



RESOURCE AND PATIENT MANAGEMENT SYSTEM

IHS Emergency Department Dashboard

(BEDD)

Installation Guide

Version 1.0
May 2013

Office of Information Technology
Division of Information Resource Management
Albuquerque, New Mexico

Table of Contents

| | | |
|------------|--|-----------|
| 1.0 | Release Notes | 1 |
| 2.0 | Installation Notes..... | 2 |
| 2.1 | Contents of Distribution | 2 |
| 2.2 | Required Resources | 2 |
| 3.0 | BEDD XML/Ensemble Installation | 3 |
| 3.1 | Import the BEDD XML file..... | 3 |
| 3.1.1 | Open Ensemble Studio..... | 3 |
| 3.1.2 | Import the bedd0100.xml File | 4 |
| 4.0 | Configuring the Cache Server Page Application | 7 |
| 4.1 | Enable System Authentication Options..... | 7 |
| 4.2 | Create New CSP Application..... | 8 |
| 4.3 | Update Ensemble's UnknownUser | 9 |
| 5.0 | CSP Gateway Installation..... | 13 |
| 5.1 | Install Cache Shell..... | 13 |
| 5.2 | Configure IIS..... | 17 |
| 5.3 | Configure CSP Gateway..... | 20 |
| 6.0 | BEDD KIDS Installation | 24 |
| 6.1 | Pre-Installation..... | 24 |
| 6.2 | BEDD Installation..... | 24 |
| 6.3 | Sample BEDD Installation | 25 |
| 7.0 | Add User Security Keys | 28 |
| 8.0 | Application Access Setup..... | 30 |
| 8.1 | Stand Alone Setup..... | 30 |
| 8.2 | EHR Setup..... | 31 |
| 9.0 | Configuration | 36 |
| | Acronym List | 37 |
| | Contact Information | 38 |

Preface

The purpose of this manual is to provide the user with the information required to install the IHS Emergency Department Dashboard (EDD).

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1.0 Release Notes

The EDD is a tool that electronically enables facilities to run and manage their emergency and or urgent care clinics. It is dependent on the Resource and Patient Management System (RPMS) Emergency Room System (ERS) in the AMER namespace. EDD was built on the ERS foundation to enhance patient flow and provider communication.

EDD can be set up to operate as a standalone icon on the staff computer or can be accessed from within the RPMS Electronic Health Record (EHR) application.

EDD gets its data and updates from one of four ways: ERS, Dashboard Edit, EHR data, or a combination of all three.

2.0 Installation Notes

Prefix: BEDD

Current Version: 1.0

Note: Read entire notes file prior to attempting any installation.

- All patches to v1.0 will be cumulative
- Make a copy of this distribution for offline storage.
- Print all notes and readme files.
- Capture terminal output during the Kernel Installation and Distribution System (KIDS) installation using an auxiliary port printer attached to the terminal at which the user is performing the software installation or using a screen capture. This capture combined with the KIDS entry in the INSTALL file will ensure a printed audit trail should any problems arise.

2.1 Contents of Distribution

| File | Description |
|--------------|--------------------------------------|
| bedd0100.xml | Ensemble import file |
| bedd0100.k | KIDS file |
| bedd010i.pdf | Installation Guide and Release notes |
| bedd010u.pdf | User Manual |
| bedd010t.pdf | Technical Manual |
| Bedd010s.pdf | Security Manual |

2.2 Required Resources

| Module/Software | Minimum Version |
|---------------------------|-----------------------|
| InterSystems Ensemble | v2010.2.3 or later |
| VA FileMan (DI) | v22.0 Patch 1003 |
| VA Kernel (XU) | v8.0 Patch 1015 |
| PCC Data Entry (APCD) | v2.0 through Patch 10 |
| Patient Registration (AG) | v7.1 Patch 10 |
| ER Visit System (AMER) | V3.0 Patch 4 |

3.0 BEDD XML/Ensemble Installation

This section begins the BEDD installation process. It describes the process of importing the BEDD application into Ensemble Studio from an XML file.

3.1 Import the BEDD XML file

3.1.1 Open Ensemble Studio

1. Click the Ensemble cube in the system tray (at the right end of the Windows Taskbar) to display the Ensemble Studio menu (Figure 3-1).



Figure 3-1: Ensemble Studio menu

2. Select **Studio**. A login ID and password may be required. The **Ensemble Studio** window (Figure 3-2) displays.

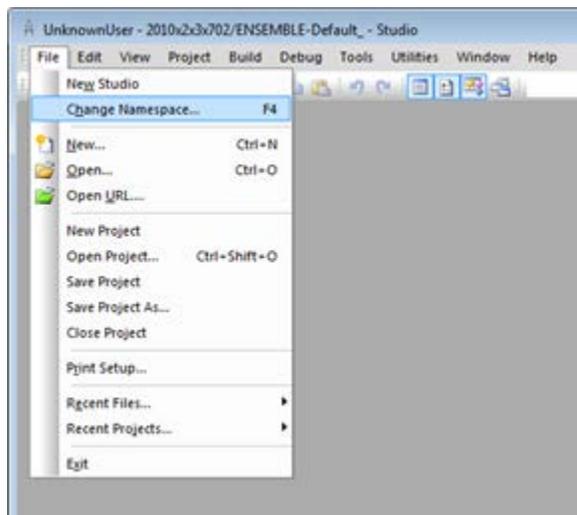


Figure 3-2: Ensemble Studio window, Change Namespace option on File menu

3. On the **File** menu, select **Change Namespace** to open the **Cache Connection Manager** dialog (Figure 3-3).

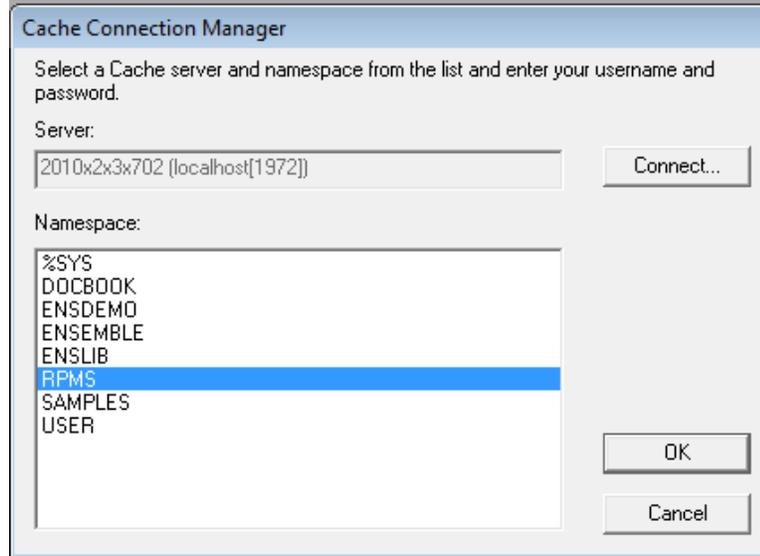


Figure 3-3: Cache Connection Manager dialog

4. Select **RPMS** from the **Namespace** list and click **OK**.

3.1.2 Import the bedd0100.xml File

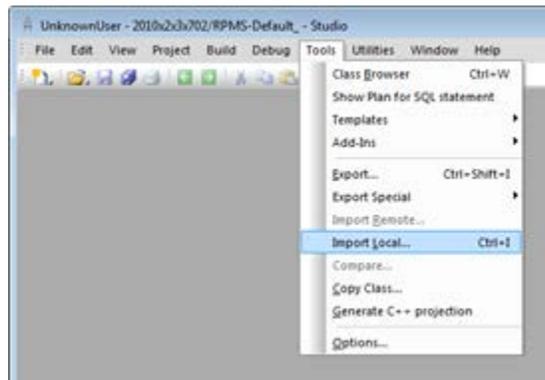
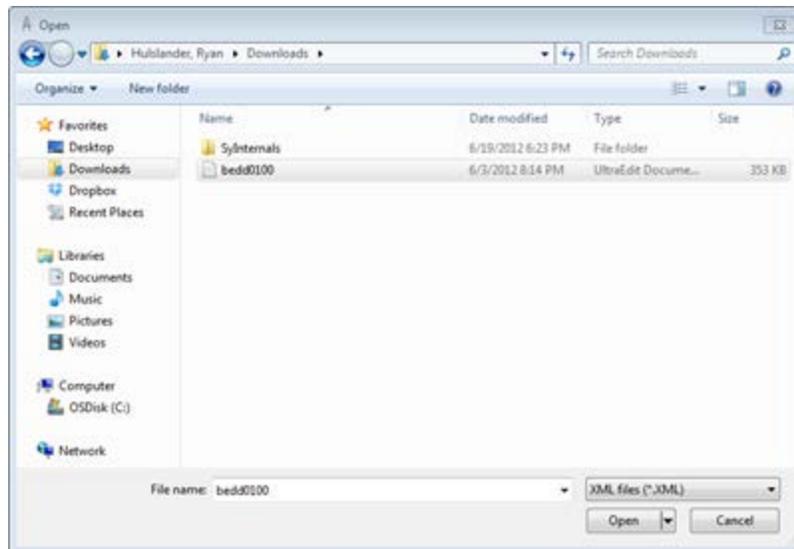


