



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Certified Electronic Record Checker

(BCER)

Installation Guide and Release Notes

Version 1.0
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Office of Information Technology (OIT)
Division of Information Resource Management
Albuquerque, New Mexico

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1.0 Release Notes

This package examines Resource and Patient Management System (RPMS) Electronic Health Record (EHR) software packages to verify that the version and patch level of each is at the minimum level required to meet the “Certified EHR” requirement of Meaningful Use (MU).

The following routines are included in this version:

BCERENCK

2.0 Installation Notes

Prefix: BCER

Current Version: 1.0

2.1 Contents of Distribution

File	Description
bcer0100.k	KIDS format
bcer010i.pdf	Installation Guide and Release Notes

2.2 Required Resources

- AG v7.1 patch 9.
- APCL v3.0 patch 27.
- APSP v7.0 patch 1010.
- BGP v11.0 patch 3 or 4.
- BJMD v1.0 patch 1.
- BJPC v2.0 patch 6.
- BMC v4.0 patch 7.
- BQI v2.1.
- BRN v2.0 patch 3.
- BYIM v2.0 patch 1.
- BGO v1.1 patch 8.
- LR v5.2 patch 1027 or 372 or 334.
- PXRm v1.5 patch 1007.
- Ensemble v2009.1.6 or 2010.2.3.

The following windows/AIX applications are requirements as well for a Certified EHR but cannot be checked from RPMS. Therefore this environment checker will not inform you whether they are present or not. They must be verified manually.

- Encryption software - Symantec Endpoint v8.0 **or** Symantec Endpoint v8.2 **or** 7-Zip or Credant2Go.
- IPSEC (for Windows).

- VanDyke (for AIX).
- WinHasher v1.6.
- Universal Client - CCR Continuity of Care Record v1.0.
- BPHR v1.0.

2.3 Before You Begin: Installation Issues

None.

3.0 Installation Instructions

In all UCIs where EHR will be installed:

1. Log in as a system manager and go to programmer mode, D ^XUP, and choose **KERNEL INSTALLATION AND DISTRIBUTION**
2. Load the Distribution into KIDS using option **1** on the KIDS Installation menu. The distribution was released in the file named bcer0100.k.
3. Verify the load using option **2** on the KIDS Installation menu.
4. Consider using options **3** and **4** on the KIDS Installation menu to print and compare the Transport global.
5. Install the distribution using option **6**, Install Name = bcer*1.0.
 - a. Answer **YES** to “Environment Check Question.”
 - b. Answer **NO** to “Disable Options, Menus, and Inhibit Logons.”
6. Verify that the patch installed properly by displaying the installed patches in the Utility menu
7. If any requirements are missing, install the missing requirements and run this checker again until all requirements are installed.
8. After the environment checker installs successfully contact your MU consultant and coordinator.

4.0 Sample Installations

```
D ^XUP

Setting up programmer environment
This is a TEST account.

Terminal Type set to: C-VT100

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

KIDS Distribution saved on Jul 07, 2011@09:24:11
Comment: EHR CERT ENV CHECKER

This Distribution contains Transport Globals for the following Package(s):
    BCER 1.0
Distribution OK!

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

Build BCER 1.0 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
    BCER 1.0
Will first run the Environment Check Routine, BCERENCK

                Hello, SYSTEM MANAGER

                Checking Environment for EHR Software

Need Ensemble version 2009.1.6 or version 2010.2.3.....Cache for Windows (x86-6
4) 2009.1.2 (Build 921_0_10414U) Tue Apr 5 2011 22:32:21 GMTDT was found
    Need at least AG V7.1 patch 9...patch 9 Present
    Need at least APCL V3.0 patch 27...patch 27 Present
    Need at least APSP V7.0 patch 1010...patch 1010 Present
    Need at least BGP V11.0 patch 3...patch 3 Present
    Need at least BJMD V1.0 patch 1...patch 1 Present
    Need at least BJPC V2.0 patch 6...patch 6 Present
    Need at least BMC V4.0 patch 7...patch 7 Present
    Need at least BQI v2.1...BQI v2.1 Present
```

