RESOURCE AND PATIENT MANAGEMENT SYSTEM

Patient Registration MPI Interface (AG)

Ensemble Technical Manual

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Albuquerque, New Mexico
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</tbody>
</table>
# Table of Contents

1.0 **Introduction** ............................................................................................................. 1

2.0 **Orientation** ............................................................................................................... 2

3.0 **Implementation and Maintenance** .......................................................................... 3
   3.1 System Requirements ................................................................................................. 3
   3.2 Management Portal Resources .................................................................................... 3

4.0 **Menu Options** .......................................................................................................... 4

5.0 **Classes** ................................................................................................................... 5
   5.1 Class List ..................................................................................................................... 5
   5.2 Classes with Description ............................................................................................... 5
   5.3 Method List .................................................................................................................. 6
      5.3.1 AGMP.Adapters.HLBGlobalInbound.OnTask ......................................................... 6
      5.3.2 AGMP.Adapters.HLBGlobalOutbound.FileMessage ................................................. 6
      5.3.3 AGMP.DataModel.EmailModel.%OnOpenSource ...................................................... 7
      5.3.4 AGMP.DataModel.EmailModel.%OnSaveSource ...................................................... 7
      5.3.5 AGMP.DataModel.EmailModel.%OnNewSource ...................................................... 7
      5.3.6 AGMP.DataModel.EmailModel.%OnDeleteSource ..................................................... 7
      5.3.7 AGMP.DataModel.EmailModel.%OnLoadModel ....................................................... 8
      5.3.8 AGMP.DataModel.EmailModel.%OnStoreModel ..................................................... 8
      5.3.9 AGMP.DataModel.ErrorModel.%OnOpenSource ...................................................... 8
      5.3.10 AGMP.DataModel.ErrorModel.%OnSaveSource ................................................. 9
      5.3.11 AGMP.DataModel.ErrorModel.%OnNewSource .................................................... 9
      5.3.12 AGMP.DataModel.ErrorModel.%OnDeleteSource .............................................. 9
      5.3.13 AGMP.DataModel.ErrorModel.%OnLoadModel ................................................. 9
      5.3.14 AGMP.DataModel.ErrorModel.%OnStoreModel ................................................ 10
      5.3.15 AGMP.DataModel.MessageModel.%OnOpenSource ............................................. 10
      5.3.16 AGMP.DataModel.MessageModel.%OnSaveSource ............................................ 10
      5.3.17 AGMP.DataModel.MessageModel.%OnNewSource ........................................... 11
      5.3.18 AGMP.DataModel.MessageModel.%OnDeleteSource ........................................ 11
      5.3.19 AGMP.DataModel.MessageModel.%OnLoadModel .......................................... 11
      5.3.20 AGMP.DataModel.MessageModel.%OnStoreModel ........................................ 11
      5.3.21 AGMP.DataModel.ProductionModel.%OnLoadModel ........................................ 12
      5.3.22 AGMP.DataModel.ProductionModel.GetMessageCount ..................................... 12
      5.3.23 AGMP.DataModel.RoleModel.%OnOpenSource .................................................. 12
      5.3.24 AGMP.DataModel.RoleModel.%OnSaveSource ................................................. 13
      5.3.25 AGMP.DataModel.RoleModel.%OnNewSource .................................................. 13
      5.3.26 AGMP.DataModel.RoleModel.%OnDeleteSource ............................................. 13
      5.3.27 AGMP.DataModel.RoleModel.%OnLoadModel ................................................... 13
      5.3.28 AGMP.DataModel.RoleModel.%OnStoreModel ................................................ 14
      5.3.29 AGMP.DataModel.UserModel.%OnOpenSource ................................................ 14
5.3.30 AGMP.DataModel.UserModel.%OnSaveSource ....................... 14
5.3.31 AGMP.DataModel.UserModel.%OnNewSource ....................... 14
5.3.32 AGMP.DataModel.UserModel.%OnDeleteSource ..................... 15
5.3.33 AGMP.DataModel.UserModel.%OnLoadModel .......................... 15
5.3.34 AGMP.DataModel.UserModel.%OnStoreModel ....................... 15
5.3.35 AGMP.Install.Installation ................................................. 15
5.3.36 AGMP.Services.RPMS.OnProcessInput ............................... 16

