RESOURCE AND PATIENT MANAGEMENT SYSTEM

Electronic Health Record

(EHR)

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Preface

This guide provides information regarding technical aspects of the Indian Health Service RPMS Electronic Health Record (RPMS-EHR) v1.1 software. Its target audience is local and regional information technology support personnel who may be called upon to configure or troubleshoot the application. This guide has been broken into four separate files of which this is the third.

41.0 Health Summary Report

41.1 Introduction

Figure 41-1. Health Summary Report Button

The Health Summary Report component permits easy access to any of several predefined report types.

41.2 Architecture and Business Process Overview

Figure 41-2: Architecture and business process overview

Figure 41-3: Architecture and business process overview

41.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHHSREPORT.HSREPORT
Class Identifier	{C65320E0-A0F5-4511-9EA9-C76C50D9FEE7}
Image File	BEHHSReport.ocx
Property Initializations	
Serializable Properties	GLYPH=IMAGE, CAPTION=TEXT, LAYOUT=ENUM, ASYNCHRONOUS=BOOL, ENCOUNTERREQUIRED=BOOL, REFRESHOPTION=ENUM, REPORT=TEXT, TITLE=TEXT
Required Files	

Entity	Value
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*042001

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

41.4 Routine Descriptions

None.

41.5 File List

None.

41.6 Cross References

None.

41.7 Exported Options

None.

41.8 Exported Security Keys

None.

41.9 Exported Protocols

None.

41.10 Exported Parameters

None.

41.11 Exported Mail Groups

None.

41.12 Callable Routines

None.

41.13 External Relations

Entity	Name	Description
Package	HEALTH SUMMARY 2.7	Uses supported APIs.
Package	IHS PCC SUITE 2.0	Uses supported APIs.
Package	ORDER ENTRY/RESULTS REPORTING 3.0	Uses supported APIs.

41.14 Internal Relations

None.

41.15 Archiving and Purging

There are no archiving or purging requirements within this software.

41.16 Components

This component supports the following properties and methods:

41.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent

Property	Datatype	Access	Description
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
ASYNCHRONOUS	Boolean	RW	If true, the report is generated asynchronously. If false, the user must wait until the report is complete.
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the button caption.
COLOR	Color	RW	Sets the background color of the component.
ENCOUNTER	Boolean	RW	If true, report requires an encounter context.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
GLYPH	String	RW	Name of bitmap file containing glyphs to be displayed on button surface.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
NUMGLYPHS	Integer	RW	Number of glyphs contained in glyph file.
REFRESHOPTION	Enum	RW	Controls behavior upon receipt of a refresh request. One of: 0 = Ignore refresh requests 1 = If a report is displayed on receipt of a refresh request, its contents will be refreshed. 2 = Always refresh report. If a report is not displayed, it will be displayed on receipt of a refresh request. Otherwise, the displayed report is refreshed. 3 = If a report is displayed on receipt of a refresh request, it is closed.
REPORT	String	RW	Report control parameters. Format is: <report id>^<HS type>^<date range>^<exam id>
TITLE	String	RW	Title for the report.

Property	Datatype	Access	Description
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

42.0 Lab Results

42.1 Introduction

Figure 42-1: Lab Results component

The Lab Results component permits viewing of lab results in a variety of formats.

42.2 Architecture and Business Process Overview

Figure 42-2: Architecture and business process overview

42.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHLAB.LABVIEW
Class Identifier	{F9DD2047-8DDB-41A0-9EF6-7F2850B7F09A}

Entity	Value
Image File	BEHLab.ocx
Property Initializations	
Serializable Properties	AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR
Required Files	BEHLab.chm
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*019001

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

42.4 Routine Descriptions

None.

42.5 File List

None.

42.6 Cross References

None.

42.7 Exported Options

None.

42.8 Exported Security Keys

None.

42.9 Exported Protocols

None.

42.10 Exported Parameters

None.

42.11 Exported Mail Groups

None.

42.12 Callable Routines

None.

42.13 External Relations

Entity	Name	Description
Package	ORDER ENTRY/RESULTS REPORTING 3.0	Uses supported APIs.
Package	LAB 5.2	Uses supported APIs.

42.14 Internal Relations

Entity	Name	Description
Component	CPRS Support Library	Uses supported APIs.

42.15 Archiving and Purging

There are no archiving or purging requirements within this software.

42.16 Components

This component supports the following properties and methods:

42.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.

Property	Datatype	Access	Description
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

43.0 Remote Data

43.1 Introduction

Figure 43-1: Remote Data component

The Remote Data (CPRS) component provides access to report from other sites where a patient may be receiving care.

43.2 Architecture and Business Process Overview

Figure 43-2: Architecture and business process overview

43.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHREMOTEDATA.REMOTEDATA
Class Identifier	{386D0EB0-4F01-4DDA-95A9-90129B2400DA}
Image File	BEHRemoteData.ocx
Property Initializations	none
Serializable Properties	CAPTION=TEXT, COLOR=COLOR
Required Files	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	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*020001

For information on how to configure remote data views, refer to the Computerized Patient Record System (CPRS) Technical Manual published by the Department of Veterans Affairs.

43.4 Routine Descriptions

None.

43.5 File List

None.

43.6 Cross References

None.

43.7 Exported Options

None.

43.8 Exported Security Keys

None.

43.9 Exported Protocols

None.

43.10 Exported Parameters

None.

43.11 Exported Mail Groups

None.

43.12 Callable Routines

None.

43.13 External Relations

Entity	Name	Description
Package	CLINICAL INFO RESOURCE NETWORK 1.0	Uses supported APIs.
Package	MASTER PATIENT INDEX VISTA 1.0	Uses supported APIs.

43.14 Internal Relations

Entity	Name	Description
Component	Remotes Sites Service	Uses supported APIs.

43.15 Archiving and Purging

There are no archiving or purging requirements within this software.

43.16 Components

This component supports the following properties and methods:

43.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the button caption.
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
GLYPH	String	RW	Name of bitmap file containing glyphs to be displayed on button surface.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
NUMGLYPHS	Integer	RW	Number of glyphs contained in glyph file.
TITLE	String	RW	Title for the report.

Property	Datatype	Access	Description
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

44.0 Remote Sites Service

44.1 Introduction

The Remote Sites Service provides access to patient data that may reside at locations other than the local facility.

44.2 Architecture and Business Process Overview

Figure 44-1: Architecture and business process overview

44.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHREMOTEVIEWS.REMOTESITES
Class Identifier	{CE0E8D76-4597-467D-B942-6D52838D65E4}
Image File	BEHRemoteViews.dll

Entity	Value
Property Initializations	None
Serializable Properties	None
Required Files	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	Yes
Service	Yes
.Net Component	No
Associated Build	BEHO*1.1*020001

For information on how to configure remote data views, refer to the CPRS Technical Manual published by the Department of Veterans Affairs.

44.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHORDV." The following routines are distributed:

Routine	Description
BEHORDV	Remote sites support.

44.5 File List

None.

44.6 Cross References

None.

44.7 Exported Options

None.

44.8 Exported Security Keys

None.

44.9 Exported Protocols

None.

44.10 Exported Parameters

None.

44.11 Exported Mail Groups

None.

44.12 Callable Routines

This section describes supported entry points for routines exported with this component.

44.12.1 RPC: BEHORDV DIRECT

Scope: Private

Parameter	Datatype	Description
LOC	String	Destination institution name or IEN
RPC	String	RPC name
RPCVER	String	RPC version
P1..P10	Any	Up to 10 parameters to be passed to the remote call.
<return value>	String List	The return result of the remote procedure call.

Calls an RPC at a remote site.

44.13 External Relations

Entity	Name	Description
Package	CLINICAL INFO RESOURCE NETWORK 1.0	Uses supported APIs.
Package	MASTER PATIENT INDEX VISTA 1.0	Uses supported APIs.
Package	RPC BROKER 1.1	Uses supported APIs.

44.14 Internal Relations

None.

44.15 Archiving and Purging

There are no archiving or purging requirements within this software.

44.16 Components

This component supports the following properties and methods:

44.16.1 IRemoteSites

44.16.1.1 Properties

Property	Datatype	Access	Description
NoDataReason	String	R	Text giving reason why data was not returned.
RemoteDataExists	Boolean	R	True if remote data is present.
Selected	Boolean	R	True if at least one site has been selected.
SiteCount	Integer	R	Count of sites in Sites array.
Sites	IRemoteSite (array)	R	Array of remote sites.

44.16.1.2 CallRemote

Scope: Public

Parameter	Datatype	Description
RPCName	String	Remote procedure name.
Params	Variant	Parameters for RPC call.
Callback	IRemoteCallback	Interface reference for callback.
<return data>	String	Unique signature for this call.

Queues a remote RPC for execution.

44.16.1.3 GetSiteByID

Scope: Public

Parameter	Datatype	Description
AnID	String	Site identifier
<return value>	IRemoteSite	Returns a reference to the site matching the specified identifier, or null if none found.

Looks up the specified site identifier, returning an IRemoteSite interface reference if a match is found.

44.16.1.4 Reset

Scope: Public

Performs a Reset operation on each site in the Sites array.

44.16.1.5 Select

Scope: Public

Parameter	Datatype	Description
<return value>	Integer	Count of selected sites.

Invokes the Remote Site Selector dialog.

44.16.2 IRemoteSite

44.16.2.1 Properties

Property	Datatype	Access	Description
LastDate	Date/Time	R	Date of the last available data for the site.
ReportCount	Integer	R	Count of reports in the Reports array.
Reports	IRemoteReport (array)	R	Array of reports available for this site.
Selected	Boolean	RW	True if site is selected.
SiteId	String	R	Returns the identifier for the site.
SiteName	String	R	Returns the name of the site.

44.16.2.2 CallRemote

Scope: Private

Parameter	Datatype	Description
RPCSignature	String	Unique signature identifying the report.
Callback	IRemoteCallback	Interface reference to call when report is available.

Queues a remote RPC for execution.

44.16.2.3 GetReportBySignature

Scope: Private

Parameter	Datatype	Description
RPCSignature	String	Unique signature identifying the report.
<result value>	IRemoteReport	Reference to the report identified by the RPCSignature, or null if none found.

Lookup a report by its unique signature.

44.16.2.4 Reset

Scope: Private

Removes all reports from the Reports array.

44.16.3 IRemoteReport

44.16.3.1 Properties

Property	Datatype	Access	Description
Handle	Integer	R	Unique handle associated with the report request.
RemoteHandle	String	R	Handle assigned by the site of origin for this report.
Signature	String	R	Unique signature identifying this report.
SiteId	String	R	Identifier of the site of origin.
Status	Enum	R	Status of the report. One of: 0 = Initial 1 = Pending 2 = Complete 3 = Error 4 = Aborted
Text	String	R	Text of the report.

44.16.4 IRemoteReport2

44.16.4.1 CallRemote

Scope: Private

Parameter	Datatype	Description
Callback	IRemoteCallback	Interface reference to call when request is complete.

Invoke the remote data call as an asynchronous RPC.

44.16.5 IRemoteCallback

44.16.5.1 RemoteResults

Scope: Private

Parameter	Datatype	Description
Report	IRemoteReport	Reference to the report that is now available.

Called when a requested report becomes available.

45.0 Reports

45.1 Introduction

Figure 45-1: Reports component

Permits displaying and printing of a multitude of predefined reports.

45.2 Architecture and Business Process Overview

Figure 45-2: Architecture and business process overview

45.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHREPORTS.REPORTS
Class Identifier	{C3C01F1D-009D-497F-86FE-2BEDF6E9F4A3}
Image File	BEHReports.ocx
Property Initializations	none
Serializable Properties	AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR
Required Files	BEHReports.chm
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*021002

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

45.4 Routine Descriptions

None.

45.5 File List

None.

45.6 Cross References

None.

45.7 Exported Options

Option	Type	Description
BEHORP MAIN	menu	Report configuration menu.

Option	Type	Description
BEHORP PRINT FORMAT	action	This option allows the user to define formats for printing labels and requisitions for orders.
BEHORP REPORT SYSTEM PARAM	action	System display parameters.
BEHORP REPORT USER PARAM	action	User display parameters.
BEHORPHS IHS ACT/INACT HMR	action	Activate/inactivate a health maintenance reminder.
BEHORPHS IHS CINQ	action	From the “B” index on HEALTH SUMMARY COMPONENT, displays available components from which a summary may be built.
BEHORPHS IHS DISPLAY HMR	action	Display one health maintenance reminder description.
BEHORPHS IHS FIDEL	edit	Uses the APCH DELETE HS FLOWSHEET ITEM template to delete an entry from the HEALTH SUMMARY FLOWSHEET ITEM file.
BEHORPHS IHS FIED	edit	Uses the APCH EDIT HS FLOWSHEET ITEM template to create or modify a flowsheet item definition in the HEALTH SUMMARY FLOWSHEET ITEMS file.
BEHORPHS IHS FIINQ	action	From the “B” index on HEALTH SUMMARY FLOWSHEET ITEMS, displays available components from which a flowsheet may be built.
BEHORPHS IHS FSDEL	edit	Uses the APCH DELETE HLTH SUM FLOWSHEET template to delete an entry from the HEALTH SUMMARY FLOWSHEET file.
BEHORPHS IHS FSED	edit	Uses the APCH EDIT HLTH SUM FLOWSHEET template to create or modify a flowsheet definition in the HEALTH SUMMARY FLOWSHEET file.
BEHORPHS IHS FSINQ	action	From the “B” index on HEALTH SUMMARY FLOWSHEETS, displays available components from which a summary may be built.
BEHORPHS IHS HMIP	action	Prints all items with their associated descriptions in the health maintenance item file.
BEHORPHS IHS HMR LOCAL SPEC	action	Add/modify locally defined reminder criteria.
BEHORPHS IHS INQ	inquire	An “inquire” option against the HEALTH SUMMARY TYPE dictionary to allow the user to view the structure of a summary type.
BEHORPHS IHS MAIN	menu	Submenu for health summary maintenance functions: – edit HEALTH SUMMARY COMPONENT file – edit HEALTH SUMMARY TYPE file
BEHORPHS IHS MDEL	edit	Invokes APCH DEL HLTH SUM MEAS PANEL template to delete health summary measurement panel definitions (HEALTH SUMMARY MEASUREMENT PANELS file).

Option	Type	Description
BEHORPHS IHS MED	edit	Invokes APCH EDIT HLTH SUM MEAS PANEL template to allow creation or editing of measurement panels (prototype definitions which control the content and ordering of a panel of measurements).
BEHORPHS IHS MENU HEALTH MAIN	menu	Health maintenance reminders menu.
BEHORPHS IHS MINQ	action	Displays measurement panel types from “B” index on HEALTH SUMMARY MEAS PANEL file.
BEHORPHS IHS SITE PARAMETER	edit	Update health summary site parameters.
BEHORPHS IHS SUM	action	Invokes APCHS to generate health summary, either printed or CRT display version. Requires presence of the following dictionaries: HEALTH SUMMARY TYPE HEALTH SUMMARY COMPONENT HEALTH SUMMARY MEASUREMENT PANELS (if measurement panels used).
BEHORPHS IHS TDEL	edit	Invokes APCH DELETE SUMMARY TYPE template to delete a health summary type. A separate option (APCHSTED) is available to edit summary types.
BEHORPHS IHS TED	action	Invokes APCH EDIT HEALTH SUMMARY TYPE template to create/edit a health summary type. A separate option (APCHSTDEL) is available to delete a health summary type.
BEHORPHS IHS TED FM	edit	Invokes APCH EDIT HEALTH SUMMARY TYPE template to create/edit a health summary type. A separate option (APCHSTDEL) is available to delete a health summary type.
BEHORPHS IHS TINQ	action	Displays health summary types from “B” index on HEALTH SUMMARY TYPE file.
BEHORPHS IHS TYPES	action	This specifies the IHS health summaries that are to appear in the reports component. This is only used if the ORWRP HEALTH SUMMARY LIST ALL parameter is set to false.
BEHORPHS LIST ALL	action	Set to YES to list all health summaries. Set to NO to list only those health summaries specified in the ORWRPBHS HEALTH SUMMARY LIST and ORWRP HEALTH SUMMARY TYPE LIST parameters.
BEHORPHS MAIN	menu	Health summary configuration menu.
BEHORPHS VHA ADHOC EDIT	action	Enter/edit the default parameters (Time and Occurrence limits, Hospital Location displayed, ICD Text displayed, Provider Narrative displayed, Selection Items and Header names) for components of the Ad Hoc Health Summary Type. Components can also be deleted from this option.
BEHORPHS VHA ADHOC LOAD	action	Reloads the Ad Hoc Health Summary Type to include ALL Components, including any defined by the site, and optionally all temporarily DISABLED components, sequenced alphabetically by name.
BEHORPHS VHA BUILD MENU	menu	This menu contains options to create or delete Health Summary Types, along with options which may help in that process.

Option	Type	Description
BEHORPHS VHA COMP DESC LIST	print	Lists all components which may be used to define Health Summary Types, along with the abbreviation and a brief description of each.
BEHORPHS VHA COMP EDIT	action	Create/modify new Health Summary components, either by duplication and renaming of existing components, or by entering all appropriate fields for a component programmed on-site.
BEHORPHS VHA COMP INQ	action	This allows the user to display the characteristics of a Health Summary Component.
BEHORPHS VHA COMP LIST	print	Lists all components which may be used to define Health Summary Types, along with several component characteristics.
BEHORPHS VHA ENABLE/DISABLE	edit	Selectively enable or disable Health Summary Components. Out of order messages may be entered and the disable action may now be identified as being either temporary or permanent.
BEHORPHS VHA GUI HS LIST DEFAU	action	Use this option to display the list of Health Summary Types that will be contained in the 'Health Summary Types' section on the Reports Tab in CPRS. The display includes the precedence of parameters, the method for building the list, and finally the list that will actually appear on the Reports Tab in CPRS.
BEHORPHS VHA GUI HS LIST METHO	action	Use this option to edit the method used to build the list of Health Summary Types displayed on the Reports component of the EHR. There are two methods: Overwrite: System-defined Health Summary Types are added to the list. If there are user-defined Health Summary Types, they will replace the system-defined Health Summary Types already on the list. Append: System-defined Health Summary Types are added to the list. If there are user-defined Health Summary Types, they will be added to the list along with the system-defined types.
BEHORPHS VHA GUI HS LIST PRECE	action	Use this option to select the defined Health Summary Types to include on the list and arrange them in the order (precedence) that they should appear on the list. The three most common groups of Health Summary Types are: SYS: Health Summary Types may be defined for all users on the system. USR: Health Summary Types may be defined for a single user on the system. NAT: Nationally exported Health Summary Types (NAT) defined for system users or a single user are treated independently to keep them together in the list box. In this option, you must first select those Health Summary Type groups (SYS, USR, NAT, etc.) to include on the Reports Tab, then specify the order in which they will appear on the Reports Tab.

Option	Type	Description
BEHORPHS VHA GUI REPORTS LIST	menu	Use the options in the CPRS Reports Tab Health Summary Types List Menu to select the Health Summary Types to list on the Reports Tab, arrange the order of these Health Summaries on the list, and to view the user s preferences.
BEHORPHS VHA HS ADHOC	action	Generates an Ad Hoc Health Summary for specified patients. Instead of selecting a pre-defined Health Summary Type, the user defines his own ad hoc Health Summary structure for temporary use while using this option. The user selects Health Summary components, time and occurrence limits when applicable, and selection items when applicable.
BEHORPHS VHA HS BY LOC	action	Allows user to print health summaries interactively for all patients on a specified ward(s), for all patients with appointments at a specified outpatient clinic(s), or for all patients scheduled for a specified operating room(s) on a selected day or range of days.
BEHORPHS VHA HS BY LOC PARAMET	action	Allows the user to set-up Health Summary Types to be batch printed nightly for all patients at a specified hospital location. Location may be a ward or a clinic. If location is a clinic, the user is asked to specify 'Print Days Ahead.' Health Summaries will then be printed for all patients with appointments that many days in the future. To generate summaries, this option requires that option GMTS TASK STARTUP be queued to run nightly. Summaries should then be printed during the night and be ready for distribution by early morning. Thus, 0 Print Days Ahead means summaries should be ready to distribute by early morning of day of clinic appointment. For ease in separating printouts queued to the same device, a location banner appears in front of each locations Health Summaries.
BEHORPHS VHA HS BY PATIENT	action	Generates a Health Summary of a specified pre-defined Health Summary Type for a specified patient.
BEHORPHS VHA HS BY PATIENT & D	action	Generates Health Summaries of a specified pre-defined Health Summary Type for multiple patients. After patients are selected. the user can pick a date range. Data for summaries is based on the date range. This date range overrides Time Limits for components which allow this option.
BEHORPHS VHA HS BY PATIENT & V	action	Generates Health Summaries of a specified pre-defined Health Summary Type for multiple patients. After a patient is selected, the user can pick an outpatient visit (based on the VISIT File) or an inpatient hospital admission (based on the Patient Movement file). If the Patient Care Encounter (PCE) package is not installed then the user can only choose an inpatient visit. Data for summaries is based on a date range from the outpatient visit or inpatient admission. This Date Range overrides Time Limits for components which allows this option.

