RESOURCE AND PATIENT MANAGEMENT SYSTEM

Referred Care Information Systems

(BMC)

Installation Guide & Release Notes

Version 4 Patch 8
September 2014

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

Table of Contents

1.0   Installation Notes

Prefix: BMC

Current Version: 4.0 Patch 8

1.1   Contents of Distribution

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_0400.08k	KIDS build for BMC v4.0 patch 8 (RPMS)
bmc_0400.08n	Notes File for BMC v4.0 patch 8 (RPMS)
bmc_0400.08i.pdf	Install Guide
bmc_0400.08o.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

- IHS ICD/CPT Lookup & Grouper (AICD) v3.51 patch 7

- 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).

> **Note**: 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.
> 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 2.3 in this manual for instructions.

2.0   Installation Instructions

2.1   KIDS Distribution

1. Load the Distribution into Kernel Installation and Distribution System (KIDS) using **Option 1** on the **KIDS Installation menu**. The distribution was released in a file named bmc_0400.08k.

2. Verify the load using **Option 2** on the **KIDS Installation menu**.

3. Consider using **Options 3** and **4** on the **KIDS Installation menu** to print and compare the Transport.

4. Install the distribution using **Option 6** on the **Installation menu**.

5. For results, read the generated MailMan message, or use the KIDS Install File Print option to view/print the BMC*4.00*8 entry.

6. The post-install routine, BMC4P8, will deliver a patch installation mail message to local users that hold the BMCZMENU, XUMGR, XUPROG, or XUPROGMODE security key.

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.
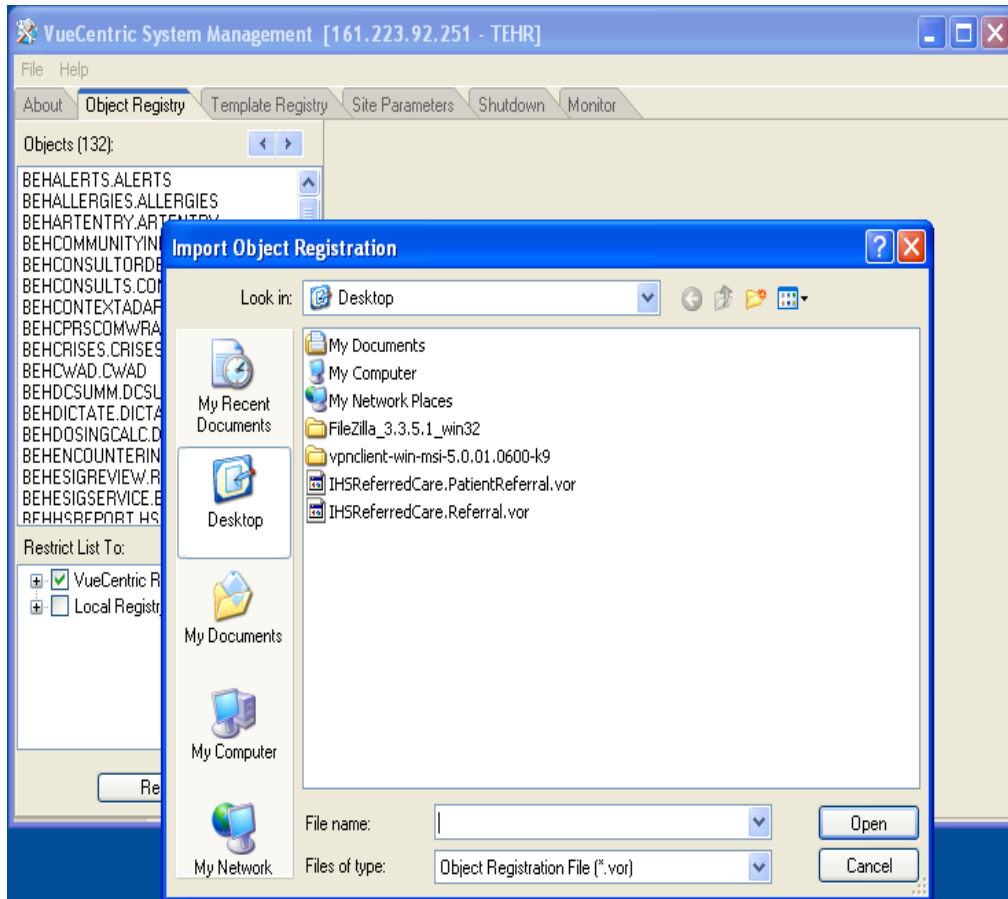
–   IHSReferredCare.PatientReferral.dll

–   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\util folder.