6.0 Files and Tables .................................................................... 17
  6.1 File List ............................................................................ 17
  6.2 File Access ....................................................................... 17
  6.3 Cross References .............................................................. 17
  6.4 Table File ......................................................................... 17
  6.5 Callable Routines .............................................................. 17
  6.6 External Relations ............................................................. 17
  6.7 Published Entry Points ...................................................... 17
    6.7.1 ##class(AGMP.Install).Installation() ............................ 17
    6.7.2 /csp/ensrpm/AGMP.Home.cls ..................................... 18
  6.8 Exported Options ............................................................ 18

7.0 Internal Relations .................................................................. 19

8.0 Archiving and Purging .......................................................... 20

9.0 Productions ......................................................................... 21
  9.1 IHS Production .................................................................. 21

10.0 Documentation Resources .................................................... 22
   10.1 Class Reference .............................................................. 22
   10.2 Production Configuration ............................................... 22

11.0 SAC Requirements/Exemptions .............................................. 23

12.0 Templates, Forms, and Protocols ......................................... 24
   12.1 Print Templates .............................................................. 24
   12.2 Sort Templates .............................................................. 24
   12.3 Input Templates ............................................................. 24
   12.4 List Templates ............................................................... 24
   12.5 Forms ......................................................................... 24
   12.6 Protocols ..................................................................... 24

13.0 Glossary ............................................................................ 25

Contact Information ................................................................... 26
Preface

The purpose of this manual is to provide technical information about the Ensemble Interface Engine (EIE) package. The EIE package is designed to facilitate data exchange between the Resource and Patient Management System (RPMS) and the Master Patient Index (MPI) system and to provide administrators a portal for monitoring and managing production instances.
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 50 healthcare and administrative applications. Virtually all of these applications interact directly with one or more, and sometimes many, of the RPMS applications.

This manual provides IHS site managers with a technical description of the Ensemble Interface Engine (EIE) classes and other necessary information required to effectively manage the system.

All classes are namespaced starting with the letters AG.
2.0 Orientation

The EIE interface requires no direct user interaction. The preparation required to run the EIE interface is described in detail in the Install manuals for Ensemble and for AG (MPI) Interface. The interface runs in the background, exchanging data between the two systems.

The System Management Portal can be accessed by entering a specific URL into the web browser. After logging in, the user can manage the production instance as well as user security.
3.0 Implementation and Maintenance

The EIE system is designed to work with RPMS through Health Level 7 Optimized (HLO) globals and with AG MPI through transmission control protocol (TCP) connections.

3.1 System Requirements

<table>
<thead>
<tr>
<th>Module</th>
<th>Minimum Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensemble</td>
<td>2009.1</td>
</tr>
<tr>
<td>Internet Explorer</td>
<td>6.0</td>
</tr>
</tbody>
</table>

3.2 Management Portal Resources

<table>
<thead>
<tr>
<th>Feature</th>
<th>Resource/Privilege Pair Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Portal</td>
<td>AGMP_Portal</td>
</tr>
<tr>
<td>Start/stop production</td>
<td>AGMP_Production</td>
</tr>
<tr>
<td>Change production settings</td>
<td></td>
</tr>
<tr>
<td>View error log</td>
<td>AGMP_Errors</td>
</tr>
<tr>
<td>View message browser</td>
<td>AGMP_MessageView</td>
</tr>
<tr>
<td>View message detail</td>
<td></td>
</tr>
<tr>
<td>Edit and resend message</td>
<td>AGMP_MessageResend</td>
</tr>
<tr>
<td>View, add, edit, delete users</td>
<td>AGMP_Security</td>
</tr>
<tr>
<td>View, add, edit, delete roles</td>
<td></td>
</tr>
<tr>
<td>View, add, edit, delete alert e-mail addresses</td>
<td>AGMP_Email</td>
</tr>
</tbody>
</table>
## 4.0 Menu Options

