



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **IHS Emergency Department Dashboard**

(BEDD)

## **Addendum to the Installation Guide and Release Notes**

Version 2.0 Patch 4  
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## Preface

The purpose of this manual is to provide the user with the information required to install v2.0 p4 of the IHS Emergency Department Dashboard (EDD).

## 1.0 Release Notes

The EDD is a tool that electronically enables facilities to run and manage their emergency and or urgent care clinics. The EDD 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:** 2.0 p4

### 2.1 Contents of Distribution

The BEDD v2.0 p4 distribution contains the following items documented in Table 2-1.

Table 2-1: Contents of distribution

File	Description
bedd0200.04xml.zip (containing bedd0200.04.xml)	Ensemble XML import file
bedd0200.04k	KIDS file
bedd0200.04i.pdf	Addendum to the Installation Manual and Release Notes (this document)
bedd0200.04n	Patch notes
bedd0200.04t.pdf	Addendum to the Technical Manual
bedd0200.04u.pdf	Addendum to the User Guide
bedd0200.04o.pdf	Configuration Guide

### 2.2 Required Resources

Table 2-2 contains the RPMS software that is required in order for the BEDD software to run properly. The BEDD v2.0 p4 KIDS has checks in place to require AMER v3.0 p11 and BEDD v2.0 p3. All other required modules were required as steps in previous BEDD/AMER version/patch installations so checks for them are not required for this release.

Table 2-2: Required RPMS Software

Module	Minimum Version
Veterans Administration (VA) FileMan (DI)	v22.0 p1018 (released with XU*8.0*1018)
VA Kernel (XU)	v8.0 p1018
IHS/VA Utilities (XB)	v3.0 through p11
ER Visit System (AMER)	V3.0 p10
IHS EMERGENCY DEPT DASHBOARD (BEDD)	V2.0 p2
Patient Care Component PCC Data Entry (APCD)	v2.0 through p10
IHS PCC Suite (BJPC)	v2.0 p11

<b>Module</b>	<b>Minimum Version</b>
EHR 1.1	v1.1 p14
Lexicon Utility (LEX)	v2.0 p1003
Ensemble	v2012.2.5
VUECENTRIC FRAMEWORK (CIAV)	V1.1v2

## 2.3 Before You Begin: Installation Issues

The Ensemble import file (bedd0200.04.xml) is delivered in a zipped (compressed) format. It has been determined that transferring the file in an uncompressed format will corrupt it so that it will not import properly into Ensemble. Therefore, when retrieving the file, do not extract the file from its zipped state until it has been placed directly into the desired import folder.

## 3.0 Installation Instructions

The process to install v2.0 p4 of the BEDD application requires the installation of two builds. The first build that needs to be installed is an XML release that needs to be imported into Ensemble first. Following the XML installation will be a standard KIDS build installation.

### 3.1 Disk Space

With v2.0 of BEDD p4, no significant extra disk space is needed on the server to install the Cache Server Page (CSP) file contained in the bedd0200.04.xml file. Additional storage space will be needed to store patient information entered through the EDD.

### 3.2 Pre-installation

Before installing the BEDD application, the following items should be completed (in no particular order):

- If possible, initially load the software into a test account, then into the production account.
- Refer to the sample installation instructions for the applicable prompts and user responses. User responses appear in bold type.
- Ensure the other required applications have been installed.

## 4.0 Sample Installations

There are two builds to be installed with this release, an XML build and a KIDS build. For the installation to complete successfully, the KIDS build must be installed after the XML build. A post install step in the KIDS build compiles information delivered in the XML build so it must be installed second. If the KIDS build inadvertently gets installed first, continue installing the XML build then install the KIDS build a second time.

### 4.1 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.

#### 4.1.1 Move XML Compressed File to Accessible Folder and Unzip

Move the compressed XML build to a folder accessible by the Ensemble server. Once the file has been placed into the folder, unzip the file.

#### 4.1.2 Open Ensemble Studio

1. Click the Ensemble cube in the system tray (at the right end of the Windows Taskbar) and select **Studio**, as shown in Figure 4-1. A login ID and password may be required.