Figure 2-1: VcManager Screen

2. Select the **Object Registry** tab.

3. Go to **File** | **Import.**

4. Select **IHSReferredCare.PatientReferral.vor** and click **Open** to import.

Figure 2-2: Select Import Object screen

5. Click **Apply** to save the information.
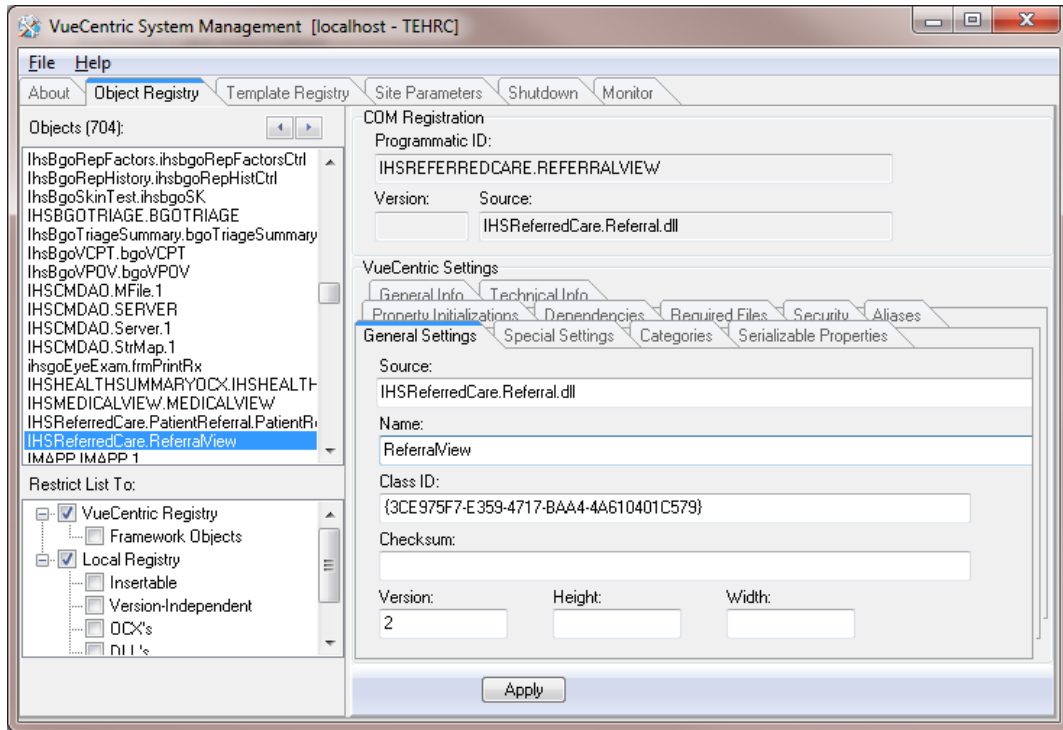
Figure 2-3: Object Loaded view in VcManager

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.
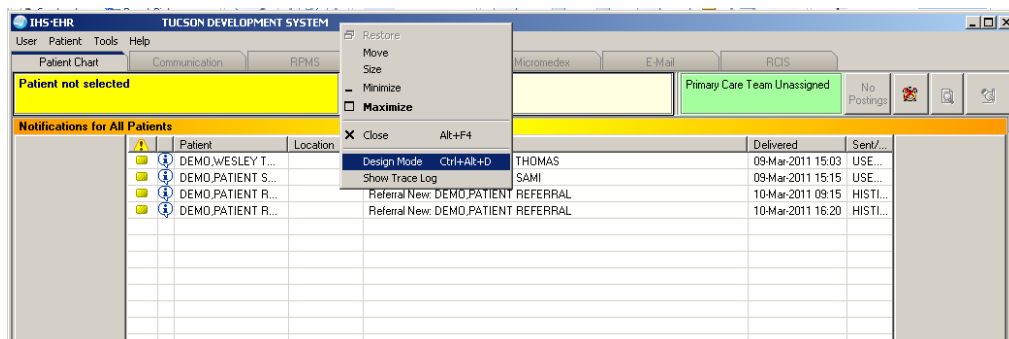
3. Select **Design Mode** (see Figure 2-4).

Figure 2-4: **Design Mode** option

4. Select the **Layout Manager** from the **Design** menu (Figure 2-5).

5. Highlight **Tabbed Notebook** and click **Properties**.
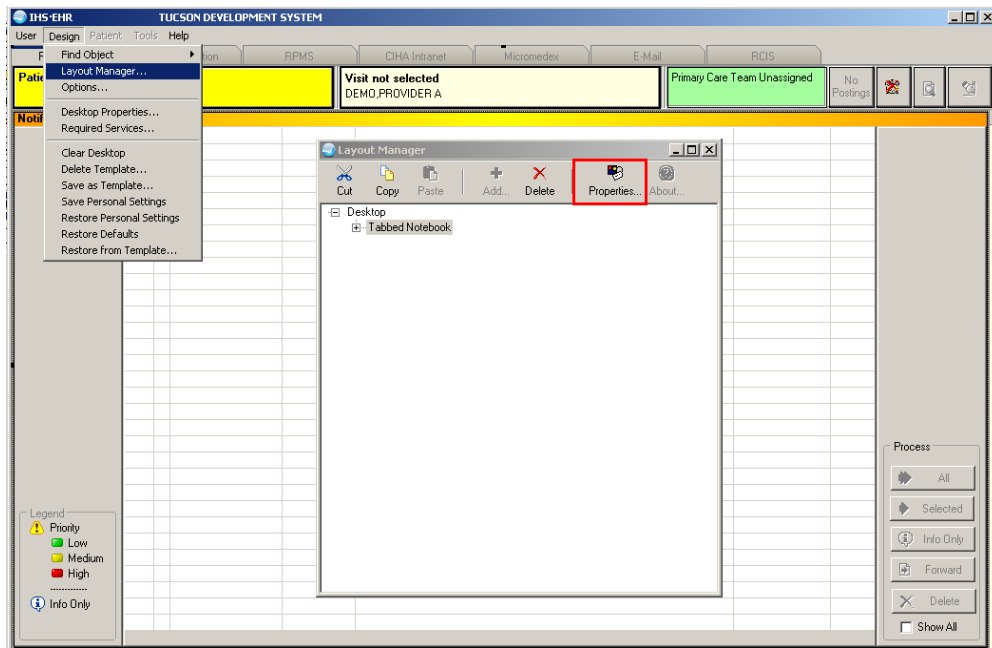
Figure 2-5: **Design** menu: **Layout Manager**

