ERR code segment to Nack (ACK with an error) messages.
		(This setting should not be changed.)
Validation	dm-z	d = require a DocType; m = do not tolerate BuildMap errors; -z = do not tolerate unrecognized trailing Z- segments.
		(This setting should not be changed.)
Business Rule Name	BADE. RPMSMessageRouting	(This setting should not be changed.)
Alert on Bad Message	True	Send an alert if validation blocks a message.
DelMassa		(This setting should not be changed.)
Bad Message Handler	BadMessages	Name of host that handles messages blocked by validation.
		(This setting should not be changed.)
Response From	EDROutbound	The target an ACK response should be forwarded to.
		(This setting should not be changed.)
Response Target Config Names	RPMSOutbound	The destination or destinations, in addition to the caller, to which responses are forwarded.
		(This setting should not be changed.)
Response TimeOut	-1	This setting has no effect if <b>ResponseFrom</b> is empty.
		(This setting should not be changed. Note that the setting is <i>negative</i> 1.)
ForceSyncSend	False	Do not make synchronous calls for "send" actions.
		(This setting should not be changed.)

IHSProduction Configuration

Setting	Value	Comments
Alert On Error	True	Send an alert message whenever an error occurs.
		(This setting should not be changed.)

#### 4.6.3 ENS.Alert Settings

INTERSYSTE	Ensemble Configuration	on dian Health Service		E EDRWI	NDEV RE
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	-				
No. 1	General Settings	Alart Co.	Specific Settings		
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commerc:					
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Invasionali					
Los Trace Events	8				
Inamipity Timenut					
Paul Size:					
c					

Figure 5-11: ENS.Alert configuration screen

NOTE: Table 5-7 is provided for information only. *The default settings on the ENS.Alert configuration screen should not be changed.* 

Table 5-7: ENS.Alert settings

Setting	Value	Comments
Name	ENS.Alert	(This setting should not be changed.)
Comment	<blank></blank>	(This setting should not be changed.)
Schedule	<blank></blank>	The Start/Stop schedule associated with this item. (This setting should not be changed.)

Setting	Value	Comments
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.
		(This setting should not be changed.)
Class	BADE.Processes. AlertProcess	(This setting should not be changed.)
Description	<blank></blank>	(This setting should not be changed.)
Enabled	Checked	This item is enabled when this production is started.
		(This setting should not be changed.)
Foreground	Unchecked	Do not run this item in a foreground process.
		(This setting should not be changed.)
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.
Inactivity	0	(This setting should not be changed.)
Timeout	0	without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function.
		(This setting should not be changed.)
Pool Size	0	Number of system jobs that must be allocated to run this business service.
Alart On Error	Foloo	Do not cond on clort moscore when an
Aiert Un Error	raise	error occurs.
		(This setting should not be changed.)

# 4.7 Business Operations

### 4.7.1 RPMSOutbound Settings



Figure 5-12: RPMSOutbound configuration screen

NOTE: In Table 5-8, only the setting shown in *italics (SiteID* and *LLink)* should be changed.
 All other settings are configured correctly. The default values should not be changed.

Table 5-8: RPMSOutbound settings

Setting	Value	Comments
Name	RPMSOutbound	(This setting should not be changed.)
Comment	Place the HL7 message into the HLA and HLB globals	(This setting should not be changed.)
Schedule	<blank></blank>	The Start/Stop schedule associated with this item. (This setting should not be changed.)

Setting	Value	Comments
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.
		(This setting should not be changed.)
Class	BADE.Operations. RPMS	(This setting should not be changed.)
Description	The outbound operation that communicates with the RPMS system	(This setting should not be changed.)
Enabled	Checked	This item is enabled when this production is started.
		(This setting should not be changed.)
Foreground	Unchecked	Do not run this item in a foreground process.
		(This setting should not be changed.)
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production. (This setting should not be changed.)
Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function. (This setting should not be changed.)
Pool Size	1	Number of system jobs that must be allocated to run this business service. (This setting should not be changed.)
Adapter Class	BADE.Adapters. HLOGlobal Outbound	The name of the Adapter class declared in the Business class for this item.
		(This setting should not be changed.)
Separators	^~\&	The string of separator characters to use in encoding outbound messages. The order is FS, CS, RS, ESC, SS.
Oceands Table	blash	(I nis setting should not be changed.)
Search Table Class	<dual k=""></dual>	(This setting should not be changed.)