Figure 3-4: Ensemble Studio window, Import Local option on Tools menu

1. On the **Tools** menu, select **Import Local** (Figure 3-4) to display the **Open** file dialog (Figure 3-5).

Figure 3-5: **Open** file dialog

2. Locate the file **bedd0100.xml**.
3. Click **Open** to display the **Import** dialog (Figure 3-6).

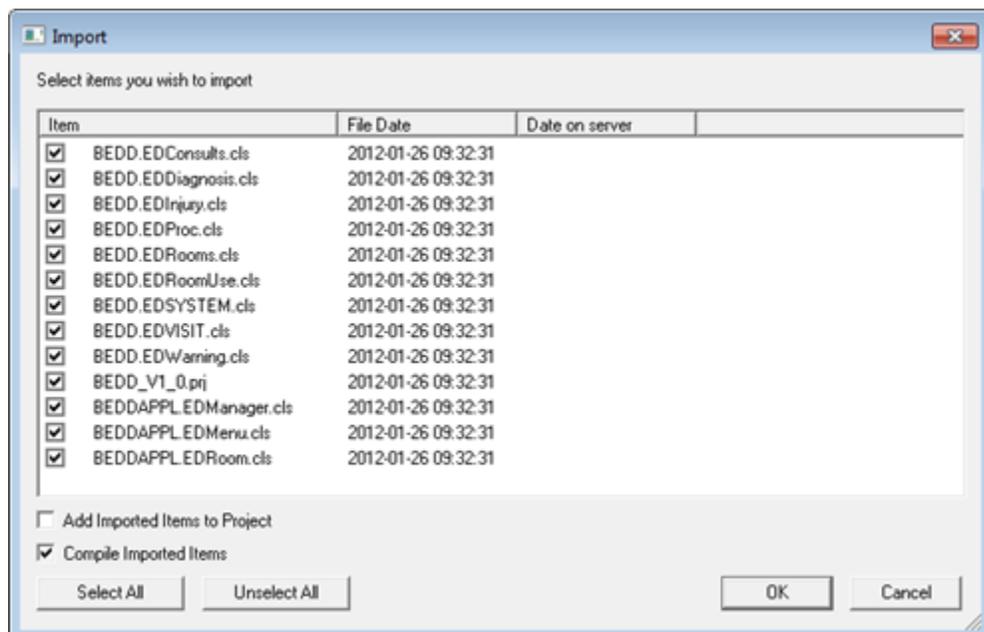


Figure 3-6: Import dialog

4. Select all items displayed in the **Import** dialog.
5. Select the **Compile Imported Items** option.

- Click **OK**. Once the package files are compiled, the “Compilation finished successfully in...” message appears in the **Output** pane (Figure 3-7).

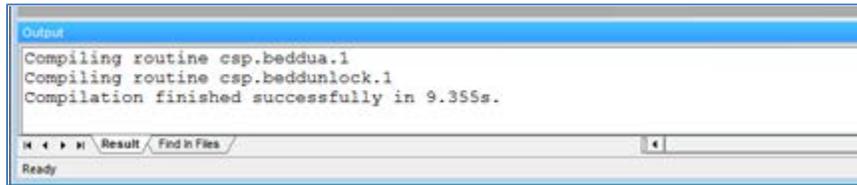


Figure 3-7: **Output** pane

- If a warning dialog similar to Figure 3-8 displays after the XML file is imported, click **OK** to continue.



Figure 3-8: **Studio** warning dialog

4.0 Configuring the Cache Server Page Application

Note: Use a standalone IIS or Apache web server with SSL configuration and not the web server provided by InterSystems. The instructions here are for testing purposes only.

Configure the security settings for the EDD Cache Server Page (CSP) application that was automatically created by the import and compile process. Failure to complete this step, will cause the EHR to be unable to display the EDD main dashboard page.

4.1 Enable System Authentication Options

1. Log on to the Ensemble System Management Portal.
2. Select **Security Management** under **System Administration** in the left column to display the **Security Management** page.
3. Select **System Security Settings** under **Security Definitions** in the left column to display the **Security Setting Options** page.
4. Select **Authentication Options** in the left column to display the **Authentication Options** page (Figure 4-1).

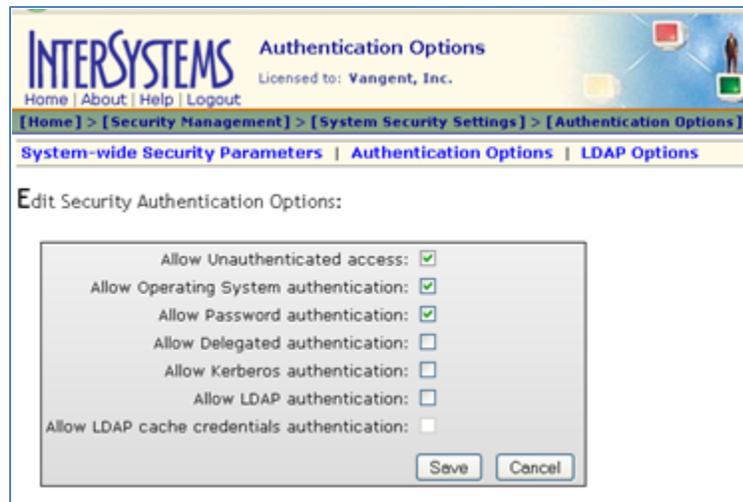


Figure 4-1: **Authentication Options** page

5. Ensure that **Allow Unauthenticated access** is selected.
6. Click **Save**. The change will take effect immediately.

4.2 Create New CSP Application

From the main Ensemble Management Portal page:

1. Select **Security Management** under **System Administration** in the left column to display the **Security Management** page.
2. Select **CSP Applications** in the right column under **Application Definitions** to display the **CSP Applications** page (Figure 4-2):

The following is a list of CSP applications that are currently defined: Last update: 2011-01-07 17:07:45.671 Auto

| Name | Enabled | Type | Resource | Authentication Methods | | |
|---------------------|---------|------|---------------|--------------------------|------|--------|
| /csp/c32-quick-test | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/c32gold1 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/c32gold5 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/c32silv5 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/c32silvu | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/c32test5 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/c32tst | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/edrsilv5 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/emsg | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/ensc32 | Yes | CSP | %Admin_Manage | Password,Unauthenticated | Edit | Delete |
| /csp/ensdemo | Yes | CSP | %Admin_Manage | Password,Unauthenticated | Edit | Delete |
| /csp/ensemble | Yes | CSP | %Admin_Manage | Password,Unauthenticated | Edit | Delete |
| /csp/gold1 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |
| /csp/gold5 | Yes | CSP | %Admin_Manage | Password,Unauthenticated | Edit | Delete |
| /csp/samples | Yes | CSP | | Unauthenticated | Edit | Delete |
| /csp/silv5 | Yes | CSP | %Admin_Manage | Unauthenticated | Edit | Delete |

Figure 4-2: CSP Applications page

3. Click **Create New CSP Application** to display the **Edit CSP Application** page (Figure 4-3).

Figure 4-3: Edit CSP Application page, General tab

4. Type **/csp/bedd** in the **CSP Application Name** field.
5. Type **ED Dashboard** in the **Description** field.
6. Select **Unauthenticated** at **Allowed Authenticated Methods**.
7. Select the site's RPMS namespace from the **Namespace** list.
8. At **CSP Files Physical path**, click **Browse** and locate the directory, setting the path (it should be in the format <cacheinstance>/csp/<RPMSinstance>).
9. Type **BEDDLogin.csp** (this is case sensitive) in the **Login Page** field.

4.3 Update Ensemble's UnknownUser

From the main Ensemble Management Portal page:

1. Select **Security Management** under **System Administration** in the left column to display the **Security Management** page.
2. Select **Users** in the left column to display the **Users** page (Figure 4-4).



Figure 4-4: Users page

3. Locate the user **UnknownUser** in the table.
4. Click the **Edit** link in the **UnknownUser** row to display the **Edit User** page, **General** tab (Figure 4-5).