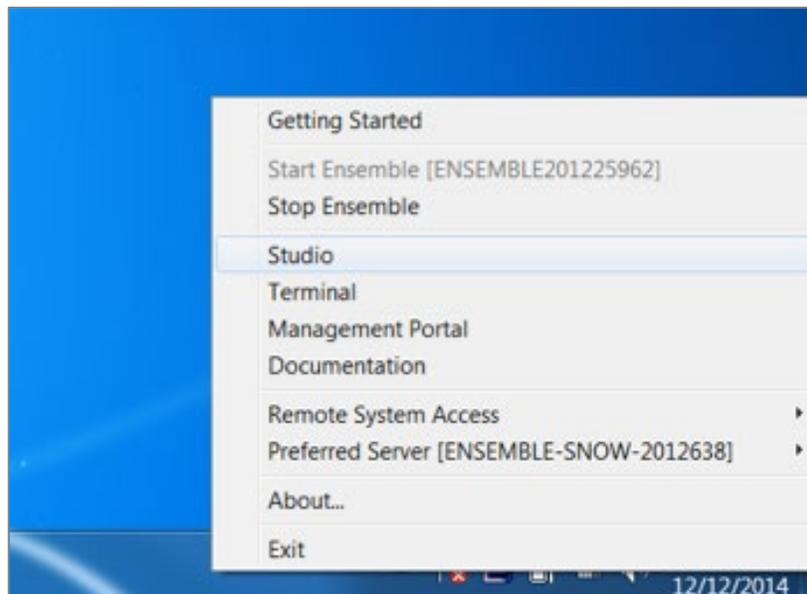


Figure 4-1: Open Ensemble Studio

2. The Ensemble Studio window is displayed, as shown in Figure 4-2.

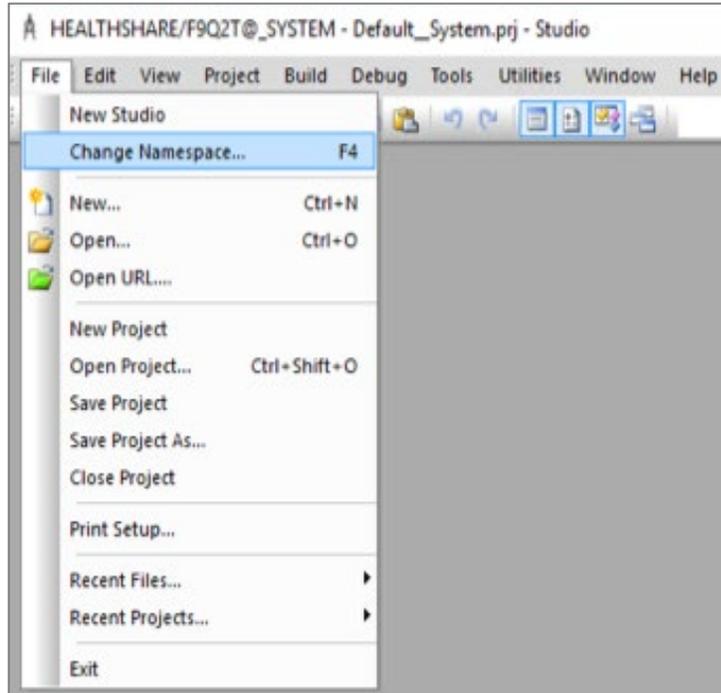


Figure 4-2: Ensemble Studio **File** menu options – **Change Namespace**

3. On the **File** menu, click **Change Namespace** to open the **Cache Connection Manager** dialog (Figure 4-3).

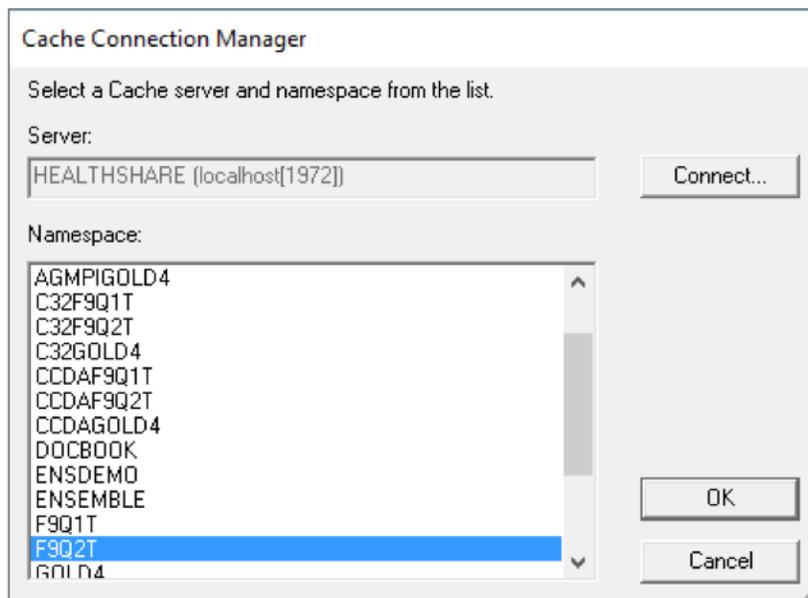


Figure 4-3: **Cache Connection Manager** dialog

Select the appropriate namespace from the **Cache Connection Manager** dialog, (Figure 4-3) and click **OK**.