<table>
<thead>
<tr>
<th>Menu option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production Monitor</td>
<td>Displays a dashboard showing information about the state of the production. With the appropriate security level, allows the user to start or stop the production and to modify certain production settings.</td>
</tr>
<tr>
<td>Error log</td>
<td>Displays a log of EIE errors and detail about a selected error.</td>
</tr>
<tr>
<td>Message Browser</td>
<td>Displays EIE messages and detail about a selected message. With the appropriate security level, allows the user to edit and resend a message.</td>
</tr>
<tr>
<td>Manage Users</td>
<td>Displays the users defined in the system. Allows the user to add, edit, and delete users and to assign roles to users.</td>
</tr>
<tr>
<td>Manage Roles</td>
<td>Displays the roles defined in the system. Allows the user to add, edit, and delete roles and to assign resources to roles.</td>
</tr>
<tr>
<td>Manage E-mail Addresses</td>
<td>Displays the e-mail addresses to which alerts will be sent. Allows the user to add, edit, and delete alert e-mail addresses.</td>
</tr>
</tbody>
</table>
5.0 Classes

5.1 Class List

<table>
<thead>
<tr>
<th>Class</th>
<th>Namespace</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGMP.Adapters.EmailOutbound</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Adapters.HLOGlobalInbound</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Adapters.HLOGlobalOutbound</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.AlertEmailAddress</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Alerts.AlertLog</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.DataModel.EmailModel</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.DataModel.ErrorModel</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.DataModel.MessageModel</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.DataModel.ProductionModel</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.DataModel.RoleModel</td>
<td>%SYS</td>
</tr>
<tr>
<td>AGMP.DataModel.UserModel</td>
<td>%SYS</td>
</tr>
<tr>
<td>AGMP.Install</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Operations.EmailAlerts</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Operations.RPMS</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Processes.AlertProcesses</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Services.EDR</td>
<td>ENSRPMS</td>
</tr>
<tr>
<td>AGMP.Services.RPMS</td>
<td>ENSRPMS</td>
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</table>

5.2 Classes with Description

<table>
<thead>
<tr>
<th>Routine</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGMP.Adapters.HLOGlobalInbound</td>
<td>EIE adapter reading HL7 messages from the RPMS HLB and HLA global nodes</td>
</tr>
<tr>
<td>AGMP.Adapters.HLOGlobalOutbound</td>
<td>EIE adapter writing HL7 messages to the RPMS HLB and HLA global nodes</td>
</tr>
<tr>
<td>AGMP.AlertEmailAddress</td>
<td>Persistent class containing the alert e-mail addresses</td>
</tr>
<tr>
<td>AGMP.Alerts.AlertLog</td>
<td>Persistent class containing the alerts that have been sent (via e-mail)</td>
</tr>
<tr>
<td>AGMP.DataModel.EmailModel</td>
<td>Data model of the AGMP.AlertEmailAddress class</td>
</tr>
<tr>
<td>AGMP.DataModel.ErrorModel</td>
<td>Data model of the Ens.Util.Log class</td>
</tr>
<tr>
<td>AGMP.DataModel.MessageModel</td>
<td>Data model of the Ens.MessageHeader class</td>
</tr>
<tr>
<td>Routine</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AGMP.DataModel.ProductionModel</td>
<td>Data model of various production data</td>
</tr>
<tr>
<td>AGMP.DataModel.RoleModel</td>
<td>Data model of the Security.Roles class</td>
</tr>
<tr>
<td>AGMP.DataModel.UserModel</td>
<td>Data model of the Security.Users class</td>
</tr>
<tr>
<td>AGMP.Install</td>
<td>Contains a method to set up EIE resources and default production settings</td>
</tr>
<tr>
<td>AGMP.Operations.RPMS</td>
<td>EIE operation sending HL7 messages to the RPMS system via the AGMP.Adapters.HLOGlobalOutbound adapter</td>
</tr>
<tr>
<td>AGMP.Processes.AlertProcess</td>
<td>EIE process logging the alert and determining whether to send an e-mail in response to the alert</td>
</tr>
<tr>
<td>AGMP.Services.EDR</td>
<td>EIE service receiving HL7 messages from the DENTRIX system</td>
</tr>
<tr>
<td>AGMP.Services.RPMS</td>
<td>EIE service receiving HL7 messages from the RPMS system</td>
</tr>
</tbody>
</table>