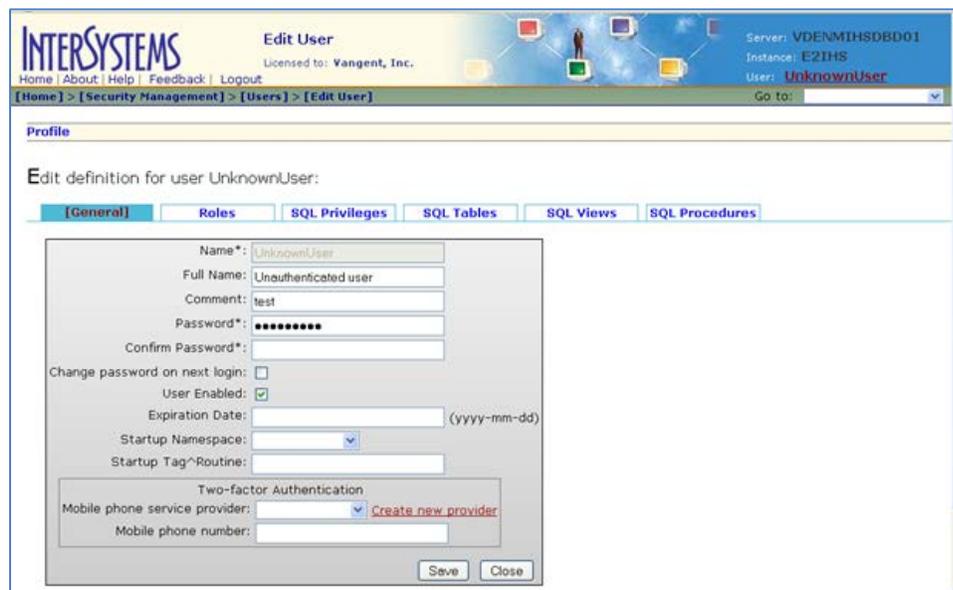


Figure 4-5: Edit User page, General tab

5. Select the **Roles** tab to display the **Edit User** page, **Roles** tab (Figure 4-6).

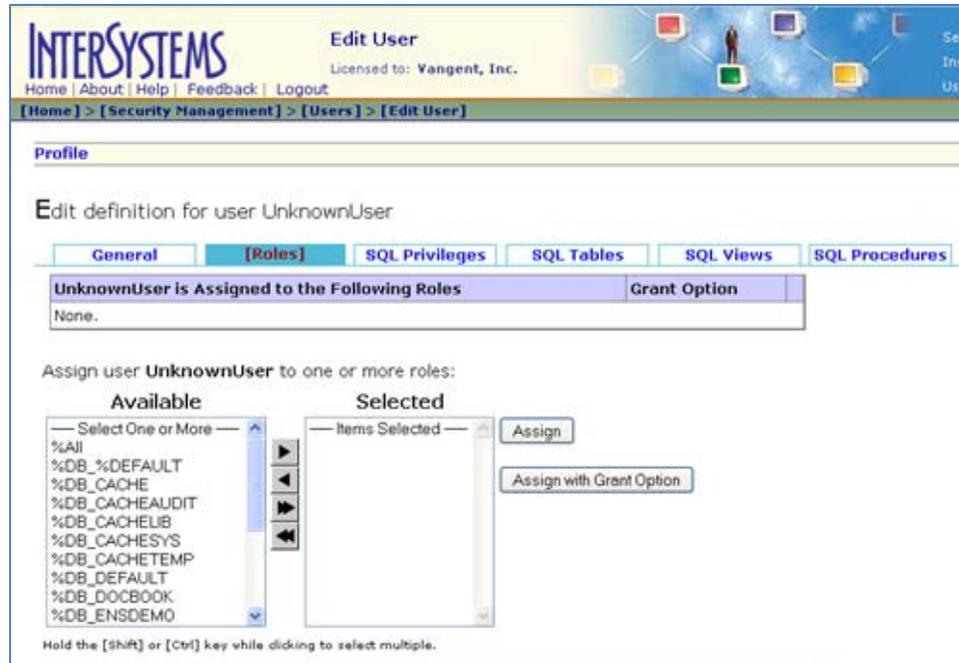


Figure 4-6: **Edit User** page, **Roles** tab

6. Do one of the following:

- If the list of roles at the top of the tab includes **%All**, no further action in this section is required.
- If the list of roles at the top of the tab does not include **%All**, select **%All** in the **Available** list and click the single right-pointing arrow located between the **Available** and **Selected** lists. With **%All** in the **Selected** column, click **Assign** and **%All** appears in the list of roles at the top of the tab (Figure 4-7).



Figure 4-7: Edit User page, Roles tab

5.0 CSP Gateway Installation

The CSP Gateway provides the communications layer between the hosting Web server and Ensemble when you call a CSP. The purpose of using the CSP Gateway is to offload the access to the EDD application to a dedicated web server, as well as use Secure Socket Layer (SSL) communication to encrypt the data between the user and the server.

Note: The instructions in this section assume the site is running Microsoft Internet Information Server (version 7 or higher) with a valid installed SSL certificate. Installation of IIS and SSL certificates are outside the scope of this document.

5.1 Install Cache Shell

1. Launch the Ensemble executable appropriate for your version of Windows. The **Ensemble – Installation: License Agreement** dialog (Figure 5-1) displays.

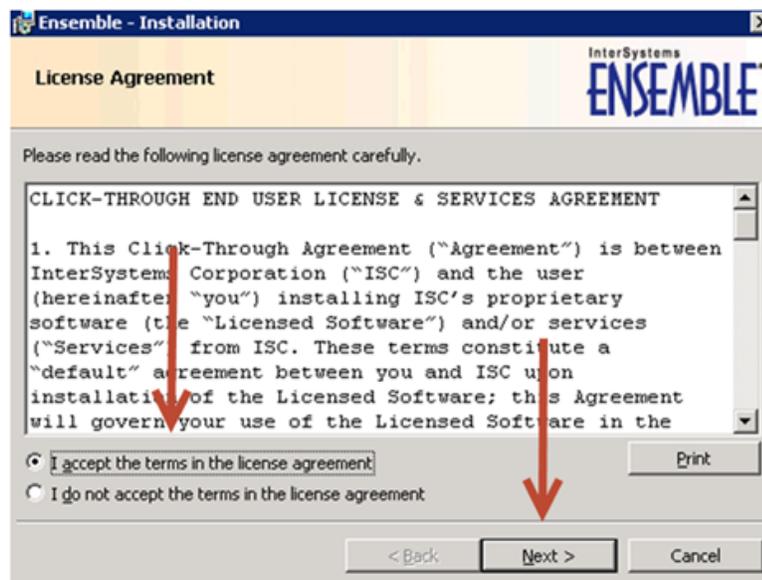


Figure 5-1: **Ensemble – Installation: License Agreement** dialog

2. Select **I accept the terms in the license agreement**.
3. Click **Next**. The **Ensemble – Installation: Ensemble Instance Name** dialog (Figure 5-2) displays.

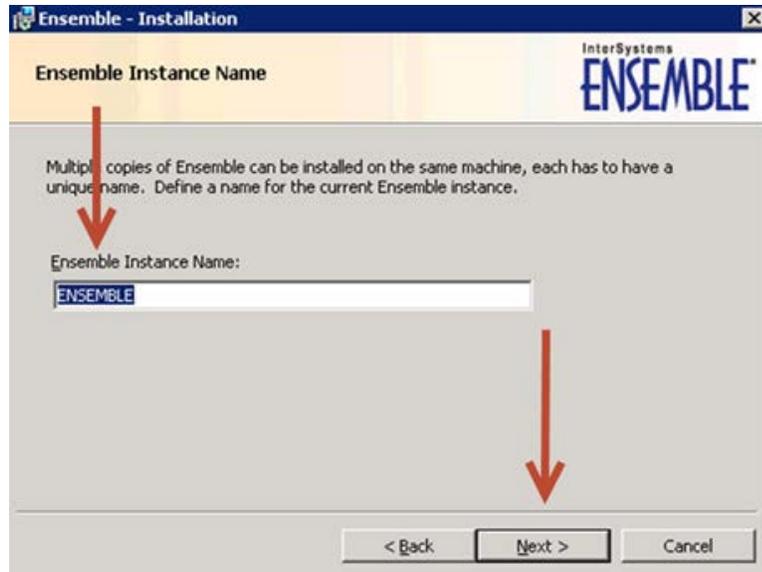


Figure 5-2: **Ensemble – Installation: Ensemble Instance Name** dialog

4. Type a unique name for this physical machine in the **Ensemble Instance Name** field
5. Click **Next**. The **Ensemble – Installation: Destination Folder** dialog (Figure 5-3) displays.

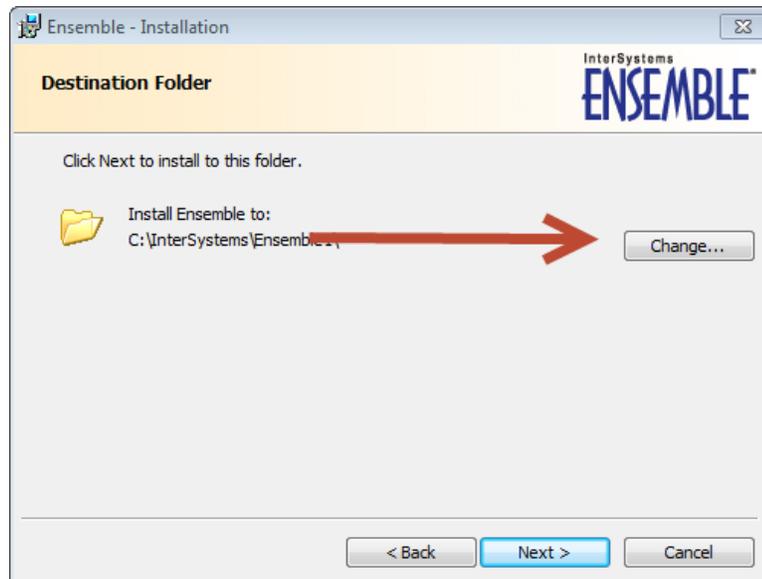


Figure 5-3: **Ensemble – Installation: Destination Folder** dialog

6. To select a destination folder other than that displayed below **Install Ensemble to:**
 - a. Click **Change**. The **Ensemble – Installation: Change Current Destination Folder** dialog (Figure 5-4) displays.