Option	Type	Description
BEHORPHS VHA HS FOR ALL CLINIC	action	Allows user to interactively designate the batch print of all health summaries for patients with appointments at all outpatient clinics on a selected day. Summaries will be printed at the print device designated for that clinic in the Location Parameters. This option is an alternate method to designate when summaries should be printed for all clinics. The nightly batch job that prints summaries for wards, clinics and operating rooms probably should be disabled if the user wants to use this option on a daily basis.
BEHORPHS VHA HS MENU	menu	This menu includes all of the various print options available for Health Summaries, allowing the user to generate Health Summaries by Patient, by Patient and a date range, by patient and a outpatient visit or an admission, by Location, for patients at all clinics, and on an Ad Hoc basis.
BEHORPHS VHA INFO ONLY MENU	menu	This menu contains options which provide information only about Health Summary Types, Components, Measurement Panels, and Reminder/Maintenance Items.
BEHORPHS VHA MAIN	menu	This option is used by individuals who have the capability to build their own Health Summary Types. It has all of the capabilities of the Health Summary Users Menu with the addition of the Build Health Summary Type Menu and the option to set parameters for nightly batch printing of Health Summaries by Location.
BEHORPHS VHA MAINT MENU	menu	This option will provide the IRM staff with a set of tools for Health Summary implementation and maintenance
BEHORPHS VHA OBJ DELETE	action	This option is used to delete a Health Summary Object that you created. You may not delete Health Summary Objects created by other people.
BEHORPHS VHA OBJ ENTER/EDIT	action	This option allows the user to create or modify a Health Summary Object. Objects are Health Summaries that may have their headers suppressed so they may be inserted into another document.
BEHORPHS VHA OBJ EXPORT	action	This option will allow a user to export a Health Summary Object, and its corresponding Health Summary Type to a Mailman message which can be sent to other accounts/sites for import.
BEHORPHS VHA OBJ EXPORT/IMPORT	menu	This menu contains options used to either export a Health Summary Object to a Mailman message, or import a Health Summary Object by reading the data unpacked from a Mailman message using the Packman Utilities.

Option	Type	Description
BEHORPHS VHA OBJ IMPORT/INSTAL	action	This option is used to install a Health Summary Object exported using the GMTS OBJ EXPORT option. The incoming Object must first be unpacked from the incoming Mailman message using Packman utilities. Then this option is used to install the object into the Health Summary files. If there is a Health Summary Type with the same name as the Health Summary being imported, then you will be prompted to either use the existing Health Summary Type, or to rename the incoming Health Summary Type. At no time will an existing Health Summary Type be over written.
BEHORPHS VHA OBJ INQ	action	Display a Health Summary Object from file 142.5, to include an example of the object.
BEHORPHS VHA OBJ MENU	menu	Use this option to access utilities to add/edit a Health Summary Object, display the characteristics of a Health Summary Object, to test a Health Summary Object or to export/import a Health Summary Object.
BEHORPHS VHA OBJ TEST	action	This option allows the user test a Health Summary Object by displaying the Object to the screen exactly as it would appear inserted in another document.
BEHORPHS VHA PARAMETER EDIT	edit	This option allows IRM staff or Health Summary ADPAC to edit the Health Summary Parameters, to modify the behavior of Health Summary for your site.
BEHORPHS VHA SITE ADD/EDIT LIS	action	Use this option to add, edit or delete a Health Summary Type from the list of Health Summary Types defined for a given entity (System, Division, User, etc.).
BEHORPHS VHA SITE COMPILE METH	action	Use this option to modify how the list of Health Summary Types is to be built for the site. This method will be used for all users who do not have user preferences set. Overwrite: System-defined Health Summary Types are added to the list. If there are User-defined Health Summary Types, then they will replace the System-defined Health Summary Types already on the list. Append: System-defined Health Summary Types are added to the list. If there are User-defined Health Summary Types, then they will added to the list along with the System-defined types.
BEHORPHS VHA SITE DEFAULTS	menu	Use the options in the CPRS Health Summary Display/Edit Site Defaults Menu to display the site defaults, select the Health Summary Types to list on the Reports Tab, edit the method of building the list (append/overwrite), edit allowable entities for the list (i.e., User, System, Division, etc.), or resequence the allowable entities in the order they should be appear on the list.
BEHORPHS VHA SITE DISPLAY DEFA	action	Use this option to display the site defaults for building the list of Health Summary Types on the Reports Tab in CPRS. The display includes the method for building the list and the precedence of parameters. These default values will be used in the event that the user has not established user preferences.

Option	Type	Description
BEHORPHS VHA SITE PRECEDENCE	action	Use this option to add or delete an entity (System, Division, User, etc.) from the list of allowable entities for the ORWRP HEALTH SUMMARY TYPE LIST parameter used on the CPRS Reports tab to display the Health Summary Types List.
BEHORPHS VHA SITE RESEQUENCE	action	Use this option to re-sequence the order in which the allowable entities for the ORWRP HEALTH SUMMARY TYPE LIST parameter are used in building the list of Health Summary Types for the CPRS Reports Tab. This order is used for any user who does not have user preferences set.
BEHORPHS VHA TASK LOCATIONS LI	print	This option displays a list of all locations which will be checked to see if health summaries should be printed in the nightly run of GMTS TASK STARTUP.
BEHORPHS VHA TYPE DELETE	edit	This option allows the owner of a Health Summary Type to delete it. In addition anyone who holds the GMTSMGR key may use this option. Also, if a Health Summary Type has a lock, anyone who holds a key with that lock value may delete that Health Summary Type. This Option will not allow the deletion of a Health Summary Type in use by a Health Summary Object. It will not allow the deletion of special case Health Summary Types such as GMTS HS ADHOC OPTION, or REMOTE Health Summary Types.
BEHORPHS VHA TYPE ENTER/EDIT	action	This option allows the user to create or modify a Health Summary Type. New types created under this option will automatically define the creator as the owner unless creator holds the GMTSMGR security key in which case GMTSMGR-holder may designate owner of his choice. Normally Health Summary Types may be modified only by their owner. Exceptions are someone who holds the GMTSMGR key may modify any Health Summary Type. If a Health Summary Type has a lock, someone who holds a security key with that lock value may modify that Health Summary Type. Use the **Delete Health Summary Type** option to delete the Health Summary Type.
BEHORPHS VHA TYPE INQ	action	This allows the user to display the current definition of a Health Summary Type. The display includes the sequence of components, and occurrence and time limits and selection items when they apply to a component.
BEHORPHS VHA TYPE LIST	print	This option displays a list of all Health Summary Types currently defined, with owner and lock information related to each summary type.
BEHORPHS VHA TYPE RESEQUENCE	action	Re-sequence the components of a given Health Summary Type from 5, in increments of 5 (i.e., 5, 10, 15, 20, ..., 5n where n is the total number of components).
BEHORPHS VHA TYPES	action	This specifies the VistA health summaries that are to appear in the Reports component. This is only used if the ORWRP HEALTH SUMMARY LIST ALL parameter is set to false.

Option	Type	Description
BEHORPPA MAIN	menu	Report parameters menu.
BEHORPPA TIME/OCC LIMITS ALL	action	Default time and occurrence limits for all reports.
BEHORPPA TIME/OCC LIMITS INDV	action	Default time and occurrence limits by report.

45.8 Exported Security Keys

None.

45.9 Exported Protocols

None.

45.10 Exported Parameters

None.

45.11 Exported Mail Groups

None.

45.12 Callable Routines

None.

45.13 External Relations

Entity	Name	Description
Package	ORDER ENTRY/RESULTS REPORTING 3.0	Uses supported APIs.

45.14 Internal Relations

Entity	Name	Description
Component	CPRS Support Library	Uses supported APIs.

45.15 Archiving and Purging

There are no archiving or purging requirements within this software.

45.16 Components

This component supports the following properties and methods:

45.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar

Property	Datatype	Access	Description
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

46.0 Triage Summary

46.1 Introduction

Figure 46-1: Triage Summary component

The Triage Summary presents a succinct overview of clinical data associated with the current visit.

46.2 Architecture and Business Process Overview

Figure 46-2: Architecture and business process overview

46.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	IHSBGOTRIAGESUMMARY.BGOTRIAGESUMMARY
Class Identifier	{DBD9C585-4B49-48CB-836D-CDDA607CCA9D}
Image File	IhsBgoTriageSummary.ocx
Property Initializations	none
Serializable Properties	ShowVitalsOnly=BOOL, ShowCCAuthor=BOOL
Required Files	IhsBgoTriageSummary.chm
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BGO*1.1*17

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

46.4 Routine Descriptions

This component has been assigned the namespace designation of “BGOTRG.” The following routines are distributed:

Routine	Description
BGOTRG	Triage summary support.

46.5 File List

None.

46.6 Cross References

None.

46.7 Exported Options

None.

46.8 Exported Security Keys

None.

46.9 Exported Protocols

None.

46.10 Exported Parameters

None.

46.11 Exported Mail Groups

None.

46.12 Callable Routines

This section describes supported entry points for routines exported with this component.

46.12.1 RPC: BGOTRG GETSUM

Scope: Private

Parameter	Datatype	Description
INP	Pointer (#9000010)	Specified as: Visit IEN ^ Provider ^ Report List ^ Include CC Author
<return value>	String List	String containing list of entries to be displayed in triage summary.

Returns a list of entries associated with the specified visit.

46.13 External Relations

Entity	Name	Description
File	MEASUREMENT TYPE (#9999999.07)	Read access
File	V MEASUREMENT (#9000010.01)	Read access
File	ORDER (#100)	Read access
File	IMMUNIZATION (#9999999.14)	Read access
File	V IMMUNIZATION (#9000010.11)	Read access
File	SKIN TEST (#9999999.28)	Read access
File	V SKIN TEST (#9000010.12)	Read access
File	EDUCATION TOPICS (#9999999.09)	Read access

Entity	Name	Description
File	V PATIENT ED (#9000010.16)	Read access
File	EXAM (#9999999.15)	Read access
File	V EXAM (#9000010.13)	Read access
File	HEALTH FACTORS (#9999999.64)	Read access
File	V HEALTH FACTORS (#9000010.23)	Read access
File	CPT (#81)	Read access
File	V CPT (#9000010.18)	Read access
File	REPRODUCTIVE FACTORS (#9000017)	Read access
File	NARRATIVE TEXT TYPE (#9999999.89)	Read access
File	V NARRATIVE (#9000010.34)	Read access

46.14 Internal Relations

None.

46.15 Archiving and Purging

There are no archiving or purging requirements within this software.

46.16 Components

This component supports the following properties and methods:

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom

Property	Datatype	Access	Description
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
SHOWCCAUTHOR	Boolean	RW	If true, displays the chief complaint author.
SHOWVITALSONLY	Boolean	RW	If true, only vital measurements are displayed.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

47.0 Patient Detail View

47.1 Introduction

Figure 47-1: Patient Detail button

The Patient Detail View component permits ready access to a customizable report summarizing important patient information.

47.2 Architecture and Business Process Overview

Figure 47-2: Architecture and business process overview

47.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHPTDETAIL.PTDETAIL

Entity	Value
Class Identifier	{DE053ED3-6390-455F-AE98-B43820D726F6}
Image File	BEHPtDetail.ocx
Property Initializations	TITLE=Detail for $(patient.name), RPCNAME=BEHOPTCX PTINQ
Serializable Properties	CAPTION=TEXT, COLOR=COLOR
Required Files	
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*010001

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

47.4 Routine Descriptions

None.

47.5 File List

None.

47.6 Cross References

None.

47.7 Exported Options

None.

47.8 Exported Security Keys

None.

47.9 Exported Protocols

None.

47.10 Exported Parameters

None.

47.11 Exported Mail Groups

None.

47.12 Callable Routines

None.

47.13 External Relations

None.

47.14 Internal Relations

None.

47.15 Archiving and Purging

There are no archiving or purging requirements within this software.

47.16 Components

This component supports the following properties and methods:

47.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent

Property	Datatype	Access	Description
ALLOWPRINT	Boolean	RW	If true, a print button appears on the report dialog allowing printing of the report.
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the button caption.
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
GLYPH	String	RW	Name of bitmap file containing glyphs to be displayed on button surface.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
NUMGLYPHS	Integer	RW	Number of glyphs contained in glyph file.
RPCNAME	String	RW	Name of the remote procedure that generates the patient detail report.
TITLE	String	RW	Title for the report.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

48.0 Notifications

48.1 Introduction

Figure 48-1: Notifications component

The Notifications component permits viewing and managing notifications.

48.2 Architecture and Business Process Overview

Figure 48-2: Architecture and business process overview

48.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHNOTIFICATIONS.NOTIFICATIONS
Class Identifier	{EA5178CE-9C27-4177-A992-3D7B01897965}
Image File	BEHNotifications.ocx

Entity	Value
Property Initializations	ALERTTHRESHOLD=@BEHOXQ ALERT THRESHOLD, SHOWALL=@BEHOXQ SHOW ALL
Serializable Properties	AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, LEGEND=ENUM, LAYOUT=HIDDEN
Required Files	BEHNotifications.chm
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*002007

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

48.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHOXQ." The following routines are distributed:

Routine	Description
BEHOXQ	Notification support.
BEHOXQIN	Installation support.
BEHOXQPC	PCC notifications.

48.5 File List

This component has been assigned the file number range of 90460.021 through 90460.029. The following files are distributed:

48.5.1 BEH ALERT CONTROL (#90460.021)

This file contains control information for the display and processing of notifications.

Field Name	#	Datatype	Indexes	Description
NAME	.01	String	B – Standard	Descriptive name for this notification class.

Field Name	#	Datatype	Indexes	Description
IDENT	1	M Code		Checks the notification identifier in variable AID and sets $T to true if a match.
PARSE	2	M Code		Code to parse standard data elements from a notification. Elements should be returned in the ALR array as follows: ALR("DFN") = Patient IEN (if patient-orientation) ALR("INF") = Info only flag ALR("TYP") = Notification type code ALR("PRI") = Priority code ALR("XTR") = Additional data
PROCESS	3	M Code		Post processing logic for a notification.
UPDATE	4	M Code		Optional logic to update alerts for current user.

48.5.2 BEH ALERT SCHEDULING (#90460.022)

This file contains notifications scheduled to be delivered at a later time.

Field Name	#	Datatype	Indexes	Description
DATETIME	.01	Date/Time	B – Standard	The date and time the notification is to be delivered.
ID	1	Text		The ID of the notification.
SENDER	2	Pointer (#200)	C – Standard	IEN of the sender.
SUBJECT	5	Text		Subject line for the notification.
DATA	6	Text		Control data associated with the notification.
RECIPIENT	10	Subfile (#90460.0221)		Intended recipients for this notification.
MESSAGE	20	Word Processing		Message text associated with the notification.

48.5.2.1 RECIPIENT (#90460.0221)

This subfile contains the intended recipients of a scheduled notification.

Field Name	#	Datatype	Indexes	Description
RECIPIENT	.01	Variable Pointer (#200, 3.8)	B – Standard	The individual or mail group to receive the notification.

48.6 Cross References

Cross references are described in the preceding section.

48.7 Exported Options

Option	Type	Description
BEHOXQ ALERT RECIPIENTS	action	This option prompts for a patient then displays all Kernel Alerts for that patient. You are then prompted to select one or more alerts. Recipients of those alerts are then displayed or printed along with relevant data regarding how they processed the alert. This option uses the Alert Tracking file. If an alert has an associated order number, it is displayed in brackets.
BEHOXQ ALERT THRESHOLD	action	Priority Threshold for Popup Alerts
BEHOXQ ARCHIVE PERIOD	action	Enter the number of days to archive this notification before deletion. The number of days to archive a notification for a site. If not indicated, the default period of 30 days is used. The maximum number of 100,000 is about 220 years. This value is passed to the Kernal Alert Utility where the actual archiving and deletion of alerts/notifications occurs.
BEHOXQ DEFAULT RECIPIENT DEV	action	Enter **Yes** if the device should always receive this notification. Devices will receive the notification on a regular basis — despite setting in the option Enable/Disable Notifications. These devices will always receive the notification, regardless of patient.
BEHOXQ DEFAULT RECIPIENTS	action	Enter **Yes** if the recipient should always receive this notification. Recipients (users, teams) will receive the notification on a regular basis — despite settings in the **Enable/Disable Notifications** option. These recipients will always receive the notification, regardless of patient.
BEHOXQ DELETE MECHANISM	action	Enter **I** if deleted on individual review/action or **A** for all recipients. Set of codes used to determine how a notification will be deleted at a site. Codes include: I (Individual Recipient): delete the notification for an individual recipient when a) that individual completes the follow-up action on notifications with associated actions. A (All Recipients): delete the notification for all recipients when a) any recipient completes the follow-up action on notifications with follow-up actions. b) any recipient reviews notifications without follow-up actions.
BEHOXQ DETERMINE RECIPIENTS	action	Based on Notification, Patient and optional Order Number and Default/ Regular Recipients, a list of recipients and potential recipients is presented. This is a tool for IRM or Clinical Coordinators only. It will enable the user to determine if and why a user receives a notification.
BEHOXQ ERASE NOTIFICATIONS	action	Erase all notifications for a User, erase all notifications for a Patient, or erase a specific Notification.
BEHOXQ FLAG ORDERABLE ITEMS	action	Two sub-options to flag specific orderable items to send notifications when they are ordered or resulted. (Note: This option may not be available until late alpha testing.)

Option	Type	Description
BEHOXQ FLAGGED ORDERS BULLETIN	action	Enter **Yes** to send a bulletin when an order is flagged for clarification. 'Yes' indicates a MailMan bulletin will be sent to the order's Current Provider (usually the Ordering Provider) when the order is flagged for clarification. This parameter has no effect on the Flagged Orders notification which is also triggered when an order is flagged for clarification.
BEHOXQ FORWARD BACKUP REVIEWER	action	The number of days to hold a notification before it is forwarded to a recipient's backup reviewer. The maximum is 30 days. If not indicated or zero, the notification will not be forwarded. For example, if a notification has a value of 14 for this parameter, it will be forwarded to the backup reviewer of each recipient who has not processed the notification after 14 days. Determination of recipients who have not processed the notification and who their supervisors are is made by the Kernel Alert Utility. It will not be forwarded to the backup reviewer of recipients who have processed the alert within 14 days. If the value of this parameter is zero or non-existent, the alert/notification will never be forwarded to the backup reviewer.
BEHOXQ FORWARD NOTIFS MENU	menu	This menu option is used to access options which set up parameters for forwarding notifications/alerts.
BEHOXQ FORWARD SUPERVISOR	action	The number of days to hold a notification before it is forwarded to a recipient's supervisor. The maximum is 30 days. If not indicated or zero, the notification will not be forwarded. For example, if a notification has a value of 14 for this parameter, it will be forwarded to the supervisor of each recipient who has not processed the notification after 14 days. Determination of recipients who have not processed the notification and who their supervisors are is made by the Kernel Alert Utility. It will not be forwarded to supervisors of recipients who have processed the alert within 14 days. If the value of this parameter is zero or non-existent, the alert/notification will never be forwarded. [Note: This option may not be available until late alpha testing.]
BEHOXQ FORWARD SURROGATES	action	Number of days to hold notification before forwarding to recipient's surrogates. The maximum is 30 days. If not indicated or zero, the notification will not be forwarded. For example, if a notification has a value of 14 for this parameter, it will be forwarded to the supervisor of each recipient who has not processed the notification after 14 days. Determination of recipients who have not processed the notification and who their supervisors are is made by the Kernel Alert Utility. It will not be forwarded to supervisors of recipients who have processed the alert within 14 days. If the value of this parameter is zero or non-existent, the alert/notification will never be forwarded. [Note: This option may not be available until late alpha testing.]
BEHOXQ MAIN	menu	Notification configuration menu.
BEHOXQ PARAMETERS	menu	Notification parameters menu.

Option	Type	Description
BEHOXQ PROCESSING FLAG	action	Set of codes indicating processing flag for the entity and notification. E (Enabled): Notification enabled for entity unless entity of higher precedence has notification disabled, e.g. Enabled at System level and Disabled at User level — User will not receive notification. D (Disabled): Notification disabled for entity unless entity of higher precedence has notification enabled, e.g. Disabled at System level and Enabled at User level — User will receive notification. Note: If the option Set Default Recipients for Notifications (parameter ORB3 REGULAR RECIPIENTS) is set to 'True' for a Team or User, that Team or User will always receive the notification, regardless of the Enabled/Disabled settings. Note: During alpha, Class and Service will not affect processing.
BEHOXQ PROVIDER RECIPIENTS	action	Any one or combination of **P**, **A**, **T**, and/or **O**. Set of codes indicating default (provider) recipients of a notification by their title or relationship to the patient. Notifications can be set up with any or all of the following codes: P (Primary Provider): Deliver notification to the patient's Primary Provider. A (Attending Physician): Deliver notification to the patient's Attending Physician. T (Patient Care Team): Deliver notification to the patient's primary care Team. O (Ordering Provider): Deliver notification to the provider who placed the order which triggered the notification. The providers, physicians and teams must be set up properly and accurately for the correct individuals to receive the notification.
BEHOXQ RECIP NOTIFICATIONS	action	This option prompts for a user/recipient then processes each notification to determine if and why the user will receive the notification. This information is then displayed.
BEHOXQ SHOW ALL	action	Set show all notifications default.
BEHOXQ SHOW HINT	Action	Set show hint default.
BEHOXQ SORT BY	action	Notification sort column.
BEHOXQ SYSTEM ENABLE/DISABLE	action	Determines if any notification processing will occur in entire Notifications system. **E** or **Enable** indicates the Notification system is enabled and running. **D** or **Disabled** indicates the Notification system is disabled and not running. Can be set at the Institution or System level.
BEHOXQ UNVERIFIED MED ORDER	action	Enter the number of hours delay to wait after a medication order is placed before triggering an Unverified Medication Order notification/alert. The maximum number of hours is 10,000.
BEHOXQ UNVERIFIED ORDER	action	Enter the number of hours delay to wait after an order is placed before triggering an Unverified Order notification/alert. The maximum number of hours is 10,000.