6. Select the **Tab Editor** and add a new tab named **RCIS**. Click **OK**.
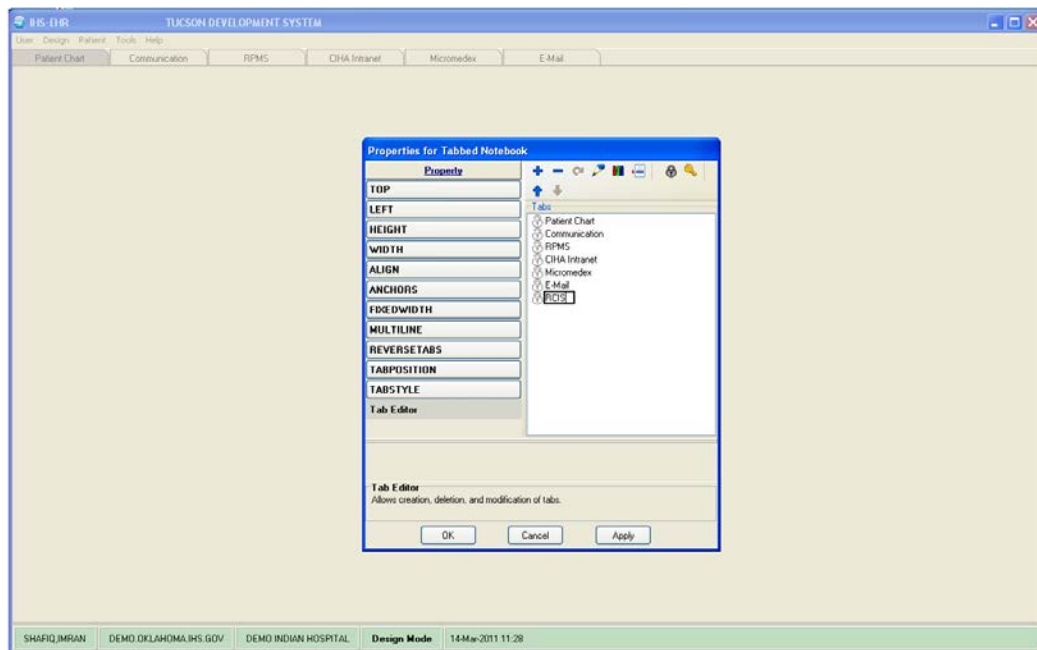
Figure 2-6: EHR Designer Mode–Create new RCIS tab

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

8. Select the **ReferralView** object from the list and click **Add**.
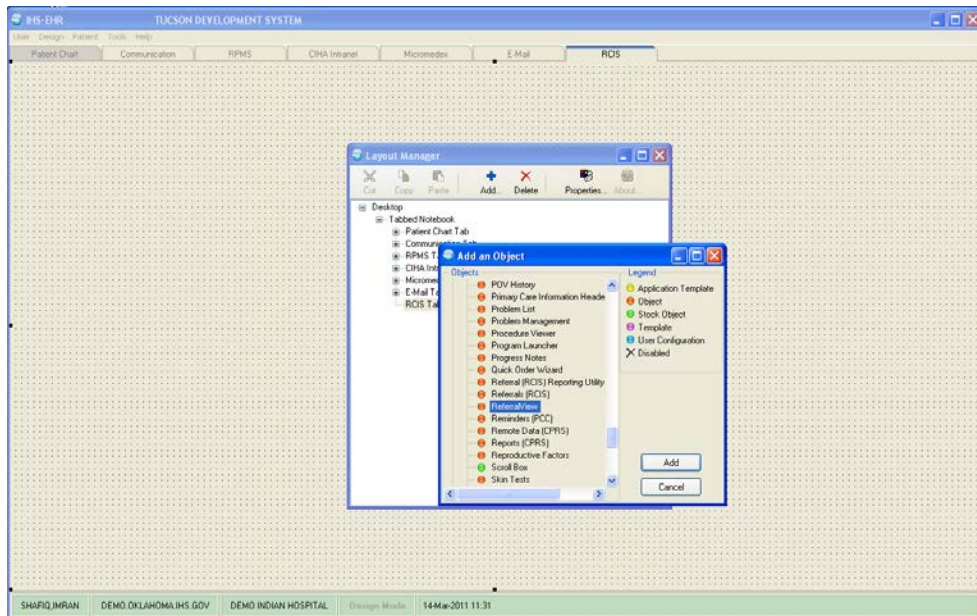
Figure 2-7: EHR Designer Mode–Add ReferralView object to **RCIS** tab

