



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Referred Care Information System/EHR Component**

(BMC)

## **Installation Guide and Release Notes**

Version 4 Patch 13  
June 2018

Office of Information Technology  
Division of Information Resource Management

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## 1.0 Installation Notes

**Prefix:** BMC

**Current Version:** 4.0

### 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_0400.13k	KIDS build for BMC v4.0 patch 13 (RPMS)
bmc_0400.13n	Notes File for BMC v4.0 patch 13 (RPMS)
bmc_0400.13i.pdf	Install Guide for EHR component

### 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 13
- IHS Dictionaries (Pointers) (AUPN) v99.1 patch 26
- 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

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 the site has already installed the RCIS components in EHR and is now installing a patch or updated version, refer to Section 2.1 in this manual for instructions.

If this is the first installation of the RCIS component in EHR at the site, refer to Section 2.1 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.



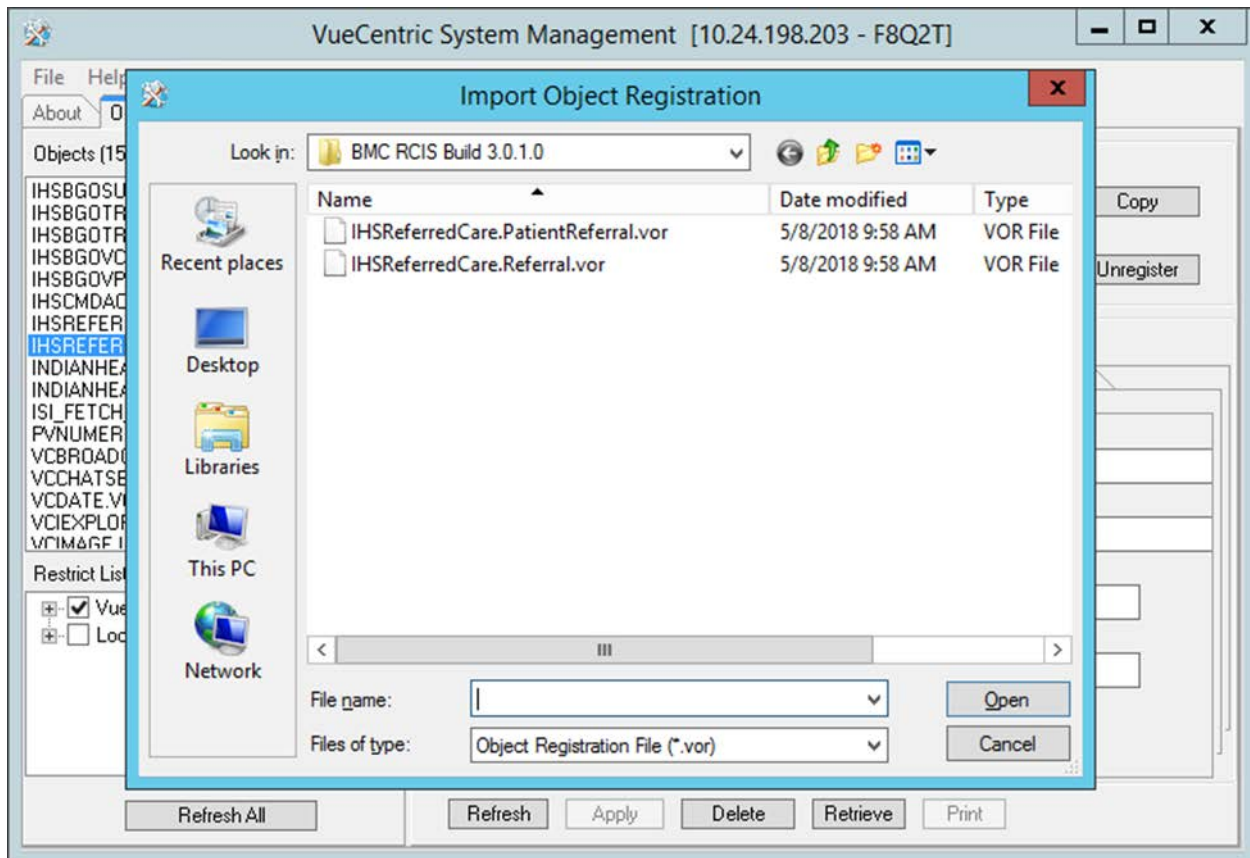


Figure 2-2: Select Import Object dialog

7. To verify that no Checksum errors occur, click the **Retrieve** button.
8. The dialog shown in Figure 2-3 will display if the import steps was completed successfully. Click **Cancel** to close the window.

