



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Electronic Health Record

(EHR)

Installation/Configuration Guide CCD/C32 Component

Version 1.1 Patch 9
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Office of Information Technology (OIT)
Division of Information Resource Management
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1.0 Introduction

There are three registered components for the C32/KMR viewer capability. They are:

- BEHCCDC32.BEHC32Button (C32 Viewer Launch Button)
- BEHCCDC32.BEHKmrButton (KMR Viewer Launch Button)
- BEHC32Service.BEHC32TcpService (C32 Viewer Listening Service)

The buttons are designed to be placed on the main screen header bar (where Patient, Visit, Encounter, and so on are located).

1.1 C32 Viewer Launch Button

This button launches the viewer display form as a separate window providing the target Ensemble C32 service URL. The display form initiates a request to the target Ensemble C32 service, indicating the reply is to be handled by the C32 Viewer Listening Service. It awaits the response retrieved by the Listening service. The response is displayed.

1.2 KMR Viewer Launch Button

This button launches the viewer display form for the KMR NHIN Inbox as a separate window providing the target KMR service URL. The display form initiates a request to the target KMR service handling the response directly to the viewer screen.

1.3 C32 Viewer Listening Service

This service listens on a dynamic port of the local machine for C32 responses from the Ensemble C32 provider service. It passes events, C32Data, and or C32Errors to the viewer display form for display of the data or error as needed.

2.0 Installation

The viewer support functions are installed and registered with IHS EHR Version 1.1 Patch 9 (CareVue OpenVista RC5). Refer to the appropriate KIDS build and notes for additional information.

2.1 Viewer Component Details

2.1.1 C32 Viewer Launch Button

This component has the following installed configuration:

Programmatic Identifier	BEHCCDC32.BEHC32Button
Version	1.0.3.10
Class Identifier	{A03F898E-D8D3-4817-8E4B-009D61B55327}
Image File	
Property Initializations	none
Serializable Properties	SiteUrl=TEXT, CAPTION=TEXT, BACKGROUND_COLOR=COLOR
Required Files	BEHCCDC32.dll BEHC32Client.dll BEHC32Support.dll ccd.xsl xml.xsl
Dependencies	BEHC32SERVICE.BEHC32TCPSERVICE
Security Keys	CCDVIEWER, CCDSAVE, CCDPRINT
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	no
Service	no
.Net Component	yes
Associated Build	BEHO*1.1*056001

Note: If the site uses Terminal Services for Remote Desktop Access to the server for session operation, create a directory C:\C321 on the Terminal Services server, *giving full control to the Windows Users or Group that will be using the CCD Viewer support*. If the users do not have sufficient permissions, the application will fail. Otherwise, there are no specific implementation or maintenance tasks associated with this component.

2.1.2 KMR Viewer Launch Button

This component has the following configuration:

Programmatic Identifier	BEHCCDC32.BEHKMRButton
Version	1.0.3.6
Class Identifier	{263D1CEE-9661-490e-96DD-6313A67BA502}
Image File	
Property Initializations	none
Serializable Properties	SiteUrl=TEXT, CAPTION=TEXT, BACKGROUND_COLOR=COLOR
Required Files	BEHCCDC32.dll
Dependencies	none
Security Keys	None – user must be a member of the Provider class
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	no
Service	no
.Net Component	yes
Associated Build	BEHO*1.1*056001

There are no specific implementation or maintenance tasks associated with this component.

¹ This directory is used to hold encrypted CCD documents for sessions while the documents are active in a viewer.

2.1.3 C32 Viewer Listening Service

This component has the following configuration:

Programmatic Identifier	BEHC32Service.BEHC32TcpService
Version	1.0.3.8
Class Identifier	{B2CE30B4-D711-45d4-AEEB-420A14465B55}
Image File	
Property Initializations	none
Serializable Properties	none
Required Files	none
Dependencies	none
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	no
Service	yes
.Net Component	yes
Associated Build	BEHO*1.1*056001

There are no specific implementation or maintenance tasks associated with this component.

2.2 C32 Workspace

The CCD/C32 support uses a directory, C:\C32, as its workspace to hold encrypted XML and HTML files used by the viewer while a given patient record is being viewed.

