



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Certified Electronic Record Checker

(BCER)

Installation Guide and Release Notes

Version 4.0
September 2020

Office of Information Technology
Division of Information Technology

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Preface

This package examines the Indian Health Service (IHS) Resource and Patient Management System (RPMS) software packages to verify that the version and patch level is at the minimum level required to meet the 2015 Certified Electronic Health Record (EHR) requirements.

1.0 Release Notes

BCER Version 4.0 checks for the minimum level of software version and patches needed to meet 2015 Certified EHR requirements.

It includes the following routines:

- BCERECK4
- BCEROPT

Version 4.0 also includes a menu option called **BCERMENU**. The **BCERMENU** option is used to check whether the site has the required software to meet the 2015 Certified EHR requirements. After the report shows that all software is correctly installed, sites should print a copy of the report for their records.

2.0 Installation Notes

Prefix: BCER

Current Version: 4.0

2.1 Contents of Distribution

Table 2-1: List of distributed files with descriptions

File	Description
bcer0400.k	KIDS install
bcer040i.pdf	Installation Guide and Release Notes
bcer040t.pdf	Technical Manual
bcer040u.pdf	User Manual

2.2 Required Resources

The following patches needs to be installed prior to installing BCER v4.0

- Kernel v8.0 patch 1018 (XU*8.0*1018) or later
- FileMan v22.0 patch 1018 (DI*22.0*1018) or later

3.0 Installation Instructions

In all namespaces where BCER 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 KIDS using Option **1** on the **KIDS Installation** menu.
3. Verify the load using Option **2** on the **KIDS Installation** menu.
4. Install the distribution using Option **6**; the **Install Name** is **BCER 4.0**.
 - a. The installation should take less than five minutes.
 - b. The Menu Trees do not need to be rebuilt.
 - c. Logons do not need to be disabled.
 - d. Scheduled Options, Menu Options, or Protocols do not need to be disabled.
 - e. It is strongly recommended that the output not be queued so that the post-install messages display.
 - f. It is recommended that the terminal output during the installation be captured. This will ensure a printed audit trail if any problems should arise. In addition, if any requirements are missing, a list of missing patches and versions is provided during the installation.

4.0 Sample Installations

4.1 Sample Cache Install

```

Select OPTION NAME: XPD MAIN   Kernel Installation & Distribution System

    Edits and Distribution ...
    Utilities ...
    Installation ...

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 <TEST ACCOUNT> Option: 1 Load a Distribution
Enter a Host File: H:\PATCHES\bcer0400.k

KIDS Distribution saved on Aug 28, 2020@16:41:53
Comment: EHR Certification Checker v4.0

This Distribution contains Transport Globals for the following Package(s):
    BCER 4.0
Distribution OK!

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

    BCER 4.0
Use INSTALL NAME: BCER 4.0 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 <TEST ACCOUNT> Option: 2 Verify Checksums in Transport
Global
Select INSTALL NAME: BCER 4.0           Loaded from Distribution
6/22/20@16:43:47
    => EHR Certification Checker v4.0   ;Created on Aug 28, 2020@16:41:53

This Distribution was loaded on Aug 28, 2020@16:43:47 with header of
    EHR Certification Checker v4.0   ;Created on Aug 28, 2020@16:41:53
It consisted of the following Install(s):
    BCER 4.0

Want each Routine Listed with Checksums: Yes//   YES