Setting	Value	Comments
DefCharEncoding	Latin1	The default character encoding used when reading or writing HL7 messages.
		(This setting should not be changed.)
Alert Retry Grace Period	5	When <b>Alert On Error</b> is set to True, refrain from alerting if the error is not from ProcessInput() and the service succeeds again within this number of seconds.
	-	(This setting should not be changed.)
Retry Interval	5	How frequently to retry access to the output system.
		(This setting should not be changed.)
Failure Timeout	25	How long to keep retrying before giving up and returning an error code.
		(This setting should not be changed.)
Alert On Error	True	Send an alert message whenever an error occurs here.
		(This setting should not be changed.)
Archive IO	False	The adapter does not log each input and output communication with the external system to the Ensemble I/O archive.
		(This setting should not be changed.)
Framing	MLLP (HL7 message outbound protocol)	Minimal Lower Level Protocol. Frame each HL7 message with ASCII(11) prefix and ASCII(28,13) suffix.
		(This setting should not be changed.)
SiteID	Dental	Facility number. Either Numeric site ID for the facility or Name. This field is used to append the IEN for use with the HLO message lookup. It generates the NAME field of the HLO Message file .The Default is Dental
LLink	RPMS-DEN	Logical link between the two systems. This value should match the name used in the HLO Application Registry file. The default is RPMS-DEN

## 4.7.2 EDROutbound Settings

INTERSYSTE	Ensemble Configuration Uccessed to: Property of the Indian Health Service			EDRWINDEV CACHE UnknownUser
[Ensemble] > [Product	tions)		Namespace: ENSAPHIS	✓ Ce to
BADE.1HSProduction Production Running	Business Services Business Process	es Business Ope	rations	
IACK Adapters (HL) entriese messages from the FLA a EmcBuHL3 Adapter TOPp Logit messages from the EDR upt	Catelintowed	ing I I I I I I I I I I I I I I I I I I I	MCE Adapters H.GSobarOxforwel     Pact the HC Treasage and test the HLA and HLB     Cost.Bullet.OutboundAdapter     Write messages that event to a Tite     Pact.Bullet.Adapters To the CDR system value     Cost.Bullet.Bullet.OutboundAdapter     Lost.Bullet.Bullet.OutboundAdapter	patule 1 1037
Business Operations	EnsBb34.7.Operation.70POperation			
Anny	Carcel Capy Remove Charg	e Cass Vistances	Hatary Queve	Test Heb
Name: Comment: Schedule: Cetepory: Class: Description: Brebled: Perepround: Log Trace Events: Deschvity Timeout: Pool Size:	General Settings  DDOutsurd  Send the rs_7 nessages to the CDR system via  DR  FineLa KL7.Operator TOPOperator  Accepts HL7 Messages and forwards them to a remote IP address, reading a response HL2 Message object returned from the remote IP address if the CetReply setting is enabled.	Adapter Class: RaplyCodeActions: NoFailWhileDoconnected: Separators: Search Table Class: DefCharthooding: Alert Rathy Grace Period: Retry Streivel: Rature Timeout: Alert On Error: Archive 10: Franking: IP Address: Norv.	Specific Settings FreiLis KLT Adapter TCPOutbound-Adapter Pase V P-12 Luton 5 6 1 Tour V Frees V ULP 108 45 101	
		Port: Response Timeout: Stay Connected: Connect Timeout: Reconnect Retry: Get Reply: Read Timeout: SSL Cenfig:	6 5 6 7 8 7 10 7 10 8 7 10 8	

Figure 5-13: EDROutbound configuration screen

NOTE: In Table 5-9, only the settings shown in *italics* (*IPAddress* and *Port*) should be changed.