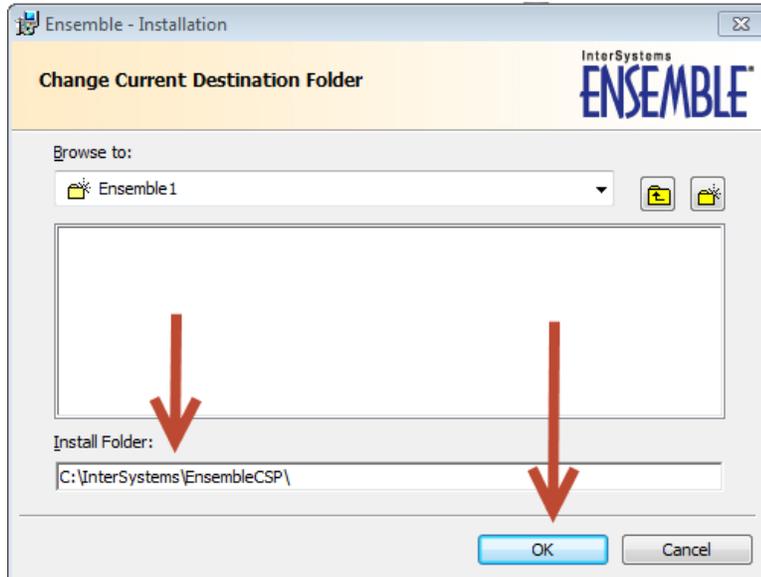


Figure 5-4: **Ensemble – Installation: Change Current Destination Folder** dialog

- b. Type the path **C:\InterSystems\EnsembleCSP** into the **Install Folder** field.
- c. Click **OK** to return to the **Ensemble – Installation: Destination Folder** dialog (Figure 5-3).

- Click **Next**. The **Ensemble – Installation: Setup Type** dialog (Figure 5-5) displays.

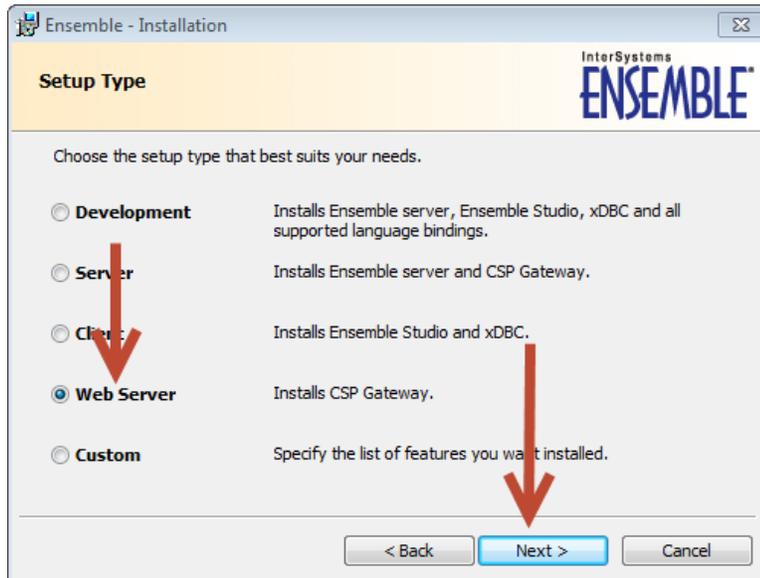


Figure 5-5: **Ensemble – Installation: Setup Type** dialog

- Select **Web Server**.
- Click **Next**. The **Ensemble – Installation: Ready to Install the Program** dialog (Figure 5-6) displays.

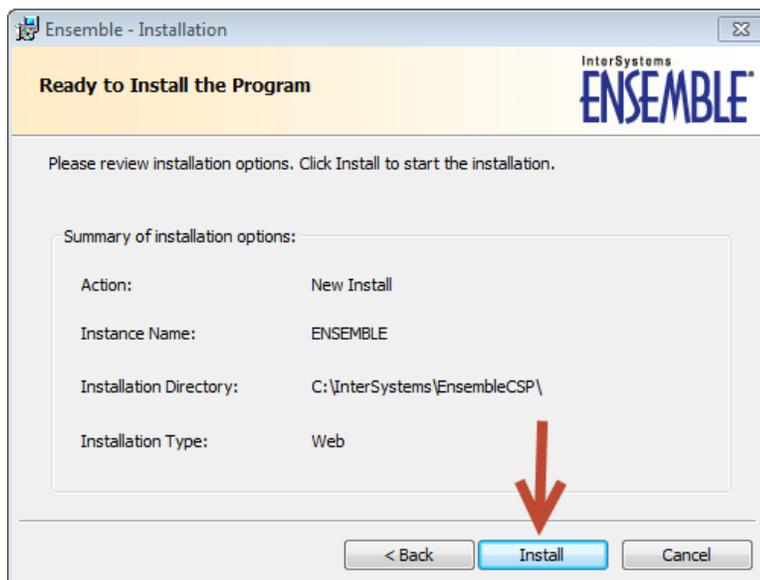


Figure 5-6: **Ensemble – Installation: Ready to Install the Program** dialog

- Review the selected options; click **Back** to make changes.

11. Click **Install**. If IIS is running, the **Question** dialog (Figure 5-7) appears:

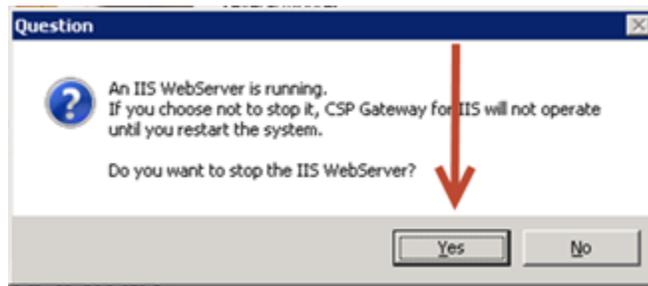


Figure 5-7: **Question** dialog

- Click **Yes** to stop IIS and continue the installation process.

The **Ensemble – Installation: Ensemble Installation Completed** dialog (Figure 5-8) displays.

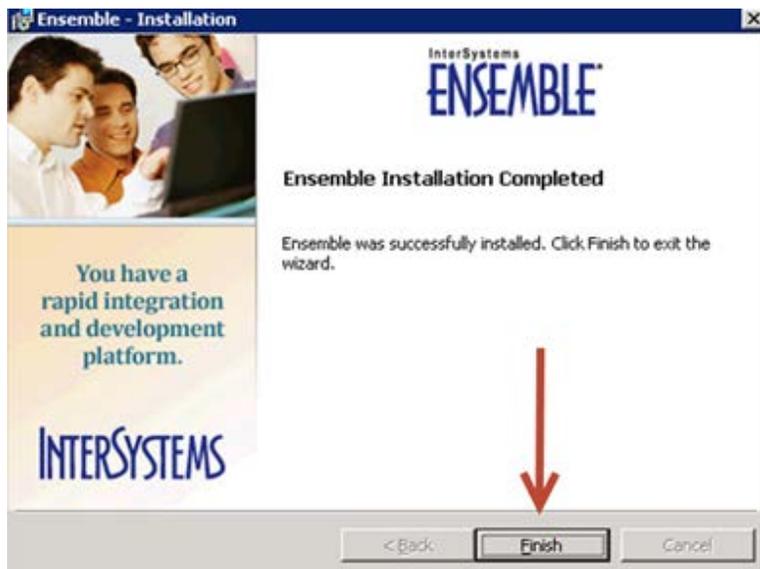


Figure 5-8: **Ensemble – Installation: Ensemble Installation Completed** dialog

12. Click **Finish**.

5.2 Configure IIS

1. Remote connect to the web server that hosts the CSP gateway.
2. Open **Administrative Tools** and select **Internet Information Services (IIS) Manager** (Figure 5-9).

