



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Referred Care Information Systems/EHR Component

(BMC)

Installation Guide and Release Notes

Version 4.0 Patch 12 January 2018

Office of Information Technology Division of Information Resource Management

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1.0 Installation Notes

Prefix: BMC

Current Version: 4.0 Patch 12

1.1 Contents of Distribution

Table 1-1: Contents of distribution - files and descriptions

File	Description
IHSReferredCare.PatientReferral.vor	Object File for Referral tab (EHR)
IHSReferredCare.Referral.vor	Object File for RCIS tab (EHR)
IHSReferredCare.PatientReferral.dll	DLL file (EHR)
IHSReferredCare.Referral.dll	DLL file (EHR)
bmc_0400.12k	KIDS build for BMC v4.0 patch 11 (RPMS)
bmc_0400.12n	Notes File for BMC v4.0 patch 11 (RPMS)
bmc_0400.12i.pdf	Install Guide for EHR component
bmc_0400.12o.pdf	Addendum to User Manual

1.2 Required Resources

- REFERRED CARE INFO SYSTEM v4.0
- VA FileMan v22 or higher
- VA Kernel v8 or higher
- IHS Patient Registration (AG) v7.1 patch 11
- IHS Dictionaries (Pointers) (AUPN) v99.1 patch 16
- Taxonomy Package V 5.1 patch 5
- IHS Dictionaries (Pointers) (AUT) v98.1 patch 26
- Lexicon (LEX) v2.0 patch 1003
- IHS ICD/CPT Lookup & Grouper (AICD) v4.0
- Order entry (OR) v3.0 Patch 190
- IHS Standard Terminology (BSTS) v1.0

If using PCC:

• IHS PCC SUITE (BJPC) v2.0 patch 10

If using EHR:

• EHR (BGO) v1.1 patch 13

1.3 Before You Begin: Installation Issues

All EHR and Resource and Patient Management System (RPMS) users should be logged off the system during the installation process.

Installation will require administrator access to the VueCentric System Management Utility (VcManager).

Notes: If you have already installed the RCIS components in EHR at your site and are now installing a patch or updated version, refer to Section 2.1 in this manual for instructions.

If you are installing the RCIS component in EHR for the first time at your site, refer to Section 2.2 of this manual for full installation instructions.

2.0 Installation Instructions

2.1 EHR-Referred Care Component – Existing Install

The EHR installation procedure includes these two stages:

- 1. Adding two .dll files to the lib folder on the EHR network share:
 - a. IHSReferredCare.PatientReferral.dll
 - b. IHSReferredCare.Referral.dll
- 2. Importing two .vor files to VueCentric Object Registry:
 - a. IHSReferredCare.PatientReferral.vor
 - b. IHSReferredCare.Referral.vor

Note: For Citrix and Terminal Server setups, ensure that the shared files on the server are updated. Desktop setups will need the local files updated on each workstation.

2.1.1 Stage 1–DLL Files

Copy the two .dll files into the EHR lib folder on the main EHR network share.

- IHSReferredCare.PatientReferral.dll
- IHSReferredCare.Referral.dll

Note: Verify that the .dll files are placed in the same folder as defined in the VueCentric Site Parameters for the Default object source path.

2.1.2 Stage 2–VOR Files

1. Open VcManager.exe located in EHR\bin or EHR\utl folder.

💸 VueCentric System Management	[161.223.92.251 - TEHR]	
File Help		
About Object Registry Template Registry	Site Parameters Shutdown Monitor	
Objects (132):		
BEHALERTS.ALERTS BEHALLERGIES.ALLERGIES BEHARTENTRY.ARTENTRY BEHCOMMUNITYINFO.COMMUNITYINF BEHCONSULTORDERS.CONSULTORDE BEHCONSULTS.CONSULTS BEHCONSULTS.CONSULTS BEHCONSULTS.CONSULTS BEHCONSULTS.CONSULTS BEHCONSULTS.CONSULTS BEHCONSULTS.CONSULTS BEHCONSULTS.CONSULTS BEHCRISES.CRISES BEHCWAD.CWAD BEHDCSUMM.DCSUMM BEHDICTATE.DICTATE BEHDOSINGCALC.DOSINGCALC BEHENCOUNTERINFO.ENCOUNTERINF BEHESIGREVIEW.REVIEW BEHESIGREVICE.ESIGSERVICE BEHMCSEPORT HSBEPORT	<<<<< Select an object in the left pane	
Restrict List To:		
■ VueCentric Registry		
⊞ Local Registry		
Refresh All		

Figure 2-1: VcManager window

- 2. Select the **Object Registry** tab.
- 3. For each of the following, select the object name and click the **Delete** button in the right pane. This will remove the objects from the previous install.
 - a. IHSReferredCare.PatientReferral
 - b. IHSReferredCare.Referral
- 4. Click the **Refresh All** button to confirm that the two objects have been removed.
- 5. Go to **File** | **Import**.
- 6. Select the new **IHSReferredCare.PatientReferral.vor** file and click **Open** to import. Click **Apply** to confirm the changes.