All other settings are configured correctly. The default values should not be changed.

Table 5-9: EDROutbound settings

Setting	Value	Comments
Name	EDROutbound	(This setting should not be changed.)
Comment	Sends the HL7 messages to the EDR system via TCP/IP	(This setting should not be changed.)

Setting	Value	Comments
Schedule	<blank></blank>	The Start/Stop schedule associated with this item.
		(This setting should not be changed.)
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.
		(This setting should not be changed.)
Class	EnsLib.HL7.Operation.	
		(This setting should not be changed.)
Description	Accepts HL7 Messages and forwards them to a remote IP address, reading a response HL7 Message object returned from the remote IP address if the GetReply setting is enabled.	(This setting should not be changed.)
Enabled	Checked	This item is enabled when this production is started. (This setting should not be changed.)
Foreground	Unchecked	Do not run this item in a foreground process. (This setting should not be changed.)
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production. (This setting should not be changed.)

Setting	Value	Comments
Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function.
		(This setting should not be changed.)
Pool Size	1	Number of system jobs that must be allocated to run this business service.
		(This setting should not be changed.)
Adapter Class	EnsLib.HL7.Adapter. TCPOutboundAdapter	(This setting should not be changed.)
ReplyCodeActions	<blank></blank>	List of codes specifying actions to take on receipt of various types of ACK response messages.
		When left blank, DENTRIX default action is to send "AA" in the MSA:1 field.
		(This setting should not be changed.)
NoFailwhileDisconnected	False	Do not suspend counting seconds toward FailureTimeout when disconnected.
		(This setting should not be changed.)
Separators	^~\&	The string of separator characters to use in encoding outbound messages. The order is FS, CS, RS, ESC, SS.
		changed.)
Search Table Class	<blank></blank>	No search table is being used.
		(This setting should not be changed.)
DefCharEncoding	Latin1	The default character encoding used when reading or writing HL7 messages.
		(This setting should not be changed.)

IHSProduction Configuration

Setting	Value	Comments
Alert Retry Grace Period	5	When <b>Alert On Error</b> is set to True, refrain from alerting if the error is not from ProcessInput() and the service succeeds again within this number of seconds.
		(This setting should not be changed.)
Retry Interval	5	How frequently to retry access to the output system.
		(This setting should not be changed.)
Failure Timeout	-1	How long to keep retrying before giving up and returning an error code.
		(This setting should not be changed. Note that the setting is <i>negative</i> 1.)
Alert On Error	True	Send an alert message whenever an error occurs here.
Archive IO	False	The adapter does not log each input and output communication with the external system to the Ensemble I/O archive.
		(This setting should not be changed.)
Framing	MLLP	Minimal Lower Level Protocol. Frame each HL7 message with ASCII(11) prefix and ASCII(28,13) suffix.
		changed.)
IP Address	198.45.6.101	IP address of the Dentrix Server
Port	5027	Port number for the Dentrix Server Inbound messages. The default setting is 5027
Response Timeout	5	Number of seconds to wait for a response to begin arriving from the remote system after sending a request.
		(This setting should not be changed.)

Setting	Value	Comments
Stay Connected	-1	Never disconnect
		(This setting should not be changed. Note that the setting is <i>negative</i> 1.)
Connect Timeout	5	Number of seconds to wait on each connection attempt.
		(This setting should not be changed.)
Reconnect Retry	5	Number of retries before dropping the connection and trying to reconnect again. If set to 0, never disconnect.
		(This setting should not be changed.)
Get Reply	True	Wait to read ACK or other reply message from socket before returning.
		(This setting should not be changed.)
Read Timeout	5	Number of seconds to wait for each successive incoming TCP read, following receipt of initial data from remote TCP port.
		(This setting should not be changed.)
SSL Config	<blank></blank>	The name of an existing Secure Socket Layer/Transport Layer Security (SSL/TLS) system configuration set to use SSL/TLS, configured using the system portal's Security Management page. May include a certificate password after a " " character for inbound connections. Left blank because SSL is not being used
		(This setting should not be changed.)