5.3 Method List

5.3.1 AGMP.Adapters.HLBGlobalInbound.OnTask

This method reads the HL7 information from the HLB and HLA global nodes. It is invoked from the associated Business Service.

- Input Parameter Description:
  - None
- Output Description:
  - Returns the HL7 message(s) to the business service that initiated the method

5.3.2 AGMP.Adapters.HLBGlobalOutbound.FileMessage

This method writes HL7 information into the HLB and HLA global nodes as messages are received. It is invoked from the associated Business Operation.

- Input Parameter Description:
  - None
- Output Description:
  - Returns the HL7 message(s) written to the HLB and HLA global nodes
5.3.3 **AGMP.DataModel.EmailModel.%OnOpenSource**

This method instantiates the corresponding AGMP.AlertEmailAddress object. It is invoked automatically when the associated data controller is assigned an ID value.

- **Input Parameter Description:**
  - `pID`: ID assigned to the data controller
  - `pConcurrency`: Optional flag used when the data source is persistent
  - `pSC`: Returns the status
- **Output Description:**
  - Returns the OREF of the instantiated e-mail object

5.3.4 **AGMP.DataModel.EmailModel.%OnSaveSource**

This method saves an instance of the data source object. It is invoked automatically when the associated form is saved.

- **Input Parameter Description:**
  - `pSource`: OREF of the data source object
- **Output Description:**
  - Returns the status of the save

5.3.5 **AGMP.DataModel.EmailModel.%OnNewSource**

This method creates a new instance of the AGMP.AlertEmailAddress object. It is invoked automatically when the associated data controller’s `createNewObject` method is invoked.

- **Input Parameter Description:**
  - `pSC`: Outputs the status of the method
- **Output Description:**
  - Returns the OREF of the new object

5.3.6 **AGMP.DataModel.EmailModel.%OnDeleteSource**

This method deletes the corresponding AGMP.AlertEmailAddress object. It is automatically invoked when the associated data controller’s `deleteId` method is invoked.

- **Input Parameter Description:**
  - `pID`: ID of the object to be deleted
• Output Description:
  − Returns the status of the delete

5.3.7 AGMP.DataModel.EmailModel.%OnLoadModel
This method loads the values from the AGMP.AlertEmailAddress object into the corresponding properties of the data model. It is invoked automatically when the associated data controller is assigned an ID value.

• Input Parameter Description:
  − pSource: OREF of the AGMP.AlertEmailAddress object

• Output Description:
  − Returns the status

5.3.8 AGMP.DataModel.EmailModel.%OnStoreModel
This method saves the values from the data model into the corresponding properties of the AGMP.AlertEmailAddress object. It is invoked automatically when the associated form is saved.

• Input Parameter Description:
  − pSource: OREF of the AGMP.AlertEmailAddress object

• Output Description:
  − Returns the status

5.3.9 AGMP.DataModel.ErrorModel.%OnOpenSource
This method instantiates the corresponding Ens.Util.Log object. It is invoked automatically when the associated data controller is assigned an ID value.

• Input Parameter Description:
  − pID: ID assigned to the data controller
  − pConcurrency: Optional flag used when the data source is persistent
  − pSC: Returns the status

• Output Description:
  − Returns the OREF of the loaded error log object
5.3.10 AGMP.DataModel.ErrorModel.%OnSaveSource
This method acts as a placeholder for any actions to be performed when the data source is saved. It does not save an error to the event log. It is invoked automatically when the associated form is saved.