Option	Type	Description
BEHOXQ UNVERIFIED ORDERS MENU	menu	This menu option provides access to options which set up parameters for delaying unverified orders alert triggers.
BEHOXQ URGENCY	action	Set of codes indicating the urgency for a notification for a site. The urgency is mainly used for sorting in displays. The codes include: 1 (High): notification is Highly urgent 2 (Moderate): notification is Moderately urgent 3 (Low): notification is of Low urgency
BEHOXQPC REQUIRES E&M CODE	action	Providers that Require an E&M Code

48.8 Exported Security Keys

None.

48.9 Exported Protocols

None.

48.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BEHOXQ ALERT THRESHOLD		Set	User, Division, System	This is the alert priority threshold at or above which a popup alert will be displayed when an alert of that or greater priority is received. Possible values are: 0 = None 1 = High 2 = Medium 3 = Low
BEHOXQ SHOW ALL		Boolean	User, Division, System	If set to YES, the default setting for displaying notifications in the graphical interface is “all patient.” If set to NO, the default setting is “selected patient only.”
BEHOXQ SHOW HINT		Boolean	User, Division, System	If set to YES, the default setting for displaying the hint dialog for each notification is enabled. If set to NO, no hint dialog appears.

Parameter	Instance Type	Value Type	Precedence	Description
BEHOXQ SORT BY		Set	User, Division, System	Method for sorting notifications when displayed. Methods include: by Patient, by Type (Notification name), and by Urgency. Within these sort methods notifications are presented in reverse chronological order.
BEHOXQPC REQUIRES E&M CODE		Boolean	User, Class	Indicates whether or not a primary provider requires an E&M code for billing purposes.

48.11 Exported Mail Groups

None.

48.12 Callable Routines

This section describes supported entry points for routines exported with this component.

48.12.1 RPC: BEHOXQ ALRLIST

Scope: Private

Parameter	Datatype	Description
DFN(optional)	Pointer (#2)	Patient IEN. If not specified, retrieves for all patients.
ST(optional)	FM Date/Time	Option starting date/time for retrieval.
<return value>	String List	List of records in the format: Priority^Info Only^Patient Name^Display Text^Date Delivered^ Sender Name^DFN^Alert Type^Alert ID^Can Delete^Extra Info

Returns a list of notifications matching the specified criteria.

48.12.2 RPC: BEHOXQ ALRMSG

Scope: Private

Parameter	Datatype	Description
AID	String	Alert id
<return value>	String List	Message text associated with the alert.

Retrieve comment and message text associated with an alert.

48.12.3 RPC: BEHOXQ ALRPP

Scope: Private

Parameter	Datatype	Description
AID	String	Alert id
<return value>	Pointer (#90460.021)	IEN of control file entry.

Performs post processing logic for an alert.

48.12.4 RPC: BEHOXQ CANCHGPT

Scope: Private

Parameter	Datatype	Description
AID	String	Alert id
<return value>	Pointer (#90460.021)	IEN of control file entry.

Performs post processing logic for an alert.

48.12.5 RPC: BEHOXQ FORWARD

Scope: Private

Parameter	Datatype	Description
AID	Array	List of alert IDs to forward.
USR	Array	List of recipients
CMT(optional)	String	Comment text.
<return value>	Integer	Always 0.

Forwards an alert.

48.12.6 RPC: BEHOXQ SCHALR

Scope: Private

Parameter	Datatype	Description
DAT	FM Date/Time	Date and time of scheduled delivery.
ID	String	Notification ID
SBJ	String	Notification subject.
XTR	String	Additional control data.
MSG	String List	Message text.
RCP	Array	List of recipient IENs (if negative, assumes mail group IEN, otherwise user IEN).
<return value>	Boolean	True if successful.

Schedules an alert for later delivery.

48.12.7 RPC: BEHOXQ SCHDEL

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#90460.022)	IEN of entry to delete.
<return value>	Boolean	True if successful.

Deletes a scheduled alert.

48.12.8 RPC: BEHOXQ SCHLIST

Scope: Private

Parameter	Datatype	Description
ID	String	Alert ID
USR(optional)	Pointer (#200)	If not specified, assumes current user.
<return value>	String List	List of records in the format: IEN^Date^Patient Name^Subject^Data

Lists alerts scheduled by the specified user.

48.12.9 RPC: BEHOXQ SCHMSG

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#90460.022)	IEN of scheduled alert.
<return value>	String List	Message text.

Returns message text associated with a scheduled alert.

48.12.10 RPC: BEHOXQ SCHRECIP

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#90460.022)	IEN of scheduled alert.
<return value>	String List	List of recipients

Returns a list of recipients for a scheduled alert.

48.12.11 RPC: BEHOXQPC NOEMC

Scope: Private

Parameter	Datatype	Description
VSIT	Pointer (#9000010)	Visit IEN
PRI(optional)	Integer	Priority (defaults to 3)
<return value>	Boolean	Returns true if alert not needed.

Generate a missing E&M code alert.

48.12.12 RPC: BEHOXQPC NOPOV

Scope: Private

Parameter	Datatype	Description
VSIT	Pointer (#9000010)	Visit IEN
PRI(optional)	Integer	Priority (defaults to 3)
<return value>	Boolean	Returns true if alert not needed.

Generate a missing POV alert.

48.13 External Relations

Entity	Name	Description
Package	KERNEL 8.0	Uses supported alert APIs.

48.14 Internal Relations

None.

48.15 Archiving and Purging

There are no archiving or purging requirements within this software.

48.16 Components

This component supports the following properties and methods:

48.16.1 Properties

Property	Datatype	Access	Description
ALERTTHRESHOLD	Enum	RW	Sets the priority threshold at or above which a popup alert is issued when a notification is received. One of: 0 = Never 1 = High 2 = Medium 3 = Low
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.

Property	Datatype	Access	Description
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Column layout information.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
LEGEND	Enum	RW	Controls the position of the legend. One of: 0 = Position on left 1 = Position on right 2 = Hide legend
SHOWALL	Boolean	RW	If true, notifications for all patients are shown. If false, only those for the current patient are shown.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

48.16.2 Schedule

Scope: Private

Invokes the notification scheduling dialog.

49.0 Alerts

49.1 Introduction

Figure 49-1: Alerts component

The Alerts component displays selected alerts for display on the cover sheet. This component is provided for backward compatibility and has been largely replaced by the Notifications component.

49.2 Architecture and Business Process Overview

Figure 49-2: Architecture and business process overview

49.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHALERTS.ALERTS
Class Identifier	{09C3EEF7-591F-4529-96D3-7E7B90B0D4F5}
Image File	BEHAlerts.ocx
Property Initializations	none

Entity	Value
Serializable Properties	ALLOWPRINT=BOOL, AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, DEFERUPDATE=BOOL, DETAILPANE=BOOL, ORIENTATION=ENUM, LAYOUT=HIDDEN
Required Files	
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*026001

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

49.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHOXQCV." The following routines are distributed:

Routine	Description
BEHOXQCV	Alert cover sheet support.

49.5 File List

None.

49.6 Cross References

None.

49.7 Exported Options

None.

49.8 Exported Security Keys

None.

49.9 Exported Protocols

None.

49.10 Exported Parameters

None.

49.11 Exported Mail Groups

None.

49.12 Callable Routines

This section describes supported entry points for routines exported with this component.

49.12.1 RPC: BEHOXQCV DETAIL

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
AID	String	Alert ID
<return value>	String List	Detail text of alert.

This RPC has not been implemented.

49.12.2 RPC: BEHOXQCV LIST

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
FLG	String	Controls what alerts are returned. One of: A = one patient, all users (default) U = one patient, one user P = all patients, one user
<return value>	String List	List of alerts matching the specified criteria.

Returns a list of alerts matching the specified criteria.

49.13 External Relations

Entity	Name	Description
Package	KERNEL 8.0	Calls supported alert APIs.

49.14 Internal Relations

None.

49.15 Archiving and Purging

There are no archiving or purging requirements within this software.

49.16 Components

This component supports the following properties and methods:

49.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ALLOWPRINT	Boolean	RW	If true, a print button will appear on the detail dialog allowing printing of the contents.
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.

Property	Datatype	Access	Description
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
DEFERUPDATE	Boolean	RW	If true, data refresh is deferred until the component becomes visible. If false, data refresh happens immediately.
DETAILPANE	Boolean	RW	If true, a detail pane appears next to the list view that displays detail text of the selected entry. If false, detail text appears in a popup dialog when an entry is clicked.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
ORIENTATION	Enum	RW	Sets the orientation of the detail pane. May be one of: 0 = Horizontal 1 = Vertical

Property	Datatype	Access	Description
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

50.0 Crisis Alerts

50.1 Introduction

Figure 50-1: Crisis Alerts component

The Crisis Alerts component displays crisis-related information.

50.2 Architecture and Business Process Overview

Figure 50-2: Architecture and business process overview

50.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHCRISES.CRISES
Class Identifier	{9D8BA58A-66EB-4246-9FF2-F6C252D0F467}
Image File	BEHCrises.ocx
Property Initializations	none
Serializable Properties	ALLOWPRINT=BOOL, AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, DEFERUPDATE=BOOL, DETAILPANE=BOOL, ORIENTATION=ENUM, LAYOUT=HIDDEN
Required Files	BEHCrises.chm
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*029004

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

50.4 Routine Descriptions

This component has been assigned the namespace designation of “BEHOCA.” The following routines are distributed:

Routine	Description
BEHOCACV	Crisis alerts cover sheet support.

50.5 File List

None.

50.6 Cross References

None.

50.7 Exported Options

None.

50.8 Exported Security Keys

None.

50.9 Exported Protocols

None.

50.10 Exported Parameters

None.

50.11 Exported Mail Groups

None.

50.12 Callable Routines

This section describes supported entry points for routines exported with this component.

50.12.1 RPC: BEHOCACV CWAD

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
<return value>	String	Returns string containing one or more of: C, W, A, D.

Returns string containing one or more of: C, W, A, D.

50.12.2 RPC: BEHOCACV DETAIL

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN

Parameter	Datatype	Description
<return value>	String List	Detail report for allergies/adverse reactions.

Produces a detail report of a patient's allergies/adverse reactions.

50.12.3 RPC: BEHOCACV LIST

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
<return value>	String List	List of crisis alerts for populating list.

Returns a list of crisis alerts for a patient.

50.12.4 RPC: BEHOCACV PRF

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
IEN	Pointer (#26.13)	PRF Assignment IEN
<return value>	String List	Patient record detail

Returns patient record flag detail.

50.13 External Relations

Entity	Name	Description
Package	TIU 1.0	Uses following API calls: ENCOVER^TIUPP3
Package	ADVERSE REACTION TRACKING 4.0	Uses following API calls: EN1^GMRAOR1

50.14 Internal Relations

None.

50.15 Archiving and Purging

There are no archiving or purging requirements within this software.

50.16 Components

This component supports the following properties and methods:

50.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ALLOWPRINT	Boolean	RW	If true, a print button will appear on the detail dialog allowing printing of the contents.
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.

Property	Datatype	Access	Description
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
DEFERUPDATE	Boolean	RW	If true, data refresh is deferred until the component becomes visible. If false, data refresh happens immediately.
DETAILPANE	Boolean	RW	If true, a detail pane appears next to the list view that displays detail text of the selected entry. If false, detail text appears in a popup dialog when an entry is clicked.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
ORIENTATION	Enum	RW	Sets the orientation of the detail pane. May be one of: 0 = Horizontal 1 = Vertical
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

51.0 Crises/Warnings/Alerts/Directives

51.1 Introduction

Figure 51-1: CWAD component

The CWAD component provides a compact display of critical status flags.

51.2 Architecture and Business Process Overview

Figure 51-2: Architecture and business process overview

51.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHCWAD.CWAD
Class Identifier	{4BF06C7D-9E61-4F2E-B910-4793BDB0BD3C}
Image File	BEHCWAD.ocx
Property Initializations	none
Serializable Properties	COLOR=COLOR
Required Files	none
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*030003

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

51.4 Routine Descriptions

None.

51.5 File List

None.

51.6 Cross References

None.

51.7 Exported Options

None.

51.8 Exported Security Keys

None.

51.9 Exported Protocols

None.

51.10 Exported Parameters

None.

51.11 Exported Mail Groups

None.

51.12 Callable Routines

None.

51.13 External Relations

Entity	Name	Description
Package	TIU 1.0	Calls supported APIs.
Package	GMRA 4.0	Calls supported APIs.

51.14 Internal Relations

Entity	Name	Description
Component	Crisis Alerts	Calls supported APIs.

51.15 Archiving and Purging

There are no archiving or purging requirements within this software.

51.16 Components

This component supports the following properties and methods:

51.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
MINHEIGHT	Integer	RW	Sets the minimum height, in pixels, that the component may attain.
MINWIDTH	Integer	RW	Sets the minimum width, in pixels, that the component may attain.
THEMEAWARE	Boolean	RW	If true, the component is rendered as a themed button.

Property	Datatype	Access	Description
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

52.0 Reminders

52.1 Introduction

Figure 52-1: Reminders component

The Reminders component provides an overview of active reminders for display on the cover sheet.

52.2 Architecture and Business Process Overview

Figure 52-2: Architecture and business process overview

52.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHREMINDERS.REMINDERS
Class Identifier	{F50C0969-8453-407D-AE42-F7326FC7833C}
Image File	BEHReminders.ocx
Property Initializations	none

Entity	Value
Serializable Properties	ALLOWPRINT=BOOL, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, DEFERUPDATE=BOOL, DETAILPANE=BOOL, ORIENTATION=ENUM, LAYOUT=HIDDEN
Required Files	BEHReminders.chm
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*041001

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

52.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHORMCV." The following routines are distributed:

Routine	Description
BEHORMCV	Reminder cover sheet support.

52.5 File List

None.

52.6 Cross References

None.

52.7 Exported Options

None.

52.8 Exported Security Keys

None.

52.9 Exported Protocols

None.

52.10 Exported Parameters

None.

52.11 Exported Mail Groups

None.

52.12 Callable Routines

This section describes supported entry points for routines exported with this component.

52.12.1 BEHORMCV DETAIL

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
IEN	Pointer (#811.9)	Reminder IEN
<return value>	String List	Detailed information about the specified reminder.

Returns detailed information about the specified reminder.

52.12.2 BEHORMCV LIST

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
LOC	Pointer (#44)	Hospital Location IEN
SRV	Pointer (#49)	Service/Section IEN
<return value>	String List	List of records in the format: ien (811.9)^reminder print name^date due^last occur

Returns a list of currently due reminders matching specified criteria.

52.13 External Relations

Entity	Name	Description
Package	CLINICAL REMINDERS 2.0	Uses following API calls: MAIN^PXRM CATREM^PXRMAPI0 INACTIVE^PXRM

52.14 Internal Relations

None.

52.15 Archiving and Purging

There are no archiving or purging requirements within this software.

52.16 Components

This component supports the following properties and methods:

52.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ALLOWPRINT	Boolean	RW	If true, a print button will appear on the detail dialog allowing printing of the contents.
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.

Property	Datatype	Access	Description
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
DEFERUPDATE	Boolean	RW	If true, data refresh is deferred until the component becomes visible. If false, data refresh happens immediately.
DETAILPANE	Boolean	RW	If true, a detail pane appears next to the list view that displays detail text of the selected entry. If false, detail text appears in a popup dialog when an entry is clicked.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
ORIENTATION	Enum	RW	Sets the orientation of the detail pane. May be one of: 0 = Horizontal 1 = Vertical
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

53.0 View Reminders

53.1 Introduction

Figure 53-1. View Reminders component

The View Reminders component indicates if there are reminders due and provides a means to view them.

53.2 Architecture and Business Process Overview

Figure 53-2: Architecture and business process overview

53.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHREMINDERSVIEW.REMINDERSVIEW
Class Identifier	{8AFF85FD-6EA4-4653-AF48-B15C0911D81F}
Image File	BEHRemindersView.ocx
Property Initializations	none
Serializable Properties	CAPTION=TEXT, COLOR=COLOR
Required Files	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	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*024002

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

53.4 Routine Descriptions

None.

53.5 File List

None.

53.6 Cross References

None.

53.7 Exported Options

Option	Type	Description
BEHORM (IN)/ACTIVATE REMINDERS	edit	This option is used to make reminders active or inactive.

Option	Type	Description
BEHORM CATEGORY EDIT/INQUIRE	action	Add/edit reminder categories.
BEHORM CF MANAGEMENT	menu	Reminder computed finding management menu.
BEHORM COMPUTED FINDING EDIT	action	Reminder computed finding edit.
BEHORM COMPUTED FINDING LIST	print	This option lists the computed findings that are defined at a site.
BEHORM DEFAULT LOCATION	action	Default outside location.
BEHORM DEFINITION COPY	action	Copy reminder definition.
BEHORM DEFINITION EDIT	action	This option is used to edit the clinical reminder definitions.
BEHORM DEFINITION INQUIRY	action	Inquire about a reminder definition.
BEHORM DEFINITION LIST	action	List reminder definitions.
BEHORM DIALOG MANAGEMENT	menu	Reminder dialog management menu.
BEHORM DIALOG PARAMETERS	menu	Dialog parameters menu.
BEHORM DIALOG/COMPONENT EDIT	action	Reminder dialog edit.
BEHORM EHR CONFIGURATION	action	Allow EHR configuration in GUI.
BEHORM EHR COVER SHEET LIST	action	EHR cover sheet reminder list.
BEHORM EHR LOOKUP CATEGORIES	action	EHR lookup categories.

Option	Type	Description
BEHORM EXTRACT EPI FINDING LIS	print	This option allows printing extract results stored in the REMINDER EXTRACT SUMMARY file (810.3). This option lists extracted data by finding item and social security number. The finding items are loaded into the REMINDER EXTRACT SUMMARY file when one of the following options is run: LREPI ENHANCE MANUAL RUN Lab Search/Extract Manual Run (Enhanced) LREPI NIGHTLY TASK Lab Search/Extract Nightly Task The Lab EPI (Emerging Pathogens Initiative) extract name follows the convention: LREPI YY/MM MMDDYY, where the YY/MM is the year and month from the date range specified by the LREPI extract option that created the extract. MMDDYY is the month, day and year that the extract was run. The prefix of LREPI identifies the extract as the result of LREPI extract options (manual or automatic run for the LREPI Lab Search/Extract Protocol). To print all extracts for the target reporting month, enter **LREPI YY/MM** at the "From" prompt, with the year and month's data to be reported. At the "To" prompt, you can limit the print to extracts for the reporting month by adding a suffix to the LREPI YY/MM. For example **LREPI YY/MM z** will get all extracts that were created for the target reporting month, regardless of when they were run. If there are multiple runs for the target month, you can further define the From and To range by specifying LREPI YY/MM MMDDYY with the MMDDYY being the date the report was run. There will normally only be one extract per month. More than one will exist if your site runs the LREPI ENHANCE MANUAL RUN to correct errors found by the Austin Automation Center on the monthly transmission of EPI data sent by the LREPI NIGHTLY TASK.
BEHORM EXTRACT EPI TOTALS	print	This option is used to summarize total counts for each type of finding item that was extracted for the target date range of the LREPI ENHANCE MANUAL RUN or the LREPI NIGHTLY TASK option run.
BEHORM FINDING ITEM PARAMETERS	action	Finding item parameters.
BEHORM FINDING TYPE PARAMETERS	action	General finding type parameters.
BEHORM GUI REMINDERS ACTIVE	action	Reminder GUI resolution active.
BEHORM HEALTH FACTOR RESOLUTIO	action	Health factor resolutions.
BEHORM INFO ONLY	menu	Reminder information only menu
BEHORM MAIN	menu	Reminder configuration menu.
BEHORM NEW REMINDER PARAMETERS	action	New reminder parameters.
BEHORM PARAMETERS	menu	Reminder parameters menu.

Option	Type	Description
BEHORM PROGRESS NOTE HEADERS	action	Progress note headers.
BEHORM REMINDER EXCHANGE	action	Reminder exchange.
BEHORM REMINDER MANAGEMENT	menu	Reminder definition management.
BEHORM REMINDER REPORTS	menu	Reminder reports.
BEHORM REMINDER TEST	action	Reminder test.
BEHORM REMINDERS DUE	action	Reminders due report.
BEHORM REMINDERS DUE (USER)	action	Reminders due report (user).
BEHORM REPORT TEMPLATE (USER)	action	User report templates.
BEHORM RESOLUTION EDIT/INQUIRE	action	Reminder resolution statuses.
BEHORM REVIEW DATES	action	Review date report.
BEHORM SPONSOR EDIT	action	Edit reminder sponsor.
BEHORM SPONSOR INQUIRY	action	Reminder sponsor inquiry.
BEHORM SPONSOR LIST	action	List reminder sponsors.
BEHORM SPONSOR MANAGEMENT	menu	Reminder sponsor management menu.
BEHORM TAXONOMY COPY	action	Copy taxonomy item.
BEHORM TAXONOMY DIALOG	action	Taxonomy dialog parameters.
BEHORM TAXONOMY EDIT	action	Edit taxonomy item.
BEHORM TAXONOMY INQUIRY	action	Inquire about taxonomy item.

Option	Type	Description
BEHORM TAXONOMY LIST	action	This option lists the current definitions of all the taxonomies defined in the REMINDER TAXONOMY file. The REMINDER TAXONOMY file is used to define a range of coded values from ICD Diagnosis codes, ICD Operation / Procedures codes, and CPT codes that can be viewed as being part of a clinical category (taxonomy). Each entry has a low value and a high value. The software will search for matches on all the codes between the low and high values inclusive. If there is a match then the taxonomy finding will be true for the patient.
BEHORM TAXONOMY MANAGEMENT	menu	Reminder taxonomy management menu.
BEHORM TERM COPY	action	Copy reminder term.
BEHORM TERM EDIT	action	Reminder term edit.
BEHORM TERM INQUIRY	action	Inquire about reminder term.
BEHORM TERM LIST	action	This option is used to give a brief listing of reminder terms.
BEHORM TERM MANAGEMENT	menu	Reminder term management menu.
BEHORM TEXT AT CURSOR	action	Position reminder text at cursor.