### 4.7.3 BadMessages Settings

INTERSYSTE	Ucensed to	ele Configuratio	a <b>n</b> Sian Health Service			e	- 1			Sever EDRWIN Instance CAEH Over Unknow	IDEV E nUser
(Ensemble) > [Poblaci	ions]								Namanjiaba! En	ISRPILS 👻 Colto	×
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Name: Comment: Schedule: Category: Class: Description: Brabled: Poreground: Log Trace Events: Instrivity Timeout: Pool Size:	General Settin Belliessages Vite ressages that COR Ensub HC7.Operates N/A P P P	95 ened to a file			Adapter / Pile Nam AutoBetc Separato Search T DefCharl Alert Ref Periodi Refry Int Palure T Alert On Archive I Framing: Nie Petrifi	Class: El El El Encologo tros able Class: brook class: brook enval: brook Brook Brook Brook Brook Brook	Specific Setti (main fie Outwood) Satissagefie Pate (*) Pate (*) Pate (*) S S S S S S S S S S S S S S S S S S S	ings Add.dapter			
					Charset:		Default				
					Open Tin	negut:	•				

Figure 5-14: BadMessages configuration screen



Table 5-10	BadMessages	settings
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Setting	Value	Comments
Name	BadMessages	(This setting should not be changed.)
Comment	Write messages that erred to a file.	(This setting should not be changed.)
Schedule	<blank></blank>	The Start/Stop schedule associated with this item. (This setting should not be changed.)

Setting	Value	Comments		
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.		
		(This setting should not be changed.)		
Class	EnsLib.HL7.Operation. FileOperation	(This setting should not be changed.)		
Description	<blank></blank>	(This setting should not be changed.)		
Enabled	Checked	This item is enabled when this production is started.		
		(This setting should not be changed.)		
Foreground	Unchecked	Do not run this item in a foreground process.		
		(This setting should not be changed.)		
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production.		
		(This setting should not be changed.)		
Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function. (This setting should not be changed.)		
Pool Size	1	Number of system jobs that must be		
		allocated to run this business service.		
		(This setting should not be changed.)		
Adapter Class	EnsLib.File. OutboundAdapter	(This setting should not be changed.)		
File Name	BadMessageFile	Name of output file for bad messages.		
		The default is blank.		
AutoBatchParentSegs	False	No batch messages.		
		(This setting should not be changed.)		
Separators	^~\&	The string of separator characters to use in encoding outbound messages. The order is FS, CS, RS, ESC, SS.		
		(This setting should not be changed.)		

Setting	Value	Comments		
Search Table Class	<blank></blank>	No search table being used.		
		(This setting should not be changed.)		
DefCharEncoding	Latin1	The default character encoding used when reading or writing HL7 messages.		
	_	(This setting should not be changed.)		
Alert Retry Grace Period	5	When <b>Alert On Error</b> is set to True, refrain from alerting if the error is not from ProcessInput() and the service succeeds again within this number of seconds.		
		(This setting should not be changed.)		
Retry Interval	5	How frequently to retry access to the output system.		
		(This setting should not be changed.)		
Failure Timeout	-1	How long to keep retrying before giving up and returning an error code.		
		(This setting should not be changed.)		
Alert On Error	True	Send an Alert message whenever an error occurs here.		
		(This setting should not be changed.)		
Archive IO	False	The adapter does not log each input an output communication with the external system to the Ensemble I/O archive.		
		(This setting should not be changed.)		
Framing	AsciiLF	Frame each HL7 message with ASCII(10) (Linefeed) separating each message from the next.		
		(This setting should not be changed.)		
File Path	<path server="" to="" where<br="">EIE resides.&gt;</path>	Path where bad messages can be stored for later review. In Windows the default is C <sup>©</sup> TEMP and in UNIX the default is /tmp		
Overwrite	False	Append the file.		
		(This setting should not be changed.)		
Charset	Default	Character set used to translate output to the file.		
		(This setting should not be changed.)		