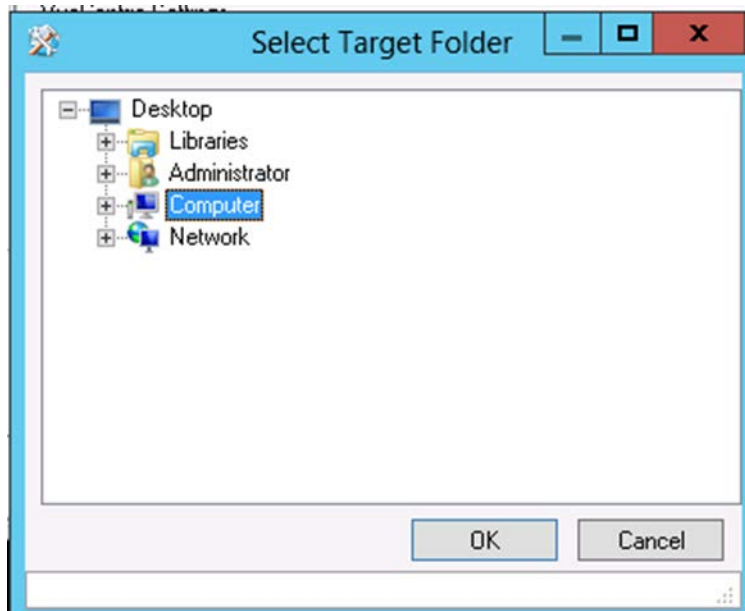


Figure 2-3: Select Target Folder dialog

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

### 2.1.3 Fixing Checksum Error

If a File checksum invalid error message (Figure 2-4) displays after performing the steps in the previous section, then follow the steps below to correct the error.