53.8 Exported Security Keys

None.

53.9 Exported Protocols

None.

53.10 Exported Parameters

None.

53.11 Exported Mail Groups

None.

53.12 Callable Routines

None.

53.13 External Relations

Entity	Name	Description
Package	CLINICAL REMINDERS 2.0	Uses supported APIs

53.14 Internal Relations

None.

53.15 Archiving and Purging

There are no archiving or purging requirements within this software.

53.16 Components

This component supports the following properties and methods:

53.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
COLOR	Color	RW	Sets the background color of the component.

Property	Datatype	Access	Description
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
MINHEIGHT	Integer	RW	Sets the minimum height, in pixels, that the component may attain.
MINWIDTH	Integer	RW	Sets the minimum width, in pixels, that the component may attain.
THEMEAWARE	Boolean	RW	If true, the component is rendered as a themed button.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

54.0 Integrated Signature Tool

54.1 Introduction

Figure 54-1: Integrated Signature Tool

The Integrated Signature Tool component provides ready access to the electronic signature service.

54.2 Architecture and Business Process Overview

Figure 54-2: Architecture and business process overview

54.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHESIGREVIEW.REVIEW
Class Identifier	{BE3EA83C-0D4A-428E-80E3-5D63ED3B0915}
Image File	BEHESigReview.ocx
Property Initializations	
Serializable Properties	CAPTION=TEXT, COLOR=COLOR
Required Files	
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*016002

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

54.4 Routine Descriptions

None.

54.5 File List

None.

54.6 Cross References

None.

54.7 Exported Options

None.

54.8 Exported Security Keys

None.

54.9 Exported Protocols

None.

54.10 Exported Parameters

None.

54.11 Exported Mail Groups

None.

54.12 Callable Routines

None.

54.13 External Relations

None.

54.14 Internal Relations

Entity	Name	Description
Component	Electronic Signature Service	Uses supported APIs.

54.15 Archiving and Purging

There are no archiving or purging requirements within this software.

54.16 Components

This component supports the following properties and methods:

54.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the button caption.
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
GLYPH	String	RW	Name of bitmap file containing glyphs to be displayed on button surface.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
NUMGLYPHS	Integer	RW	Number of glyphs contained in glyph file.

Property	Datatype	Access	Description
TITLE	String	RW	Title for the report.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

55.0 Electronic Signature Service

55.1 Introduction

The Electronic Signature Service provides unified electronic signature capabilities across the application.

55.2 Architecture and Business Process Overview

Figure 55-1: Architecture and business process overview

55.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHESIGSERVICE.ESIGSERVICE
Class Identifier	{295FF753-C73B-449F-97F3-6A9EF2972E84}
Image File	BEHESigService.dll
Property Initializations	none
Serializable Properties	none

Entity	Value
Required Files	none
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	yes
Side-by-Side Versioning	yes
Service	yes
.Net Component	no
Associated Build	BEHO*1.1*016002

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

55.4 Routine Descriptions

None.

55.5 File List

None.

55.6 Cross References

None.

55.7 Exported Options

None.

55.8 Exported Security Keys

None.

55.9 Exported Protocols

None.

55.10 Exported Parameters

None.

55.11 Exported Mail Groups

None.

55.12 Callable Routines

None.

55.13 External Relations

Entity	Name	Description
Package	ORDER ENTRY/RESULTS REPORTING 3.0	Uses supported APIs.
Library	BEH2FA	Two Factor Authentication Service

55.14 Internal Relations

None.

55.15 Archiving and Purging

There are no archiving or purging requirements within this software.

55.16 Components

This component supports the following properties and methods:

55.16.1 Properties

Property	Datatype	Access	Description
CanSign	Boolean	R	True if any items in the signature list can be signed by the user.
Count	Integer	R	Count of items in the signature list.
RequireReview	Boolean	R	True if any items in signature list require manual review.

55.16.2 Add

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ID	String	Unique ID of the signature item.
ItemText	String	Text to be displayed in the signature review list.

Parameter	Datatype	Description
GroupName	String	Group under which item is to be displayed.
SignState	Enum	One of: 0 = Not applicable 1 = Yes 2 = No

Add a signature item to the list.

55.16.3 Clear

Scope: Public

Removes all items from the signature list.

55.16.4 Exist

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ID	String	Unique ID of the signature item.
<return value>	Boolean	True if the item exists.

Checks for the existence of a signature item.

55.16.5 ExistForOrder

Scope: Public

Parameter	Datatype	Description
ID	Integer	Unique ID of the signature item.
<return value>	Boolean	True if the order exists.

Checks for the existence of an order signature item with the specified ID.

55.16.6 RegisterType

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	The ID of the item type to be registered.
GroupPrefix	String	Group prefix for this item type.

Registers an item type. An exception occurs if the item type already exists.

55.16.7 Remove

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ID	String	Unique ID of the signature item.

Removes the specified item from the signature list.

55.16.8 RenameGroup

Scope: Public

Parameter	Datatype	Description
OldGroup	String	Original group name.
NewGroup	String	New group name.

Renames an existing group.

55.16.9 ReplaceGroup

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ItemID	String	Unique ID of the signature item.
NewGroup	String	New group name.

Replaces the group name associated with a signature item.

55.16.10 ReplaceID

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
OldID	String	Unique ID of the signature item.
NewID	String	Unique ID of the signature item.

Replaces the ID associated with a signature item.

55.16.11 ReplaceSignState

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ID	String	Unique ID of the signature item.
NewState	Enum	One of: 0 = Not applicable 1 = Yes 2 = No

Replaces the signature state for the specified signature item.

55.16.12 ReplaceText

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ID	String	Unique ID of the signature item.
Text	String	New display text.

Replaces the display text for the specified signature item.

55.16.13 Review

Scope: Public

Parameter	Datatype	Description
Silent	Boolean	If true, process all signature items as unsigned without user interaction.
<return value>	Boolean	False if the signature review dialog was cancelled.

Review all signature items.

55.16.14 ReviewItems

Scope: Public

Parameter	Datatype	Description
ItemType	Integer	Indicates the registered type of the signature item.
ItemIDs	String	List of signature item ids to be reviewed.
<return value>	Boolean	False if the signature review dialog was cancelled.

Review selected signature items.

56.0 Allergies

56.1 Introduction

Adverse Reactions

Agent	Reaction
AMPICILLIN	RASH
ASPIRIN	RASH
PENICILLIN	HYPOTENSION;HIV...

Figure 56-1: Adverse Reactions component

The Allergies (Adverse Reactions) component provides a quick overview of recorded adverse reactions.

56.2 Architecture and Business Process Overview

Figure 56-2: Architecture and business process overview

56.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHALLERGIES.ALLERGIES
Class Identifier	{9678D129-51CF-438C-944E-A0AE7AA026A4}
Image File	BEHAllergies.ocx
Property Initializations	none
Serializable Properties	ALLOWPRINT=BOOL, AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, DEFERUPDATE=BOOL, DETAILPANE=BOOL, ORIENTATION=ENUM, LAYOUT=HIDDEN
Required Files	BEHAllergies.chm
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*027003

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

56.4 Routine Descriptions

This component has been assigned the namespace designation of “BEHOARCV.” The following routines are distributed:

Routine	Description
BEHOARCV	Adverse reaction cover sheet support.

56.5 File List

None.

56.6 Cross References

None.

56.7 Exported Options

None.

56.8 Exported Security Keys

None.

56.9 Exported Protocols

None.

56.10 Exported Parameters

None.

56.11 Exported Mail Groups

None.

56.12 Callable Routines

This section describes supported entry points for routines exported with this component.

56.12.1 RPC: BEHOARCV DETAIL

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
ADR	Pointer (#120.8)	Adverse reaction IEN.
<return value>	String List	Detail text.

Returns details about the specified adverse reaction.

56.12.2 RPC: BEHOARCV LIST

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
<return value>	String List	List of adverse reaction entries.

Returns a list of adverse reaction entries for populating the list view.

56.13 External Relations

Entity	Name	Description
Package	ADVERSE REACTION TRACKING 4.0	Uses supported APIs.

56.14 Internal Relations

None.

56.15 Archiving and Purging

There are no archiving or purging requirements within this software.

56.16 Components

This component supports the following properties and methods:

56.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ALLOWPRINT	Boolean	RW	If true, a print button will appear on the detail dialog allowing printing of the contents.

Property	Datatype	Access	Description
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
DEFERUPDATE	Boolean	RW	If true, data refresh is deferred until the component becomes visible. If false, data refresh happens immediately.
DETAILPANE	Boolean	RW	If true, a detail pane appears next to the list view that displays detail text of the selected entry. If false, detail text appears in a popup dialog when an entry is clicked.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.

Property	Datatype	Access	Description
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
ORIENTATION	Enum	RW	Sets the orientation of the detail pane. May be one of: 0 = Horizontal 1 = Vertical
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

57.0 Asthma Zones Control

57.1 Introduction

The Asthma Zones component provides a view of the Asthma Zones and notes for all enter history.

IEN_Zor	Entry Date	Zone	Instructions
115 YEL	11/29/2011	YELLOW	Yellow Zone instructions these are not as important as the Red Zone
115 R...	11/29/2011	RED	Red Zone new instructions for changing the actions of the patient.123
113 YEL	10/3/2011	YELLOW	Yellow Zone instructions these are not as important as the Red Zone
113 R...	10/3/2011	RED	Red Zone new instructions for changing the actions of the patient.123
112 YEL	10/5/2011	YELLOW	Yellow Zone instructions these are not as important as the Red Zone
112 R...	10/5/2011	RED	Red Zone new instructions for changing the actions of the patient.12
111 YEL	10/3/2011	YELLOW	Yellow Zone instructions these are not as important as the Red Zone
111 R...	10/3/2011	RED	Red Zone new instructions for changing the actions of the patient.

Figure 57-1: Asthma Zones component

57.2 Architecture and Business Process Overview

Figure 57-2: Architecture and business process overview

57.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	IHSBGOASTHMAZONES.BGOASTHMAZONES
Class Identifier	{207AD3EE-21A9-4EFF-90CE-5B7C23CEE24B}
Image File	IhsBgoAsthmaZones.dll
Property Initializations	none
Serializable Properties	none
Required Files	IhsBgoAsthmaZones.chm
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no

Entity	Value
Hidden from Property Editor	no
Side-by-Side Versioning	no
Service	no
.Net Component	yes
Associated Build	BGO*1.1*17

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

57.4 Routine Descriptions

This component has been assigned the namespace designation of "BGOVAST." The following routines are distributed:

Routine	Description
BGOVAST	Asthma component support.

57.5 File List

None.

57.6 Cross References

None.

57.7 Exported Options

None.

57.8 Exported Security Keys

None.

57.9 Exported Protocols

None.

57.10 Exported Parameters

None.

57.11 Exported Remote Procedures

RPC	Routine	Entry Point
BGOVAST GETZONE	BGOVAST	GETZONE
BGOVAST SETZONE	BGOVAST	SETZONE

57.12 Exported Mail Groups

None.

57.13 Callable Routines

This section describes supported entry points for routines exported with this component.

57.13.1 RPC: BGOVAST GETZONE

Scope: Private

Parameter	Datatype	Description
DFN	String	Patient's IEN
<return value>	Array	List of records in the format: RED |1| ^ RED ZONE |2| ^ DATE |3| Example: ^TMP("BGO",4448,1)="RED^RED ZONE INSTRUCTIONS ^3110920" ^TMP("BGO",4448,2)="YELLOW^YELLOW ZONE INSTRUCTIONS^3110920"

Returns the latest RED and YELLOW zone asthma instructions for a patient.

57.13.2 RPC: BGOVAST SETZONE

Scope: Private

Parameter	Datatype	Description
DFN	String	Patient's IEN
VFIEN	String	V Asthma File IEN
INP	String List	Specified as: RED |1| ^ Red Zone Instructions |2| ^ Date |3| YELLOW |1| ^ Yellow Zone Instructions |2| ^ Date |3|
<return value>	Array	Failure: -n^error text Success: V Asthma File IEN

Enters the RED and YELLOW zone asthma instructions for a particular visit.

57.14 External Relations

Entity	Name	Description
Package	IHS PCC SUITE 2.0	Uses supported APIs.

57.15 Internal Relations

None.

57.16 Archiving and Purging

There are no archiving or purging requirements within this software.

57.17 Components

This component supports the following properties and methods:

57.18 Properties

None.

58.0 Chart Review

58.1 Introduction

The Chart Review component provides a quick overview of the review status for the Problem List, the Adverse Reactions and Medications and allows the user to do an instant review.

Figure 58-1: Chart Review component

58.2 Architecture and Business Process Overview

Figure 58-2: Architecture and business process overview

58.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHCHARTREVIEW.CHARTREVIEW
Class Identifier	{CED564CE-246A-4194-BBE3-7DED40244952}
Image File	BEHChartReview.dll
Property Initializations	none
Serializable Properties	REVIEWEDCAPTION – TEXT REVIEWEDHINT - TEXT

Entity	Value
Required Files	BEHChartReview.chm
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	No
.Net Component	Yes
Associated Build	BEHO*1.1*053001

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

58.4 Routine Descriptions

This component has been assigned the namespace designation of "BGOVUPD." The following routines are distributed:

Routine	Description
BGOVUPD, BGOVUPD2	Chart Review support

58.5 File List

None.

58.6 Cross References

None.

58.7 Exported Options

None.

58.8 Exported Security Keys

None.

58.9 Exported Protocols

None.

58.10 Exported Parameters

None.

58.11 Exported Remote Procedures

RPC	Routine	Entry Point
BGOVUPD GET	BGOVUPD	GET
BGOVUPD GETTYP	BGOVUPD	GETTYP
BGOVUPD SET	BGOVUPD	SET
BGOUPD2 REVIEW	BGOVUPD2	REVIEW

58.12 Exported Mail Groups

None.

58.13 Callable Routines

None.

58.14 External Relations

Entity	Name	Description
Package	IHS PCC SUITE 2.0	Uses supported APIs.

58.15 Internal Relations

None.

58.16 Archiving and Purging

There are no archiving or purging requirements within this software.

58.17 Components

This component supports the following properties and methods:

58.17.1 RPC: BGOVUPD GET

Scope: Private

Parameter	Datatype	Description
INP	String	Specified as: Patient IEN |1| ^ VIEN |2| ^ Start Dt |3| ^End Dt |4|

Parameter	Datatype	Description
<return value>	String List	List of records in the format: IEN |1| ^ Action |2| ^ Action Type |3| ^ Visit Date |4| ^Date/time entered |5| ^ Entered by |6| ^ Event Date/Time |7| ^ Encounter provider |8|

Return entries in the V UPDATED/REVIEWED File for either a visit or a date range.

58.17.2 RPC: BGOVUPD SET

Scope: Private

Parameter	Datatype	Description
INP	String	Specified as: Update Type IEN |1| ^ V File IEN |2| ^Visit IEN |3| ^ Event Day/time |4| ^ Provider IEN |5| ^ Delete |6| ^ Delete Reason~free text reason |7| If the V File IEN is empty, it is assumed that a new entry is to be made. Items in this file are not deleted. Field 6 and 7 will mark the entry as entered in error.
<return value>	String	Failure: -n^error text Success: V File IEN

Stores an entry into the V Updated/Reviewed File entry.

58.17.3 RPC: BGOVUPD2 GETTYP

Scope: Private

Parameter	Datatype	Description
CODE	String	Type of actions to return. Combination of the letters PAM.
<return value>	String List	List of records in the format: IEN |1| ^ Text |2|

Return entries from the CLINICAL REVIEW ACTION File.

58.17.4 RPC: BGOVUPD2 REVIEW

Scope: Private

Parameter	Datatype	Description
INP	String	Specified as: VIEN |1| ^ User DFN |2| ^ Type |3| The Type value is any combination of one or more of the letters PAM indicating problem list, allergies or medications.

Parameter	Datatype	Description
<return value>	String List	List of records in the format: Code |1| ^ V UPDATED/REVIEWED IEN |2| ^ Text |3| ^ Patient has entris |4|

Returns the latest entry in the V UPDATED/REVIEWED File for a visit and a provider.

58.18 Properties

Property	Datatype	Access	Description
REVIEWEDCAPTION	Text	RW	Sets the text displayed for the caption on the Chart Review Buttons.
REVIEWEDHINT	Text	RW	The generic hint displayed for the Chart Review buttons.

59.0 Patient Goals

59.1 Introduction

The Patient Goals component provides a way to enter and update patient goals and their steps, enabling a physician and patient to track the progress made in meeting a goal.

Figure 59-1: Patient Goals component

59.2 Architecture and Business Process Overview

Figure 59-2: Architecture and business process overview

59.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	PGFORMSUSERCONTROL.PGFORMSUSERCONTROL
Class Identifier	{98506B29-FF3F-4E4A-8BE2-2AE5588586BB}
Image File	BEHPatientGoals.dll
Property Initializations	none
Serializable Properties	none

Entity	Value
Required Files	PG.Infrastructure.dll PG.Modules.DataAccess.dll PG.Modules.History.dll PG.Modules.Task.dll PGUserControl.dll
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	no
.Net Component	yes
Associated Build	BEHO*1.1*058001

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

59.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHOGOAL." The following routines are distributed:

Routine	Description
BEHOPGAP	Routine which is a wrapper around published APIs in the APCD namespace to get and store data in patient goals.

59.5 File List

None.

59.6 Cross References

None.

59.7 Exported Options

None.

59.8 Exported Security Keys

None.

59.9 Exported Protocols

None.

59.10 Exported Parameters

None.

59.11 Exported Mail Groups

None.

59.12 Callable Routines

This section describes supported entry points for routines exported with this component.

59.12.1 RPC: BEHOPGAP ADDGOAL

Add a new goal for this patient

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
GDAT	Array	Array of goal data DATA(0)=?GOAL?^ GOAL SET STATUS^WHERE SET^GOAL NUMBER^PROVIDER^^ USER DATA(1)=?TYPE?^ GOAL TYPE^GOAL TYPE^GOAL TYPE ETC ~GOAL TYPES DATA(2)=?NAME?^GOAL NAME (FREE TEXT) DATA(3)=?REASON?^GOAL REASON(FREE TEXT)
<return value>	String	Ien of Pt goal entry or 0^error message

Returns the IEN of patient goal entry created or an error message.

59.12.2 RPC: BEHOPGAP ADDREV

Add a review date for a particular goal

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Goal IEN.
REVD	Date	Date goal reviewed
REVT	Free Text	Review Text

Parameter	Datatype	Description
<return value>	String	IEN of review sub-entry or an error text

Returns the IEN of review sub-field entry in patient goal entry created OR an error message

59.12.3 RPC: BEHOPGAP ADDSTEP

Add a step to a goal for a patient

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Goal IEN.
SDAT	Array	Array of steps being added SDAT(n)=facility^step number^step type^step start date^step f/u date^provider^step text
<return value>	String	Ien of Step subentry or 0^error message

Returns the IEN of the step sub-field in the patient goal entry or an error message.

59.12.4 RPC: BEHOPGAP DELGOAL

Delete a goal.

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Patient IEN.
PRV	Pointer (#2)	Who deleted
DDTE	Date	Date goal deleted
DREA	String	Reason deleted (set of codes)
DOTHER	String	Text why deleted if other is chosen as DREA
<return value>	Boolean	1 for success or 0^error message

Returns a 1 on successful deletion of patient goal entry or an error message.

59.12.5 RPC: BEHOPGAP DELSTEP

Delete a step for a goal.

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Goal IEN.

Parameter	Datatype	Description
LINE	Pointer (#9999999.06)	Facility where it was deleted
SIEN	Pointer (#9000093.21)	Step IEN for this goal
PRV	Pointer (#2)	Who deleted
SDTE	Date	Date Deleted
SREA	String	Reason Deleted (set of codes)
REASON	String	Text reason if other is selected as SREA
<return value>	Boolean	1 if successful or 0^error message

Returns a 1 if the delete was successful or an error message.

59.12.6 RPC: BEHOPGAP EDITGOAL

Edit an existing goal.

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Goal IEN.
FUD	Date	New follow-up date
STAT	String	New status (set of codes)
REVD	Date	Review Date
REVT	String	Review Comments
<return value>	Boolean	1 if successful or 0^error message

Returns 1 if successful edit of patient goal or an error message.

59.12.7 RPC: BEHOPGAP EDITSTEP

Edit an existing step.

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	GOAL IEN.
LOCATION	Pointer (#9999999.06)	Facility where step edited
SIEN	Pointer (#9000093.21)	Step IEN for the selected goal
FUD	Date	New follow-up date
STAT	String	Set of codes
<return value>	Boolean	1 for success or 0^error message

Returns 1 if the edit of patient goal step was successful or an error message.