Setting	Value	Comments
Open Timeout 5		Number of seconds to wait on each attempt to open the output file.
		(This setting should not be changed.)

### 4.7.4 EmailAlert Settings

INTERSYSTE	Ensemble Configuration		B B B B B B B B B B B B B B B B B B B		
[Ensemble] > [Product	ions)		Namespace: ENSAPIIIS M Go to:		
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Business Operations Appy	Enstitu Estail Alert Operation Cancel Cooy Renove C	hange Class   Insta	nces Matory Queue Yost Melp		
	General Settings		Specific Settings		
Name:	EnalAiet	Adapter Class:	Brail & Ethel Outbourt4-depter		
Comments		Alert Retry Grace Periodi	8		
Schedule:		Retry Sitterval:	8		
Category:	EDR	Pailure Timeout:	25		
Class:	Ensue EMail AlertOperation	Alert On Error:	False H		
Description:	Simple EMail Alert Operation. To handle Alert messages by sending an EMail, configure an Operation in your Productio named Ens.Alert using this class. Ensemble sends all AlertRequest messages to whatever Production Item is named Ens.Alert. (If there is no item named Ens.Alert then all AlertRequest messages are merely recorded in the Ensemble Event Log.)	n Arthive 10: SMTP Server: SMTP Port: Credentials:	Falae (m) eoperiner /te-milliong 25		
Enabled:			PICHARD, A. HARFFORMIC. con, Liyananoto@hotmail.com, HITCHELL.E. VEDBE		
Foregrounds		Recipienti	ngithe.gov		
Log Trace Events:					
Inactivity Timeout:	•				
Pool Size:		Cei			
		From:	EnergetTI@Rhis wr.cows		

Figure 5-15: EmailAlert configuration screen

NOTE: In Table 5-11, only the settings shown in *italics* (*SMTP Server, Credentials, Recipient,* and *Cc*) should be changed.

All other settings are configured correctly. The default values should not be changed.

Setting	Value	Comments
Name	EmailAlert	(This setting should not be changed.)

Setting	Value	Comments		
Comment	<blank></blank>	Additional information pertaining to this business class. (This setting should not be		
Schedule	<pre> cblank&gt;</pre>	(This setting should not be		
		changed.)		
Category	EDR	A grouping for pieces of a production that can be used to filter views for a production.		
		(This setting should not be changed.)		
Class	EnsLib.Email.AlertOperation	(This setting should not be changed.)		
Description	Simple EMail Alert Operation. To handle Alert messages by sending an EMail, configure an Operation in your Production named Ens.Alert using this class. Ensemble sends all AlertRequest messages to whatever Production Item is named Ens.Alert. (If there is no item named Ens.Alert then all AlertRequest messages are merely recorded in the Ensemble Event Log.)	(This setting should not be changed.)		
Enabled	Checked	This item is enabled when this production is started. (This setting should not be changed)		
		changed.)		
Foreground	Unchecked	Do not run this item in a foreground process. (This setting should not be changed.)		

Setting	Value	Comments
Log Trace Events	Checked	Logging of trace events is enabled for troubleshooting purposes. A global variable is used in conjunction with this setting to enable trace events for this production. (This setting should not be
		changed.)
Inactivity Timeout	0	Number of seconds that can elapse without activity before this item is marked inactive. A setting of 0 disables the inactivity timeout function. (This setting should not be changed)
Pool Sizo	1	Number of cyctom jobs that
F001 512e		(This setting should not be changed.)
Adapter Class	EnsLib.File.OutboundAdapter	(This setting should not be changed.)
Alert Retry Grace Period	5	When <b>Alert On Error</b> is set to True, refrain from alerting if the error is not from ProcessInput() and the service succeeds again within this number of seconds. (This setting should not be changed.)
Retry Interval	5	How frequently to retry
		access to the output system. (This setting should not be changed.)
Failure Timeout	25	How long to keep retrying before giving up and returning an error code. (This setting should not be changed.)