😵 VueCentric System Management [161.223.92.251 - TEHR]	
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About Object Registry Template Registry Site Parameters Shutdown Monitor	
Objects (132):	
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BEHCWAD.CWAD	
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BEHESIGEREVICE.E	
Bestrict List To:	
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My Documents	
My Lomputer	
File name:	
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My Network Files of type: Ubject Hegistration File (".vor)	

Figure 2-2: Import Object Registration window

- 7. To verify that no Checksum errors occur, click the **Retrieve** button, which is located next to the **Apply** button.
- 8. The window shown in Figure 2-3 will display if the import steps were completed successfully. You can click the **Cancel** button to close the window.

2	Select Tar	get Folder	_ □	x
Desktop	s strator k			
		OK	Can	cel

Figure 2-3: Select Target Folder window

9. Repeat steps 5–8 with the **IHSReferredCare.Referral** file.

2.1.3 Fixing Checksum Errors

If you see a **File checksum invalid** error message in a pop-up alert (Figure 2-4) after performing the steps in the previous section, follow the steps below to correct the error.



Figure 2-4: Checksum error message

- 1. Close and restart the VcManager.
- 2. Select the **Object Registry** tab.

WueCentric System Management [10.	.154.33.231 - CMBA]
File Help About Object Registry Template Registry Objects (159): IHSBGOSUPERBILL.BGOSUPERBILL IHSBGOTRIAGE.BGOTRIAGE IHSBGOVPT.BGOVPOV IHSBGOVPOV.BGOVPOV IHSBGOVPOV.BGOVPOV IHSCMDAO.SERVER IHSREFERREDCARE PATIENTREFERR IHSREFERREDCARE PATIENTREFERR IHSREFERREDCARE PATIENTREFERR IHSREFERREDCARE PATIENTREFERR IHSREFERREDCARE PATIENTREFERR IHSREFERREDCARE PATIENTREFERR IHSREFERREDCARE SET INDIANHEALTHSERVICE.BEH.POCLAB.I IS_FETCH_SERVICE.IS_FETCH PVNUMERIC.PVNUMERIC.1 VCBROADCAST.BROADCAST VCCHATSERVICE.CHATSERVICE VCDATE.VCDATES VCEXPLORED EXPLORER	Site Parameters Shutdown Monitor COM Registration Programmatic ID: IHSREFERREDCARE.PATIENTREFERRAL.PATIENTREFERRALVIEW Copy Version: Source: IHSReferredCare.PatientReferral.dll Unregister VueCentric Settings General Info Technical Info Pronerty Initializations Denendencies: Benuired Files: Security General Settings Special Settings Categories Serializable Properties Source: IHSReferredCare.PatientReferral.dll IName: Intervention of the Interv
IV/CIMAGE IMAGEX Restrict List To:	Class ID: {686D0599-841E-43EB-9BF8-52B51D842244} Checksum: DEFDE65A6A6B18F2CB706D7B2AFB67EE Version: Height: Width: 3.0.0.9
Refresh All	Refresh Apply Delete Retrieve Print

Figure 2-5: Object Loaded in VcManager

- 3. Go to **File** | **Import**.
- 4. Select the IHSReferredCare.PatientReferral.vor file and click Open to import.
- 5. Click the **Copy** button once. Verify that the Checksum value updates when you click the **Copy** button. If the **Checksum** field becomes empty, repeat the steps in this section.
- 6. Click **Apply** to save the information.
- 7. Repeat steps 3–6 for the **IHSReferredCare.Referral.vor** file.
- 8. Close the VcManager application when complete.

2.2 EHR-Referred Care Component – First Time Install

The EHR installation procedure includes these three stages:

1. Adding two .dll files to the lib folder on the EHR network share

a. IHSReferredCare.PatientReferral.dll

b. IHSReferredCare.Referral.dll

2. Importing two .vor files to VueCentric Object Registry

a. IHSReferredCare.PatientReferral.vor

b. IHSReferredCare.Referral.vor

3. Modifying Provider template to add two referral components

Note: For Citrix and Terminal Server setups, ensure that the shared files on the server are updated. Desktop setups will need the local files updated on each workstation.

2.2.1 Stage 1–DLL Files

Copy the two .dll files into the EHR lib folder on the main EHR network share.

- IHSReferredCare.PatientReferral.dll
- IHSReferredCare. Referral.dll

Note: Verify that the .dll files are placed in the same folder as defined in the VueCentric Site Parameters for the Default object source path.

2.2.2 Stage 2–VOR Files

1. Open VcManager.exe located in EHR\bin or EHR\utl folder.



Figure 2-6: VcManager Screen

Installation Instructions

- 2. Select the **Object Registry** tab.
- 3. Go to **File** | **Import**.
- 4. Select IHSReferredCare.PatientReferral.vor and click Open to import.