### 4.1.3 Import the bedd0200.04.xml File

1. On the **Tools** menu (Figure 4-4), select **Import Local**.

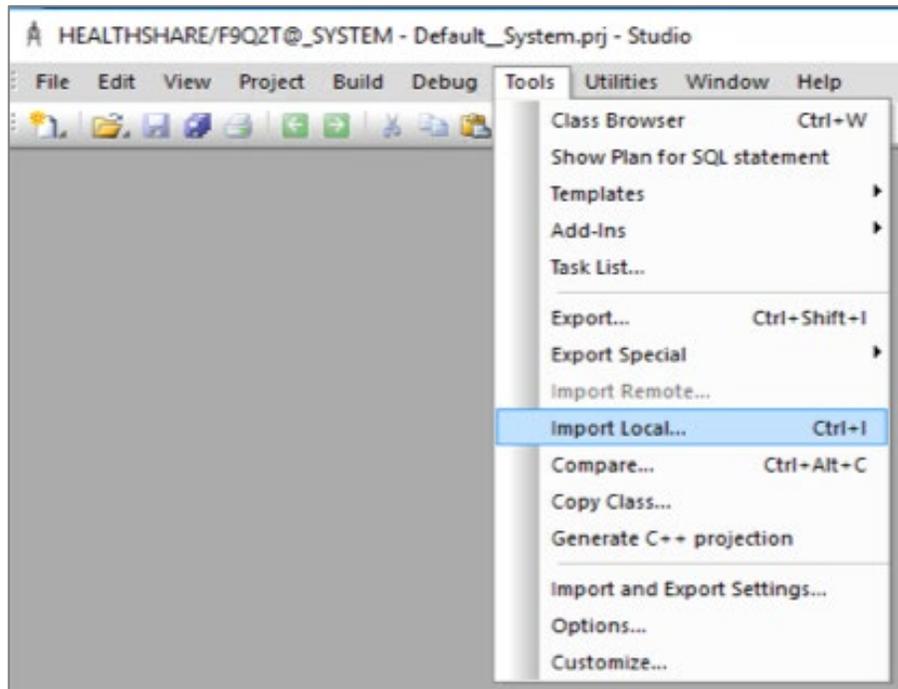


Figure 4-4: **Tools** menu

2. Navigate to the folder where the file was placed and select **bedd0200.04.xml**.

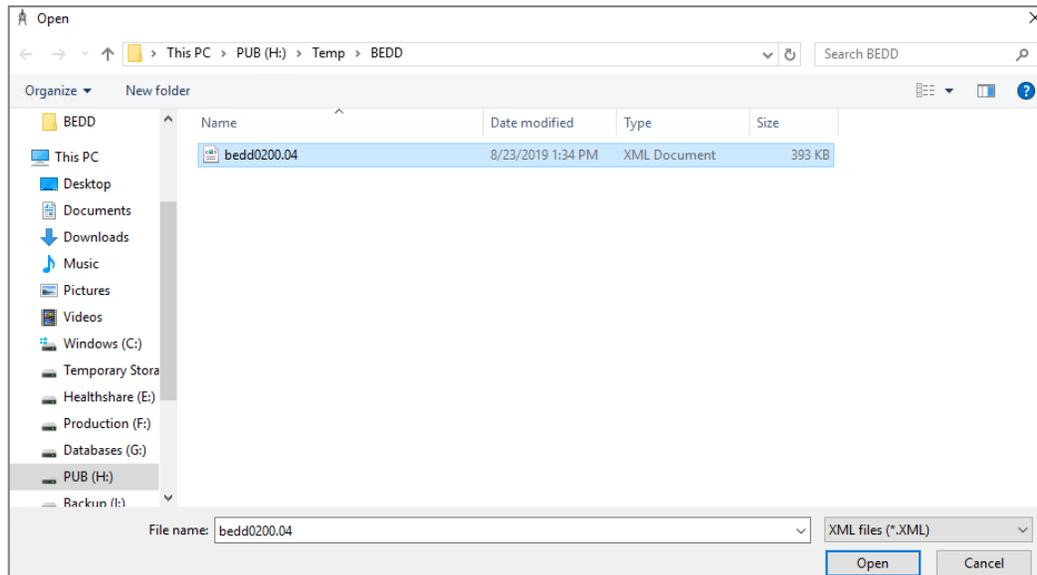


Figure 4-5: Select the XML build to import

Click **Open** (Figure 4-5). The **Import** dialog (Figure 4-6) displays.