Setting	Value	Comments
Alert On Error	False	Do not send an Alert message when an error occurs here.
		(This setting should not be changed.)
Archive IO	False	The adapter does not log each input and output communication with the external system to the Ensemble I/O archive.
		(This setting should not be changed.)
SMTP Server	SMTPRE.IHS.GOV	IP address of SMTP server to send mail to. For HIS Direct Sites connected to the HIS.GOV Intranet, the default is SMTPRE.IHS.GOV Note: Timeouts for
		connecting and sending mail can be more than 10 minutes.
SMTP Port	25	The Port ID on the SMTP server to send mail to.
		(This setting should not be changed.)
Credentials	<id></id>	ID name of the credential set used to access the SMTP server.The default is blank
Recipient	<one addresses="" e-mail="" more="" or=""></one>	E-mail address(es) of a recipient or list of recipients that will be added to the To: list of each e-mail message sent. This is automatically generated when e-mail addresses are entered using the EIE Management Portal.Multiuple addresses can be included. Addresses should be separated by commas.

Setting	Value	Comments
CC	<one addresses="" e-mail="" more="" or=""></one>	<i>E-mail address(es) of a</i> recipient or list of recipients that will be added to the To: list of each e-mail message sent. This is automatically generated when e-mail addresses are entered using the EIE Management Portal. Multiuple addresses can be included. Addresses should be separated by commas.
From	EnsembleEDR@RPMS.WINDOWS	The Site should be identified in the email address.
		Example: EnsembleEDR@MySiteNam e.IHS.GOV

# 5.0 IHSProduction Export

NOTE: Once your production is fully operational, each site should produce an export of their IHSProduction and save the file in a safe location. In the event that your site has a full system failure, you can recover all of your default operation settings by importing this saved file. You should make sure the file name contains the date and time stamp of the export.

# 5.1 Open Ensemble Studio

In a Windows environment, right-click the Ensemble Cube in the lower right corner and click **Studio**. Type your login ID and password.



Figure 6-1: Opening Ensemble Studio

## 5.2 Select the Proper Namespace

The namespace should be ENSRPMS.

1. On the File menu, click Change Namespace.



Figure 6-2: Change Namespace menu option

2. In the **Namespace** list, click **ENSRPMS**.

198.45.6.105 - Remote Desktop VANGENT-CACHE/ENSRPM5-1H5 - Studio		×
Eile Edit Yiew Project Build Debug Tools Utilities Help		
. <b>6.80 8 4 → 3 6 8 9 2 8 0 8 7</b>	- Ø 🛗 🔯 📥	
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1919		
<u> </u>		

Figure 6-3: Selecting the ENSRPMS namespace

# 5.3 Open the project

Ensure that the EDR\_ENSRPMS project is open.

- 1. On the File menu, click Open Project.
- 2. In the **Open** dialog box, select **EDR\_ENSRPMS**, and click **Open**.

A EDR_ENSRPMS (EP	SEMBLE2008:	ENSRPMS)ENSEMBLE2	008/ENSRPMS-EDR_ENSRI	PMS - Studio			<b>.</b> 7 🗙
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	File name:	EDR_ENSRPMS.prj		•	Open		Production Project
	Files of type:	Project (*.prj)		•	Cancel		Inspector
	🔲 Open as read-	only					<u> </u>

Figure 6-4: Opening the EDR\_ENSRPMS project

# 5.4 Export the IHSProduction

1. On the Tools menu, click Export.



Figure 6-5: Export menu option

- 2. In the **Export** dialog box, ensure that the **Export current Project** box is selected.
- 3. Click **Export to Local File**. Type the path and file name in the text box, and then click **OK**..