59.12.8 RPC: BEHOPGAP GETGOAL

Return a list of the patient's goals

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
<return value>	Global Array	List of patient's goals ; (goalno,0)= IEN(1)^GSET(2)^CREATED(3)^BY(4)^LASTMODIFIED(5) ^FACILITY(6) ^PROVIDER(7)^STARTDT(8) ^FOLLOWUPDT(9)^STATUS(10)^GOAL NUMBER (11) ; (goal no,10)=TYPE1^TYPE2^TYPE3... ; (goal no,11)=GOALNAME ; (goal no,12)=GOALREASON ; (goal no,13,n)=REVIEW DATE(1)^NOTE(2)

Returns an array of goals

59.12.9 RPC: BEHOPGAP GETSTEP

Get the steps for a particular goal

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Goal IEN.
<return value>	String List	Array of step data for the chosen goal ;zero node= Goal ien [1] ^ facility [2] ^ step ien [3] ^Step number [4] ^ Created by [5] ^ created date [6] ^Step type [7] ^step start dt [8] ^ step followup date [9] ^ user last modififed [10] ^ last modified date [11] ^ step status [12] ^ provider [13] ;one node= Step text

Returns an array of data for all steps attached to this goal

59.12.10 RPC: BEHOPGAP NEXTGN

Get the next available goal number

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
FAC	Pointer (#9999999.06)	Facility the goal is being created for
<return value>	Number	Number to use

59.12.11 RPC: BEHOPGAP NEXTSN

Get the next available step number

Scope: Private

Parameter	Datatype	Description
GIEN	Pointer (#9000093)	Goal IEN.
FAC	Pointer (#9999999.06)	Facility the goal is being created for
<return value>	Number	Number to use

59.13 External Relations

Entity	Name	Description
File	Patient Goals (9000093)	Read, and write access
File	Patient Goal Types (9001002.4)	Read access
Package	IHS PCC SUITE 2.0	Uses supported APIs

59.14 Internal Relations

Entity	Name	Description
Component	Patient Goals	Uses supported APIs.

59.15 Archiving and Purging

There are no archiving or purging requirements within this software.

59.16 Components

This component supports the following properties and methods:

59.17 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

60.0 VueCentric to CPRS Context Adapter

60.1 Introduction

This service broadcasts VueCentric® context change events to VistA Imaging and other VistA applications.

60.2 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHCONTEXTADAPTER.CONTEXTADAPTER
Class Identifier	{7F143231-80B7-431B-B1D6-55D80ED2F795}
Image File	BEHContextAdapter.dll
Property Initializations	none
Serializable Properties	none
Required Files	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	yes
Service	yes
.Net Component	no
Associated Build	BEHO*1.1*035001

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

60.3 Routine Descriptions

None.

60.4 File List

None.

60.5 Cross References

None.

60.6 Exported Options

None.

60.7 Exported Security Keys

None.

60.8 Exported Protocols

None.

60.9 Exported Parameters

None.

60.10 Exported Mail Groups

None.

60.11 Callable Routines

None.

60.12 External Relations

None.

60.13 Internal Relations

None.

60.14 Archiving and Purging

There are no archiving or purging requirements within this software.

60.15 Components

This component supports the following properties and methods:

60.15.1 NotifyOtherApps

Scope: Private

Parameter	Datatype	Description
AppEvent	String	The event name.
AppData	String	The event data.

Broadcasts a Windows message to subscribing applications, notifying them of the context change. The format of the message is fully compatible with that produced by the CPRS application.

61.0 CPRS Options

61.1 Introduction

Figure 61-1: Options service

The CPRS Options service provides a means to access the Options dialog from a custom menu.

61.2 Architecture and Business Process Overview

Figure 61-2: Architecture and business process overview

61.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHOPTIONS.OPTIONS

Entity	Value
Class Identifier	{557DA715-ACF0-43D8-9012-3FF13BD0B53D}
Image File	BEHOptions.dll
Property Initializations	none
Serializable Properties	none
Required Files	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	yes
Service	yes
.Net Component	no
Associated Build	BEHO*1.1*022001

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

61.4 Routine Descriptions

None.

61.5 File List

None.

61.6 Cross References

None.

61.7 Exported Options

None.

61.8 Exported Security Keys

None.

61.9 Exported Protocols

None.

61.10 Exported Parameters

None.

61.11 Exported Mail Groups

None.

61.12 Callable Routines

None.

61.13 External Relations

Entity	Name	Description
Package	ORDER ENTRY/RESULTS REPORTING 3.0	Uses supported APIs.

61.14 Internal Relations

Entity	Name	Description
Component	CPRS Support Library	Uses supported APIs.

61.15 Archiving and Purging

There are no archiving or purging requirements within this software.

61.16 Components

This component supports the following properties and methods:

61.16.1 Execute

Scope: Private

Parameter	Datatype	Description
VisibleOptions	Enum	Any combination of: 1 = Notifications 2 = Order Checks 4 = Teams 8 = Notes 16 = Reports

Invokes the Options dialog with the specified tabs visible.

62.0 Medication Counseling

62.1 Introduction

Figure 62-1: Medication Counseling component

The Medication Counseling component provides a means to easily document the counseling of patients regarding their medications.

62.2 Architecture and Business Process Overview

Figure 62-2: Architecture and business process overview

62.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHPHARMED.PHARMED

Entity	Value
Class Identifier	{8DAD2FB3-FFB6-48EA-AB6F-95950BD799AC}
Image File	BEHPharmED.ocx
Property Initializations	none
Serializable Properties	CAPTION=TEXT, GLYPH=IMAGE, LAYOUT=ENUM
Required Files	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	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*044005

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

62.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHORXED." The following routines are distributed:

Routine	Description
BEHORXED	Medication counseling support.

62.5 File List

None.

62.6 Cross References

None.

62.7 Exported Options

Option	Type	Description
BEHORXED COMPREHENSION DEFAULT	action	Default comprehension value.
BEHORXED COUNSEL TIME DEFAULT	action	Default counsel time.

Option	Type	Description
BEHORXED DEF HOSP LOCATION	action	Allows user to specify a hospital location for visit creation. The hospital location must have a pharmacy stop code associated with it.
BEHORXED DEFAULT POV	action	Default POV.
BEHORXED DISCLAIMER TEXT	action	Edit disclaimer text.
BEHORXED EDUCATION TOPICS LIST	action	Education topics.
BEHORXED DEF HOSP LOCATION	action	Hospital location for visit
BEHORXED MAIN	menu	Medication counseling configuration menu.
BEHORXED POV LIST	action	POV list.
BEHORXED POV MAP ICD	action	POV MAP ICD
BEHORXED POV NARR TEXT	action	POV narrative text.
BEOHRXED POV SNOMED LIST	action	POV SNOMED list.

62.8 Exported Security Keys

None.

62.9 Exported Protocols

None.

62.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BEHORXED COMPREHENSION DEFAULT		Set	Division, System	Allows specification of a default value for the comprehension level control. One of: 1 = Poor 2 = Fair 3 = Good 4 = Group – No Assessment 5 = Refused
BEHORXED COUNSEL TIME DEFAULT		Integer	Division, System	Define counseling time default.

Parameter	Instance Type	Value Type	Precedence	Description
BEHORXED DEF HOSP LOCATION		Pointer (#44)	Division, System	Holds a hospital location used for visit creation. Hospital location must have a pharmacy stop code.
BEHORXED DEFAULT POV		Pointer (#80)	Division, System	Selects default POV.
BEHORXED EDUCATION TOPICS LIST	Numeric (Sequence #)	Pointer (#9999999.09)	Division, System	Identifies which Education Topics may appear in the PharmED component.
BEHORXED POV LIST	Numeric (Sequence #)	Pointer (#80)	Division, System	Identifies which POVs will appear for selection in the PharmED component.
BEHORXED POV MAP ICD	Numeric (Sequence #)	Pointer (#80)	Division, System	ICD Code associated with SNOMED term
BEHORXED DISCLAIMER TEXT		Word Processing	Division, System	Holds disclaimer message text.
BEHORXED POV NARR TEXT	Numeric (Sequence #)	Text	Division, System	Holds the Narrative Text value. The data sequence of this parameter must match the order of the BEHORXED POV LIST parameter.
BEOHRXED POV SNOMED LIST	Numeric (Sequence #)	Text	System	Selected SNOMED POVs for PharmEd

62.11 Exported Mail Groups

None.

62.12 Callable Routines

This section describes supported entry points for routines exported with this component.

62.12.1 RPC: BEHORXED CANUSE

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
<return value>	Boolean	Return use status.

Returns true if component may be used for this patient.

62.12.2 RPC: BEHORXED COMPLST

Scope: Private

Parameter	Datatype	Description
<return value>	String List	Returns level of understanding codes from V PATIENT ED file.

Returns level of understanding codes from V PATIENT ED file.

62.12.3 RPC: BEHORXED EDLST

Scope: Private

Parameter	Datatype	Description
<return value>	String List	List of selectable education topics.

Returns a list of selectable education topics.

62.12.4 RPC: BEHORXED POVLST

Scope: Private

Parameter	Datatype	Description
<return value>	String List	List of selectable POVs.

Returns a list of selectable POVs.

62.12.5 RPC: BEHORXED PRVNRPC

Scope: Private

Parameter	Datatype	Description
TXT	String	Text to look up.
<return value>	Pointer (#9999999.27)	Provider Narrative IEN matching TXT.

Returns the IEN of the provider narrative matching the specified text. Creates an entry if necessary.

62.12.6 RPC: BEHORXED STORE

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
VSTR	String	Visit string.
PCCARY	String Array	Patient education data to store.

Parameter	Datatype	Description
<return value>	Integer	Nonzero if an error occurred.

Stores patient education data.

62.12.7 RPC: BEHORXED VSTLST

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
SDT	FM Date	Date to check for visits.
CAT(optional)	String	Service category (defaults to “A”).
<return value>	String List	List of visits.

Returns a list of available visits matching the specified criteria.

62.13 External Relations

Entity	Name	Description
File	EDUCATION TOPICS (#9999999.09)	Read access.
File	V PATIENT ED (#9000010.16)	Read and write access.

62.14 Internal Relations

None.

62.15 Archiving and Purging

There are no archiving or purging requirements within this software.

62.16 Components

This component supports the following properties and methods:

62.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the button caption.
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
GLYPH	String	RW	Name of bitmap file containing glyphs to be displayed on button surface.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
NUMGLYPHS	Integer	RW	Number of glyphs contained in glyph file.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

63.0 Primary Care Information Header

63.1 Introduction

Figure 63-1; Primary Care Information header

The Primary Care Information header displays information about the patient's primary care physician and team.

63.2 Architecture and Business Process Overview

Figure 63-2: Architecture and business process overview

63.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHPRIMARYCARE.PRIMARYCARE
Class Identifier	{A0745103-C850-41B6-AD9E-172273930A7C}
Image File	BEHPrimaryCare.ocx

Entity	Value
Property Initializations	MINHEIGHT=50, MINWIDTH=200
Serializable Properties	AUTOSIZE=BOOL, BORDERSTYLE=ENUM, COLOR=COLOR
Required Files	
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*003001

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

63.4 Routine Descriptions

None.

63.5 File List

None.

63.6 Cross References

None.

63.7 Exported Options

None.

63.8 Exported Security Keys

None.

63.9 Exported Protocols

None.

63.10 Exported Parameters

None.

63.11 Exported Mail Groups

None.

63.12 Callable Routines

None.

63.13 External Relations

Entity	Name	Description
File	PRIMARY CARE TEAMS (#9009017.5)	Read access.
File	BDP DESG SPECIALTY PROVIDER (#90360.1)	Read access.
File	BDP DESG SPEC PROV CATEGORY (#90360.3)	Read access.

63.14 Internal Relations

None.

63.15 Archiving and Purging

There are no archiving or purging requirements within this software.

63.16 Components

This component supports the following properties and methods:

63.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent

Property	Datatype	Access	Description
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
MINHEIGHT	Integer	RW	Sets the minimum height, in pixels, that the component may attain.
MINWIDTH	Integer	RW	Sets the minimum width, in pixels, that the component may attain.
THEMEAWARE	Boolean	RW	If true, the component is rendered as a themed button.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

64.0 Spell Checking Service

64.1 Introduction

The Spell Checking Service provides spell checking capabilities to other components using the Microsoft Word spell checker.

64.2 Architecture and Business Process Overview

Figure 64-1: Architecture and business process overview

64.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHSPELLCHECK.SPELLCHECK
Class Identifier	{8C4D6F72-25BD-4A45-A334-75491634037D}
Image File	BEHSpellCheck.dll

Entity	Value
Property Initializations	ENABLED=@BEHOSP ENABLE SPELLCHECKER
Serializable Properties	none
Required Files	Interop.BEHSpellCheck.dll
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	yes
.Net Component	no
Associated Build	BEHO*1.1*023001

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

64.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHOSP." The following routines are distributed:

Routine	Description
BEHOSPUT	Spell checking support.

64.5 File List

None.

64.6 Cross References

None.

64.7 Exported Options

Option	Type	Description
BEHOSP ENABLE SPELLCHECKER	action	Enable spellchecking service.
BEHOSP MAIN	menu	Spellchecking configuration menu.
BEHOSP SERVICE PLUGIN	action	Specify spellchecking service plugin.

64.8 Exported Security Keys

None.

64.9 Exported Protocols

None.

64.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BEHOSP ENABLE SPELLCHECKER		Boolean	User, Division, System	If set to YES, the spellchecking service is enabled. If NO, it is disabled. Note that the spellchecking service may require additional software to be installed on the workstation (e.g., MS Word). If these additional requirements are not met, the service will not be enabled regardless of this setting.
BEHOSP SERVICE PLUGIN		Pointer (#19930.2)	User, Division, System	This is the programmatic identifier of the spellchecker service to be used within the application.

64.11 Exported Mail Groups

None.

64.12 Callable Routines

This section describes supported entry points for routines exported with this component.

64.12.1 $$SVCSCN^BEHOSPUT

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#19930.2)	IEN of object registry entry to screen.
<return value>	Boolean	Returns true if object belongs to the spell checking category.

Used to screen entries for the BEHOSP SERVICE PLUGIN parameter.

64.13 External Relations

None.

64.14 Internal Relations

None.

64.15 Archiving and Purging

There are no archiving or purging requirements within this software.

64.16 Components

This component supports the following properties and methods:

64.16.1 Properties

Property	Datatype	Access	Description
Capabilities	Enum	R	Describes the capabilities of the spell check engine. Any combination of: 1 = Spell check 2 = Grammar check 4 = Custom dictionaries
Text	String	RW	Text to be spell/grammar checked. Text may be modified as the result of a spell or grammar check operation.
Changes	Integer	R	Count of changes made during spell/grammar checking.
Errors	Integer	R	Count of spelling/grammar errors encountered.
EngineID	String	R	Identity of spell checking engine.
Enabled	Boolean	RW	Enable/disable spell checking service. This may be modified only if not disabled at the system level.

64.16.2 AddDictionary

Scope: Public

Parameter	Datatype	Description
FileName	String	Full path and filename for custom dictionary.
<return value>	Integer	Index of the dictionary that was added, or -1 if not added.

Adds a custom dictionary.

64.16.3 GrammarCheck

Scope: Public

Parameter	Datatype	Description
<return value>	Boolean	True if grammar check was completed.

Perform a grammar check on data in Text.

64.16.4 RemoveDictionary

Scope: Public

Parameter	Datatype	Description
FileName	String	Full path and filename for custom dictionary.
<return value>	Integer	Count of custom dictionaries remaining.

Removes a custom dictionary. FileName must be identical to that used to register the custom dictionary using AddDictionary.

64.16.5 Reset

Scope: Public

Clears the text buffer and resets the Changes and Errors properties to zero.

64.16.6 ShowOptions

Scope: Public

Displays an option dialog, if available, that permits setting spell-checking parameters. This dialog will be specific to the spell-check engine being used.

64.16.7 SpellCheck

Scope: Public

Parameter	Datatype	Description
<return value>	Boolean	Returns true if spell check was completed.

Performs a spell check operation data in Text.

65.0 Appointments

65.1 Introduction

Appointments and Visits

Date	Appointment/Visit	Status
25-Apr-2007 13:01	ADOLESCENT	AMBULATORY
15-Mar-2007 21:04	ACU WARD	AMBULATORY
12-Dec-2006 12:00	Unknown	EVENT (HISTORICAL)
08-Dec-2006 12:50	2ND FLU SHOT	AMBULATORY
08-Dec-2006 12:45	ADOLESCENT	AMBULATORY
08-Dec-2006 12:43	CHEST CLINIC	AMBULATORY
08-Dec-2006 12:00	Unknown	EVENT (HISTORICAL)
07-Dec-2006 12:00	Unknown	EVENT (HISTORICAL)
06-Dec-2006 11:54	ADULT WALKIN	AMBULATORY
04-Dec-2006 12:00	Unknown	EVENT (HISTORICAL)
03-Dec-2006 12:00	Unknown	EVENT (HISTORICAL)

Figure 65-1: Appointments component

The Appointments component provides a quick overview of a patient's future appointments and past visits for display on the cover sheet.

65.2 Architecture and Business Process Overview

Figure 65-2: Architecture and business process overview

65.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHVISITS.VISITS
Class Identifier	{71CABD3B-EA1A-47FD-ADE0-0039D97A6ED1}
Image File	BEHVisits.ocx
Property Initializations	none
Serializable Properties	ALLOWPRINT=BOOL, AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, DEFERUPDATE=BOOL, DETAILPANE=BOOL, ORIENTATION=ENUM, LAYOUT=HIDDEN
Required Files	BEHVisits.chm
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	BEHO*1.1*037001

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

65.4 Routine Descriptions

This component has been assigned the namespace designation of “BEHOENCV.” The following routines are distributed:

Routine	Description
BEHOENCV	Appointment/visit cover sheet support.

65.5 File List

None.

65.6 Cross References

None.

65.7 Exported Options

None.

65.8 Exported Security Keys

None.

65.9 Exported Protocols

None.

65.10 Exported Parameters

None.

65.11 Exported Mail Groups

None.

65.12 Callable Routines

This section describes supported entry points for routines exported with this component.

65.12.1 RPC: BEHOENCV DETAIL

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
VST	String	Visit string.
<return value>	String List	Detail text.

Returns detailed information about the specified visit or appointment.

65.12.2 RPC: BEHOENCV LIST

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
<return value>	String List	List of appointment and/or visits.

Returns a list of appointment/visits for populating the list view.

65.13 External Relations

None.

65.14 Internal Relations

Entity	Name	Description
Component	Encounter Context	Uses supported APIs.

65.15 Archiving and Purging

There are no archiving or purging requirements within this software.

65.16 Components

This component supports the following properties and methods:

65.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ALLOWPRINT	Boolean	RW	If true, a print button will appear on the detail dialog allowing printing of the contents.

Property	Datatype	Access	Description
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
DEFERUPDATE	Boolean	RW	If true, data refresh is deferred until the component becomes visible. If false, data refresh happens immediately.
DETAILPANE	Boolean	RW	If true, a detail pane appears next to the list view that displays detail text of the selected entry. If false, detail text appears in a popup dialog when an entry is clicked.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.

Property	Datatype	Access	Description
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
ORIENTATION	Enum	RW	Sets the orientation of the detail pane. May be one of: 0 = Horizontal 1 = Vertical
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

66.0 Message Broadcast

66.1 Introduction

Figure 66-1: Message Broadcast component

The Message Broadcast component permits sending a message to one or more EHR sessions. The received message displays as a pop-up dialog.

66.2 Architecture and Business Process Overview

Figure 66-2: Architecture and Business Process Overview

66.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCBROADCAST.BROADCAST
Class Identifier	{E8B930A9-7B86-4B81-894B-FC96AA22AF7C}
Image File	vcBroadcast.ocx
Property Initializations	none

Entity	Value
Serializable Properties	AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, DEFERUPDATE=BOOL, ORIENTATION=ENUM, LAYOUT=HIDDEN
Required Files	none
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	CIAO*1.1*008001

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

66.4 Routine Descriptions

None.

66.5 File List

None.

66.6 Cross References

None.

66.7 Exported Options

None.

66.8 Exported Security Keys

None.

66.9 Exported Protocols

None.

66.10 Exported Parameters

None.

66.11 Exported Mail Groups

None.

66.12 Callable Routines

None.

66.13 External Relations

None.

66.14 Internal Relations

None.

66.15 Archiving and Purging

There are no archiving or purging requirements within this software.

66.16 Components

This component supports the following properties and methods:

66.16.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ALLOWPRINT	Boolean	RW	If true, a print button will appear on the detail dialog allowing printing of the contents.

Property	Datatype	Access	Description
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
CAPTION	String	RW	Sets the text displayed in the title bar. To justify portions of the caption text, use the "\" character to delimit the left-, center-, and right-justified portions of the caption text.
CAPTIONCOLOR1 CAPTIONCOLOR2	Color	RW	Colors to apply to the title bar. If the two colors differ and a gradient style is set, a gradient effect is created. For a standard title bar style, only the first color is applied.
CAPTIONSTYLE	Enum	RW	Sets the caption style. May be one of: 0 = None – No caption (hides title bar) 1 = Title – Standard title bar 2 = Frame – Framed title bar (group box style) 3 = Left – Left gradient title bar 4 = Right – Right gradient title bar 5 = Center – Center gradient title bar
COLOR	Color	RW	Sets the background color of the component.
DEFERUPDATE	Boolean	RW	If true, data refresh is deferred until the component becomes visible. If false, data refresh happens immediately.
DETAILPANE	Boolean	RW	If true, a detail pane appears next to the list view that displays detail text of the selected entry. If false, detail text appears in a popup dialog when an entry is clicked.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LAYOUT	String	RW	Property representing the internal layout of the form.

Property	Datatype	Access	Description
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
ORIENTATION	Enum	RW	Sets the orientation of the detail pane. May be one of: 0 = Horizontal 1 = Vertical
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

67.0 Chat Service

67.1 Introduction

Figure 67-1: Chat service

The Chat Service enables users to communicate with one another.