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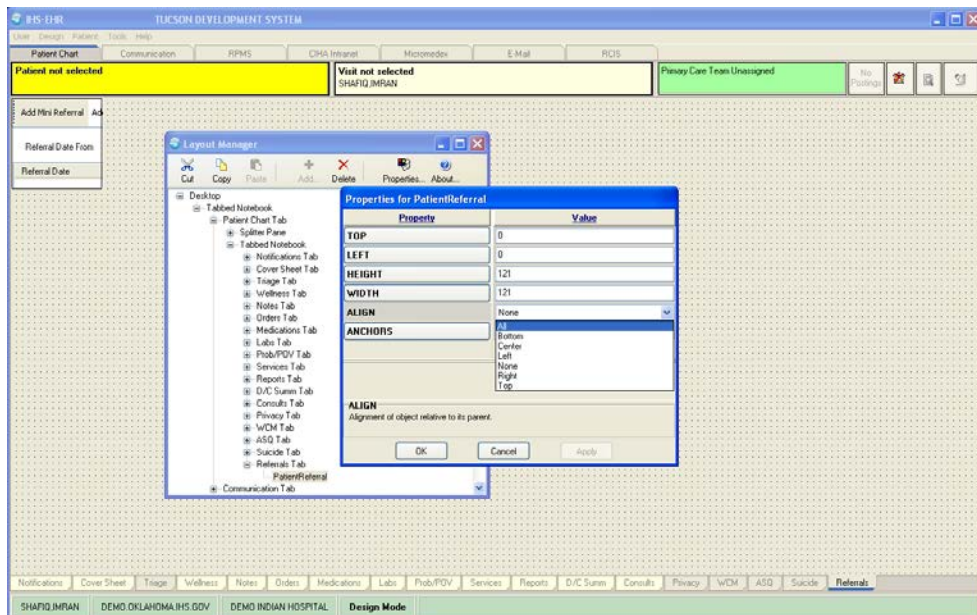   component inside the **RCIS** tab.

Figure 2-8: EHR Designer Mode–Align Setting in Object Properties

10. Return to the **Layout Manager** to add another new tab under the **Patient Chart** tab.

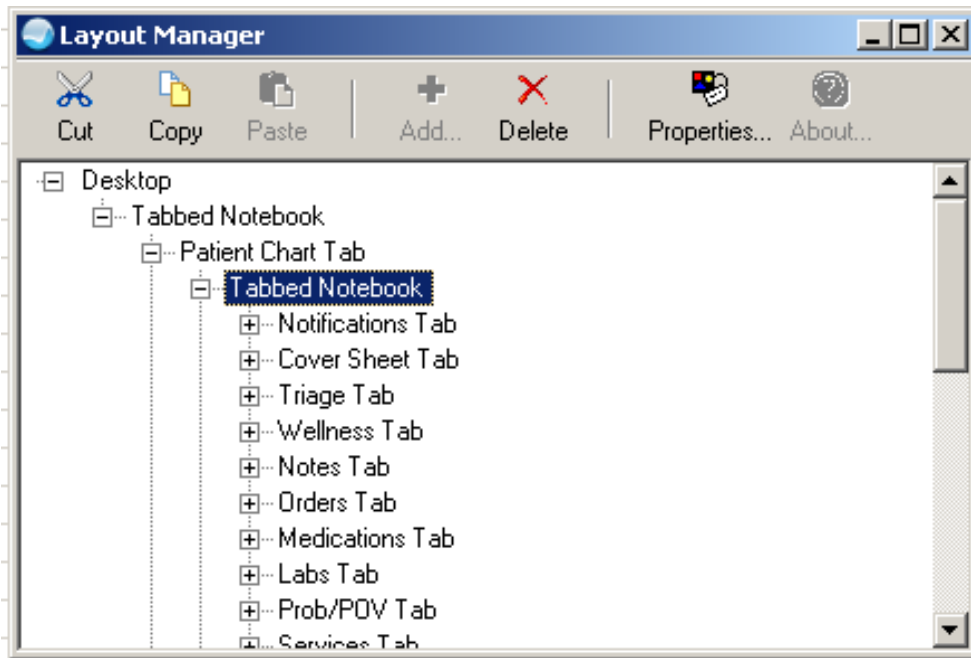11. Open the properties for the **Tabbed Notebook** located under **Patient Chart**.

Figure 2-9: EHR Designer Mode–**Layout Manager** Close-up

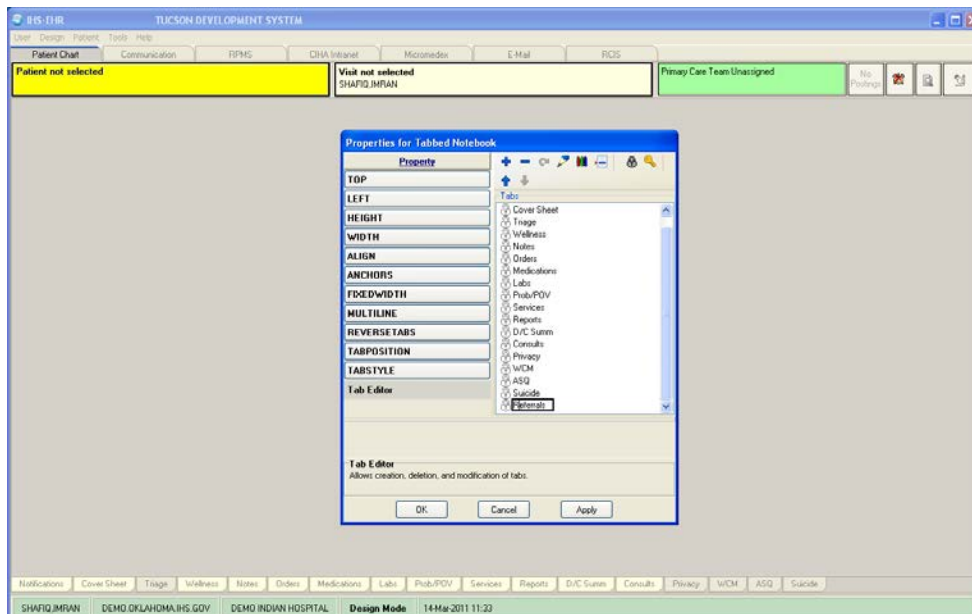12. Use the Tab Editor to add a new tab named **Referrals** and click **OK**.

