RESOURCE AND PATIENT MANAGEMENT SYSTEM

Certified Electronic Record Checker

(BCER)

Technical Manual

Version 2.0
September 2014

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

Table of Contents

1.0   Introduction

Prefix: BCER

Current Version: 2.0

BCER v 2.0 checks for 2014 RPMS EHR.

The following routines are included in this version:

- BCERECK2

- BCERECKA

- BCERECKB

File	Description
bcer0200.k	KIDS format
bcer020i.pdf	Installation Guide and Release Notes
bcer020t.pdf	Technical Manual
bcer020u.pdf	User Manual

Minimum Requirements

- AG v7.1 patch 11

- AG v7.2 patch 4 (MPI)

- AMER v3.0 patch 5 (hospitals only)

- APCL v3.0 patch 29

- APCM v1.0 patch 5

- APSP v7.0 patch 1017

- AUM v13 patch 4

- AUPN v99.1 patch 23

- AUT v98.1 patch 26

- AVA v93.2 patch 22

- BCCD v1.0

- BCQM v1.0

- BGO v1.1 patch 13

- BHS v1.0 patch 8
- BI v8.5 patch 5
- BJPC v2.0 patch 10
- BMC v4.0 patch 8
- BMX v4.0 patch 3
- BPHR v2.1
- BQI v2.3 patch 3
- BSTS v1.0
- BUSA v1.0
- BXT v1.0
- BYIM v2.0 patch 4
- GMRA v4.0 patch 1007
- GMRC v3.0 patch 1004
- GMRV v5.0 patch 1002
- LR v5.2 patch 1033
- MAG v3.0 patch 131, 140 & 144
- PIMS v5.3 patch 1017
- PXRM v2.0 patch 1002
- RA v5.0 patch 1005
- TIU v1.0 patch 1012
- XWB v1.1 patch 1018
- Ensemble v2012.2.5

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 v8.2 or 7-Zip or Credant2-Go 7.3
- IPSEC (for Windows)
- VanDyke (for AIX)
- WinHasher
- BMW v1.0 patch 2

- HIE v1.0 patch 5

2.0   Orientation

Not applicable.

3.0   Implementation and Maintenance

3.1   General Information

Not applicable.

3.2   System Requirements

None.

3.3   Package-wide Variables

None.

3.4   Security Keys

Key Name	Description
None	n/a

4.0   Menu

Not applicable.

5.0   Routine Descriptions

This section includes a table that lists BCER routines and their descriptions.

5.1   Routines with Description

Routine	Description
BCERECK2	KIDS environment check routine
BCERECKA	Main routine for the EHR checker
BCERECKB	Main routine (part II) for the EHR checker

6.0 Files and Tables

6.1 File List

File #	Filename	Description
None		

6.2 File Access

File #	Filename	GL	RD	WR	LYG	DD	DEL
None							

6.3 Cross References

Not applicable.

6.4 Table File

Field #	Field Name	Subscript	Piece	Type
	Not Applicable			

6.5 File Diagram/Flowchart

Not applicable.

7.0   External Relations

None.

7.1   Callable Routines

Routine Called	Description
None	

7.2   Published Entry Points

Routine	Description
None	

7.3   Exported Options

Option Name	Description
None	

8.0   Internal Relations

None.

9.0   Archiving and Purging

None.

10.0   Documentation Resources

10.1   System Documentation

Online VPS system documentation can be generated through the use of several Kernel options, including, but not limited to:

- %INDEX.
- Menu Management.
- Inquire Option.
- Print Option File.
- VA FileMan.
- Data Dictionary Utilities.
- List File Attributes.

For more option listings and further information about other utilities that supply online technical information, see the Decentralized Hospital Computer Program (DHCP) Kernel Reference manual.

10.1.1   %INDEX

The %INDEX option analyzes the structure of a routine to determine in part, if the routine adheres to RPMS programming standards. The output can include the following components:

- Compiled list of errors and warnings.
- Routine listing.
- Local variables.
- Global variables.
- Naked globals.
- Label references.
- External references.

Running %INDEX for a specified set of routines allows users to discover any deviations from RPMS programming standards that exist, and to see how routines interact with one another (i.e., which routines call or are called by other routines).

To run %INDEX for the VPS system:

At the "Routine(s)?" prompt, type the <<CC>> namespace.

10.1.2   Inquire Option

The Inquire menu management option provides the following information about a specified option:

- Option name.
- Menu text.
- Option description.
- Type of option.
- Lock (if any).

In addition, all items on the menu are listed for each menu option. To secure information about <<RPMSpackage>> options, specify the << >> namespace.

10.1.3   Print Option File

The Print Option File utility generates a listing of options from the Option file (#19). Users can print all of the entries or a single option or range of options.

10.1.4   List File Attributes

This VA FileMan option allows users to generate documentation pertaining to files and file structure. The standard format of this option provides the following data dictionary information for a specified file:

- File name and description.
- Identifiers.
- Cross-references.
- Files pointed to by the file specified.
- Files that point to the file specified.
- Input, print, and sort templates.

In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description.
- Global location.
- Help prompt.
- Cross-references.
- Input transform.
- Date last edited.

- Notes.

Using the Global Map format of this option generates an output that lists the following information:

- All cross-references for the file selected.

- Global location of each field in the file.

- Input, print, and sort templates.

For a comprehensive listing of <<package name>> files, see Section 6.0.

10.2   Online Help

In addition to system documentation, RPMS includes special help displays for most menu options and data entry prompts. Typing a question mark (**?**) at the "Select . . . Option" prompt displays information related to the current option, where:

Typing:	Displays:
One question mark (?)	A list of all options accessible from the current option.
Two question marks (??)	A list of all accessible options and their formal names
Three question marks (???)	A brief description for each option in a menu.
One question mark (?) Followed by an option name (?OPTION)	Extended help, if available, for that option

11.0   SAC Requirements/Exemptions

None.

Acronym List

BCER	Certified Electronic Record Checker
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: (888) 830-7280 (toll free)

Web: http://www.ihs.gov/helpdesk/

Email: support@ihs.gov