67.2 Architecture and Business Process Overview

Figure 67-2: Architecture and business process overview

67.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCCHATSERVICE.CHATSERVICE
Class Identifier	{F5FD6702-1C56-4C78-850C-1F3552969E43}
Image File	vcChatService.dll
Property Initializations	
Serializable Properties	
Required Files	

Entity	Value
Security Keys	none
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	yes
.Net Component	no
Associated Build	CIAO*1.1*002001

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

67.4 Routine Descriptions

None.

67.5 File List

None.

67.6 Cross References

None.

67.7 Exported Options

None.

67.8 Exported Security Keys

None.

67.9 Exported Protocols

None.

67.10 Exported Parameters

None.

67.11 Exported Mail Groups

None.

67.12 Callable Routines

None.

67.13 External Relations

None.

67.14 Internal Relations

None.

67.15 Archiving and Purging

There are no archiving or purging requirements within this software.

67.16 Components

This component supports the following properties and methods:

67.16.1 IChatService

67.16.1.1 Properties

Property	Datatype	Access	Description
Listening	Boolean	RW	Set listening mode for chat service. If the service is listening, it will show up in the list of potential participants and will respond to invitation requests.

67.16.1.2 NewSession

Scope: Public

Starts a new chat session.

67.16.2 IChatSession

67.16.2.1 Properties

Property	Datatype	Access	Description
ID	String	R	Unique identifier for the session.

68.0 Internet Explorer

68.1 Introduction

Figure 68-1: Internet Explorer component

The Internet Explorer component is a wrapper for Internet Explorer itself and is useful for imbedding Web content with the EHR application.

68.2 Architecture and Business Process Overview

Figure 68-2: Architecture and business process overview

68.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCIEXPLORER.IEXPLORER
Class Identifier	{3C15F2D9-D949-4967-ACD2-E94874E07519}
Image File	vcIExplorer.ocx
Property Initializations	none
Serializable Properties	ALLOWNEWWINDOW=BOOL, AUTOSIZE=BOOL, BORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, COLOR=COLOR, HOMEPAGE=TEXT, RESETONPATIENTCHANGE=BOOL, TOOLBARVISIBLE=BOOL
Required Files	none
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	CIAO*1.1*003001

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

68.4 Routine Descriptions

None.

68.5 File List

None.

68.6 Cross References

None.

68.7 Exported Options

None.

68.8 Exported Security Keys

None.

68.9 Exported Protocols

None.

68.10 Exported Parameters

None.

68.11 Exported Mail Groups

None.

68.12 Callable Routines

None.

68.13 External Relations

Entity	Name	Description
COM Service	Microsoft Internet Explorer	

68.14 Archiving and Purging

There are no archiving or purging requirements within this software.

68.15 Components

This component supports the following properties and methods:

68.15.1 Properties

Property	Datatype	Access	Description
AllowNewWindow	Boolean	RW	If true, popup windows are allowed. Some web pages may not function properly if this is set to false.
HomePage	String	RW	The URL for the default home page.

Property	Datatype	Access	Description
HTML	String	W	Allows placing HTML content directly into the browser.
ResetOnPatientChange	Boolean	RW	If true, the browser is reset to its home page when the patient context changes. Use this if the browser is used to display patient-specific content.
ToolbarVisible	Boolean	RW	If true, the browser toolbar appears at the top of the form.

69.0 Image

69.1 Introduction

Figure 69-1: Image component

The Image component may be used to imbed a graphic within the application. Multiple image formats are supported.

69.2 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCIMAGE.IMAGEX
Class Identifier	{2F154977-4CCA-4EF2-AC6D-7070ADF10D7E}
Image File	vcImage.ocx
Property Initializations	
Serializable Properties	BORDERSTYLE=ENUM, FILENAME=FILE, STRETCH=BOOL
Required Files	none
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	CIAO*1.1*004001

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

69.3 Routine Descriptions

None.

69.4 File List

None.

69.5 Cross References

None.

69.6 Exported Options

None.

69.7 Exported Security Keys

None.

69.8 Exported Protocols

None.

69.9 Exported Parameters

None.

69.10 Exported Mail Groups

None.

69.11 Callable Routines

None.

69.12 External Relations

None.

69.13 Internal Relations

None.

69.14 Archiving and Purging

There are no archiving or purging requirements within this software.

69.15 Components

This component supports the following properties and methods:

69.15.1 Properties

Property	Datatype	Access	Description
FileName	String	RW	Full path and file name of the graphic.
Stretch	Boolean	RW	If true, the image is stretched to the dimensions of the component.

70.0 Program Launcher

70.1 Introduction

Figure 70-1: Program Launcher button

The Program Launcher is a button-based component that may be used to launch an external program from with the EHR application.

70.2 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCLAUNCHER.LAUNCHER
Class Identifier	{A09EFD91-9666-4826-B89C-8A257AA843A0}
Image File	vcLauncher.ocx
Property Initializations	none
Serializable Properties	CAPTION=TEXT, COLOR=COLOR, COMMANDLINE=TEXT, EXENAME=FILE, GLYPH=IMAGE, LAYOUT=ENUM, NUMGLYPHS=INT
Required Files	none
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	CIAO*1.1*005001

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

70.3 Routine Descriptions

None.

70.4 File List

None.

70.5 Cross References

None.

70.6 Exported Options

None.

70.7 Exported Security Keys

None.

70.8 Exported Protocols

None.

70.9 Exported Parameters

None.

70.10 Exported Mail Groups

None.

70.11 Callable Routines

None.

70.12 External Relations

None.

70.13 Internal Relations

None.

70.14 Archiving and Purging

There are no archiving or purging requirements within this software.

70.15 Components

This component supports the following properties and methods:

70.15.1 Properties

Property	Datatype	Access	Description
CommandLine	String	RW	Specifies any additional command line parameters to be passed to the external application.
ExeName	String	RW	Full path and file name of the executable image of the external application.
WindowState	Enum	RW	Controls the initial appearance of the external application. May be one of: 0 = Hide 1 = Normal 2 = Minimized 3 = Maximized

71.0 Patient Photo

71.1 Introduction

Figure 71-1: Patient Photo component

The Patient Photo component enables the display of patient photographs.

71.2 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCPATPHOTO.PATPHOTO
Class Identifier	{A03F898E-D8D3-4817-8E4B-009D61B55327}
Image File	vcPatPhoto.ocx
Property Initializations	CAPTION=
Serializable Properties	BORDERSTYLE=ENUM, CAPTION=TEXT, COLOR=COLOR
Required Files	
Security Keys	none
Multiple Instances Allowed	yes
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	CIAO*1.1*009001

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

71.3 Routine Descriptions

None.

71.4 File List

None.

71.5 Cross References

None.

71.6 Exported Options

None.

71.7 Exported Security Keys

None.

71.8 Exported Protocols

None.

71.9 Exported Parameters

None.

71.10 Exported Mail Groups

None.

71.11 Callable Routines

None.

71.12 External Relations

Entity	Name	Description
Package	VistA Imaging v3.0	Uses supported APIs.

71.13 Internal Relations

None.

71.14 Archiving and Purging

There are no archiving or purging requirements within this software.

71.15 Components

This component supports the following properties and methods:

71.15.1 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
AUTOSIZE	Boolean	RW	If true, the component automatically resizes itself to accommodate its contents.
BORDERSTYLE	Enum	RW	Sets the style of the border surrounding the component. May be one of: 0 = None 1 = Single 2 = Sunken 3 = Raised
COLOR	Color	RW	Sets the background color of the component.
FONT	Font	RW	Set the default font used by the component. Some elements of a component may override this setting.
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
HELPFILE	String	RW	Sets the name of the help file associated with the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
MINHEIGHT	Integer	RW	Sets the minimum height, in pixels, that the component may attain.
MINWIDTH	Integer	RW	Sets the minimum width, in pixels, that the component may attain.
THEMEAWARE	Boolean	RW	If true, the component is rendered as a themed button.

Property	Datatype	Access	Description
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

72.0 Telnet

72.1 Introduction

Figure 72-1: Telnet component

The Telnet component permits connecting to the character-based ("roll-and-scroll") interface of the host system. The component supports changing the RPMS EHR Patient Context by communicating the session ID with RPMS and RPMS triggering a patient context change in roll-and-scroll.

72.2 Architecture and Business Process Overview

Figure 72-2: Architecture and business process overview

72.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	VCTELNET.TELNETX
Class Identifier	{1DBA08B6-0FCD-49EF-A977-93A46D332A4C}
Image File	vcTelnet.ocx
Property Initializations	REMOTEHOST=$(SESSION.HOSTADDRESS)
Serializable Properties	AUTORESIZE=BOOL, BACKCOLOR=COLOR, BOLDCOLOR=COLORBORDERSTYLE=ENUM, CAPTION=TEXT, CAPTIONCOLOR1=COLOR, CAPTIONCOLOR2=COLOR, CAPTIONSTYLE=ENUM, FORECOLOR=COLOR
Required Files	vcTelnet.lic
Security Keys	none

Entity	Value
Multiple Instances Allowed	no
Internal Property Editor	no
All Keys Required	no
Hidden from Property Editor	no
Side-by-Side Versioning	yes
Service	no
.Net Component	no
Associated Build	CIAO*1.1*006001

72.4 Routine Descriptions

None.

72.5 File List

None.

72.6 Cross References

None.

72.7 Exported Options

None.

72.8 Exported Security Keys

None.

72.9 Exported Protocols

None.

72.10 Exported Parameters

None.

72.11 Exported Mail Groups

None.

72.12 Callable Routines

None.

72.13 External Relations

Entity	Name	Description
Libraries	DartTelnet.dll, DartSock.dll, DartVT.dll	Third-party redistributable libraries from Dart Technologies.
License	vcTelnet.lic	License file purchased from vendor (Medsphere Systems Corporation) is required for production use.

72.14 Internal Relations

None.

72.15 Archiving and Purging

There are no archiving or purging requirements within this software.

72.16 Components

This component supports the following properties and methods:

72.16.1 Properties

Property	Datatype	Access	Description
AnswerBack	String	RW	The character string returned by an answerback request.
AutoConnect	Boolean	RW	Time, in milliseconds, to wait for a connection to be established.
AutoPrint	Boolean	RW	If true, each line sent to the screen is also sent to the default printer.
AutoRepeat	Boolean	RW	If true, depressed keys generate more than one character.
AutoResize	Boolean	RW	If true, the font size is automatically resized as the screen is resized.
AutoWrap	Boolean	RW	If true, text automatically wraps at the right edge of the screen.
BackColor	Color	RW	The background color of the display.
BoldColor	Color	RW	The background color of the display.
BufferRows	Integer	RW	The maximum number of rows stored in the screen buffer.

Property	Datatype	Access	Description
Columns	Enum	RW	The maximum character width of the screen. One of: 0 = 80 columns 1 = 132 columns
Connect	Boolean	RW	If true, an active connection exists.
CursorStyle	Enum	RW	Affects cursor appearance. One of: 0 = Block 1 = Underline
FontBold	Boolean	RW	If true, a bold display font is selected.
FontSize	Integer	RW	The point size of the display font.
ForeColor	Color	RW	The foreground (text) color of the display.
RemoteHost	String	RW	The address or name of the remote host. Replaceable parameters are allowed.
RemotePort	Integer	RW	The port number for the connection. The default Telnet port is 23.
Rows	Integer	RW	The maximum number of rows that may be displayed without scrolling.
ScrollType	Enum	RW	Controls the manner in which text scrolls vertically. One of: 0 = Jump 1 = Smooth
StatusLine	Boolean	RW	If true, a status line appears at the bottom of the screen.
TabStops	String	RW	A list of comma-delimited tab positions. The default value is 9,17,25,33,41,49,57,65,73,81,89,97,105,113,121,129
TermType	Enum	RW	Terminal emulation mode. One of: 0 = TTY 1 = VT52 2 = VT100 3 = VT220(7) 4 = VT220(8) 5 = VT320(7) 6 = VT320(8)
TimeOut	Integer	RW	Time, in milliseconds, to wait for a connection to be established.

73.0 Clinical Information Reconciliation

73.1 Introduction

The Clinical Information Reconciliation (CIR) module assists with the reconciliation of medications, problems, and adverse reaction clinical data from an externally received CCDA xml and/or a clinical summary/transition of care/referral summary scanned. Refer to the CCDA Online Help for additional details.

The CIR tool contains the following functionality:

- Data is displayed from two or more sources in a manner that enables the user to view the data and their attributes, and includes the source and last modification date of the information.
- Users may add, merge, or remove individual data.
- Users may review and validate the accuracy of a final set of data elements, and upon a user's confirmation, automatically update the patient's medication, problem, and adverse reaction list.

Launch CIR by clicking the CIR button after selecting a patient and a visit.

- The CIR button is red if there are documents that have been received, but are not yet fully reconciled by the site. The button also indicates the number of documents that have not been reconciled in its center.

Figure 73-1: Red CIR button

- The CIR button is green if there are received documents that have been reconciled or no documents have been received for the patient. The button also indicates the number of documents that have been received and reconciled in its center.

Figure 73-2: Green CIR button

The CIR Tool contains the following panes, tabs, columns, menus, and buttons, shown in Figure 73-3. Their functionality is outlined below.

Figure 73-3: CIR Tool

73.2 Architecture and Business Process Overview

Figure 73-4: Architecture and Business Process Overview

73.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHCIR.CIRCTRL
Class Identifier	{9FE430B6-8240-4020-9EEA-C5AD5A00B5B6}
Image File	behCIR.dll
Property Initializations	None
Serializable Properties	None
Required Files	BEHCIR.chm
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	No
.Net Component	yes
Associated Build	BEHO*1.1*066002

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

73.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHOCIR." The following routines are distributed:

Routine	Description
BEHOCIR	Finds CCDs or Reconciliation entries to be used in the component
BEHOCIR1	Sets and gets reconciliation data
BEHOCIRP	Post-installation routine

73.5 File List

BEH RECONCILIATION – 90461.63

Field	Field No	Description
DATE/TIME	.01	Date/Time reconciliation done
PATIENT	.02	Pointer to patient (#2) file
SOURCE	.03	Source of reconciliation data

Field	Field No	Description
RECONCILIATION COMPLETED	.04	Yes/No
RESPONSIBLE PARTY	.05	Text – person doing the reconciliation
ENCOUNTER DATE	.06	Visit date
ALLERGY RECONCILIATION	.07	Date/Time allergies reconciled
PROBLEM RECONCILIATION	.08	Date/Time problems reconciled
MEDICATION RECONCILIATOIN	.09	Date/Time meds reconciled
IMAGE	1.1	Pointer to the image if reconciliation done from a CCDA
HIE OID	1.2	Free text – data from the image file
HIE EXT	1.3	Free text – data from the image file
ITEM RECONCILED	2	Sub-file

Subfile – 90461.632

Field	Field No	Description
ITEM RECONCILED DATE/TIME	.01	Date/Time of reconciliation
RECONCILING PERSON	.02	Pointer to file 200
ITEM TYPE	.03	Set of codes for allergy, problem, or medication
ID	.04	IEN into file
CCDA ID	.05	Identification from the CCDA

73.6 Cross References

File: BEH RECONCILIATION (#90461.63)

X-ref	Field No	Name	Desc
AA	.02	Patient	Patient, inverse date/time
AE	.07	Allergy Reconciliation	Image and inverse date
AF	.08	Problem Reconciliation	Image and inverse date
AG	.09	Med Reconciliation	Image and inverse date
B	.01	Date/Time	Date/time stored
C	.02	Patient	Reconciliations by patient
D	1.1	Image	Images and reconciliations
E	1.2	HIE OID	HIE OID and reconciliations
F	ITEM IE .03	ITEM TYPE	Type, item id, reconciliation

X-ref	Field No	Name	Desc
G	ITEM ID .04	ID	ID, item id, reconciliation

73.7 Exported Options

None.

73.8 Exported Security Keys

None.

73.9 Exported Protocols

None.

73.10 Exported Parameters

Sources that can be used for external reconciliations that are not CCDAs.

Parameter	Instance Type	Value Type	Precedence	Description
BEHOCIR SOURCES	Numeric	Free Text	Division, System	Enter the sources — example: Patient Information

73.11 Exported Mail Groups

None.

73.12 Callable Routines

73.12.1 RPC: BEHOCIR GETCIR

Get latest reconciliation for a CCDA

Scope: Private

Parameter	Datatype	Description
IMAGE	Pointer (#2005)	Image IEN
<return value>	String	Alg date[1] ^ Prob date [2] ^ med date[3] ^ NEW ien [4]

Returns the latest dates that the items in a CCDA were reconciled

73.12.2 RPC: BEHOCIR GETNUM

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
<return value>	Number	Number of CCDAs for a patient

73.12.3 RPC: BEHOCIR GETTXT

Scope: Private

Parameter	Datatype	Description
SNOMED	String	A SNOMED Concept CT
<return value>	String	The user text for the SNOMED Concept CT

73.12.4 RPC: BEHOCIR SET

Set a reconciliation record

Scope: Private

Parameter	Datatype	Description
DATA	String	Data to be stored for the reconciliation ;Input DATA=IEN of reconciliation entry [1]^ DFN [2] ^ BY [3]^ IMAGE [4] ^ Source [5]^ Allergy date/time [6] ^ Problem dt/time [7]^ Medication dt/time [8]
LIST	Array	Array of items that were reconciled List(n)=Type [1] ^ Item [2]
<return value>	String	IEN of the reconciliation created or edited

Returns the IEN of the new or edited reconciliation.

73.12.5 RPC: BEHOCIR1 GETCCDS

Return a list of CCDAs for a patient to be selected for reconciliation.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
STRTDT	Date	Date to start searching
ENDDT	Date	Date to stop searching
<return value>	Array	A list of CCDA type images from Vista Imaging

73.12.6 RPC: BEHOCIR1 PTCCD

Return a list of reconciliations for a patient.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
STRTDT	Date	Date to start searching
ENDDT	Date	Date to stop searching
<return value>	Boolean	A list of reconciliations from the reconciliation file ;IEN^PATIENT^DATE STORED^SOURCE^RECONCILED^IMAGE^OID^EXT

Returns an array of reconciliations for a patient

73.13 External Relations

None.

73.14 Internal Relations

Entity	Name	Description
Package	OE/RR	Uses supported APIs to order medications
Component	BEHAllergies	Uses supported APIs to get and store allergies
Component	BEHIPL	Uses supported APIs to get and store problems
Package	Vista Imaging	Uses supported APIs to find CCDAs stored as images

73.15 Archiving and Purging

There are no archiving or purging requirements within this software.

73.16 Components

This component supports the following properties and methods:

73.17 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

74.0 Consolidated Clinical Document Architecture Generation

74.1 Introduction

The Consolidated Clinical Document Architecture (CCDA) Generation component employs stylesheet templates that are declared at the document, section, and entry level of CDA documents.

These templates (Clinical Summary and Transition of Care) are utilized to generate documents that are used to transition care and provide other external provider access to needed patient longitudinal data.

The clinical content of the templates is limited to the most relevant patient data captured during one or more encounters to ensure continuity of patient care.

The templates contain both human-readable and machine-readable data and provide a Summary of Care record for each transition of care or referral.

Figure 74-1: CCDA button

When the mouse pointer hovering over the CCDA button the following menu choices are available

Figure 74-2: CCDA Menu

74.1.1 Generate Clinical Summary

Figure 74-3: Clinical Summary window

74.1.2 Generate Transition of Care

Figure 74-4: Generate Transition of Care

74.2 Architecture and Business Process Overview

Figure 74-5: Architecture and Business Process Overview

74.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHCCDA.CCDACTRL
Class Identifier	{04F6E297-DC4E-409D-A228-049A614324CA}
Image File	BEHCCDA.dll
Property Initializations	None

Entity	Value
Serializable Properties	none
Required Files	BEHCCDA.XMLSERIALIZERS.DLL MagImportXControl1.ocx Interop.MagImportXControl1.dll BEHCCDA.CHM;
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	No
.Net Component	Yes
Associated Build	BEHO*1.1*067002

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

74.4 Routine Descriptions

This component has been assigned the namespace designation of "BEHOCCD." The following routines are distributed:

Routine	Description
BEHOCCD	Stores data about CCDs

74.5 File List

None.

74.6 Cross References

None.

74.7 Exported Options

None.

74.8 Exported Security Keys

Key	Description
BEHOCCDMAG	This security key controls access to the BEHOCCD MAG A_V CODES option allowing setting of the access and verify codes to use for the account authorized to store CCDA files in the VistA Imaging archive.

74.9 Exported Protocols

None.

74.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BEHOCCD DIRECT EMAIL ADDRESS		Free Text	Division, System	Direct Email Server Address
BEHOCCD DIRECT PORT		Free Text	Division, System	Direct E-mail port on the server
BEHOCCD DIRECT USE SSL?		Set	Division, System	Use SSL for DIRECT?
BEHOCCD MAG A_V CODES		Free Text – no editing	Division, System	Associate MAG user via AV codes
BEHOCCD SAVE		Free Text	Division, System	ENCRYPTED file storage location
BEHOCCD URL		Free Text	Division, System	Enter the URL to the CCDA server
BEHOCCD XWB SERVERIP_PORT		Free Text	Division, System	Server port for CCDA Images

74.11 Exported Mail Groups

Mail Group	Description
BEHOCCD HIMS TOC	For HIMS support staff to receive alerts on CCDAs that need to be faxed.

74.12 Callable Routines

74.12.1 RPC: BEHOCCD ACCESS

Returns access/verify codes for a user

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#200)	User IEN.
OPT	Boolean	0-default, 1-encrypted
<return value>	String	The access/verify codes of the user

74.12.2 RPC: BEHOCCD GETREF

Return a list of referrals for a visit

Scope: Private

Parameter	Datatype	Description
VISITS	Array	Array of visit IENS to check for referrals
<return value>	Array	Array of referrals for the selected visits

Returns an array of referrals for selected visits

74.12.3 RPC: BEHOCCD PHR

Check to see if the patient has an active PHR

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
<return value>	String	IEN of subnode in patient file and the date the PHR was active.