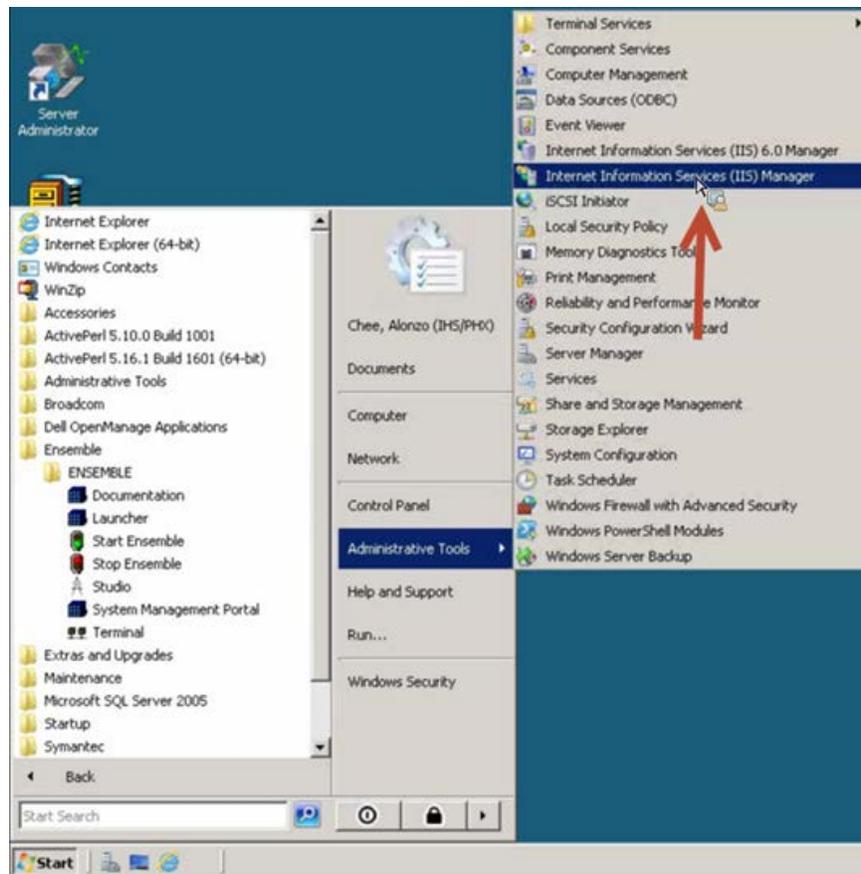


Figure 5-9: Administrative Tools: Internet Information Services (IIS) Manager

The IIS Manager page (Figure 5-10) displays.

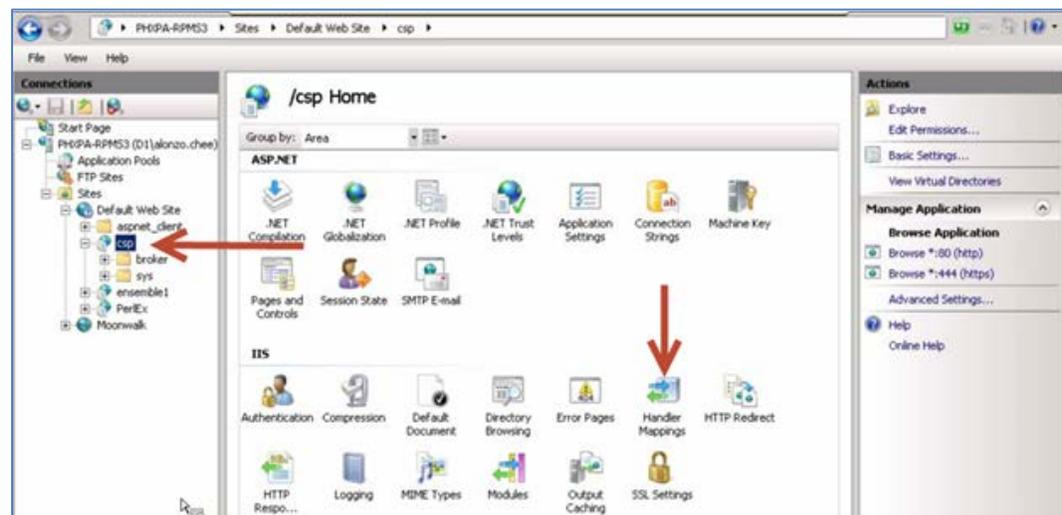


Figure 5-10: IIS Manager page

3. In the **Connections** pane, expand **Default Web Site** then select **csp**.

- In the /csp **Home** pane, click **Handler Mappings** to display the **Handler Mappings** pane (Figure 5-11).

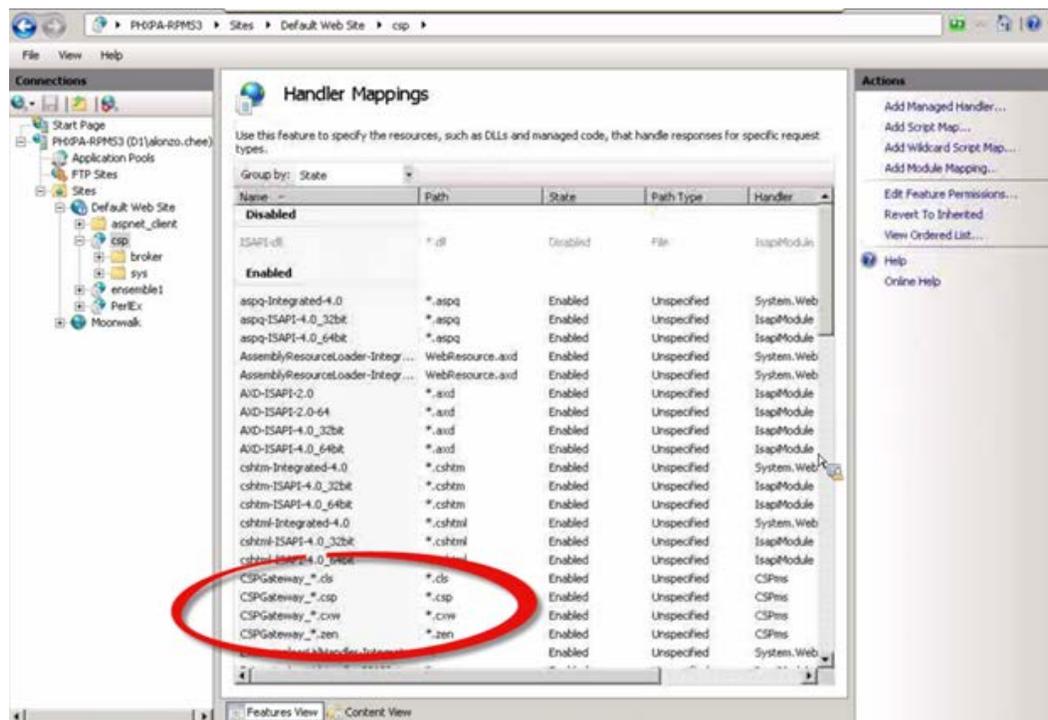


Figure 5-11: IIS Manager page: **Handler Mappings** pane

- Verify that the four **CSPGateway_*** mappings are present (**Path** values: ***.cls**, ***.csp**, ***.csw**, and ***.zen**), and that each one's **State** column value equals **Enabled**.
- To configure IIS handle CSP applications like EDD via IIS, click **Add Module Mapping** in the **Actions** pane to display the **Add Module Mapping** dialog (Figure 5-12).

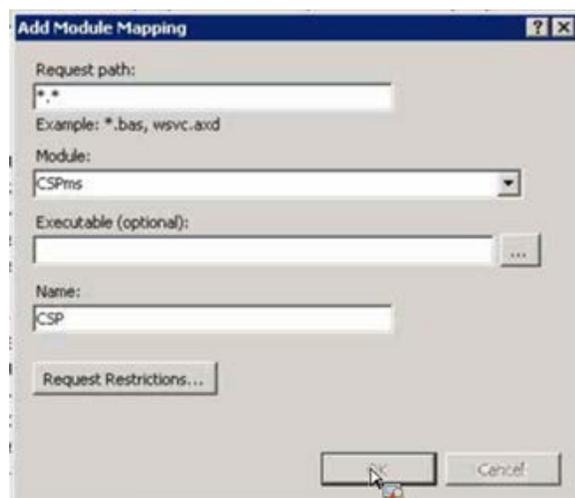


Figure 5-12: **Add Module Mapping** dialog

7. Type *.* in the **Request path** field.
8. Select **CSPms** from the **Module** drop down list.
9. Type **CSP** in the **Name** field
10. Click **OK**.

5.3 Configure CSP Gateway

1. While connected to the web server that hosts the CSP gateway:
 - a. Open a web browser.
 - b. Type the following URL into the browser address field:
<http://localhost/csp/bin/Systems/Module.cwx>

The **CSP Web Gateway Management** page (Figure 5-13) displays.

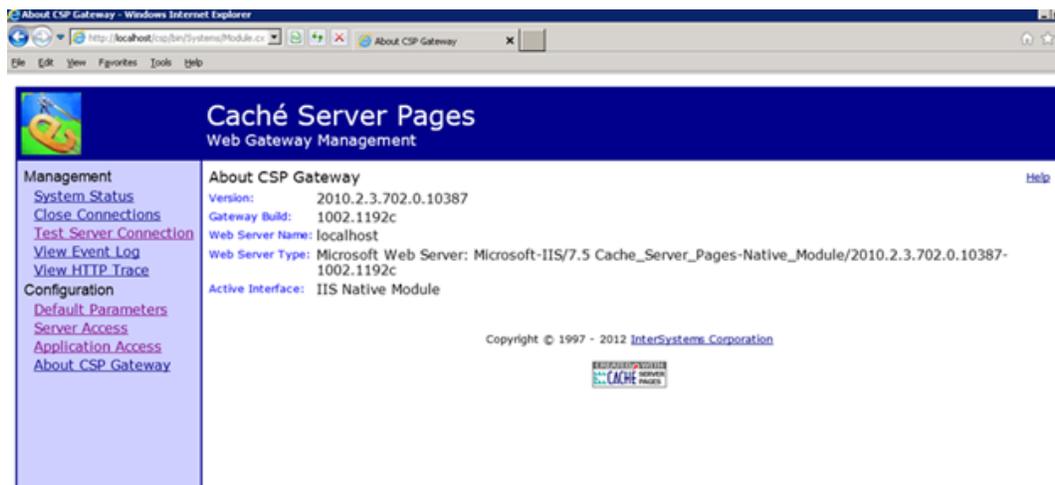


Figure 5-13: **CSP Web Gateway Management** page

- Click **Server Access** in the left pane to display the **Server Access** pane (Figure 5-14).