Figure 2-10: 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).
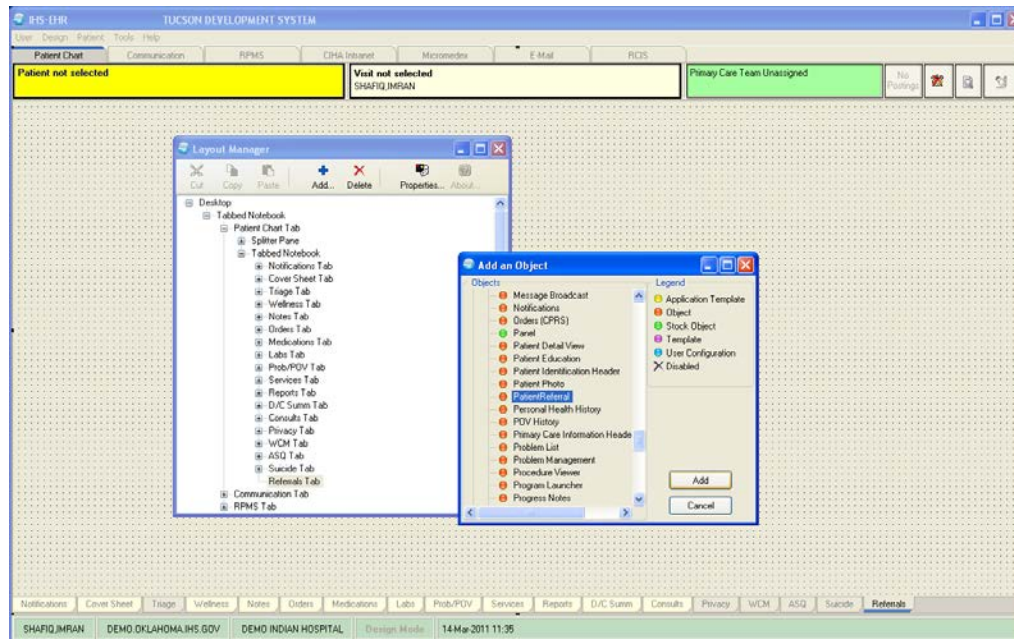

Figure 2-11: EHR Designer Mode–Add **PatientReferral** object to **Referrals** tab

14. Select **Align–All** in the **PatientReferral** properties to expand the component inside the **Referrals** tab (See Figure 2-8)

15. Save the design to the Provider template. The Provider template is generally titled **%Provider**.
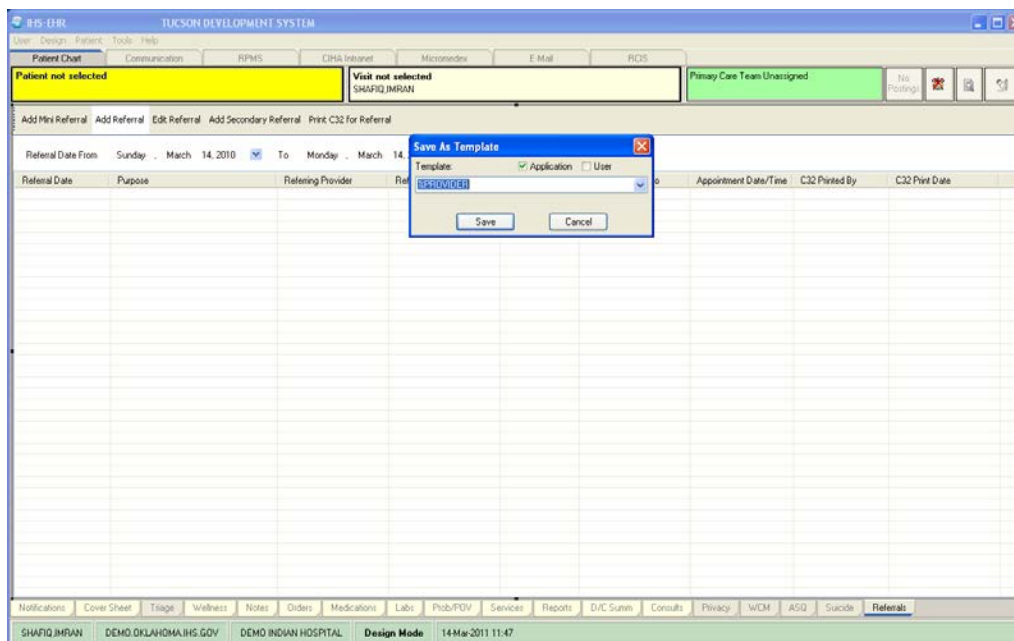
Figure 2-12: EHR Designer Mode–Save As screen for Provider template

2.3   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.

2.3.1   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.