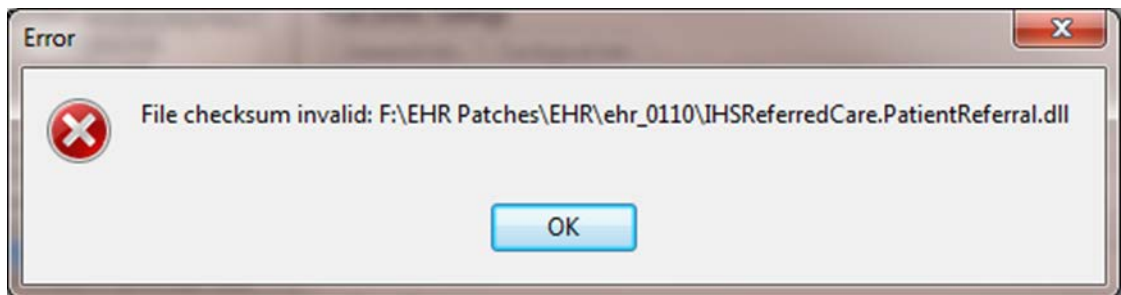


Figure 2-4: Error message

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



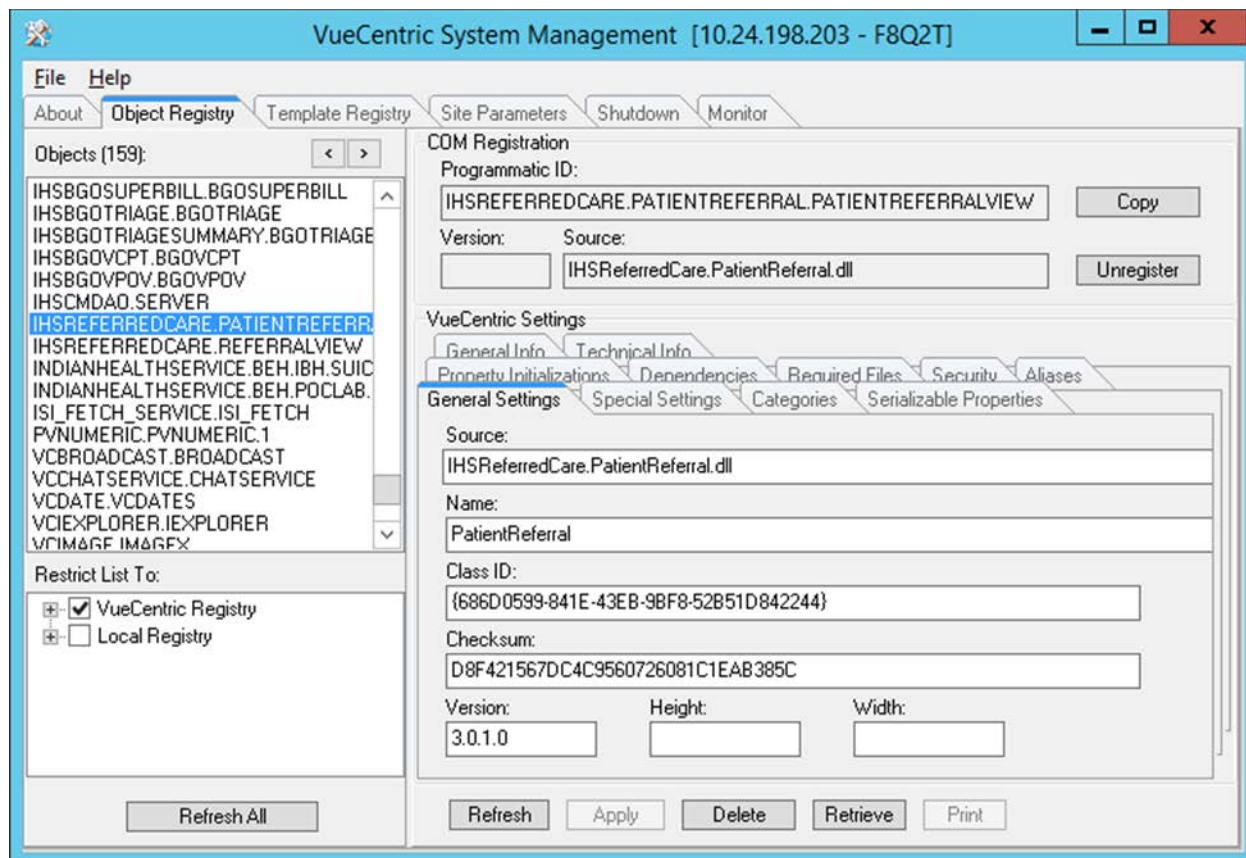


Figure 2-5: Object loaded view in VcManager

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 after clicking 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.

## 2.2 EHR-Referred Care Component – First Time Install

The EHR installation procedure includes 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.