• Input Parameter Description:
  – pSource: OREF of the data source object
• Output Description:
  – Returns the status of the save

5.3.11 AGMP.DataModel.ErrorModel.%OnNewSource
This method creates a new instance of the Ens.Util.Log object. It is invoked automatically when the associated data controller’s createNewObject method is invoked.

• Input Parameter Description:
  – pSC: Outputs the status of the method
• Output Description:
  – Returns the OREF of the new object

5.3.12 AGMP.DataModel.ErrorModel.%OnDeleteSource
This method acts as a placeholder for any actions to be performed when the data source is deleted. It does not delete the corresponding Ens.Util.Log object. It is automatically invoked when the associated data controller’s deleteId method is invoked.

• Input Parameter Description:
  – pID: ID of the object to be deleted
• Output Description:
  – Returns the status of the delete

5.3.13 AGMP.DataModel.ErrorModel.%OnLoadModel
This method loads the values from the Ens.Util.Log object into the corresponding properties of the data model. It is invoked automatically when the associated data controller is assigned an ID value.

• Input Parameter Description:
  – pSource: OREF of the Ens.Util.Log object
Output Description:
  - Returns the status

5.3.14 AGMP.DataModel.ErrorModel.%OnStoreModel
This method acts as a placeholder for any actions to be performed when the data model is saved. It does not save the values from the data model into an Ens.Util.Log object. It is invoked automatically when the associated form is saved.

- Input Parameter Description:
  - pSource: OREF of the Ens.Util.Log object
- Output Description:
  - Returns the status

5.3.15 AGMP.DataModel.MessageModel.%OnOpenSource
This method instantiates the corresponding Ens.MessageHeader object. It is invoked automatically when the associated data controller is assigned an ID value.

- Input Parameter Description:
  - pID: ID assigned to the data controller
  - pConcurrency: Optional flag used when the data source is persistent
  - pSC: Returns the status
- Output Description:
  - Returns the OREF of the loaded message header object

5.3.16 AGMP.DataModel.MessageModel.%OnSaveSource
This method acts as a placeholder for any actions to be performed when the data source is saved. It does not save a message to the message log. It is invoked automatically when the associated form is saved.

- Input Parameter Description:
  - pSource: OREF of the data source object
- Output Description:
  - Returns the status of the save
5.3.17 AGMP.DataModel.MessageModel.%OnNewSource
This method creates a new instance of the Ens.MessageHeader object. It is invoked
automatically when the associated data controller’s createNewObject method is
invoked.

- Input Parameter Description:
  - pSC: Outputs the status of the method
- Output Description:
  - Returns the OREF of the new object

5.3.18 AGMP.DataModel.MessageModel.%OnDeleteSource
This method acts as a placeholder for any actions to be performed when the data
source is deleted. It does not delete the corresponding Ens.MessageHeader object. It
is automatically invoked when the associated data controller’s deleteId method is
invoked.

- Input Parameter Description:
  - pID: ID of the object to be deleted
- Output Description:
  - Returns the status of the delete

5.3.19 AGMP.DataModel.MessageModel.%OnLoadModel
This method loads the values from the Ens.MessageHeader object into the
corresponding properties of the data model. It is invoked automatically when the
associated data controller is assigned an ID value.

- Input Parameter Description:
  - pSource: OREF of the Ens.MessageHeader object
- Output Description:
  - Returns the status

5.3.20 AGMP.DataModel.MessageModel.%OnStoreModel
This method acts as a placeholder for any actions to be performed when the data
model is saved. It does not save the values from the data model into an
Ens.MessageHeader object. It is invoked automatically when the associated form is
saved.

- Input Parameter Description:
- pSource: OREF of the Ens.MessageHeader object

• Output Description:
  - Returns the status

5.3.21 AGMP.DataModel.ProductionModel.%OnLoadModel
This method loads various production values into the corresponding properties of the data model. The production state is obtained and translated to a value that will be correctly displayed by the traffic light in the production dashboard. The message counts are obtained from SQL queries for display in the dashboard’s speedometers. It is invoked automatically when the associated data controller is assigned an ID value.