Figure 5-14: CSP Web Gateway Management page: **Server Access** pane

- Click **Add Server**. The page contents change to accept values for the new server (Figure 5-15).

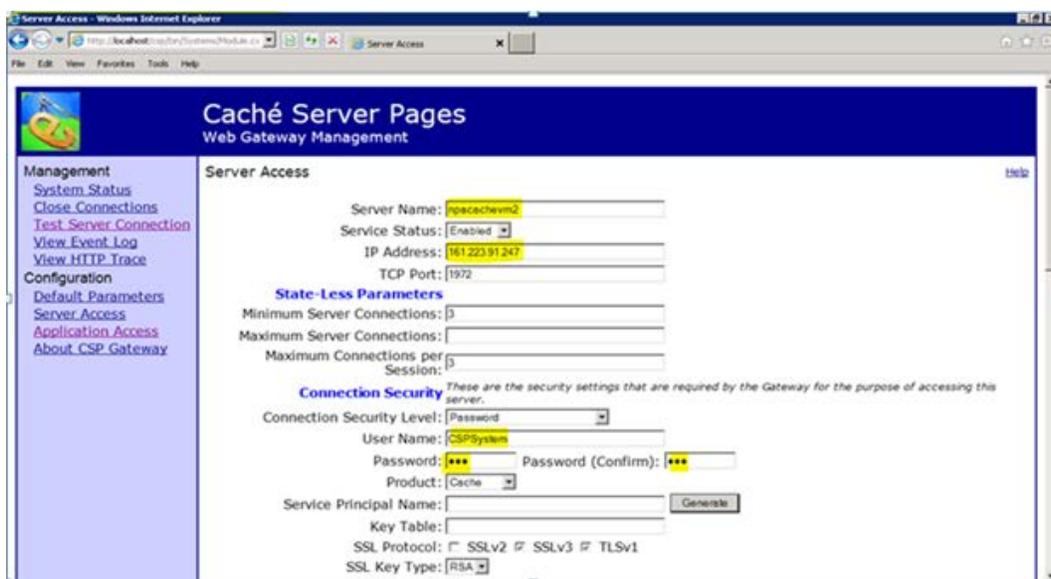


Figure 5-15: CSP Web Gateway Management page: **Server Access** pane

- Insert the appropriate site information into the following fields:
 - Server Name**
 - IP Address**
 - User Name**
 - Password and Password (Confirm)**

5. Scroll to the bottom of the pane and click **Save Configuration**.
6. Select **Application Access** from the left pane. The **Application Access** pane (Figure 5-16 displays).

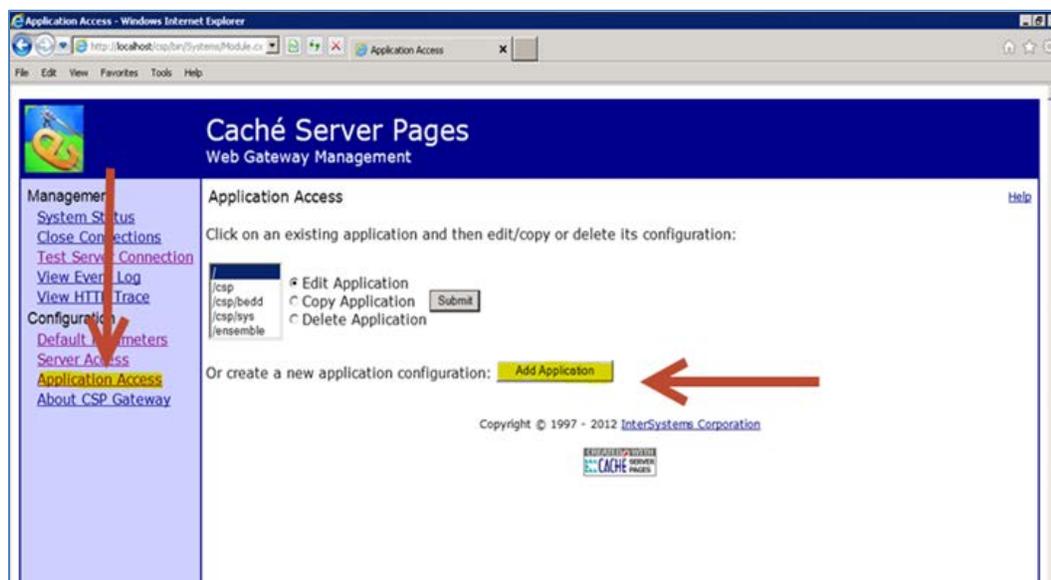


Figure 5-16: CSP Web Gateway Management page: Application Access pane

7. Click **Add Application**. The page contents change to accept values for the new application (Figure 5-17).

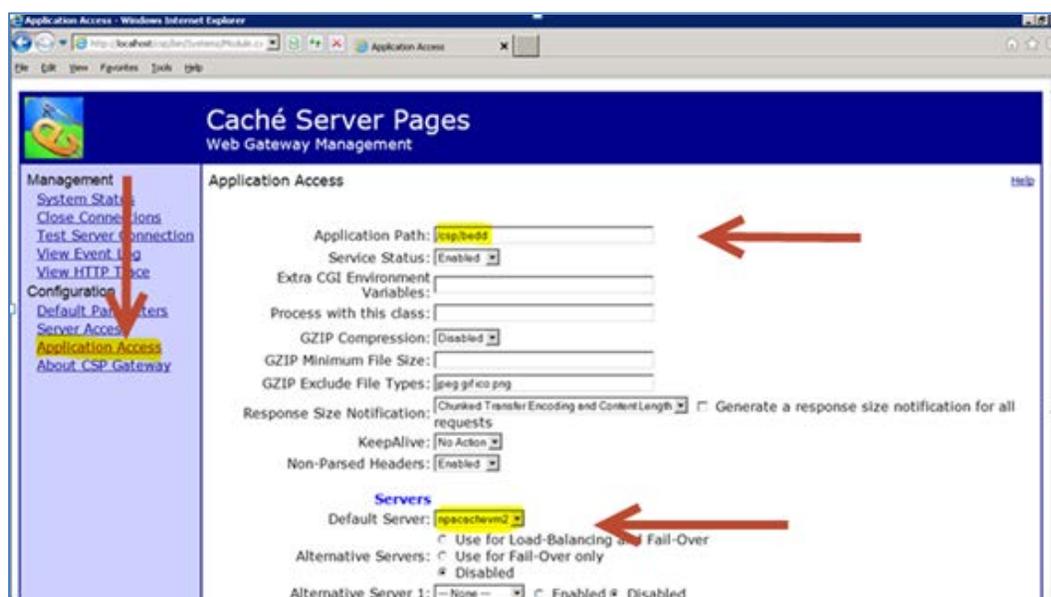


Figure 5-17: CSP Web Gateway Management page: Application Access pane

8. Insert the appropriate site information into the following fields:
 - **Application Path:** type /csp/bedd
 - **Default Server:** select the **Server Name** set in Step 4 from the dropdown list
9. Scroll to the bottom of the pane and click **Save**.
10. Select **Test Server Connection** from the left pane. When complete, the **Test Server Connection** pane (Figure 5-18) displays.



Figure 5-18: **CSP Web Gateway Management** page: **Test Server Connection** pane

11. Type the website link for the ED Dashboard into the browser address field: <https://npacsmtbmw.d1.na.ihs.gov/csp/bedd/BEDDLogin.csp> the **BEDD Emergency Room Dashboard Login** page (Figure 5-19) displays.



Figure 5-19: **BEDD Emergency Room Dashboard Login** page

Note: If using a non-standard port for the https protocol handled by IIS such as 444, modify the URL accordingly as in the following example:
<https://npacsmtbmw.d1.na.ihs.gov:444/csp/bedd/BEDDLogin.csp>

6.0 BEDD KIDS Installation

This section details the steps required to install the EDD KIDS package. This is a new package with new routines, so there should not be anything on the system to back up or compare.

Also, no options need to be taken out of service because the components to be added will not be directly added to any existing options.

6.1 Pre-Installation

- If possible, initially load the software into a test account, then into the production account. There are no routines or globals to remove after the installation is complete.
- Refer to the BEDD Installation steps (Section 6.2) and its corresponding Sample BEDD Installation (Section 6.3) for the applicable prompts and user responses. User responses appear in bold type.