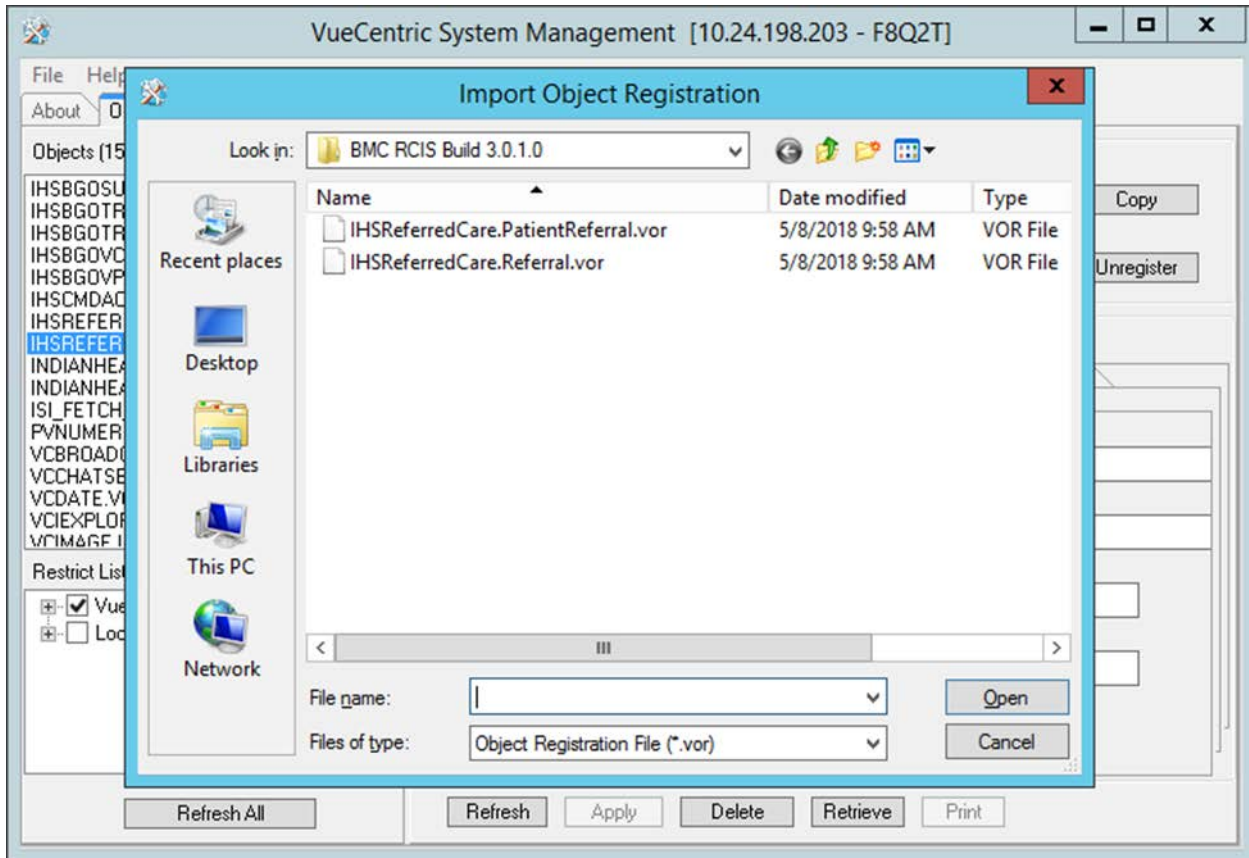


Figure 2-7: Import Object Registration dialog

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

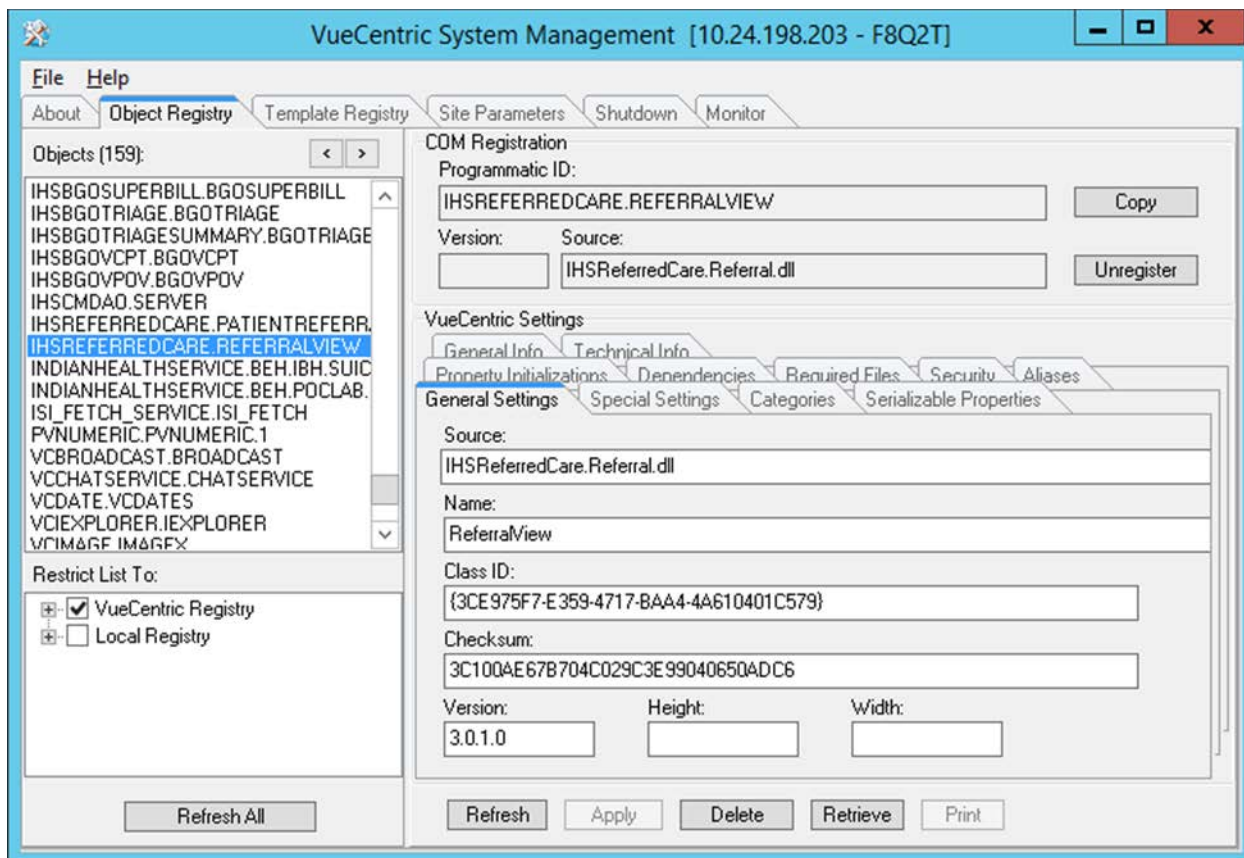


Figure 2-8: Object loaded view in VcManager

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).

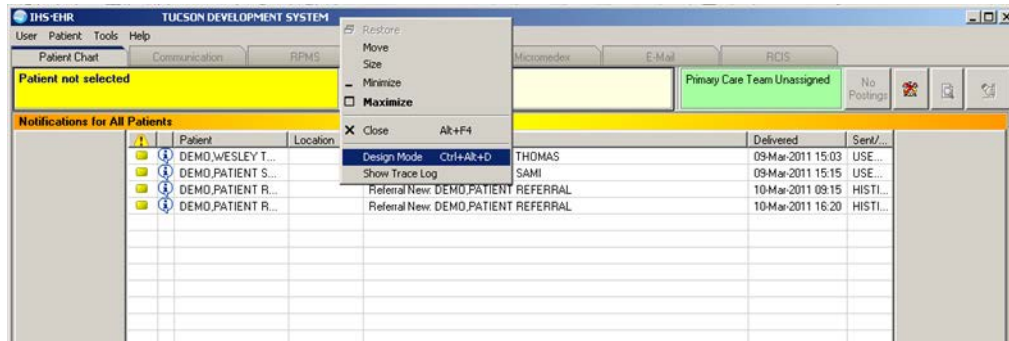


Figure 2-9: Design Mode option

4. Select the **Layout Manager** from the **Design** menu (Figure 2-10).
5. Highlight **Tabbed Notebook** and click **Properties**.