2.3.2   Stage 2–VOR Files

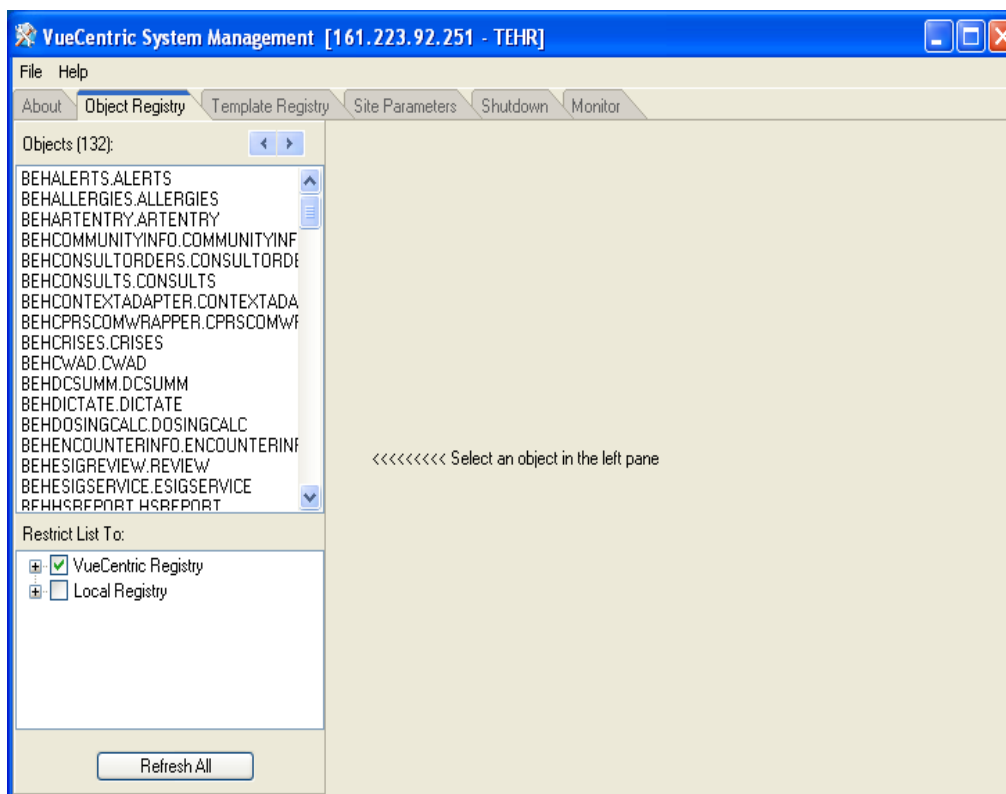1. Open VcManager.exe located in EHR\bin or EHR\util folder.

Figure 2-13: VcManager Screen

2. Select the **Object Registry** tab.

3. For each of the following, select the object name and click **Delete** in the right-pane. This is to remove the objects from the previous install.