Figure 2-7: Select Import Object screen

5. Click **Apply** to save the information.

🞇 VueCentric System Management [10).154.33.231 - CMBA]
File Help	
About Object Registry Template Registry	Site Parameters Shutdown Monitor
Objects (159):	COM Registration Programmatic ID: IHSREFERREDCARE.REFERRALVIEW Copy Version: Source:
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Refresh All	Refresh Apply Delete Retrieve Print

Figure 2-8: Object Loaded view in VcManager

- 6. Repeat the Import (steps 3–5) for the **IHSReferredCare.Referral.vor** file.
- 7. Close the VcManager application when complete.

2.2.3 Stage 3 – Provider Template

- 1. Open the EHR application and log in.
- 2. Right-click the header to display a context menu.
- 3. Select **Design Mode** (see Figure 2-9).

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4. Select the Layout Manager from the Design menu (Figure 2-10).

Installation Instructions

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5. Select **Tabbed Notebook** and click **Properties**.

Figure 2-10: Design menu: Layout Manager

6. Select the **Tab Editor** and add a new tab named **RCIS**. Click **OK**.

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	MULTILINE	
	REVERSETABS	
	TABPOSITION	
	TABSTYLE	
	Tab Editor	
	Tab Editor Allows creation, deletion, and modification of tabs. OK Cancel Apply	
SHAFIQ,IMRAN DEMO.OKLAHOMA.IHS.GOV DEMO.INDIAN.HOSPITAL	Design Mode 14Mar 2011 11.28	

Figure 2-11: EHR Design Mode - Create new RCIS tab

7. To add an object to the new **RCIS** tab, click **Add** (+) and expand the **Type** | **Object list** (Figure 2-12).

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8. Select the **ReferralView** object from the list and click **Add**.

Figure 2-12: EHR Designer Mode-Add ReferralView object to RCIS tab

9. Open the properties for **ReferralView** and select **Align–All** to expand the component inside the **RCIS** tab.

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Figure 2-13: EHR Designer Mode–Align Setting in Object Properties

- 10. Return to the **Layout Manager** to add another new tab under the **Patient Chart** tab.
- 11. Open the properties for the Tabbed Notebook located under Patient Chart.

Installation Instructions

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Figure 2-14: EHR Designer Mode – Layout Manager Close-up

12. Use the **Tab Editor** to add a new tab named **Referrals** and click **OK**.

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Figure 2-15: EHR Designer Mode-Add tab to Patient Chart

13. Add an **Object** to the new **Referrals** tab and select the **PatientReferral** object (see Steps 7–8).

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Figure 2-16: EHR Designer Mode-Add PatientReferral object to Referrals tab

- 14. Select **Align–All** in the **PatientReferral** properties to expand the component inside the **Referrals** tab (See Figure 2-13)
- 15. Save the design to the **Provider** template. The **Provider** template is generally titled **%Provider**.

er Design Patient	Tools Help																
Patient Chart	Communicatio	n BP	15	CIHA Intranet	1	Micromedex		E-Mail	RC	15							
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Figure 2-17: EHR Designer Mode–Save As screen for Provider template

3.0 Installation Verification

- 1. Log in to EHR as a Provider.
- 2. The **RCIS** tab should show referrals authored by the currently logged-in provider (Figure 3-1).

User Patient Refre PRIVACY	sh Data Tools I	Help eSig Cle ATIENT CHART	ar Cle	ar and Lock	Community Aler SOURCES	ts Do	ising Calc	ulator Rx Print Se RCIS	tings Imag	jing ECT WebMail			
Edit Referral Clinic	al Consultation Pr	int Referral											
Referral Date From	Sunday , Octobe	r 23, 2016 🗐 🖛	To	Monday .	October 23, 2017	•	Status	Active/Approve 👻	Provider	•	Show All		
Patient Name	Referral Date	Purpose			Referring Pro-	vider	Re	eferral Number	Status	Facility Referred To	Appointment Date/Time	Clinical Consulta	Printed By
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	OCT 09, 2017	Bum					20	21011600063	ACTIVE				

Figure 3-1: RCIS tab window

- 3. Go to the **Patient Chart** tab.
- 4. Select a patient.
- 5. The **Referrals** tab under **Patient Chart** should display the referrals for the patient as in Figure 3-2.

leferral Date F	rom Sunday , October 23, 2016	To Monday .	October 23, 2017 🗐 =	Status Act	tive/Approve -				
Referral Date	Purpose	Referring Provider	Referral Number	Status	Facility Referred To	Appointment Date/Time	Clinical Consulta	Printed By	Print Date



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: https://www.ihs.gov/helpdesk/

Email: <u>support@ihs.gov</u>