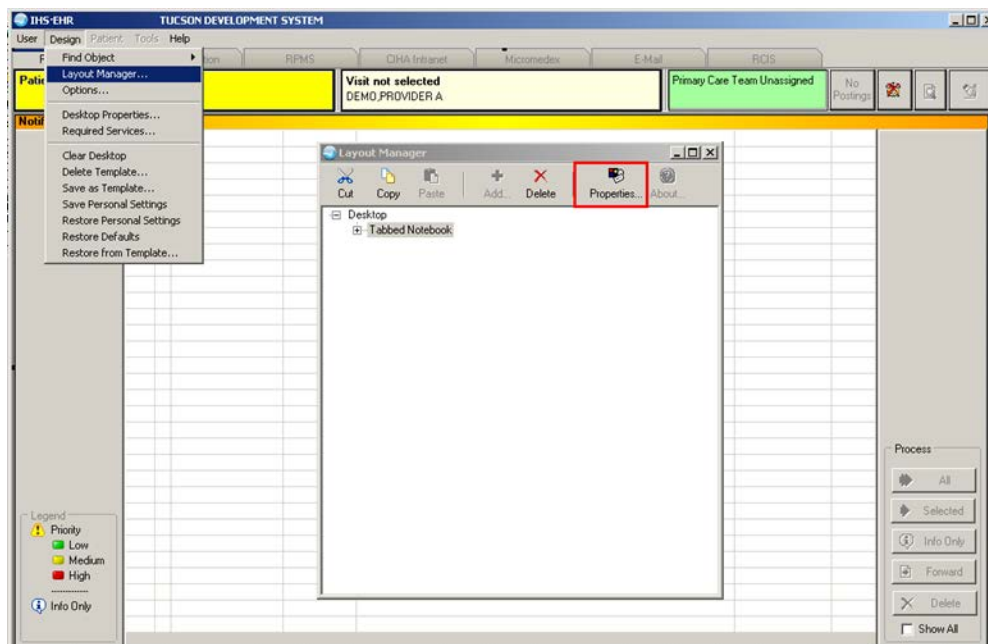


Figure 2-10: Design menu : Layout Manager

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

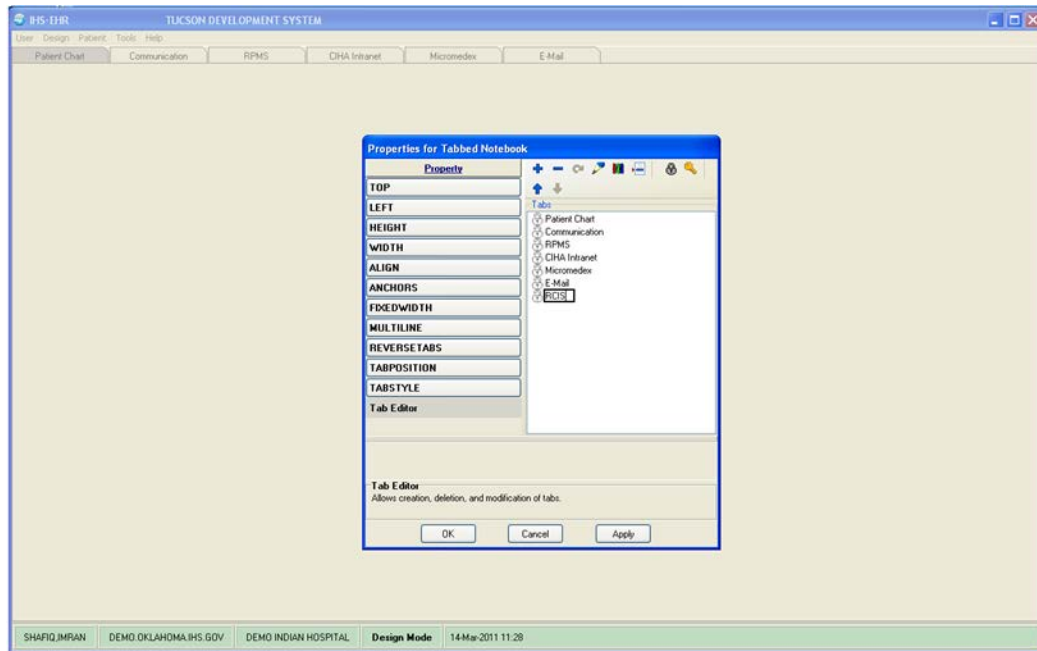


Figure 2-11: EHR Designer Mode–Create new RCIS tab

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