   a. **IHSReferredCare.PatientReferral**

   b. **IHSReferredCare.Referral**

4. Click **Refresh All** 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.
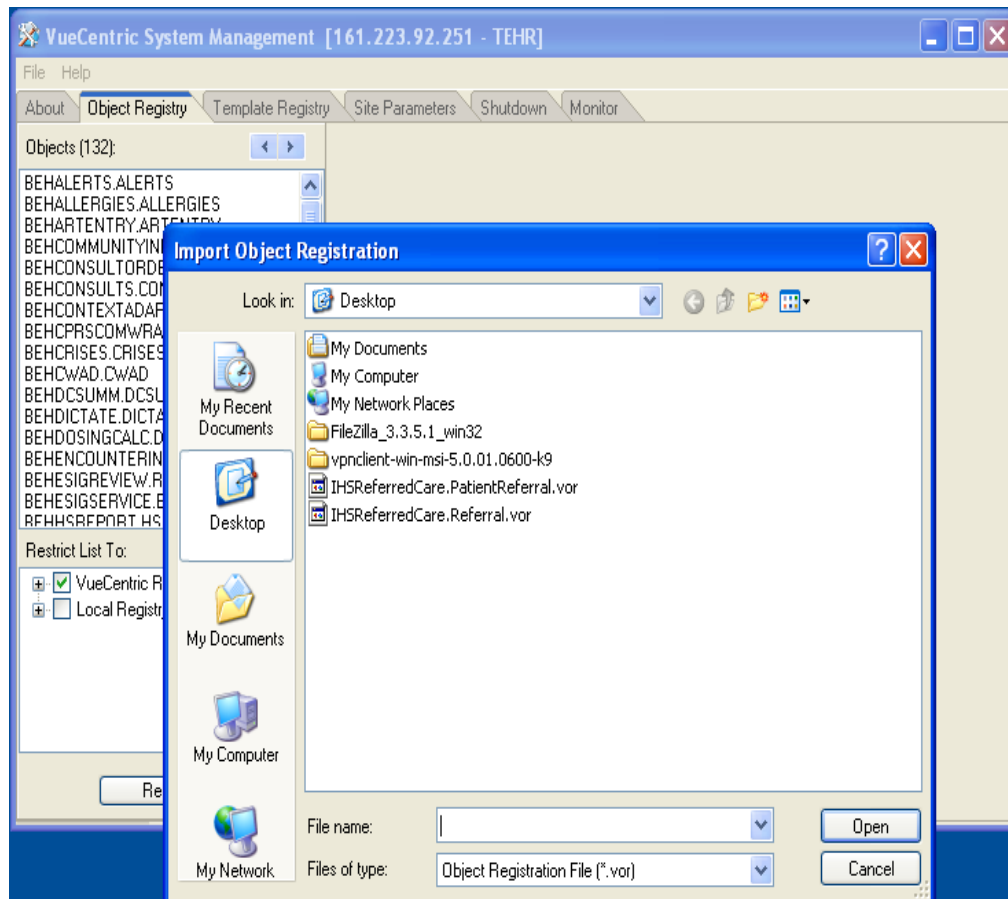

Figure 2-14: Select Import Object screen

7. To verify that no Checksum errors occur, click **Retrieve** which is located next to the **Apply** button.

8. The window shown in Figure 2-15 will display if the import steps was completed successfully. You can then click **Cancel** to close the window.
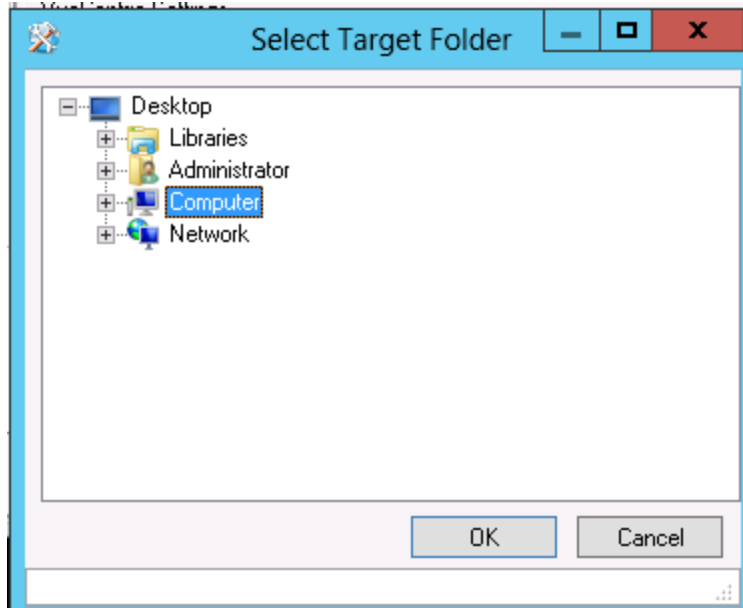
Figure 2-15: **Select Target Folder** screen

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

2.3.3   Fixing Checksum Error

If you see a 'File checksum invalid' error message in a pop-up alert (Figure 2-15: Checksum error message) after performing the steps in the previous section, then follow the steps below to correct the error.
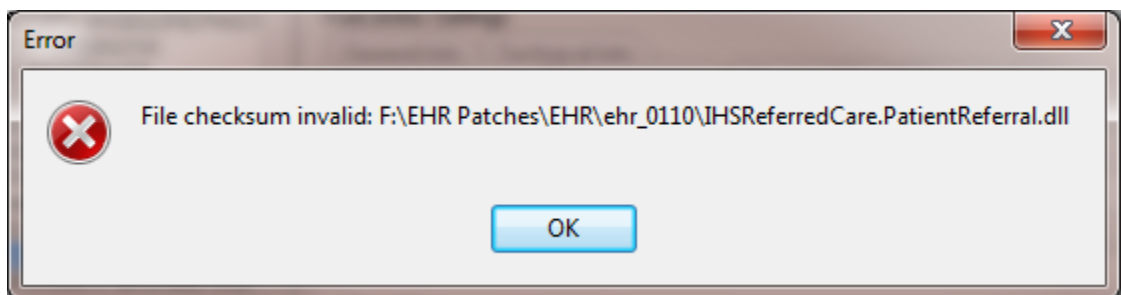

Figure 2-16: Checksum error message

1. Close and restart the VcManager.

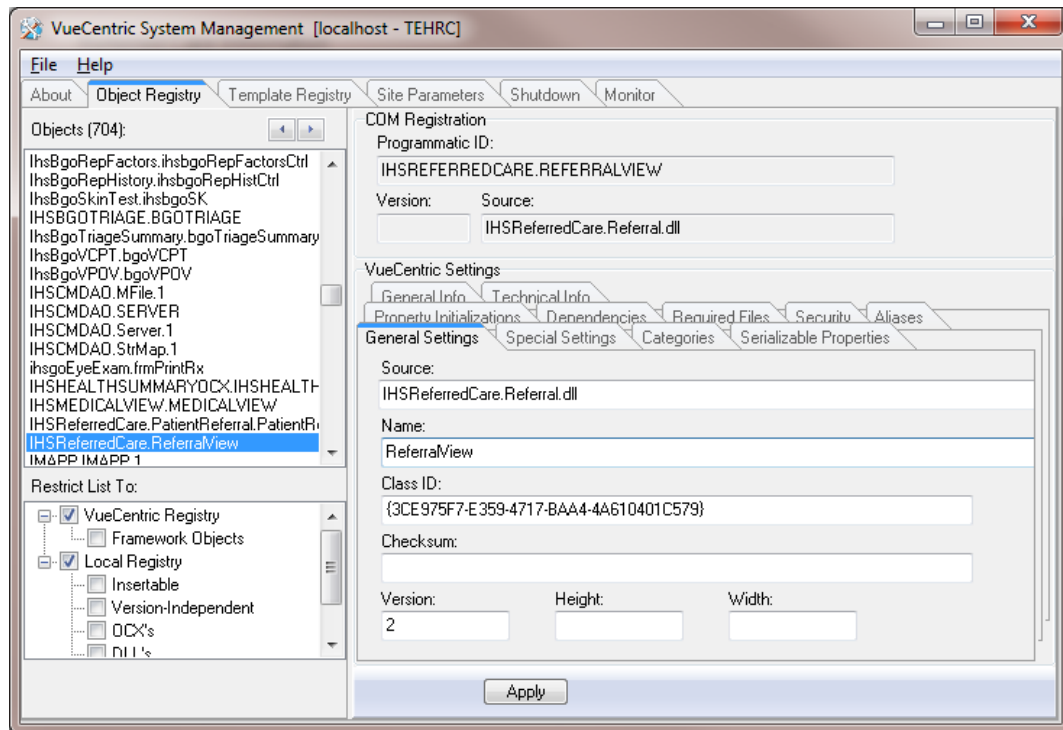2. Select the **Object Registry** tab.