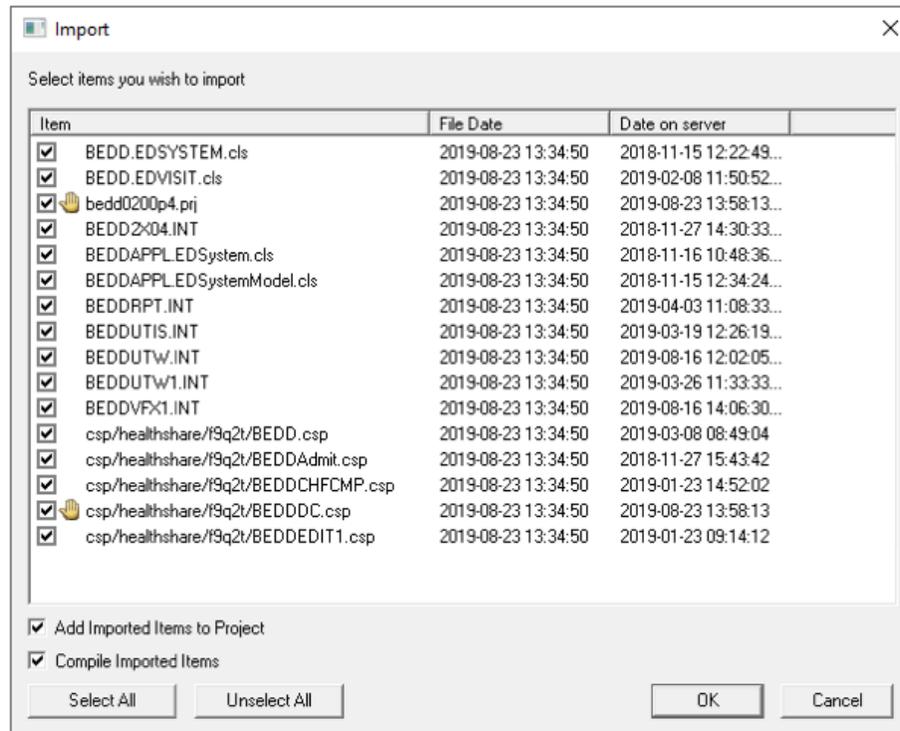


Figure 4-6: Import dialog

3. Select all of the items in the list and select the **Compile Imported Items** check box.
4. Click **OK**. After the system compiles the EDD package files, the **Compilation finished successfully in...** message appears in the **Output** pane.
5. If a warning dialog similar to Figure 4-7 displays after the XML file has been imported, click **OK** to continue.