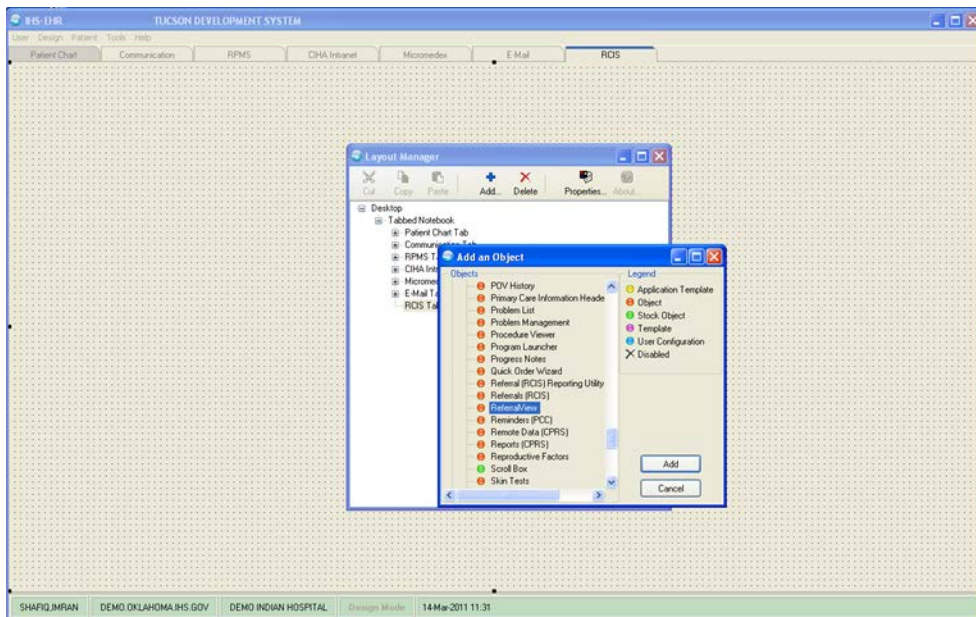


Figure 2-12: EHR Designer Mode–Add ReferralView object to RCIS tab

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

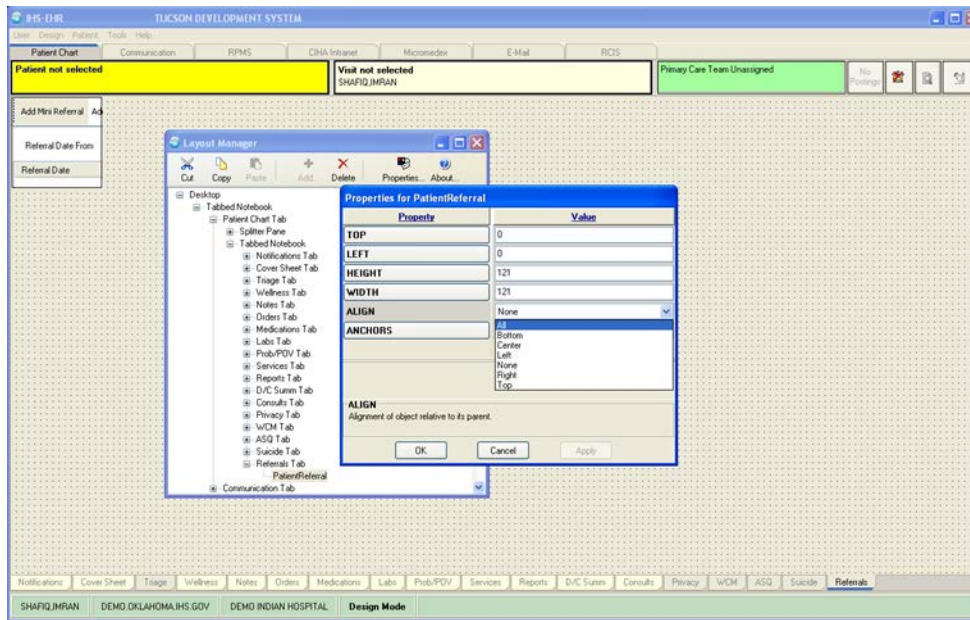


Figure 2-13: EHR Designer Mode–Align Setting in Object Properties

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**.