Returns the active date of the PHR record.

74.12.4 RPC: BEHOCCD SNDALRT

Send an alert that a CCDA needs to be faxed

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
VENDOR	String	Who the CCDA is to be faxed to
FAX	String	Fax number of vendor
<return value>	String List	Data from the Alert package

Returns an array of reconciliations for a patient

74.12.5 RPC: BEHOCCD STORESN

Store data in several files from response to generating a CCD.

Data is stored in the refusal file if the clinical summary was refused.

Clinical summary is stored in patient education and the APCC DOCUMENT LOG if it was printed.

Transitions of care are stored in the APCC DOCUMENT LOG and in the referred care module.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN.
VIEN	Array	Array of visit IENs to process
TYPE	String	Set of codes for the type P=PHR,F=Fax,E=E-mail,N=Print,R=Refusal
CCDT	String	Set of codes T=Transition of care,C=Clinical Summary
RRIEN	String	Referral IEN if it is a referral
DOCID	String	Document ID
<return value>	String List	IENs of the item stored or error message

Returns a list of all the items stored.

74.13 External Relations

Entity	Name	Description
Library	BEHCCDA.XMLSERIALIZERS	
Library	MagImportXControl1.ocx	VistA Imaging API
Package	REFERRED CARE INFO SYSTEM	Uses supported APIs to get referral data
Package	PCC Utilities	Uses supported APIs

74.14 Internal Relations

None.

74.15 Archiving and Purging

There are no archiving or purging requirements within this software.

74.16 Components

This component supports the following properties and methods:

74.17 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

75.0 Stroke

75.1 Introduction

The Stroke tool captures specific SNOMED stroke data, including possible stroke symptoms, date and time of onset if witnessed, last known well (baseline) state if not witnessed, and NIH Stroke Scale Score.

This component was delivered DISABLED with the EHR P13 release. This component is enabled in the EHR P14 release.

Figure 75-1: Stroke tool

75.2 Architecture and Business Process Overview

Figure 75-2: Architecture and business process overview

75.3 Implementation and Maintenance

This component has the following configuration:

75.3.1 Tab Instance

Entity	Value
Programmatic Identifier	BEHSTROKE.STROKECONTROL
Class Identifier	{CAE7D9DE-2807-494B-B0A8-9961A8EE0C99}
Image File	BEHStroke.dll

Entity	Value
Property Initializations	None
Serializable Properties	None
Required Files	BEHStroke.chm
Security Keys	None
Multiple Instances Allowed	No
Internal Property Editor	No
All Keys Required	No
Hidden from Property Editor	No
Side-by-Side Versioning	Yes
Service	No
.Net Component	Yes
Associated Build	BGO*1.1*17

75.3.2 Button Instance

Entity	Value
Programmatic Identifier	BEHSTROKE.LAUNCHSTROKEBUTTON
Class Identifier	{A4C211E2-ED8C-45CE-8CF2-55A317C0DBF1}
Image File	BEHStroke.dll
Property Initializations	None
Serializable Properties	None
Required Files	BEHStroke.chm
Security Keys	None
Multiple Instances Allowed	No
Internal Property Editor	No
All Keys Required	No
Hidden from Property Editor	No
Side-by-Side Versioning	Yes
Service	No
.Net Component	Yes
Associated Build	BGO*1.1*17

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

75.4 Routine Descriptions

This component has been assigned the namespace designation of "BGOVSTR." The following routines are distributed:

Routine	Description
BGOVSTR	Used to Get stroke data or to delete a stroke entry
BGOVSTR1	Utility calls for V STROKE
BGOVSTR2	The SET call to create or edit stroke entries

75.5 File List

None.

75.6 Cross References

None.

75.7 Exported Options

None.

75.8 Exported Security Keys

None.

75.9 Exported Protocols

None.

75.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BGO STROKE TROMBO NOT DONE		Set	Division, System	Enter the CPT code used to document reason thrombolytics not given for stroke.
BGO V STROKE PROTOCOLS	Numeric	Free Text	System	The names of the protocols used for stroke at a site

75.11 Exported Mail Groups

None.

75.12 Callable Routines

75.12.1 RPC: BGOVSTR DEL

Logically deletes a stroke entry. It is marked as Entered in Error.

It will logically delete any vitals that were entered for last known well or the stroke score.

It will delete any refusal also entered in the component.

Scope: Private

Parameter	Datatype	Description
INP	String	The entry to delete, the reason (set of codes) and the text if other is chosen as the reason INP = V File IEN ^ DELETE REASON ^ OTHER
<return value>	String	1 if successful otherwise error

Returns a 1 if successfully deleted or an error message

75.12.2 RPC: BGOVSTR GET

Return data for one or more stroke entries.

If only the patient field is entered, it returns all entries for this patient

Scope: Private

Parameter	Datatype	Description
INP	String	; INP = Patient IEN [1] ^ V File IEN [2] ^ Visit IEN [3]
<return value>	String List	Array of V stroke data A - Arrival AT - Arrival Text (Comment) EV - Event data - fields 1201,1202,1203,1204 F - Fibrinolytic Therapy - fields .11,.12,.13,.14,.15,.16,.17 FT - Fibrinolytic Therapy Text (Comment) N - NIH Stroke Scale (Multiple) P - Protocol Standing Orders (Multiple) PT - Standing Order Comment (Multiple) SS - Stroke Symptoms (Multiple) ST - Stroke Symptoms EKG Findings Comment (Multiple)

Returns an array of V stroke file entries for this patient

75.12.3 RPC: BGOVSTR SET

Stores the stroke entry as a new entry or an edit

Each line of the array is a different node in the file

In addition, Refusals may be set and vitals will be stored for the last known well, and the stroke score if one was done

Scope: Private

Parameter	Datatype	Description
INP	Array	; The first string is the VFIEN^NumberOfLines^VisitIsLocked ; Each subsequent string is prefixed with a letter indicating the type ; A – Arrival ; AT – Arrival Text (Comment) ; F – Fibrinolytic Therapy ; FT – Fibrinolytic Therapy Text (Comment) ; N – NIH Stroke Scale (Multiple) ; P – Protocol Standing Orders (Multiple) ; PT – Standing Order Comment (Multiple) ; SS – Stroke Symptoms (Multiple) ; ST – Stroke Symptoms EKG Findings Comment (Multiple) ; MA – NIH Motor Arm Comments ; ML – NIH Motor Limb Comments ; LA – NIH Limb Ataxia Comment ; DY – NIH Dysarthria Comment
<return value>	String	Ien of entry or error

Returns the IEN of the entry or an error message

75.13 External Relations

Entity	Name	Description
Package	IHS PCC SUITE	Uses APIs and Files to store and delete data from PCC files

75.14 Internal Relations

None.

75.15 Archiving and Purging

There are no archiving or purging requirements within this software.

75.16 Components

This component supports the following properties and methods:

75.17 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

76.0 Acute Myocardial Infarction

76.1 Introduction

The Acute Myocardial Infarction (AMI) tool captures specific SNOMED terms in the evaluation and treatment of AMI. The user can easily capture onset of symptoms, date/time implement protocols and/or standing orders, time EKG done, and EKG findings.

Figure 76-1: AMI History

Figure 76-2: AMI tool

76.2 Architecture and Business Process Overview

Figure 76-3: Architecture and Business Process Overview

76.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BGOAMI.AMICONTROL
Class Identifier	{DA10DC1D-3DDE-4EB1-8F3E-7FB709760AB5}
Image File	bgoAMI.dll
Property Initializations	None
Serializable Properties	None
Required Files	BGOAMI.CHM
Security Keys	None
Multiple Instances Allowed	No
Internal Property Editor	No
All Keys Required	No
Hidden from Property Editor	No
Side-by-Side Versioning	Yes
Service	No
.Net Component	Yes

Entity	Value
Associated Build	BGO*1.1*17

Entity	Value
Programmatic Identifier	BGOAMI.LAUNCHAMIBUTTON
Class Identifier	{7B538634-F83E-4A34-9B7F-F38067AF9C20}
Image File	bgoAMI.dll
Property Initializations	None
Serializable Properties	None
Required Files	BGOAMI.CHM
Security Keys	None
Multiple Instances Allowed	No
Internal Property Editor	No
All Keys Required	No
Hidden from Property Editor	No
Side-by-Side Versioning	Yes
Service	No
.Net Component	Yes
Associated Build	BGO*1.1*17

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

76.4 Routine Descriptions

This component has been assigned the namespace designation of "BGOVAMI." The following routines are distributed:

Routine	Description
BGOVAMI	Used to Get AMI data or to delete an AMI entry
BGOVAMI1	Utility calls for V AMI
BGOVAMI2	The SET call to create or edit AMI entries

76.5 File List

None.

76.6 Cross References

None.

76.7 Exported Options

None.

76.8 Exported Security Keys

None.

76.9 Exported Protocols

None.

76.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BGO AMI THROMBO NOT DONE		Set	Division, System	Enter the CPT code used to document reason thrombolytics not given for AMI.
BGO V AMI PROTOCOLS	Numeric	Free Text	System	The names of the protocols used for an AMI at a site

76.11 Exported Mail Groups

None.

76.12 Callable Routines

76.12.1 RPC: BGOVAMI DEL

Logically deletes an AMI entry. It is marked as Entered in Error.

It will delete any refusal also entered in the component.

Scope: Private

Parameter	Datatype	Description
INP	String	The entry to delete, the reason (set of codes) and the text if other is chosen as the reason INP = V File IEN ^ DELETE REASON ^ OTHER
<return value>	String	1 if successful otherwise error

Returns a 1 if successfully deleted or an error message

76.12.2 RPC: BGOVAMI GET

Return data for one or more AMI entries.

If only the patient field is entered, it returns all entries for this patient

Scope: Private

Parameter	Datatype	Description
INP	String	; INP = Patient IEN [1] ^ V File IEN [2] ^ Visit IEN [3]
<return value>	Array	The returned array is a set of lines prefixed with an alpha code indicating the kind of data. The first line is the count of records unless there was an error, in which case the first line is a negative error number followed by the error description, e.g. -1070^The specified record does not exist. ; Each subsequent string is prefixed with a letter indicating the type ; A – Arrival ; AT – Arrival Text (Comment) ; E – EKG Done ; EF – EKG Findings (Multiple) ; EFT – EKG Findings Text (Comment) ; ET – EKG Done Text (Comment) ; F – Fibrinolytic Therapy ; FT – Fibrinolytic Therapy Text (Comment) ; O – Onset Symptoms ; OT – Onset Symptoms Text (Comment) ; P – Protocol Standing Order ; PT – Protocol Standing Order Text (Comment) ; S – Symptom

Returns an array of V AMI file entries for this patient

76.12.3 RPC: BGOVAMI SET

Stores the AMI entry as a new entry or an edit.

Each line of the array is a different node in the file.

In addition, Refusals may be set.

Scope: Private

Parameter	Datatype	Description
INP	Array	; INP is an array of strings. ; The first string is the VFIEN^NumberOfLines^VisitIsLocked ; Each subsequent string is prefixed with a letter indicating the type ; A – Arrival ; AT – Arrival Text (Comment) ; E – EKG Done ; EF – EKG Findings (Multiple) ; EFT – EKG Findings Text (Comment) ; ET – EKG Done Text (Comment) ; F – Fibrinolytic Therapy ; FT – Fibrinolytic Therapy Text (Comment) ; O – Onset Symptoms ; OT – Onset Symptoms Text (Comment) ; P – Protocol Standing Order ; PT – Protocol Standing Order Text (Comment) ; S – Symptom
<return value>	String	Ien of entry or error

Returns the IEN of the entry or an error message

76.13 External Relations

Entity	Name	Description
Package	IHS PCC SUITE	Stores data into PCC files and uses standard PCC API calls

76.14 Internal Relations

None.

76.15 Archiving and Purging

There are no archiving or purging requirements within this software.

76.16 Components

This component supports the following properties and methods:

76.17 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

77.0 Integrated Problem List

77.1 Introduction

The Integrated Problem List (IPL) enables the convenient viewing of Problem List data on a main display

Figure 77-1: Problem List

IPL includes dialogs for add/edit/deleting problem.

Figure 77-2: Edit Problem window

The ability to use pick-lists to select SNOMED codes.

Figure 77-3: SNOMED pick list

And a separate component to do POVs from the problem list.

Figure 77-4: Purpose of Visit

77.2 Architecture and Business Process Overview

Figure 77-5: Architecture and business process overview

Figure 77-6: Architecture and business process overview

Figure 77-7: Architecture and business process overview

Figure 77-8: Architecture and business process overview

77.3 Implementation and Maintenance

This component has the following configuration:

Entity	Value
Programmatic Identifier	BEHIPL.IPL
Class Identifier	{507CBBE5-C047-4F45-B685-D97614A63528}
Image File	BEHIPL.dll
Property Initializations	None
Serializable Properties	None
Required Files	BEHIPLchm
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	No
.Net Component	Yes
Associated Build	BGO*1.1*17

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

77.4 Routine Descriptions

This component has been assigned the namespace designation of “BGOPROB,” “BGOCPLAN,” “BGOSNO,” and “BGOV.” The following routines are distributed:

Routine	Description
BGOHOS	Hospital associated with problems
BGOPRBN	Manage problem note
BGOPRDD	Problem Details
BGOPROB	The main get and set calls for problem list
BGOPROB1	Edit problems and handle qualifiers
BGOPROB2	Mapping advice and injury data
BGOPROB3	Deletion of problems
BGOSNLK	SNOMED Picklist support
BGOSNOPR	Manage SNOMED picklists
BGOSNOP2	More on SNOMED picklists
BGOCPLAN	Get, set, delete calls for care plans and goals

Routine	Description
BGOVVI	Get, set, delete visit instructions
BGOVTR	Treatment/regimen routine

77.5 File List

BGO SNOMED PREFERENCES (File 90362.34)

The SNOMED preferences file allows the storage of SNOMED codes.

Field	Field No	Description
NAME	.01	Free Text
HOSPITAL LOCATION	.02	Pointer to hospital location (#44) file
CLINIC	.03	Pointer to clinic stop (#40.7) file
PROVIDER	.04	Pointer to file #200
OWNER	.05	Pointer to file #200
DISCIPLINE	.06	Pointer to file #7
SUBSET	.08	Free Text – Name of an Apelon subset
PIP	.09	Set of Codes 1:true
HIDE	1	Subfile of managers
USE AS POV	1.1	Set of codes Yes/no
SNOMED CT	2	Subfile of SNOMED data
MANAGERS	3	Subfile

Subfile- 90362.343

Field	Field No	Description
MANAGERS	.01	Pointer to file 200

Subfile- 90362.342

Field	Field No	Description
SNOMED CT	.01	Free Text – SNOMED concept code
DESC CT	.02	Free Text- SNOMED descriptive code
FREQUENCY	.03	Numeric
DATE UPDATED	.04	Date/Time
ICD CODE	.05	Pointer to file 80

Field	Field No	Description
STATUS	.06	Set of Codes A:CHRONIC E:EPISODIC I:INACTIVE S:SUB-ACUTE R:ROUTINE/ADMIN O:SOCIAL
PREFERRED TERM	.07	Free Text – SNOMED preferred term
QUALIFIERS	3	Subfile
DESCRIPTOR	6	Free Text
GROUP	7	Free Text (group codes together)

Sub-sub file – 90362.3423

Field	Field No	Description
QUALIFIERS	.01	Free Text
TEXT	.02	Free Text

77.6 Cross References

File: BGO SNOMED PREFERENCES

X-ref	Field No	Name	Description
AC	.03	Clinic	Regular
ACP	.03	Clinic	Mumps
ACPTOO	.04	Provider	Mumps
AD	.07	Discipline	Regular
AH	.02	Hospital Location	Regular
AHP	.02	Hospital Location	Mumps
AHPTOO	.04	Provider	Mumps
AP	.04	Provider	Regular
B	.01	Name	Regular
SS	.08	Subset	Regular

77.7 Exported Options

Option	Type	Description
BGO PICKLIST UPDATE	Run routine	Update all national picklists from the Apelon tool.

Option	Type	Description
BGO UPDATE PICKLIST STATUS	Run routine	Update the status of all picklists.

77.8 Exported Security Keys

None.

77.9 Exported Protocols

None.

77.10 Exported Parameters

Parameter	Instance Type	Value Type	Precedence	Description
BGO DEFAULT PICKLIST	Numeric	Free Text	Division, System	Enter the Picklist category that is to be the default
BGO IPL CARE TEMPLATE	Numeric	Pointer (#8927)	Division, System, User	Select the TIU templates that can be used as care plan templates
BGO IPL CORE TABS		Free Text	User, System	Problem status for core tab
BGO IPL EYE DX		Boolean	User, System	Separate out Eye DX to own tab
BGO IPL GOAL TEMPLATE	Numeric	Pointer (#8927)	Division, System, User	Select the Tiu templates that can be used as goal templates
BGO IPL INACTIVATE TIMEFRAME		Numeric	System	Look back for APCD EPISODIC CLEANUP task
BGO IPL VISIT TEMPLATE	Numeric	Pointer (#89267)	Division, System, User	Select the TIU templates that can be used as visit templates
BGO PL DEFAULT FILTER		Set of codes	Division, System, Class, User	Select one of the following: 0 ALL 1 ACTIVE 2 INACTIVE 3 PERSONAL HX 4 FAMILY HX
BGO PL INCLUDE PERS HIST W ACT		Boolean	User, Class, Division, Package	Include Personal History problem with active problems

Parameter	Instance Type	Value Type	Precedence	Description
BGO PROBLEM EDUCATION	Numeric	Pointer (#9001002.5)	Division, system	Which PCC data entry education topic will be used with problems

77.11 Exported Mail Groups

None.

77.12 Callable Routines

77.12.1 RPC: BGOASLK CHKASM

Lookup a code or SNOMED to see if it is an asthma code.

Scope: Private

Parameter	Datatype	Description
CODE	Pointer (#80)	ICD code
SNOMED	String	SNOMED Concept CT
<return value>	Boolean	1 for yes/ 0 for no

Returns a 1 if the code or SNOMED is an asthma diagnosis.

77.12.2 RPC: BGOCPLAN CPACT

Get a list of care planning data for a particular problem.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	IEN of patient
PRIEN	Pointer (#9000011)	IEN of problem
CPTYPE	Set of Codes	A All C Active L Last date
NUM	Numeric	Number to Return
<return value>	String List	See BGOCPLAN GET, BGOVVI GET, BGOVTR GET for formatting of return array

Returns an array of data for this problem. Data includes care plans, goals, visit instructions, treatment plans, and consults.

77.12.3 RPC: BGOCPLAN DEL

Physically deletes a care plan or goal. Can only be used if the care plan or goal is unsigned.

Scope: Private

Parameter	Datatype	Description
INP	Pointer (#9000092)	IEN of care plan
<return value>	String	Null if successful or error

77.12.4 RPC: BGOCPLAN EIE

Logically deletes a care plan or goal. This is for signed plans and goals.

Scope: Private

Parameter	Datatype	Description
INP	Pointer (#9000092)	Care Plan Ien [1] ^ Reason for eie [2] ^ comment if other [3]
<return value>	String	Null if successful or error

77.12.5 RPC: BGOCPLAN GET

Find care plans and goals for a given problem.

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#9000092)	Care Plan IEN [1]
DFN	Pointer (#2)	Patient IEN
TYPE	Set of codes	G(oal) or C(are Plan)
RETI	Set of codes	Return types (A(active),C(complete),L(latest)
CNT	Numeric	Number to return
PRV	Pointer (#200)	Provider to search on
<return value>	String List	Array(n)=Type (G OR C) [1] ^ C Plan IEN [2] ^ Prob IEN [4] ^ Who entered [4] ^ Date Entered [5] ^ Status [6] ^ SIGN FLAG [7] =~t [1] ^ Text of the item [2]

Returns an array of care plans or goals for the selected problem and the text of the plan/goal.

77.12.6 RPC: BGOCPLAN OKDEL

Check to see if a care plan can be deleted. Entered in Error types can only be done by the author or the chief of MIS.

Scope: Private

Parameter	Datatype	Description
INP	Pointer (#9000092)	IEN of the entry [1] ^ user deleting [2]
<return value>	Boolean	Null if successful or error

Returns a 1 if the user can delete, otherwise a 0.

77.12.7 RPC: BGOCPLAN SET

Creates a new care plan.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	IEN of Patient
PRIEN	Pointer (#9000011)	IEN of problem
INP	String	G(goal) or P(Care plan)[1] ^ IEN [2] (blank if new) ^ EDT(event dt/time) [3] ^ Provider [4]
STAT	String	SIEN [1] ^ STATUS [2] ^ WHO ENTERED [3] ^ WHEN [4] ^ Old Item if replaced [5] ^ REASON EIE [6]^ REASON IF OTHER [7] ^ Comment [8]
TEXT	String List	Lines of text
<return value>	String	Null if successful or error

Returns the IEN of the newly created entry

77.12.8 RPC: BGOCPLAN SIGN

Sign a care plan or goal. Marks the document as signed and unable to be edited.

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#9000092)	IEN of care plan
PRV	Pointer (#200)	IEN of provider
<return value>	String	Null if successful or error

77.12.9 RPC: BGOCPLAN UPSTAT

Change the status of a care plan or goal

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#9000092)	IEN of care plan
PROB	Pointer (#9000011)	IEN of problem
STAT	Set of codes	A:ACTIVE I:INACTIVE E:ENTERED IN ERROR R M:MET
COMM	String	Comments
<return value>	String	Null if successful or error

77.12.10 RPC: BGOHOS HOSP

Add POV to the problem multiple. Hospital visits do not store in the V POV file, but the problem can be added as a hospital POV.