```

```

DEVICE: HOME//    VIRTUAL

PACKAGE: BCER 4.0    Aug 28, 2020 6:49 pm    PAGE 1
-----

BCERECK4    Calculated    57608261
BCEROPT     Calculated    1551117

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: 6    Install Package(s)
Select INSTALL NAME: BCER 4.0    Loaded from Distribution
6/22/20@16:43:47
    => EHR Certification Checker v4.0    ;Created on Aug 28, 2020@16:41:53

This Distribution was loaded on Aug 28, 2020@16:43:47 with header of
    EHR Certification Checker v4.0    ;Created on Aug 28, 2020@16:41:53
It consisted of the following Install(s):
    BCER 4.0
Checking Install for Package BCER 4.0

Install Questions for BCER 4.0

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

                                BCER 4.0
-----
Install Started for BCER 4.0 :
    Aug 28, 2020@16:45:58

Build Distribution Date: Aug 28, 2020

Installing Routines:
    Aug 28, 2020@16:45:58

Updating Routine file...

Updating KIDS files...

BCER 4.0 Installed.
    Aug 28, 2020@16:45:58

Not a VA primary domain

NO Install Message sent
    
```

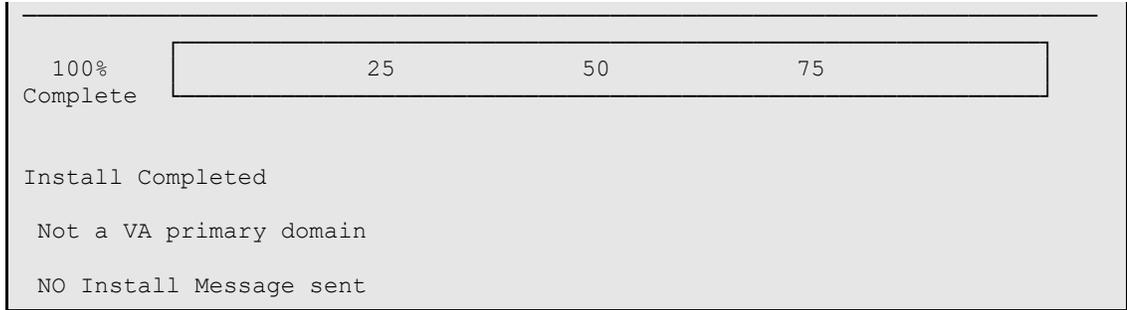


Figure 4-1: Sample installation

5.0 Installation Configuration

This application is an RPMS KIDS build that looks for the minimum required versions and patches needed for the 2015 “Certified EHR.”

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

The **BCERMENU** option can be added to an existing System menu or run directly.

```

Select Menu Management <TEST ACCOUNT> Option: EOP  Edit options

Select OPTION to edit: ADMIN TOOLS          Admin Tools
NAME: ADMIN TOOLS//
MENU TEXT: Admin Tools//
PACKAGE: KERNEL//
OUT OF ORDER MESSAGE:
LOCK:
REVERSE/NEGATIVE LOCK:
DESCRIPTION:
  No existing text
  Edit? NO//
TYPE: menu//
HEADER:
ENTRY ACTION:
EXIT ACTION:
Select ITEM: ADSLICRPT// BCERMENU          Certification Installation Check
  Are you adding 'BCERMENU' as a new MENU (the 13TH for this OPTION)? No//
Y
  (Yes)
  MENU SYNONYM: BCER
  SYNONYM: BCER//
  DISPLAY ORDER: 15
Select ITEM:
CREATOR: ADAM,ADAM//
HELP FRAME: ^

Select OPTION to edit:

Select IHS Kernel <TEST ACCOUNT> Option: 12  Admin Tools

  1      Stop/restart Lab to PCC Transaction Processor
  2      BMXNet Management ...
  3      Background Process Control Menu ...
  4      CIA Broker Main Menu ...
  5      Manage CCDA transmissions
  6      Monitor Taskman
  7      System Status
  8      Restart Task Manager
  9      Stop Task Manager
  10     Display of Programmer Mode Entry List
  11     Build Primary Menu Trees
BCER   Certification Installation Check
ADS     ADS INTERSYSTEMS LICENSE REPORT

```

Figure 5-1: BCER Certification Installation Check option

After installation, run the menu option to see which EHR Certification installations might be missing.

Acronym List

Acronym	Meaning
CHIT	Certified Health IT
EHR	Electronic Health Record
IHS	Indian Health Service
IT	Information Technology
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