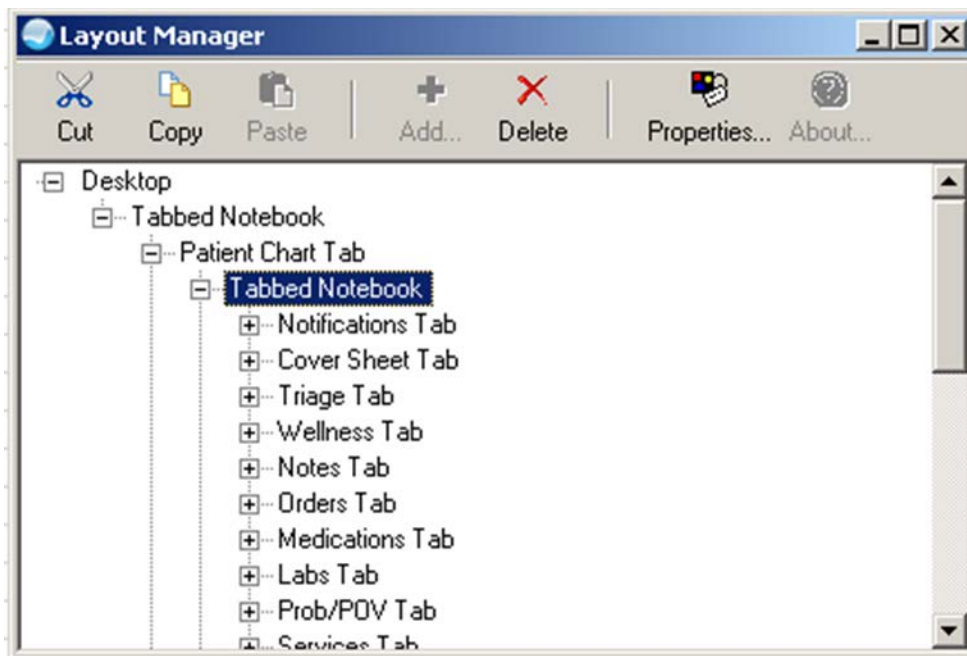


Figure 2-14: EHR Designer Mode–Layout Manager Close-up

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



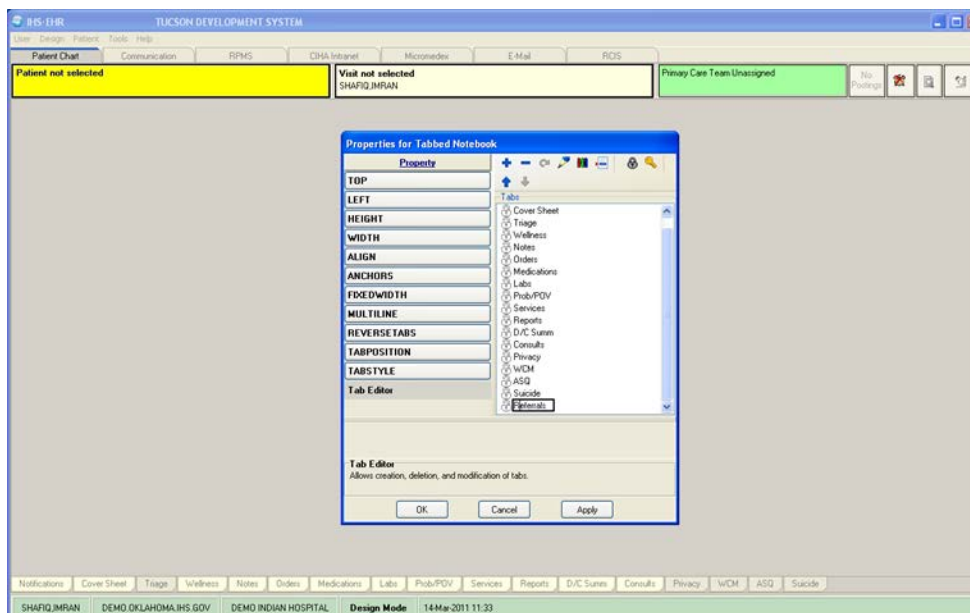


Figure 2-15: EHR Designer Mode—Add tab to Patient Chart

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

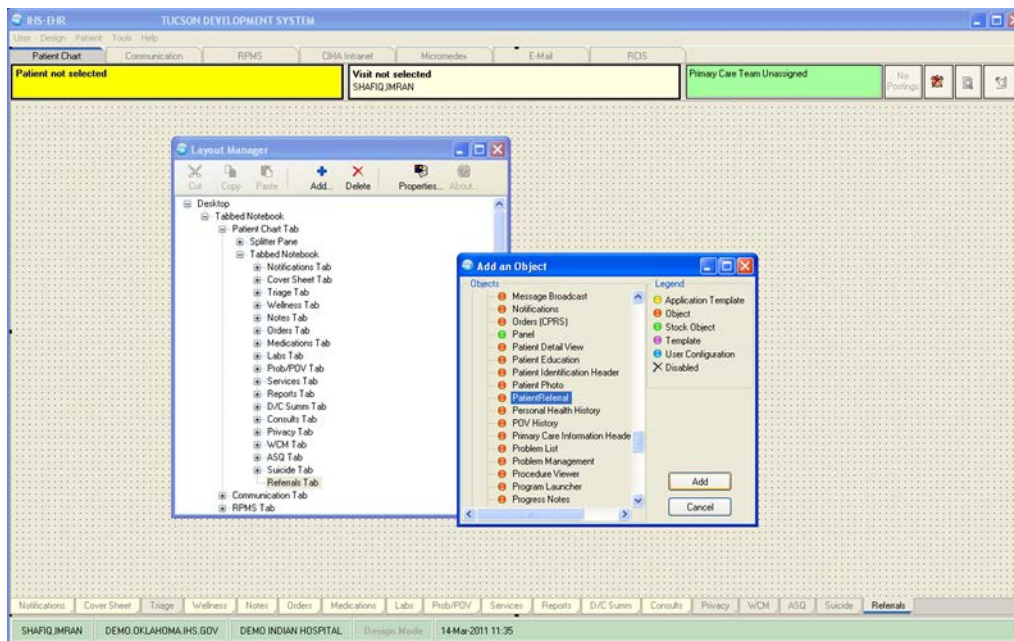


Figure 2-16: EHR Designer Mode—Add **PatientReferral** object to **Referrals** tab

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**.

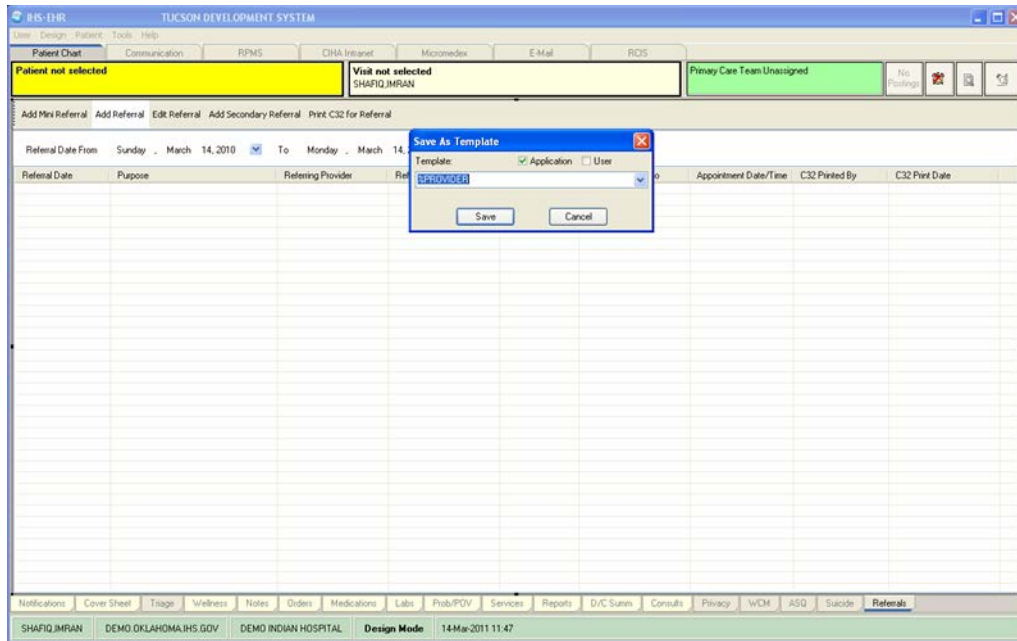


Figure 2-17: EHR Designer Mode–Save As screen for Provider template

### 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).

Patient Name	Referral Date	Purpose	Referring Provider	Referral Number	Status	Facility Referred To	Appointment Date/Time	Clinical Consulta...	Printed By
	OCT 06, 2017	CARDIAC EVAL		2021011600047	ACTIVE				
	OCT 06, 2017	JA		2021011600048	ACTIVE				
	OCT 09, 2017	Bum i		2021011600063	ACTIVE		OCT 08, 2017		

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.

Referral Date	Purpose	Referring Provider	Referral Number	Status	Facility Referred To	Appointment Date/Time	Clinical Consulta...	Printed By	Print Date

Figure 3-2: Referrals tab under Patient Chart

## Acronym List

Acronym	Term Meaning
IHS	Indian Health Service
RPMS	Resource and Patient Management System
VcManager	VueCentric System Management Utility

## 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:** [support@ihs.gov](mailto:support@ihs.gov)