• Input Parameter Description:
• Output Description:
  - Returns the status

5.3.22 AGMP.DataModel.ProductionModel.GetMessageCount
This method determines the number of messages sent by RPMS or EDR today.

• Input Parameter Description:
  - Service: “RPMS” or “EDR”, corresponding to which system’s message count is to be returned
• Output Description:
  - Returns the number of messages sent from the specified system today

5.3.23 AGMP.DataModel.RoleModel.%OnOpenSource
This method instantiates the corresponding Security.Roles object. It is invoked automatically when the associated data controller is assigned an ID value.

• Input Parameter Description:
  - pID: ID assigned to the data controller
  - pConcurrency: Optional flag used when the data source is persistent
  - pSC: Returns the status
• Output Description:
  - Returns the OREF of the instantiated roles object
5.3.24  AGMP.DataModel.RoleModel.%OnSaveSource
This method saves an instance of the data source object. It is invoked automatically when the associated form is saved.

- Input Parameter Description:
  - pSource: OREF of the data source object
- Output Description:
  - Returns the status of the save

5.3.25  AGMP.DataModel.RoleModel.%OnNewSource
This method creates a new instance of the Security.Roles object. It is invoked automatically when the associated data controller’s createNewObject method is invoked.

- Input Parameter Description:
  - pSC: Outputs the status of the method
- Output Description:
  - Returns the OREF of the new object

5.3.26  AGMP.DataModel.RoleModel.%OnDeleteSource
This method deletes the corresponding Security.Roles object. It is automatically invoked when the associated data controller’s deleteId method is invoked.

- Input Parameter Description:
  - pID: ID of the object to be deleted.
- Output Description:
  - Returns the status of the delete.

5.3.27  AGMP.DataModel.RoleModel.%OnLoadModel
This method loads the values from the Security.Roles object into the corresponding properties of the data model. It is invoked automatically when the associated data controller is assigned an ID value.

- Input Parameter Description:
  - pSource: OREF of the Security.Roles object
- Output Description:
  - Returns the status
5.3.28  AGMP.DataModel.RoleModel.%OnStoreModel
This method saves the values from the data model into the corresponding properties
of the Security.Roles object. It is invoked automatically when the associated form is
saved.

- Input Parameter Description:
  - pSource: OREF of the Security.Roles object
- Output Description:
  - Returns the status

5.3.29  AGMP.DataModel.UserModel.%OnOpenSource
This method instantiates the corresponding Security.Users object. It is invoked
automatically when the associated data controller is assigned an ID value.

- Input Parameter Description:
  - pID: ID assigned to the data controller
  - pConcurrency: Optional flag used when the data source is persistent
  - pSC: Returns the status
- Output Description:
  - Returns the OREF of the instantiated users object

5.3.30  AGMP.DataModel.UserModel.%OnSaveSource
This method saves an instance of the data source object. It is invoked automatically
when the associated form is saved.

- Input Parameter Description:
  - pSource: OREF of the data source object
- Output Description:
  - Returns the status of the save

5.3.31  AGMP.DataModel.UserModel.%OnNewSource
This method creates a new instance of the Security.Users object. It is invoked
automatically when the associated data controller’s createNewObject method is
invoked.

- Input Parameter Description:
  - pSC: Outputs the status of the method
• Output Description:
  – Returns the OREF of the new object

5.3.32 AGMP.DataModel.UserModel.%OnDeleteSource
This method deletes the corresponding Security.Users object. It is automatically invoked when the associated data controller’s deleteId method is invoked.

• Input Parameter Description:
  – pID: ID of the object to be deleted
• Output Description:
  – Returns the status of the delete

5.3.33 AGMP.DataModel.UserModel.%OnLoadModel
This method loads the values from the Security.Users object into the corresponding properties of the data model. It is invoked automatically when the associated data controller is assigned an ID value.

• Input Parameter Description:
• Output Description:
  – Returns the status

5.3.34 AGMP.DataModel.UserModel.%OnStoreModel
This method saves the values from the data model into the corresponding properties of the Security.Users object. It is invoked automatically when the associated form is saved.