Need at least BRN V2.0 patch 3...patch 3 Present
 Need at least BYIM V2.0 patch 1... patch 1 Present
 Need at least BGO V1.1 patch 8...patch 8 Present
 Need at least LR V5.2 patch 1027...patch 1027 Present
 Need at least PXR V1.5 patch 1007...patch 1007 Present

Use INSTALL NAME: BCER 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: BCER 1.0 Loaded from Distribution Loaded from Di
 stribution 7/7/11@10:58:13
 => EHR CERT ENV CHECKER ;Created on Jul 07, 2011@09:24:11

This Distribution was loaded on Jul 07, 2011@10:58:13 with header of
 EHR CERT ENV CHECKER ;Created on Jul 07, 2011@09:24:11
 It consisted of the following Install(s):
 BCER 1.0

Want each Routine Listed with Checksums: Yes// NO
 DEVICE: HOME// Virtual

PACKAGE: BCER 1.0 Jul 07, 2011 10:58 am PAGE 1

 1 Routine 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: 4 Compare Transport Global to Current System
 Select INSTALL NAME: BCER 1.0 Loaded from Distribution Loaded from
 Distribution 7/7/11@10:58:13
 => EHR CERT ENV CHECKER ;Created on Jul 07, 2011@09:24:11

This Distribution was loaded on Jul 07, 2011@10:58:13 with header of
 EHR CERT ENV CHECKER ;Created on Jul 07, 2011@09:24:11
 It consisted of the following Install(s):
 BCER 1.0

Select one of the following:

- 1 Full Comparison
- 2 Second line of Routines only
- 3 Routines only
- 4 Columnar Routine compare

```
Type of Compare: 1 Full Comparison
DEVICE: HOME// Virtual
Compare BCER 1.0 to current site
-----
```

```
Routine: BCERENCK
```

- 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: BCER 1.0 Loaded from Distribution
Loaded from Distribution 7/7/11@10:58:13
=> EHR CERT ENV CHECKER ;Created on Jul 07, 2011@09:24:11
```

```
This Distribution was loaded on Jul 07, 2011@10:58:13 with header of
EHR CERT ENV CHECKER ;Created on Jul 07, 2011@09:24:11
It consisted of the following Install(s):
BCER 1.0
```

```
Checking Install for Package BCER 1.0
Will first run the Environment Check Routine, BCERENCK
```

```
Hello, SYSTEM MANAGER
```

```
Checking Environment for EHR Software
```

```
Need Ensemble version 2009.1.6 or version 2010.2.3...Cache for Windows (x86-6
4) 2009.1.6 (Build 921_0_1041U) Tue Apr 5 2011 22:32:21 GMTDT was found
Need at least AG V7.1 patch 9....patch 9 Present
Need at least APCL V3.0 patch 27....patch 27 Present
Need at least APSP V7.0 patch 1010....patch 1010 Present
Need at least BGP V11.0 patch 3....patch 3 Present
Need at least BJMD V1.0 patch 1....patch 1 Present
Need at least BJPC V2.0 patch 6....patch 6 Present
Need at least BMC V4.0 patch 7....patch 7 Present
Need at least BQI v 2.1.....BQI v 2.1 Present
Need at least BRN V2.0 patch 3....patch 3 Present
Need at least BYIM V2.0 patch 1....patch 1 Present
Need at least BGO V1.1 patch 8....patch 8 Present
Need at least LR V5.2 patch 1027....patch 1027 Present
Need at least PXR V1.5 patch 1007....patch 1007 Present
```

```
Install Questions for BCER 1.0
```

```
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
```

The Install messages print at this point.

```
BCER 1.0 Installed.  
          Jul 07, 2011@10:58:31  
  
No link to PACKAGE file  
  
NO Install Message sent [1;24r[H[J[2J[H  
  
Install Completed  
  
[?25h>[0m(B  
  
  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:
```

5.0 Installation Configuration

This application is an RPMS checker looking for minimum updates required for a Certified EHR.

There are no additional requirements beyond what is listed in this document.

Acronym List

EHR	Electronic Health Record
IHS	Indian Health Service
MU	Meaningful Use
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