



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Certified Electronic Record Checker

(BCER)

Installation Guide and Release Notes

Version 3.0
July 2020

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

It includes the following routines:

- BCERECK3
- BCEROPT

Version 3.0 also includes a menu option called **BCER MENU**. The **BCER MENU** option can be used to check whether all required RPMS software versions and patches have been installed without having to re-install BCER.

2.0 Installation Notes

Prefix: BCER

Current Version: 3.0

2.1 Contents of Distribution

Table 2-1: List of distributed files with descriptions

File	Description
bcer0300.k	KIDS install
bcer030i.pdf	Installation Guide and Release Notes
bcer030t.pdf	Technical Manual
bcer030u.pdf	User Manual

2.2 Required Resources

The 2015 Certified EHR requirements are as follows:

- HealthShare 2017.2.2 or higher
- EHR*1.1*28
- APCL*3.0*32
- APSP*7.0*1025
- BCQM*1.0*6
- BEDD*2.0*5 if your site has installed at least BEDD v1.0
- DI*22.0*1020
- XT*7.3*1019
- XU*8.0*1020

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 select **KERNEL INSTALLATION AND DISTRIBUTION**.
2. Load the KIDS file 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 3.0**.
 - 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.
5. It is recommended to capture the terminal output during the installation. This will ensure a printed audit trail if any problems should arise. Plus if any requirements are missing, a list of missing patches and versions is provided during the installation.
6. Install any missing patches or versions. Use the new menu option, **BCERMENU**, to continue to check until all missing requirements are met. Use the menu option to print out report.
7. Once all requirements are complete, contact your certified health IT (CHIT) consultant or coordinator with the printed report.

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 Option: 1    Load a Distribution

Enter a Host File: H:\PATCHES\BCER0300.K

KIDS Distribution saved on Mar 11, 2020@15:51:53
Comment: EHR Certification Version 3.0

This Distribution contains Transport Globals for the following Package(s):
    BCER 3.0
Distribution OK!

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

    BCER 3.0
Use INSTALL NAME: BCER 3.0 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 3.0    Loaded from Distribution
3/12/20@08:33:28
    => EHR Certification Version 3.0 ;Created on Mar 11, 2020@15:51:53

This Distribution was loaded on Mar 12, 2020@08:33:28 with header of
    EHR Certification Version 3.0 ;Created on Mar 11, 2020@15:51:53
It consisted of the following Install(s):
    BCER 3.0

Want each Routine Listed with Checksums: Yes//    YES
```

```
DEVICE: HOME//    VIRTUAL

PACKAGE: BCER 3.0      Mar 12, 2020 8:33 am                PAGE 1
-----

BCERECK3   Calculated      4720160
BCEROPT    Calculated      1551117

    2 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: BCER 3.0      Loaded from Distribution
3/12/20@08:32:52
    => EHR Certification Version 3.0    ;Created on Mar 11, 2020@15:51:53

This Distribution was loaded on Mar 12, 2020@08:32:52 with header of
    EHR Certification Version 3.0    ;Created on Mar 11, 2020@15:51:53
It consisted of the following Install(s):
    BCER 3.0
Checking Install for Package BCER 3.0

Install Questions for BCER 3.0

Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//

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 BCER 3.0 :
        Mar 12, 2020@08:33:02

Build Distribution Date: Mar 10, 2020

    Installing Routines:
        Mar 12, 2020@08:33:02

    Installing PACKAGE COMPONENTS:

    Installing OPTION
        Mar 12, 2020@08:33:02

    Running Post-Install Routine: ^BCERECK3
```



```

                                Hello, DEMO USER

                                Checking Environment for 2015 Certified Health IT (CHIT) Software
                                Phase 1 - JUNE 2020

                                At Facility 2016 DEMO HOSPITAL

You HAVE patch APCL*3.0*32 installed
You HAVE patch APSP*7.0*1025 installed
You HAVE patch BCQM*1.0*6 installed
You HAVE patch BEDD*2.0*5 installed
You HAVE patch DI*22.0*1020 installed
You HAVE patch EHR*1.1*28 installed
You HAVE patch XT*7.3*1019 installed
You HAVE patch XU*8.0*1020 installed

                                ***You have all the necessary installs needed for CHIT.***

Updating Routine file...

Updating KIDS files...

BCER 3.0 Installed.
                        Mar 12, 2020@08:33:04

Not a VA primary domain

NO Install Message sent
```

Figure 4-1: Sample install

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 requirements.

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

Glossary

None.

Acronym List

Acronym	Term Meaning
CHIT	Certified Health IT
EHR	Electronic Health Record
IHS	Indian Health Service
IT	Information Technology
RPMS	Resource and Patient Management

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