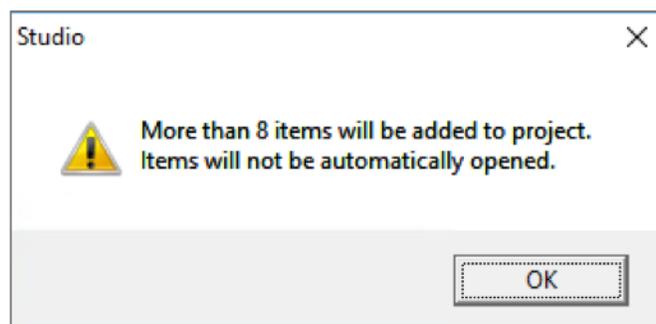


Figure 4-7: Studio warning dialog

## 4.2 BEDD KIDS Installation

1. From the **KIDS** menu, select the **Installation** menu.

2. From the **XPD Main | Installation** menu, select **Option 1: Load a Distribution**.
3. Type **bedd0200.04k** at the “Enter a Host File” prompt. Please 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.
4. Type **YES** (or press Enter to accept the default) at the “Want to Continue with Load?” prompt.
5. KIDS file bedd0200.04k contains the following installation file:
  - **BEDD\*2.0\*4**
6. From the **Installation** menu, select **Option 2: Verify Checksums in Transport Global**. This option provides a mechanism for ensuring the integrity of the routines. This step verifies checksums for the components of the Transport global, and reports any errors uncovered.
7. Type **BEDD\*2.0\*4** as the install name.

**Optional:** Exercise one of the following installation options. In this case, use **BEDD\*2.0\*4** 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.
  - **Compare Transport Global:** This option displays 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.).
8. From the **Installation** menu, select the **Install Packages(s)** option.
9. At the “Select Install Name” prompt, type **BEDD\*2.0\*4**.
10. Respond to the following prompts as indicated:
  - a. At the “Want KIDS to Rebuild Menu Trees Upon Completion of Install?” prompt, type **NO**.
  - b. At the “Want KIDS to INHIBIT LOGONs during the install?” prompt, type **NO**.
  - c. At the “Want to DISABLE Scheduled Options, Menu Options and Protocols?” prompt, type **NO**.
11. Type the name of the device that will print the install messages.
12. Exit the **Installation** menu.

## 4.3 Sample Cache Installation

**Note:** User responses display in bold type.

```

Select OPTION NAME: XPD MAIN           Kernel Installation & Distribution
System

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

Select Kernel Installation & Distribution System <TEST ACCOUNT> 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 <TEST ACCOUNT> Option: 1 Load a Distribution
Enter a Host File: C:\RPMS\bedd0200.04k

KIDS Distribution saved on Aug 16, 2019@14:09:20
Comment: BEDD*2.0*4

This Distribution contains Transport Globals for the following Package(s):
  BEDD*2.0*4
Distribution OK!

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

Build BEDD*2.0*4 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
  BEDD*2.0*4
Will first run the Environment Check Routine, BEDD2P04

Use INSTALL NAME: BEDD*2.0*4 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

You have PENDING ALERTS
      Enter "VA to jump to VIEW ALERTS option

```

```

Select Installation <TEST ACCOUNT> Option: 2  Verify Checksums in Transport
Glob
al
Select INSTALL NAME:      BEDD*2.0*4      Loaded from Distribution
8/26/19@11:36
:44
    => BEDD*2.0*4  ;Created on Aug 16, 2019@14:09:20

This Distribution was loaded on Aug 26, 2019@11:36:44 with header of
    BEDD*2.0*4  ;Created on Aug 16, 2019@14:09:20
It consisted of the following Install(s):
    BEDD*2.0*4

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

PACKAGE: BEDD*2.0*4      Aug 26, 2019 11:36 am      PAGE
1
-----
----

BEDD2P04  Calculated      3007812
BEDDGET   Calculated      16868749
BEDDPCC   Calculated      6825358
BEDDPRT   Calculated      31159324
BEDDUTID  Calculated      190228871
BEDDUTIL  Calculated      176505341
BEDDVFIX  Calculated      155246724

    7 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

You have PENDING ALERTS
    Enter  "VA to jump to VIEW ALERTS option

Select Installation <TEST ACCOUNT> Option: 6  Install Package(s)
Select INSTALL NAME:      BEDD*2.0*4      Loaded from Distribution
8/26/19@11:36
:44
    => BEDD*2.0*4  ;Created on Aug 16, 2019@14:09:20

This Distribution was loaded on Aug 26, 2019@11:36:44 with header of
    BEDD*2.0*4  ;Created on Aug 16, 2019@14:09:20
It consisted of the following Install(s):
    BEDD*2.0*4

Checking Install for Package BEDD*2.0*4
Will first run the Environment Check Routine, BEDD2P04

Install Questions for BEDD*2.0*4