6.2 BEDD Installation

1. From the KIDS menu, select the Installation menu and press Enter.
2. From the XPD Main > Installation menu, select Option 1: Load a Distribution and press Enter.
3. Type **bedd0100.k** at the “Enter a Host File” prompt and press Enter.

| |
|---|
| <p>Note: The file path might need to precede the file name with the appropriate host path. This is the file to retrieve from the appropriate software directory.</p> |
|---|

4. Press ENTER (to accept the default) at the “Want to Continue with Load?” prompt.

KIDS file bedd0100.k contains the following installation file:

BEDD DASHBOARD 1.0

5. At the Installation menu, select “Option 2: Verify Checksums in Transport Global” and press Enter. This option provides a mechanism for ensuring the integrity of your routines. It verifies checksums for the components of the Transport global, and reports any errors uncovered.
6. Type **BEDD DASHBOARD 1.0** as the install name and press Enter.

Optional: At this time, you can elect to exercise one of the following installation options. If you elect to use one of these, use **BEDD DASHBOARD 1.0** as the install name.

- Back Up a Transport Global – this option creates a MailMan message that will back up all current routines on the system that would be replaced by this release. (Because this is a new release no files will be replaced.)
 - Compare Transport Global – this option allows you to view all changes that will result from the installation of this patch and compares them with the values currently loaded on the system (routines, data dictionaries, templates, etc.).
7. From the Installation menu, select the Install Package(s) option and press Enter.
 8. At the “Select Install Name” prompt, type **BEDD DASHBOARD 1.0** and press Enter
 9. At the “Want KIDS to Rebuild Menu Trees Upon Completion of Install?” prompt, type **NO** and press Enter.
 10. At the “Want KIDS to INHIBIT LOGONs during the install?” prompt, type **NO** and press Enter.
 11. At the “Want to DISABLE Scheduled Options, Menu Options and Protocols?” prompt, type **NO** and press Enter.
 12. Type the name of the device that will print the install messages and press Enter.
 13. Exit the Installation menu.

6.3 Sample BEDD Installation

```
Select OPTION NAME: XPD MAIN      Kernel Installation & Distribution System

      Edits and Distribution ...
      Utilities ...
      Installation ...
      Patch Monitor Main Menu ...

Select Kernel Installation & Distribution System Option: Installation

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution

Select Installation Option: 1  Load a Distribution
```

```

Enter a Host File: D:\RPMS_TEST\bedd0100.k           [A site specific path
                                                    is required here]

KIDS Distribution saved on Sep 10, 2012@14:44
Comment: BEDD DASHBOARD 1.0

This Distribution contains Transport Globals for the following Package(s):
Build BEDD DASHBOARD 1.0

Distribution OK!
Want to Continue with Load? YES//  YES
Loading Distribution...

    BEDD DASHBOARD 1.0
Use INSTALL NAME: BEDD DASHBOARD 1.0 to install this Distribution.

    1      Load a Distribution
    2      Verify Checksums in Transport Global
    3      Print Transport Global
    4      Compare Transport Global to Current System
    5      Backup a Transport Global
    6      Install Package(s)
           Restart Install of Package(s)
           Unload a Distribution

Select Installation Option: 2  Verify Checksums in Transport Global
Select INSTALL NAME:  BEDD DASHBOARD 1.0  Loaded from Distribution
Loaded from Distribution  9/11/12@08:21:12
    => BEDD DASHBOARD 1.0  ;Created on Sep 10, 2012@14:44

This Distribution was loaded on Sep 11, 2012@08:21:12 with header of
    BEDD DASHBOARD 1.0  ;Created on Sep 10, 2012@14:44
It consisted of the following Install(s):
BEDD DASHBOARD 1.0

Want each Routine Listed with Checksums: Yes//  YES
DEVICE: HOME//  VT

PACKAGE: BEDD DASHBOARD 1.0      Sep 11, 2012 8:21 am      PAGE 1
-----

BEDDEHR   Calculated    2045184
BEDDEHRS  Calculated    21599952
BEDDMREC  Calculated    32819285
BEDDTRPT  Calculated    6329164
BEDDUTID  Calculated   120458405
BEDDUTIF  Calculated    694696
BEDDUTIL  Calculated   160491231
BEDDUTIU  Calculated   122967103

    8 Routines checked, 0 failed.
    1      Load a Distribution
    2      Verify Checksums in Transport Global
    3      Print Transport Global
    4      Compare Transport Global to Current System
    5      Backup a Transport Global
    6      Install Package(s)
           Restart Install of Package(s)
           Unload a Distribution

Select Installation Option: 6  Install Package(s)

```

```
Select INSTALL NAME:      BEDD DASHBOARD 1.0      Loaded from Distribution
Loaded from Distribution  9/11/12@08:21:12
      => BEDD DASHBOARD 1.0 ;Created on Sep 10, 2012@14:44

This Distribution was loaded on Sep 11, 2012@08:21:12 with header of
      BEDD DASHBOARD 1.0 ;Created on Sep 10, 2012@14:44
It consisted of the following Install(s):
BEDD DASHBOARD 1.0
Checking Install for Package BEDD DASHBOARD 1.0

Install Questions for BEDD DASHBOARD 1.0

Want KIDS to INHIBIT LOGONs during the install? NO// NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO// NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME// VT
-----

Install Started for BEDD DASHBOARD 1.0 :
      Sep 11, 2012@08:21:26

Build Distribution Date: Sep 10, 2012

Installing Routines:
      Sep 11, 2012@08:21:27

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY
      Sep 11, 2012@08:21:27

Updating Routine file...

Updating KIDS files...

BEDD DASHBOARD 1.0 Installed.
      Sep 11, 2012@08:21:27

Not a VA primary domain

Install Completed
```

Figure 6-1: Sample BEDD KIDS installation

7.0 Add User Security Keys

This section covers entering the appropriate security key to RPMS users requiring access to the BEDD application

There are two keys installed as part of the KIDS build

- BEDDZMGR – Key for Manager access to the ED Dashboard application
- BEDDZDASH – Key for User access to the ED Dashboard application

Add user security keys to RPMS users using the XUKEYMGMT option as shown in Figure 7-1.

1. At the “OPTION NAME:” prompt, type **KEY MAN** and press Enter.
2. At the “CHOOSE 1-2:” prompt, type **1** (XUKEYMGMT) and press Enter.
3. At the “Select Key Management Option:” prompt, type **ALLOC** and press Enter.
4. At the “Allocate Key:” prompt, enter **BEDDZDASH** and press Enter.
5. If the user also needs Manager access to this application, at the “Allocate Key:” prompt re-appears after the previous step, enter **BEDDZMGR** and press Enter.
6. At the “Holder of Key:” prompt, enter the user’s name to which the keys are to be added and press Enter.
7. At the “You are allocating keys. Do you wish to proceed?” prompt, verify your entry and type **YES** if correct or **NO** if not, and press Enter.

```
Select OPTION NAME: KEY MAN
  1  KEY MANAGEMENT  XUKEYMGMT      Key Management
  2  KEY MANAGEMENT  BEHOORKY MAIN  Key Management
CHOOSE 1-2: 1  XUKEYMGMT      Key Management

Allocation of Security Keys
De-allocation of Security Keys
Enter/Edit of Security Keys
All the Keys a User Needs
Change user's allocated keys to delegated keys
Delegate keys
Keys For a Given Menu Tree
List users holding a certain key
Remove delegated keys
Show the keys of a particular user

Select Key Management Option: ALLOCation of Security Keys

Allocate key: BEDDZDASH

Another key: BEDDZMGR

Another key:
```

```
Holder of key: USER,TEST
Another holder:
You've selected the following keys:
BEDDZMGR      BEDDZDASH
You've selected the following holders:
USER,TEST
You are allocating keys. Do you wish to proceed? YES//
BEDDZMGR being assigned to:
    USER,TEST
BEDDZDASH being assigned to:
    USER,TEST
```

Figure 7-1: Key Management – Allocate Key(s)

8.0 Application Access Setup

There are two modes of operation for the EDD - Standalone and EHR Portal.

- Standalone - access via a direct web browser session which requires an active RPMS User and Verify code to login.
- EHR portal - access from within the EHR application as separate tab. Note that this also requires an active RPMS User and Verify code to login, however the user may already have their credentials cached in the EHR application.

8.1 Stand Alone Setup

For standalone access, create an icon on your desktop to call up your web browser for access:

1. Right click at a blank area of the Windows desktop to display the actions menu.
2. Select **New** to display the submenu.
3. Select **Shortcut** to display the **Create Shortcut** wizard, select item step (Figure 8-1).



Figure 8-1: **Create Shortcut** wizard, select item step

4. In the **Type the location of the item** field, type the following URL (site-specific modifications in [brackets]):

http://[IPADDRESS]:[PORT]/csp/bedd/BEDDLogin.csp, where:

- **IPADDRESS** is the IP name or Address of your Ensemble installation or CSP Gateway.
- **PORT** is the port number used for the portal or gateway.

Note: Modify the URL to HTTPS if using a CSP gateway with an active and signed HTTPS encryption certificate.

- Click **Next** to display the **Create Shortcut** wizard, set name step.



Figure 8-2: **Create Shortcut** wizard, set name step

- In the **Type a name for this shortcut** field, type **ED Dashboard**.
- Click **Finish**.