This directory must have its security setting set to Full Control for the Windows user accessing C32 support. If the session access is via RDP/Terminal Services to the server, the server needs this configuration. If the access runs the EHR session on a local machine, the user needs the control for the C:\C32 directory of the local machine. If the user(s) do not have sufficient permissions, the application will fail.

3.0 Template Configuration

3.1 C32 Viewer Launch Button

The C32 launch button provides a number of properties that can be set as desired and some to be set to configure the instance of the service.

The properties are shown in the Figure 3-1.

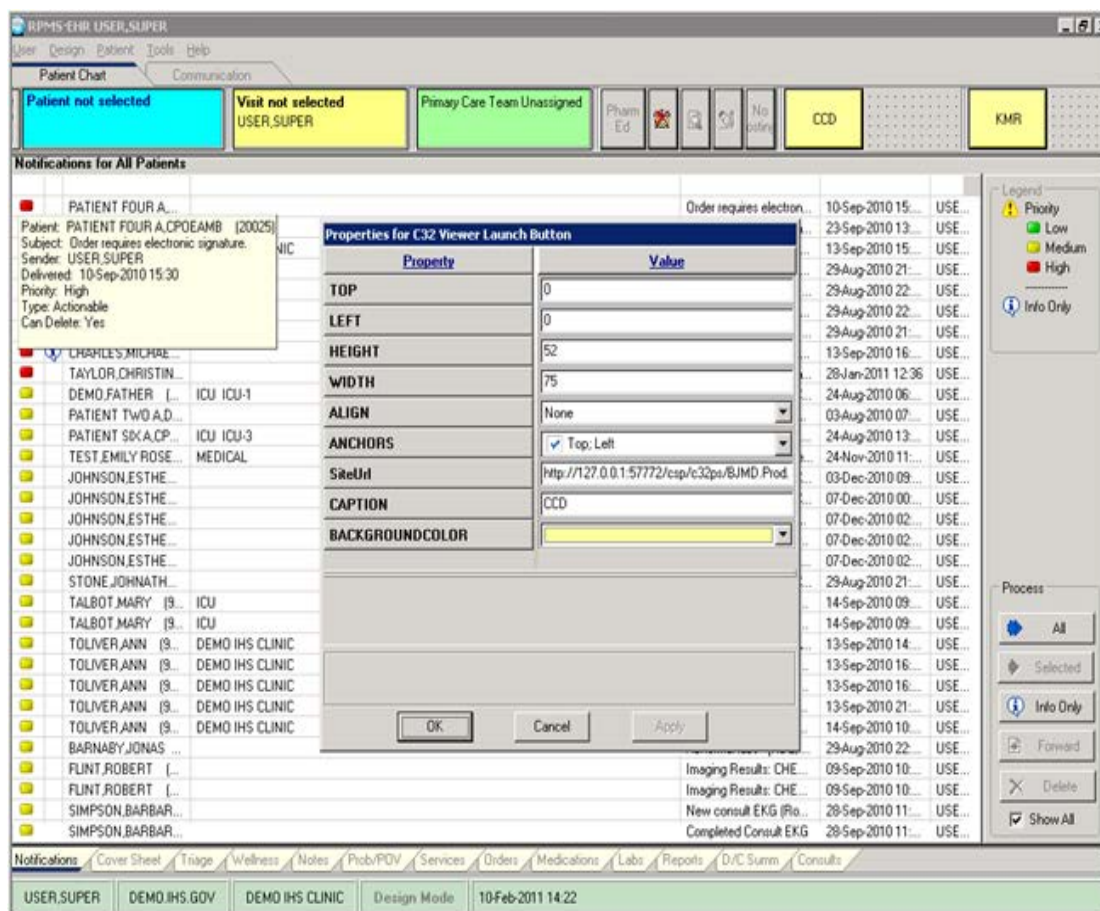


Figure 3-1: C32 Viewer Launch Button Properties

The SiteUrl property is used to define the Ensemble C32 pull service location. The Site URL is the address of the Ensemble pull service. The location is the Ensemble/Cache server that your session is or will be using. For example, Projwin09-ihw would look like:

<http://projwin09-ihw.medsphere.com:57772/csp/c32ps/BJMD.Prod.Service.DocumentRepository.cls>

The *c32ps* portion of the URL is the Ensemble namespace that is mapped to the EHR namespace in use. EHR: WOCRT must map to C32WOCRT in the Site URL. For example:

<http://projwin09-ih.s.medsphere.com:57772/csp/C32WOCRT/BJMD.Prod.Service.DocumentRepository.cls>

The default port for Ensemble Web Services is 57772. However, if a site is running multiple instances of Ensemble, the correct port number may be 57773 or 57774/5/6/, etc. Check with your site administrator if in doubt.

3.2 KMR Viewer Launch Button

The C32 launch button provides a number of properties that can be set as desired and some to be set to configure the instance of the service.

The properties are shown in the Figure 3-2.

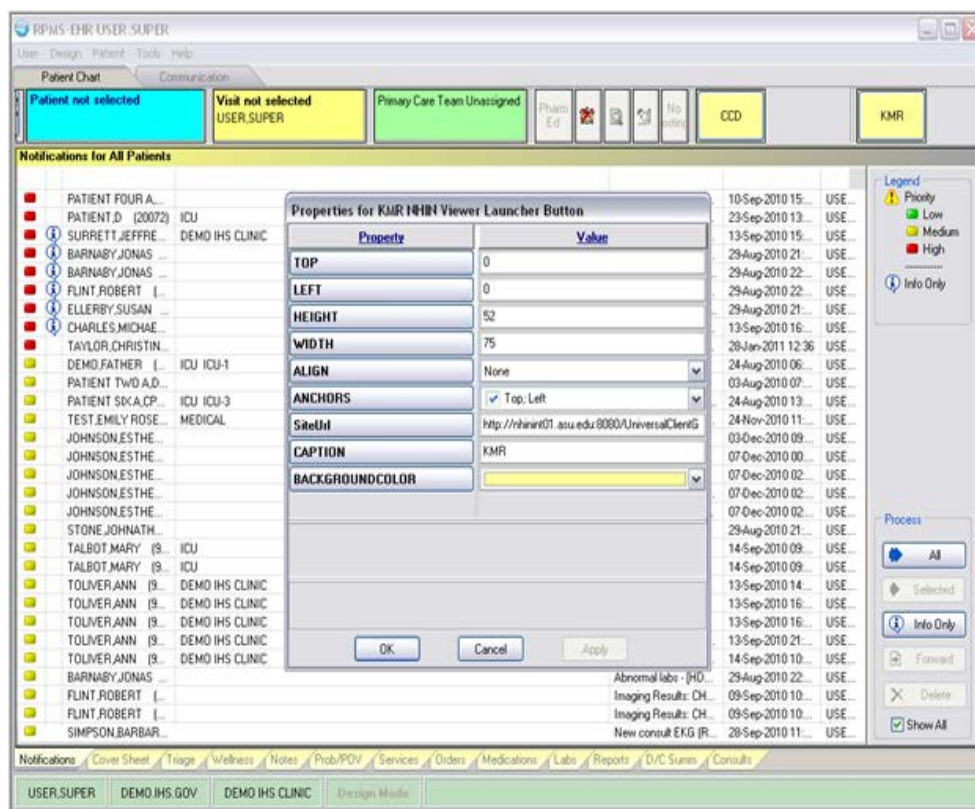


Figure 3-2: KMR Viewer Launch Button Properties

The SiteUrl property is used to define the location of the KMR NHIN Inbox Web service location. If you are using this service, consult your KMR resource for the appropriated URL.

3.3 General Properties for Launch Buttons

The launch button components support the following general properties.