```

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

    Install Started for BEDD*2.0*4 :
            Aug 26, 2019@11:36:52

Build Distribution Date: Aug 16, 2019

    Installing Routines:.....
            Aug 26, 2019@11:36:52

    Running Post-Install Routine: ENT^BEDD2P04.
    Compilation started on 08/26/2019 11:36:52 with qualifiers 'k-u'
    Compiling routine : BEDD2XML.int
    Compiling routine : BEDDRPT.int
    Compiling routine : BEDDUTW.int
    Compiling routine : BEDDUTIS.int
    Compiling 18 classes, using 4 worker jobs
    Compiling class BEDD.EDInjury
    Compiling class BEDD.EDConsults
    Compiling class BEDD.EDRooms
    Compiling class BEDD.EDDiagnosis
    Compiling class BEDD.EDRoomUse
    Compiling class BEDD.EDProc
    Compiling class BEDD.EDUserPreferences
    Compiling class BEDD.EDWarning
    Compiling class BEDD.EDSYSTEM
    Compiling class BEDDAPPL.EDRoomModel
    Compiling class BEDDAPPL.EDWarningModel
    Compiling class BEDDAPPL.EDSystemModel
    Compiling class BEDDAPPL.EDMenu
    Compiling class BEDD.EDVISIT
    Compiling table BEDD.EDConsults
    Compiling table BEDD.EDRooms
    Compiling table BEDD.EDSYSTEM
    Compiling table BEDD.EDUserPreferences
    Compiling table BEDD.EDRoomUse
    Compiling table BEDD.EDDiagnosis
    Compiling table BEDD.EDProc
    Compiling table BEDD.EDWarning
    Compiling table BEDD.EDVISIT
    Compiling routine BEDD.EDInjury.1
    Compiling routine BEDD.EDProc.1
    Compiling routine BEDD.EDRoomUse.1
    Compiling routine BEDD.EDDiagnosis.1
    Compiling routine BEDD.EDConsults.1
    Compiling routine BEDD.EDRooms.1
    Compiling routine BEDD.EDUserPreferences.1
    Compiling routine BEDD.EDWarning.1
    Compiling routine BEDDAPPL.EDRoomModel.1
    Compiling routine BEDD.EDSYSTEM.1
    Compiling routine BEDDAPPL.EDMenu.1
```

```
Compiling routine BEDDAPPL.EDWarningModel.1
Compiling routine BEDDAPPL.EDSystemModel.1
Compiling routine BEDD.EDVISIT.1
Compiling class BEDDAPPL.EDManager
Compiling class BEDDAPPL.EDRoom
Compiling class BEDDAPPL.EDWarning
Compiling class BEDDAPPL.EDSystem
Compiling routine BEDDAPPL.EDManager.1
Compiling routine BEDDAPPL.EDRoom.1
Compiling routine BEDDAPPL.EDWarning.1
Compiling routine BEDDAPPL.EDSystem.1
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.js
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.css
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL_3.css
Compilation finished successfully in 5.743s.
```

```
Compilation started on 08/26/2019 11:36:57 with qualifiers 'k-u'
Compiling routine : BEDD2X01.int
Compiling routine : BEDDUTW1.int
Compiling routine : BEDDUTW.int
Compiling routine : BEDDUTIS.int
Compiling routine : BEDDPREF.int
Compiling 6 classes, using 4 worker jobs
Compiling class BEDD.EDUserPreferences
Compiling class BEDD.EDSYSTEM
Compiling class BEDDAPPL.EDSystemModel
Compiling class BEDDAPPL.EDMenu
Compiling class BEDD.EDVISIT
Compiling table BEDD.EDUserPreferences
Compiling table BEDD.EDSYSTEM
Compiling table BEDD.EDVISIT
Compiling routine BEDDAPPL.EDMenu.1
Compiling routine BEDDAPPL.EDSystemModel.1
Compiling routine BEDD.EDUserPreferences.1
Compiling routine BEDD.EDSYSTEM.1
Compiling routine BEDD.EDVISIT.1
Compiling class BEDDAPPL.EDSystem
Compiling routine BEDDAPPL.EDSystem.1
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.js
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.css
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL_3.css
Compilation finished successfully in 1.419s.
```