To test, double click the new shortcut. If the setup was completed correctly, the Dashboard Login web page (Figure 8-3) should display.



Figure 8-3: Dashboard Login web page

8.2 EHR Setup

To access the EDD from the EHR, the latter's graphical user interface (GUI) must be modified:

- Log on to EHR.
- Right-click in the title bar at the top of the EHR window and select **Design Mode** (Figure 8-4).

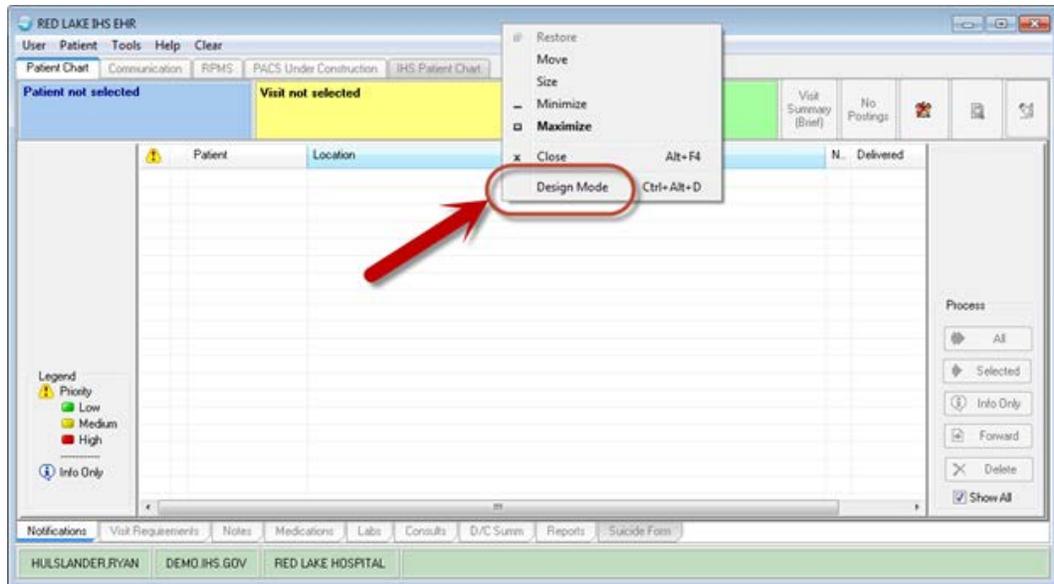


Figure 8-4: EHR window with right-click menu displayed

3. Select **Desktop Properties** from the **Design** menu (Figure 8-5) to display the **Properties for Desktop** dialog (Figure 8-6).

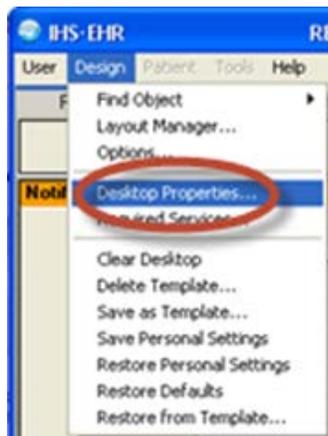
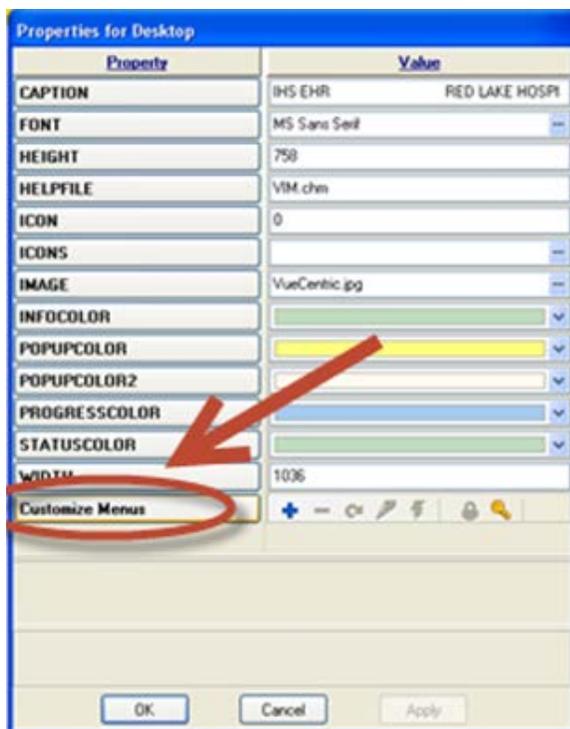


Figure 8-5: **Design** menu

Figure 8-6: **Properties for Desktop** dialog

4. Select **Customize Menus** from the **Property** list
5. Click the blue plus sign (+) to display the **Menu Items** pane (Figure 8-7) with a blank menu entry at the bottom of the list.

Figure 8-7: **Properties for Desktop** dialog: **Menu Items** pane

6. Type **ED Dashboard** in the blank menu entry.
7. Click **Apply**; the **ED Dashboard** dialog (Figure 8-8) displays.

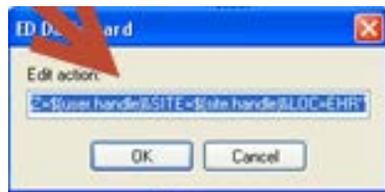


Figure 8-8: **ED Dashboard** dialog

8. In the **Edit action** field of the **ED Dashboard** dialog (Figure 8-8), type the path to Internet Explorer followed by a space and the EHR URL. Replace **IP address** and **PORT** with values appropriate for the site:
C:\Program Files\Internet Explorer\iexplore.exe http://IPaddress:PORT csp/bedd/BEDDLogin.csp?DUZ=\$(user.handle)&SITE=\$(site.handle)&LOC=EHR
9. Click **OK** to close the **ED Dashboard** dialog.
10. Click **OK** to close the **Properties for Desktop** dialog.
11. Click **Save Settings**.
12. Exit Design Mode.
13. Click the new tab **Emergency Department Dashboard**; the **EDD** main page (Figure 8-9) displays.

The screenshot displays the 'Emergency Department Dashboard' interface. At the top, it shows the user 'HULSLANDER, RYAN' and the system 'DEMO.IHS.GOV'. The dashboard is divided into several sections:

- Summary:** Last update: Jun 27, 2012@02:06:21. A summary table shows counts for Check-In, Triaged, and Rooms.
- Check-In:** A table listing patients who have checked in, including patient name (TEST KALIANN), DOB, chart number, and presenting complaint.
- Waiting:** A table listing patients currently waiting, including patient name (TEST BEE), DOB, chart number, and chief complaint.
- Triaged:** A table listing patients who have been triaged, including patient name (TEST BEE), DOB, chart number, and triage details.
- Room Management:** A section for managing patient rooms.

| Check-In | Wtg | Avg Wtg | Triaged | Wtg | Avg Wtg | Rooms | Wtg | Avg Wtg | Pend | Wtg | Avg Wtg | Discharges | | Manager | |
|----------|------|---------|---------|------|---------|-------|------|---------|------|-----|---------|------------|--|---------|--|
| 1 | 7897 | 7897 | 1 | 8766 | 8766 | 1 | 7894 | 7894 | | | | | | | |

| Waiting | Check-In | Patient (gender) | DOB (age) | Chart | Presenting | Clinic | Info | Actions | Reg |
|---------|------------------|------------------|-------------------|--------|-------------|-------------|---|---|-----|
| | 06/21/2012 14:29 | TEST KALIANN (F) | 05/02/90 (22 YRS) | 108252 | ANKLE HURTS | URGENT CARE | Paged for Triage on Jun 21, 2012 15:19:16 by HULSLANDER,RYAN; | <input type="radio"/> Trg Page <input type="radio"/> Rm Page <input type="radio"/> Obsv <input type="radio"/> TrgRpt | NO |

| Waiting | Trg | Time | Patient (gender) | DOB (age) | Chart | Chief Complaint | Order Activity | Clinic | Nurse | Provider | Consult | Info | Acti |
|---------|-----|-------|------------------|-------------------|--------|-----------------|----------------|-------------|------------|----------------|---------|--|---|
| | 3 | 24:00 | TEST BEE ONE (M) | 01/01/54 (58 YRS) | T00003 | PAIN | | URGENT CARE | ASH,VIOLET | AARONSON,STEVE | No | Paged for Triage on Jun 20, 2012 21:04:45 by EVERETT,BRIAN; Pt Observed on Jun 20, 2012 21:04:51 by EVERETT,BRIAN; | <input type="radio"/> Rt Page <input type="radio"/> Ot <input type="radio"/> Tr |

Figure 8-9: EDD main page

9.0 Configuration

Setup of the Emergency Room beds and other aspects of the EDD are covered in the IHS Emergency Department Dashboard Users Guide BEDD0100u.pdf

Acronym List

| | |
|-------------|--|
| CSP | Cache Server Page |
| EDD | Emergency Department Dashboard |
| EHR | Electronic Health Record |
| ERS | Emergency Room System |
| GUI | Graphical User Interface |
| IHS | Indian Health Service |
| RPMS | Resource and Patient Management System |

Contact Information

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

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

Fax: (505) 248-4363

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

Email: support@ihs.gov