• Input Parameter Description:
• Output Description:
  – Returns the status

5.3.35 AGMP.Install.Installation
This method performs one-time setup of resources and adapter settings. It is used as part of the installation process.

• Input Parameter Description:
5.3.36 AGMP.Services.RPMS.OnProcessInput

This method accepts an HL7, sets some HL7 object information, insures it is a valid HL7 message and passes it along to the RPMS routing engine.

- Input Parameter Description:
  - Inboundmessage: HL7 message object

- Output Description:
  - Returns the HL7 message(s) to a business process.
6.0 Files and Tables

6.1 File List
There are no files in this package.

6.2 File Access
There is no file access in this package.

6.3 Cross References
There are no cross references in this package.

6.4 Table File
There are no table files in this package.

6.5 Callable Routines
There are no callable routines in this package.

6.6 External Relations
There are no external relations in this package.

6.7 Published Entry Points

6.7.1 ##class(AGMP.Install).Installation()
This utility is used to set up resources and adapter settings during the installation process.

- Input Parameter: Description
  - None
- Output Description:
  - None
6.7.2 /csp/ensrmps/AGMP.Home.cls

This is the main entry point to the EIE Management Portal. Once authenticated, the user will be able to access those pages to which he has access by selecting the option from the drop-down menu.

6.8 Exported Options

There are no exported options in this package.
7.0  **Internal Relations**

There are no documented internal relations.
8.0 Archiving and Purging

There is no archiving or purging in this package.
9.0 Productions

This section describes how the IHS production processes messages between RPMS and the MPI.

9.1 IHS Production

The IHS production within the AGMP package transports HL7 messages between the MPI and the RPMS system.

HL7 messages are received from the RPMS system via the HLOGlobalInbound adapter. It loops through the HLB ‘QUEUE’ node, determining which messages are to be sent to the receiving facility by pulling information from the HLB and HLA global nodes. An HL7 message is formed and sent to the calling service. The service receives the HL7 message and determines whether the message is a valid message (using the AGMP.RPMS.HL7 schema). If the message is valid it is sent to the HL7 routing engine where the message is routed using the RPMS routing rule. ACK system reply messages from the MPI are stored back into the RPMS HLB and HLA global nodes.

Messages sent from the MPI to RPMS are sent in real time and the EIE will ACK on the newly received message as it receives the messages. If the HL7 message is valid (using the AGMP.EDR.HL7 schema) the EIE places the messages into the HLB and HLA global nodes via the HLOGlobalOutbound adapter. Any ACK messages generated will be processed by the EIE, but currently are not forwarded.
10.0 **Documentation Resources**

This section describes a few methods for viewing EIE system technical documentation.

10.1 **Class Reference**

Class documentation is generated by the EIE for all classes. The reference gives general information about a class, in addition to listing and describing all of the class’s properties, parameters, and methods.

To view the class documentation, open the Ensemble Documentation and select *Class Reference* from the menu bar. Select the ENSRPMS or %SYS namespace from the drop-down menu at the top left, then select the class from the left frame.

10.2 **Production Configuration**

Specific settings for the production may be viewed via the **Ensemble Management Portal**.

In the **Ensemble Management Portal**, choose the AGMPIxxx, and then click **more** to navigate to the Ensemble Productions page. In the row for AGMP.PatientRegistration, click **Configure** to view the production configuration.

Clicking on a business host in the middle frame will display that host’s settings in the bottom frame.
11.0 SAC Requirements/Exemptions

There are no SAC requirements or exemptions for this package.
12.0 Templates, Forms, and Protocols

12.1 Print Templates
There are no print templates in this package.

12.2 Sort Templates
There are no sort templates in this package.

12.3 Input Templates
There are no input templates in this package.

12.4 List Templates
There are no list templates in this package.

12.5 Forms
There are no forms in this package.

12.6 Protocols
There are no protocols in this package.
13.0 Glossary

EIE
Ensemble Integration Engine

IHS
Indian Health Service

RPMS
Resource and Patient Management System. A series of integrated software components that includes clinical, administrative, and financial functions.
Contact Information

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

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