```
Compilation started on 08/26/2019 11:36:59 with qualifiers 'k-u'
Compiling routine : BEDD2X02.int
Compiling routine : BEDDRPT.int
Compiling routine : BEDDUTW.int
Compiling routine : BEDDUTW1.int
Compiling 6 classes, using 4 worker jobs
Compiling class BEDDAPPL.EDSystemModel
Compiling class BEDD.EDSYSTEM
Compiling class BEDDAPPL.EDMenu
Compiling table BEDD.EDSYSTEM
Compiling routine BEDDAPPL.EDMenu.1
Compiling routine BEDDAPPL.EDSystemModel.1
Compiling routine BEDD.EDSYSTEM.1
```

```

Compiling class BEDDAPPL.EDWarning
Compiling class BEDDAPPL.EDRoom
Compiling class BEDDAPPL.EDSystem
Compiling routine BEDDAPPL.EDRoom.1
Compiling routine BEDDAPPL.EDWarning.1
Compiling routine BEDDAPPL.EDSystem.1
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.js
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.css
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL_3.css
Compilation finished successfully in 0.874s.

Compilation started on 08/26/2019 11:37:00 with qualifiers 'k-u'
Compiling routine : BEDD2X03.int
Compiling routine : BEDDUTW1.int
Compiling routine : BEDDRPT.int
Compiling class BEDD.EDVISIT
Compiling table BEDD.EDVISIT
Compiling routine BEDD.EDVISIT.1
Compilation finished successfully in 0.873s.

Compilation started on 08/26/2019 11:37:01 with qualifiers 'k-u'
Compiling routine : BEDD2X04.int
Compiling routine : BEDDRPT.int
Compiling routine : BEDDUTW1.int
Compiling routine : BEDDUTIS.int
Compiling routine : BEDDVFX1.int
Compiling routine : BEDDUTW.int
Compiling 5 classes, using 4 worker jobs
Compiling class BEDDAPPL.EDSystemModel
Compiling class BEDD.EDSYSTEM
Compiling class BEDDAPPL.EDMenu
Compiling class BEDD.EDVISIT
Compiling table BEDD.EDSYSTEM
Compiling table BEDD.EDVISIT
Compiling routine BEDDAPPL.EDSystemModel.1
Compiling routine BEDDAPPL.EDMenu.1
Compiling routine BEDD.EDSYSTEM.1
Compiling routine BEDD.EDVISIT.1
Compiling class BEDDAPPL.EDSystem
Compiling routine BEDDAPPL.EDSystem.1
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.js
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL.css
Generating file:
E:\InterSystems\HealthShare\CSP\healthshare\f9q2t\BEDDAPPL_3.css
Compiling file /csp/healthshare/f9q2t/BEDD.csp
Compiling file /csp/healthshare/f9q2t/BEDDAdmit.csp
Compiling file /csp/healthshare/f9q2t/BEDDCHFCMP.csp
Compiling file /csp/healthshare/f9q2t/BEDDDC.csp
Compiling file /csp/healthshare/f9q2t/BEDDEDIT1.csp
Compiling 5 classes, using 4 worker jobs
Compiling class csp.beddchfcmp
Compiling class csp.bedddc
Compiling class csp.bedd
Compiling class csp.beddadmit
Compiling class csp.beddedit1
Compiling routine csp.beddchfcmp.1
Compiling routine csp.bedddc.1

```

```
Compiling routine csp.bedd.1
Compiling routine csp.beddadmit.1
Compiling routine csp.beddedit1.1
Compilation finished successfully in 2.061s.

Compilation started on 08/26/2019 11:37:03 with qualifiers 'k-u'
Compilation finished successfully in 0.012s.

Updating Routine file.....

Updating KIDS files.....

BEDD*2.0*4 Installed.
      Aug 26, 2019@11:37:03

Not a VA primary domain

NO Install Message sent
```

Figure 4-8: Sample Cache installation

## 5.0 Application Access Setup

BEDD v2.0 p4 does not require any changes to the application setup or BEDD specific settings. Please refer to previous BEDD releases for information regarding setting up the ED Dashboard for first time use or editing existing settings.

BEDD v2.0 p4 does take advantage of new AMER settings delivered in AMER v3.0 p11. Please see the AMER p11 Release Notes for directions on using these new settings.

## Acronym List

Acronym	Meaning
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 IHS IT Service Desk.

**Phone:** (888) 830-7280 (toll free)

**Web:** <https://www.ihs.gov/itsupport/>

**Email:** [itsupport@ihs.gov](mailto:itsupport@ihs.gov)