Figure 6-6: **Export** dialog box

When the system finishes compiling, "Export finished successfully" is displayed in the **Result** pane.

For completeness, this process may also be performed in the %SYS namespace for the project EDR\_SYS. This is not necessary, however, because the production settings will not be modified in the %SYS namespace, so the export file will be identical to the EDE\_SYS.XML file used to import the system items.

# 6.0 IHSProduction Start

# 6.1 Starting the production

Log on to the EIE Management Portal by opening Internet Explorer and navigating to <a href="http://(server:port)/csp/ensrpms/BADE.Zen.Home.cls">http://(server:port)/csp/ensrpms/BADE.Zen.Home.cls</a>

Login ENSEMBLE2008 - Microsoft Internet Expl	orer	
Eile Edit View Favorites Tools Help		
Address a http://localhost:57774/csp/ensrpms/BADE.Zen.Pr	roductionMonitor.cls	🔽 🄁 Go 🛛 Links 🎽 📆 🗸
U.S. Department of Health and Indian Health Se The Federal Health Program for American	d Human Services <b>Prvice</b> Indians and Alaska Natives	
	Please enter your user name and password to login:	
	Deservand	
	Passworu.	
	Login	
E Done		Scal intranet

Figure 8-1: EIE Management Portal logon page

Log in as a user with sufficient privilege to access the EIE Management Portal and manage the production. (A super user login will have these privileges.)

On the **Production Monitor** page, click **Start Production** to start the BADE.IHSProduction.

# 6.2 Alternative method for starting the production

An alternative method for starting the production is provided by the Ensemble Management Portal.

In Ensemble Studio, click **Ensemble Management** on the **File** menu.



Figure 8-2: Ensemble Management menu option

Or, In the System Management Portal, click **Ensemble Management Portal** under **System Administration**.

😻 198.45.6.105 - Remote Desktop ØHome - Windows Internet Explorer						
😋 🕒 👻 http://localhost:57772/csp/sys/UtilHome.csp?\$ID1=&\$ID2=%5EH	LA8&ID3=08&NAMESPACE=ENSRPMS	▼ <sup>4</sup> 7 ×	Live Search	2		
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Database Encryption     Ensemble Management Portal	➤ Globals	<ul> <li>Processes</li> <li>Locks</li> <li>Journals</li> </ul>				
		<ul> <li>A Shadow Servers</li> <li>Task Manager</li> </ul>				
		<ul> <li>» System Logs</li> <li>» System Usage</li> </ul>				
		CSP Sessions     Background Tasks				
		<ul> <li>Diagnostic Report</li> </ul>				
Ensemble Management Portal Go to Ensemble Management Portal. <u>www.interSystems.com</u> <u>@ Copyright</u> 1996-2009 InterSystems Corporation. All Rights Reserved.						

Figure 8-3: Starting the Ensemble Management Portal

The namespace should be ENSRPMS.

• In the Namespace list, click ENSRPMS.



Figure 8-4: Selecting the ENSRPMS namespace

If the BADE.IHSProduction is listed next to **Production** (just below the **Start Production** button), click **Start Production**.

🗿 Ensemble - Microsoft Internet Explorer 🛛 🔲 🗖 🔀					
Elle Edit View Favorites Iools Help					
Address 🕘 http://localhost:57774/csp/ensrpms/UtilEnsHome.csp?\$NAMESPACE=ENSRPMS			🚽 🔁 Go 🛛 Links 🎽 🐑 🗸		
Home   About   Help   Logout   Licensed to: VOE Ensemble Beta Testers					
[Ensemble]		Namespace: ENSRPMS	🗙 Golto:		
Home					
Productions	Welcome to the Ensemble Management Portal:				
System Monitor	This is the ENSRPMS namespace.				
Event Log					
Message Browser	Ensemble Stopped	Service	]		
Business Processes		Last Activity Time:			
Business Rules	Start Production	Activities Completed: 0	-		
Business Rule Log	Production: BADE.IHSProduction 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			
Workflow 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			