Figure 2-17: Object Loaded view in VcManager

3. Go to **File | Import**.

4. Select the **IHSReferredCare.PatientReferral.vor** file and click open to import.

5. Click **Copy** 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 the steps 3-6 for the **IHSReferredCare.Referral.vor** file.

8. Close the VcManager application when complete.

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 (see below).
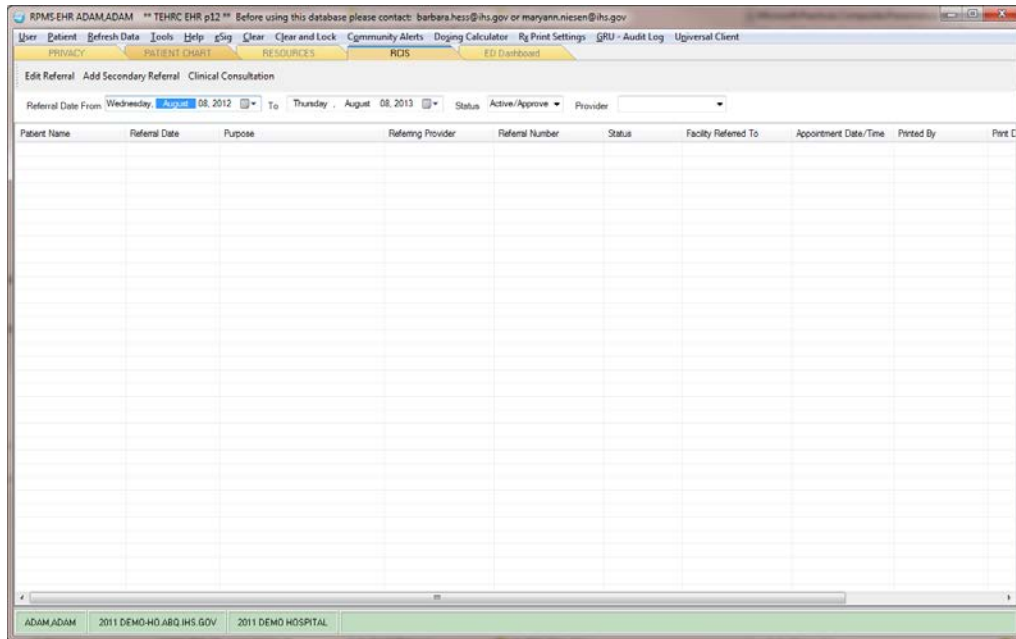

Figure 3-1: **RCIS** tab window

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 shown in Figure 3-2.
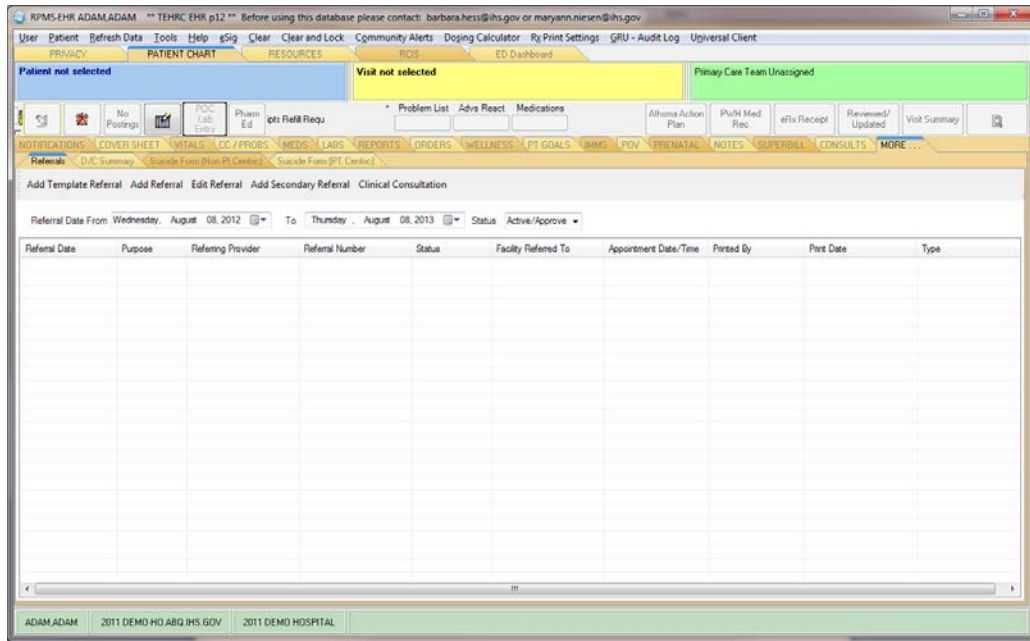
Figure 3-2: **Referrals** tab under **Patient Chart**

Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Helpdesk (IHS).

Phone: (888) 830-7280 (toll free)

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

Email: support@ihs.gov