ALIGN	Enum RW	Sets the alignment of the component relative to its parent. One of: 0 = None – no alignment occurs 1 = Top – aligns to the top boundary of the parent 2 = Bottom – aligns to the bottom boundary of the parent
ANCHORS	Integer	The anchoring of control boundaries relative to its parent. An anchored boundary maintains a constant distance from the parent boundary, even if the parent resizes. May be the additive combination of the following values: 1 = top 2 = left 4 = right 8 = bottom
TOP	Integer	The position of the topmost portion of the control in the Coordinate system of its parent.
LEFT	Integer	The position of the leftmost portion of the control in the coordinate system of its parent.
HEIGHT	Integer	The height of the control in pixels.
WIDTH	Integer	The width of the control in pixels.
CAPTION	Text	Display label for the button
BACKGROUNDCOLOR	Color	Background color to display

3.4 C32 Viewer Listening Service

The only configuration item for this component is to include the C32 Viewer Listening Service from Design Mode as:

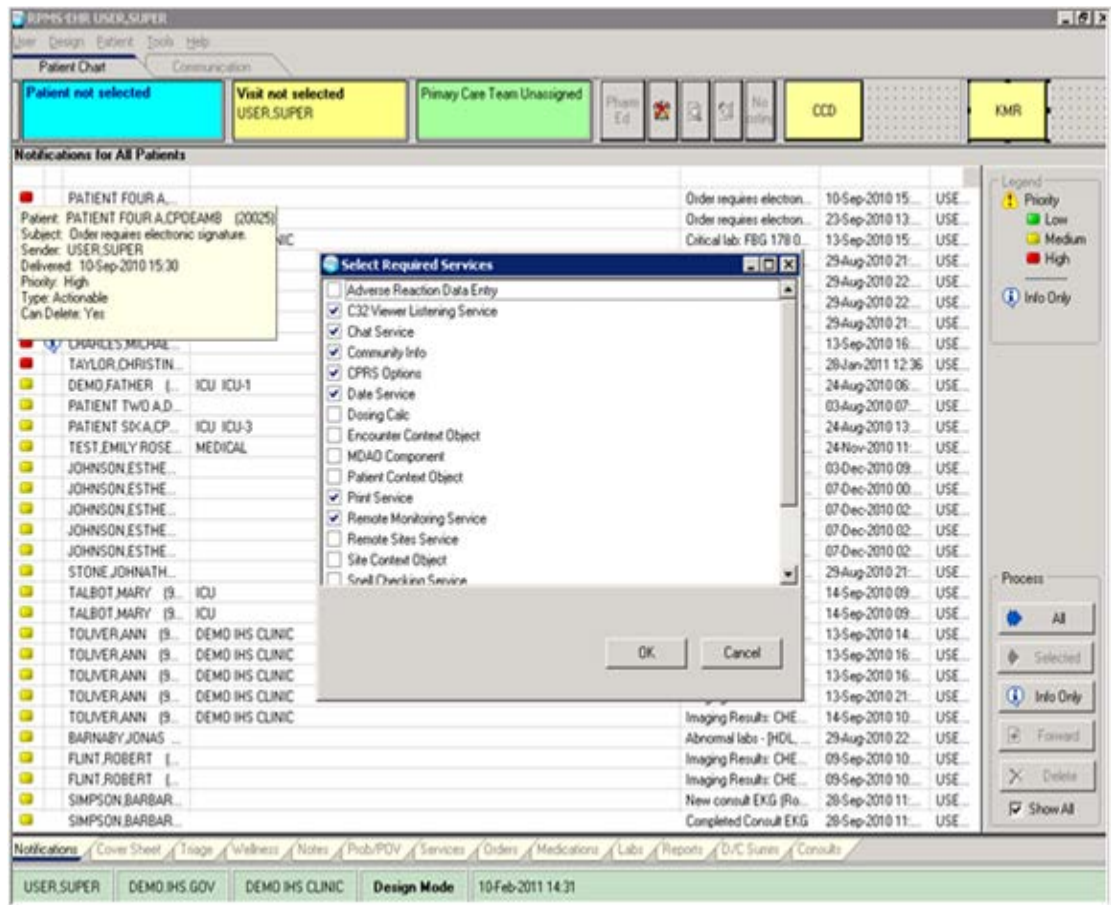


Figure 3-3: Including C32 Listener Service

This is accessed via the Design Menu as Design/Required Services.

4.0 Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS):

Phone: (505) 248-4371 or (888) 830-7280

Fax: (505) 248-4363

Web: <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

Email: support@ihs.gov