Figure 8-5: Selecting BADE.IHSProduction

If the production is blank, or if it is a different production, click the *more* link:

Ensemble - Microsoft Interne	et Explorer				
File Edit View Favorites Tools Help					
Address Address Address Address	 p/ensrpms/UtilEnsHome.csp?\$NAMESPACE=&CSPSHARE=1		Go Links » 📆 🗸		
	Ensemble Management Portal Licensed to: VOE Ensemble Beta Testers		Server: PGS6NGYQ91LARL Instance: ENSEMBLE2008 User: _SYSTEM		
[Ensemble]		Namespace: ENSRPMS	🖌 🗹 Golto:		
Home					
Productions	Welcome to the Ensemble Management Portal:				
System Monitor	This is the ENSRPMS namespace.				
Event Log					
Message Browser	Ensemble Stopped	Service	7		
Business Processes		Last Activity Time:	-		
Business Rules	Start Production	Activities Completed:	0		
Business Rule Log	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:	<u> </u>		
		Messages in Queues:	0		
	<u>© Copyright</u> 1996-20	www.interSystems.com 09 InterSystems Corporation, All Rights Reserved.			
٤́			Scal intranet		

Figure 8-6: *more* link
On the Ensemble Productions page, find the row for the BADE.IHSProduction.

Productions - Microsoft Inter	net Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	; <u>H</u> elp	A
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[Ensemble] > [Productions]	Namespace	e: ENSRPMS 🔽 Go to: 💌
Home		
Productions	Create New Production	
System Monitor	Edit, start or stop an Ensemble production	
Event Log	using the table below: Last update: 2009-03-30 14	1:49:25.855 ⊻ Auto
Message Browser	Film	
Business Processes	Filter: Page size: 20 V Items found: 1	
Business Rules	Production Status Last Start Time Last Stop Time	
Business Rule Log	BADE.IHSProduction Stopped 2009–03–30 14:48:30.863 2009–03–30 14:49	2:03.170 <u>Configure</u> <u>Start</u> – <u>Model</u>
Host Monitor		
Jobs		
Queues		
Maintenance		
Dashboards		
Business Metrics		
Work flow Portal		
Testing Service		
EDI / HL7 Manager		
Logout		
🕘 Done		S Local intranet

Figure 8-7: Configuring BADE.IHSProduction

Click **Start**, then click **OK** in the confirmation dialog box.

Click **OK** on the **Ensemble Production Start** screen to return to the Ensemble Management Portal.

🗿 Ensemble Start / Stop Page - Microsoft Internet Explorer		×
Ele Edt View Favorites Iools Help		1
Address 🗃 http://localhost:57774/csp/ensrpms/CSPX.EnsStartStopPage.cls?MODE=startSuJRL=UtilEnsProductions.csp8dp101=BADE.IHSProduction&MAMESPACE=ENSRPM 🛩 🔁 Go	Links 🎽 📆 🗸	
Ensemble Production Start		^
Starting Production BADE IHSProduction Status: Finished		
ConfigItem 'BADE.EDRMessageRouting' started.		
ConfigItem 'BADE.RPMSMessageRouting' started.		
Confightem 'BadMessages' statted.		
Configutem 'BDROUthound' started		
ConfigItem 'EmailAlert' started.		
ConfigItem 'Ens.Actor' updated.		
ConfigItem 'Ens.Actor' updated.		
ConfigItem 'Ens.Alarm' started.		
Configliem 'Ens.MonitorService' started.		
Configitem 'Ensible Testing Process' started		
Configurem 'RPMSInbound' started.		
ConfigItem 'RPMSOutbound' started.		
Scheduler has been updated.		
Production BADE.IHSProduction Started.		
OK		
		~
🖉 Done	ntranet	Ē
		-

Figure 8-8: Ensemble Production Start screen

## 7.0 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: <a href="mailto:support@ihs.gov">support@ihs.gov</a>