Scope: Private

Parameter	Datatype	Description
PROB	Pointer (#9000092)	IEN of care plan
VIEN	Pointer (#9000010)	Visit IEN
DEL	Boolean	Delete flag
<return value>	String	Null if successful or error

77.12.11 RPC: BGOPRBN DEL

Delete a comment on a problem (formerly called notes).

Scope: Private

Parameter	Datatype	Description
INP	String	Problem IEN [1] ^ Location IEN [2] ^ Note IEN [3]
<return value>	String	Null for success or -1^error text

77.12.12 RPC: BGOPRDD DETAIL

Return all the data for a particular problem including all audit data.

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN ^ Item IEN
<return value>	String List	Includes all problem data, notes, POV visits, hospital stays, care plans, goals, visit instructions, referrals, education, consults, reconciliations and audit file changes.

Return is an array of every type of data that is attached to the problem.

77.12.13 RPC: BGOPROB ADD CLASS

Set the asthma classification for a problem.

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#9000011)	IEN of problem [1] ^ Classification[2]
<return value>	String List	Category Name [1] ^ Category IEN [2] ^ Hosp Loc Name [3]^ Hosp Loc IEN [4] ^ Clinic Stop Name [5] ^ Clinic Stop IEN [6] ^ Provider Name [7] ^ Provider IEN [8] ^ Owner Name [9] ^ Owner IEN [10] ^ Provider Class Name [11] ^ Provider Class IEN [12] ^ SNOMED Subfile [13]

Returns an array of categories matching specified criteria.

77.12.14 RPC: BGOPROB CKID

Check for the existence of a problem ID for a patient

Scope: Private

Parameter	Datatype	Description
INP	String	Patient IEN ^ Problem ID ^ Site IEN ^ Problem IEN (optional)
<return value>	String	IEN of problem or null

Returns the IEN of the item found.

77.12.15 RPC: BGOPROB DEL

Logically delete a problem.

Scope: Private

Parameter	Datatype	Description
INP	String	Problem IEN |1| ^ TYPE |2| ^ DELETE REASON |3| ^ OTHER |4| ^ PROB ID |5|
<return value>	String	Null or error message

Returns an array of categories matching specified criteria.

77.12.16 RPC: BGOPROB GET

Get problems for a patient.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	IEN of patient
TYP	Set of Codes	A(chronic), S(sub-acute), E(episodic), O(social/environmental), I(Inactive)
CTYP	Set of Codes	A All C Active L Last date
NUM	Numeric	Number of care plans, goals and visit instructions to return
ACT	Boolean	Flag to indicate if care planning activities are included
<return value>	Array	Array(n)="P" [1] ^ Problem Ien [2] ^ SNOMED CONCEPT ID [3] ^ SNOMED DESC ID[4] ^Number code [5] ^ Status [6]^ Onset [7] ^ Prov Narrative [8] ^ ICD [9] ^ Priority [10] ^ Class [11] ^ PIP [12] ^ Additional ICD [13] ^ inpt DX [14] ^ Outpt DX [15] ^ Ever used as POV [16 ;Array(n)="A" [1] ^ Classification [2] ^ Control [3] ^ V asthma IEN [4] ;Array(n)="N" [1] ^ Facility [2] ^ Note IEN [3] ^ Note Nmbr [4] ^ Text [5] ^ Status [6] ^ Date [7] ^ Author [8] ;Array(n)= "Q" [1] ^ TYPE [2] ^ IEN [3] ^ SNOMED [4] ^ Text [5] ;The problems are followed by the goals, pt.instructions, visit instruc ;Array(n)=Type (G OR C) [1] ^ C Plan IEN [2] ^ Prob IEN [4] ^ Who entered [4] ^ Date Entered [5] ^ Status [6] ^ SIGN FLAG [7] =~t [1] ^ Text of the item [2] ;Array(n)="I" [1] ^ Instr IEN[2] ^ Prob IEN [3] ^ Vst Date [4] ^ Facility [5] ^ Prv IEN [6] ^ Location [7] ^ Entered Dt [8] ^ Visit IEN [9] ^V cat [10] ^ Locked [11] ^ Prov Name [12 ^ signed [13] =~t [1] ^Text of the item [2] ;Array(n)="T" [1] ^ TR IEN[2] ^ SNOMED term [3] ^ Prob IEN [4] ^ Vst Date [5] ^ Facility [6] ^ Prv IEN [7] ^ Location [8] ^ Entered Dt [9] ^ Visit IEN [10] ^ V Cat [11] ^Locked [12] ^ Prov name [13] ;Array(n)="S" [1] ^ SERVICE [2] ^Consult Date [3] ^ STAT [4] ;Array(n)="R" [1] ^ REFERRAL [2] ^ Referral Date [3] ^ Status [4] ;Array(n)="E" [1] ^ Topic [2] ^ Date [3]

Returns an array of problems with the indicated care planning activities if they are requested in the get call. Problems with qualifiers and comments are always returned.

77.12.17 RPC: BGOPROB GET CLASS

Get asthma classification for a particular problem.

Scope: Private

Parameter	Datatype	Description
INP	String	DX [1] ^ SNOMED [2] ^Classification [2]
<return value>	String List	IEN |1| ^ TEXT |2|

Returns an array of asthma classifications

77.12.18 RPC: BGOPROB NEXTID

Get the next problem ID for this patient.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
<return value>	String	Next id

Returns the next ID available for that patient.

77.12.19 RPC: BGOPROB SET

Enter a new problem. Also includes asthma data, and qualifiers.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
PRIEN	Pointer (#9000011)	Problem IEN (if edit)
VIEN	Pointer (#9000010)	Needed if it is an asthma diagnosis

Parameter	Datatype	Description
LIST	String List	Problem Data ; List(n) "P"[1] ^ SNOMED CT [2] ^ Descriptive CT [3] ^ Provider text [4] ^ Mapped ICD [5] ^ Location [6] ^ Date of Onset [7] ^ Status [8] ^ Class [9] ^ Problem # [10] ^ Priority [11] ^ INP DX [12] "A"[1] ^ Classification [2] ^ Control [3] ^ V asthma IEN [4] "Q"[1] ^ TYPE [2] ^ Qualifier IEN [3] ^ Qual SNOMED [4] ^ By [5] ^ When [6] ^ Delete [7]
<return value>	String	IEN of new entry or error

Returns the IEN of the new entry.

77.12.20 RPC: BGOPROB SETPRI

Set the priority of a problem.

Scope: Private

Parameter	Datatype	Description
INP	String	Problem IEN ^ Problem Priority
<return value>	String	IEN of entry or error message

77.12.21 RPC: BGOPROB1 EDIT

Edit a problem. Data to be edited is sent in an array of nodes.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
PRIEN	Pointer (#9000011)	Problem IEN
VIEN	Pointer (#9000010)	Visit IEN (needed if problem is asthma related)
List	Array	"P"[1] ^ SNOMED CT [2] ^ Descriptive CT [3] ^ Provider text [4] ^ Mapped ICD [5] ^ Location [6] ^ Date of Onset [7] ^ Status [8] ^ Class [9] ^ Problem # [10] ^ Priority [11] ^ Inpt Dx [12] "A"[1] ^ Classification [2] ^ Control [3] ^ V asthma IEN [4] "Q"[1] ^ Type [2] ^ Qualifier IEN [3] ^ Qual SNOMED [4] ^ By [5] ^ When [6] ^DEL [7]
<return value>	String	IEN or error message

Returns the IEN of the item edited if successful.

77.12.22 RPC: BGOPROB1 EDPROB

Get active problems for a patient. Only returns the basic problem data.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient's IEN
<return value>	String List	IEN [1] ^ Narrative [2] ^ SNOMED CONCEPT CT [3] ^ ICD CODE

Returns an array of problems with the most important data fields.

77.12.23 RPC: BGOPROB1 GETONE

Get all the data for one problem.

Scope: Private

Parameter	Datatype	Description
PRIEN	Pointer (#9000011)	Problem IEN
<return value>	Array	Array(n)="P" [1] ^ Problem Ien [2] ^ SNOMED CONCEPT ID [3] ^ SNOMED DESC ID[4] ^Number code [5] ^ Status [6]^ Onset [7] ^ Prov Narrative [8] ^ ICD [9] ^ Priority [10] ^ Class [11] ^ PIP [12] ^ Additional ICD [13] ^ inpt DX [14] ^ Outpt DX [15] ^ Ever used as POV [16 ;Array(n)="A" [1] ^ Classification [2] ^ Control [3] ^ V asthma IEN [4] ;Array(n)="N" [1] ^ Facility [2] ^ Note IEN [3] ^ Note Nmbr [4] ^ Text [5] ^ Status [6] ^ Date [7] ^ Author [8] ;Array(n)= "Q" [1] ^ TYPE [2] ^ IEN [3] ^ SNOMED [4] ^ Text [5] ;The problems are followed by the goals, pt.instructions, visit instruc ;Array(n)=Type (G OR C) [1] ^ C Plan IEN [2] ^ Prob IEN [4] ^ Who entered [4] ^ Date Entered [5] ^ Status [6] ^ SIGN FLAG [7] =~t [1] ^ Text of the item [2] ;Array(n)="I" [1] ^ Instr IEN[2] ^ Prob IEN [3] ^ Vst Date [4] ^ Facility [5] ^ Prv IEN [6] ^ Location [7] ^ Entered Dt [8] ^ Visit IEN [9] ^V cat [10] ^ Locked [11] ^ Prov Name [12 ^ signed [13] =~t [1] ^Text of the item [2] ;Array(n)="T" [1] ^ TR IEN[2] ^ SNOMED term [3] ^ Prob IEN [4] ^ Vst Date [5] ^ Facility [6] ^ Prv IEN [7] ^ Location [8] ^ Entered Dt [9] ^ Visit IEN [10] ^ V Cat [11] ^Locked [12] ^ Prov name [13] ;Array(n)="S" [1] ^ SERVICE [2] ^Consult Date [3] ^ STAT [4] ;Array(n)="R" [1] ^ REFERRAL [2] ^ Referral Date [3] ^ Status [4] ;Array(n)="E" [1] ^ Topic [2] ^ Date [3]

Returns an array of data.

77.12.24 RPC: BGOPROB1 INPT

Return the problems used for current or most recent inpatient stay.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
<return value>	Array	Array(n)="P" [1] ^ Problem Ien [2] ^ SNOMED CONCEPT ID [3] ^ SNOMED DESC ID[4] ^Number code [5] ^ Status [6]^ Onset [7] ^ Prov Narrative [8] ^ ICD [9] ^ Priority [10] ^ Class [11] ^ PIP [12] ^ Additional ICD [13] ^ inpt DX [14] ^ Outpt DX [15] ^ Ever used as POV [16 ;Array(n)="A" [1] ^ Classification [2] ^ Control [3] ^ V asthma IEN [4] ;Array(n)="N" [1] ^ Facility [2] ^ Note IEN [3] ^ Note Nmbr [4] ^ Text [5] ^ Status [6] ^ Date [7] ^ Author [8] ;Array(n)= "Q" [1] ^ TYPE [2] ^ IEN [3] ^ SNOMED [4] ^ Text [5] ;The problems are followed by the goals, pt.instructions, visit instruc ;Array(n)=Type (G OR C) [1] ^ C Plan IEN [2] ^ Prob IEN [4] ^ Who entered [4] ^ Date Entered [5] ^ Status [6] ^ SIGN FLAG [7] =~t [1] ^ Text of the item [2] ;Array(n)="I" [1] ^ Instr IEN[2] ^ Prob IEN [3] ^ Vst Date [4] ^ Facility [5] ^ Prv IEN [6] ^ Location [7] ^ Entered Dt [8] ^ Visit IEN [9] ^V cat [10] ^ Locked [11] ^ Prov Name [12 ^ signed [13] =~t [1] ^Text of the item [2] ;Array(n)="T" [1] ^ TR IEN[2] ^ SNOMED term [3] ^ Prob IEN [4] ^ Vst Date [5] ^ Facility [6] ^ Prv IEN [7] ^ Location [8] ^ Entered Dt [9] ^ Visit IEN [10] ^ V Cat [11] ^Locked [12] ^ Prov name [13] ;Array(n)="S" [1] ^ SERVICE [2] ^Consult Date [3] ^ STAT [4] ;Array(n)="R" [1] ^ REFERRAL [2] ^ Referral Date [3] ^ Status [4] ;Array(n)="E" [1] ^ Topic [2] ^ Date [3]

Returns an array of data for the problems used for that inpatient stay.

77.12.25 RPC: BGOPROB2 CHK

Check to see if it is okay to delete a problem. Only problems that have not been used as a POV can be deleted.

Scope: Private

Parameter	Datatype	Description
PRIENT	Pointer (#9000011)	Problem IEN
<return value>	String	Success: 1 Failure :-1^reason it cannot be deleted

77.12.26 RPC: BGOPROB2 MAP

Map advice

Scope: Private

Parameter	Datatype	Description
LIST	String List	Array of SNOMED codes
<return value>	String List	"C" ^ SNOMED code "t" ^ counter ^ map advice

Return is an array of map advice for a particular set of SNOMED codes.

77.12.27 RPC: BGOSNLK CONCLKUP

Lookup a particular SNOMED CT code

Scope: Private

Parameter	Datatype	Description
CONCID	String	SNOMED Concept CT
<return value>	String	Data returned from a BSTS call ; [1] - Description Id of Fully Specified Name ; [2] - Fully Specified Name ; [3] - Description Id of Preferred Term ; [4] - Preferred Term ; [5] - Mapped ICD Values (based on P3 Snapshot Date) ; [6] - Mapped ICD9 Values

77.12.28 RPC: BGOSNLK GETLST

Return items from a SNOMED Picklist.

Scope: Private

Parameter	Datatype	Description
INP	String	Name of the SNOMED picklist
<return value>	String List	Preferred term [1] ^ DESC ID [2] ^SNOMED Concept CD [3} ^ ICD code [4] ^ Status [5] ^ Group [6]

List of items in the selected SNOMED picklist.

77.12.29 RPC: BGOSNLK GETSUB

Return a list of subsets that can be used as picklists.

Scope: Private

Parameter	Datatype	Description
PREFIX	String	Specific prefix to find in the subset list. Default is PICK
<return value>	String List	Subset names

Returns a list of subset names from Apelon that begin with the prefix sent in.

77.12.30 RPC: BGOSNLK IMPORT

Import data from an Apelon subset to a SNOMED picklist

Scope: Private

Parameter	Datatype	Description
SUBSET	String	The name of the Apelon subset
IMP	String	The name of the SNOMED picklist
<return value>	String	IEN of picklist or error

Returns the IEN where the subset is stored

77.12.31 RPC: BGOSNLK SUBSET

List of items in a SNOMED picklist.

Scope: Private

Parameter	Datatype	Description
INP	Pointer (#90362.34)	IEN of SNOMED picklist
<return value>	String List	Preferred term [1] ^ DESC ct [2]^ SNOMED Concept CT [3] ^ ICD code [4] ^ ^ Preferred term [6]

Returns an array of items in the picklist.

77.12.32 RPC: BGOSNLK TREAT

Find Treatment/Regimens

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ Location IEN [2] ^ Provider IEN [3] ^ Manager IEN [4] ^ Show All [5]

Parameter	Datatype	Description
<return value>	String List	Preferred term [1] ^ DESC ct [2]^ SNOMED Concept CT [3] ^ ICD code [4] ^ ^ Group [6]

Returns the items in the treatment/regimen subset.

77.12.33 RPC: BGOSNOPR GETCATS

Get the specified categories for SNOMED picklists.

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ Hospital Location IEN [2] ^ Provider IEN [3] ^ Manager IEN [4] ^ Show All [5]
<return value>	String List	NAME [1] ^ HOSPITAL LOCATION [2] ^CLINIC [3] ^ (#.04) PROVIDER [4] ^ (#.05) OWNER [5] ^ DISCIPLINE [6] ^ ^ SUBSET [8] ^ PIP [9] ^ HIDE [10] ^ USE AS POV[11]

Returns an array of categories matching specified criteria.

77.12.34 RPC: BGOSNOPR GETITEMS

Get a list of items that belong in a category.

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ Descriptor [2] ^ Display Freq Order [3]
<return value>	String List	IEN[1] ^ Narrative [2] ^ DESCT CT [3] ^ CONCEPT CT [4] ^ Status [5] ^ Rank [7] ^ Pref IEN [8] ^ Qualifier string [9] ^ group [10]

Return array of picklist items.

77.12.35 RPC: BGOSNOPR GETMGRS

Uses generic call in BGOPFUTL.

Parameter	Datatype	Description
CAT	Pointer (#90362.34)	Category
FNUM	Numeric	File to use
<return value>	String List	Provider Name |1| ^ Provider IEN |2|

Returns an array of managers for that superbill category.

77.12.36 RPC: BGOSNOPR SETCAT

Create a new picklist category.

Scope: Private

Parameter	Datatype	Description
INP	String	Name [1] ^ Hosp Loc [2] ^ Clinic [3] ^ Provider [4] ^ User [5) ^ Category IEN [6] ^ Delete [7] ^ Discipline [8] ^ Subset [10] ^ PIP [11] ^ Hide [12] ^ Use as POV [13]
<return value>	String	IEN for success or 0^error text

Return value is the IEN of the new category in the file.

77.12.37 RPC: BGOSNOPR SETFREQ

Update the frequency of a SNOMED code in a category

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ SNOMED CT ^ Increment [3] ^ Frequency [4]
<return value>	Boolean	1 for success or 0^error text

77.12.38 RPC: BGOSNOPR SETITEM

Add a CPT code to a category in the superbill file.

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ CPT IEN [2] ^ Display Text [3] ^Delete [4] ^ CPT Code [5] ^ Frequency [6] ^Allow Dups [7] ^ Item IEN [8]
<return value>	String	IEN for success or 0^error text

Returns the new IEN of the CPT code added to the category.

77.12.39 RPC: BGOSNOPR SETMGR

Add a manager to a SNOMED preferences category

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ Manager IEN [2] ^ Add [3]

Parameter	Datatype	Description
<return value>	Boolean	Null for success or -1^error text

Returns a 1 for success.

77.12.40 RPC: BGOSNOPR SETNAME

Set the display name for a category

Scope: Private

Parameter	Datatype	Description
INP	String	Category IEN [1] ^ Item IEN [2] ^ Display Name [3]
<return value>	Boolean	Null for success or -1^error text

77.12.41 RPC: BGOVTR DEL

Delete a V treatment/regimen entry.

Scope: Private

Parameter	Datatype	Description
VTR	Pointer (#9000010.61)	V TREATMENT/REGIMEN ien
<return value>	Boolean	Success or error text

Physically deletes a V TREATMENT/REGIMEN entry.

77.12.42 RPC: BGOVTR GET

Get the V treatment/regimen entries.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient IEN
PRIEN	Pointer (#9000011)	Problem IEN
NUM	Numeric	Number to return
CNT	Numeric	Counter
SVIEN	Pointer (#9000010)	Visit IEN
PRV	Pointer (#200)	New person IEN
<return value>	String List	"T" [1] ^ TR IEN[2] ^ SNOMED term [3] ^ Prob IEN [4] ^ Vst Date [5] ^ Facility [6] ^ Prv IEN [7] ^ Location [8] ^ Entered Dt [9] ^ Visit IEN [10] ^ V Cat [11] ^Locked [12] ^ Prov name [13]

Returns a list of treatment/regimens for the problem and/or visit.

77.12.43 RPC: BGOVTR SET

Set or edit a treatment/regimen for a problem.

Scope: Private

Parameter	Datatype	Description
INP	String	VTR IEN [1] ^ SNOMED [2] ^ Visit IEN [3] ^ Problem IEN [4] ^ Patient IEN [5] ^ Evnt Dt [6] ^ Provider [7]
<return value>	String List	Treatment IEN or error message

77.12.44 RPC: BGOVVI DEL

Deletes visit instructions. If they are unsigned, it deletes them, otherwise it marks them as EIE.

Scope: Private

Parameter	Datatype	Description
INP	String	VFIEN (9000010.58) ^ DELETE REASON ^ OTHER
<return value>	String	Null if successful or error

Return a null or an error code if unsuccessful.

77.12.45 RPC: BGOVVI EIE

Logically deletes a care plan or goal.

Scope: Private

Parameter	Datatype	Description
INP	String	Visit instruction ien [1] ^ Reason for eie [2] ^ comment if other
<return value>	String	Null if successful or error

77.12.46 RPC: BGOVVI GET

Logically deletes a care plan or goal.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	Patient's IEN
PRIEN	Pointer (#9000011)	Problem IEN
NUM	Numeric	Number to return
CNT	Numeric	Counter
SVIEN	Pointer (#9000010)	Visit IEN
PRV	Pointer (#200)	New person IEN
<return value>	String List	"I" [1] ^ Instr IEN[2] ^ Prob IEN [3] ^ Vst Date [4] ^ Facility [5] ^ Prv IEN [6] ^ Location [7] ^ Entered Dt [8] ^ Visit IEN [9] ^V cat [10] ^ Locked [11] ^ Prov Name [12] ^ signed [12] ~t [1] ^Text of the item [2]

Returns an array of visit instructions and the text of the instructions.

77.12.47 RPC: BGOVVI GETPRV

Retrieve providers associated with problems. Searches care plans, goals, visit instructions, treatments, and consults.

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#9000011)	Problem IEN
<return value>	Array	Provider IEN [1] ^ Provider Name [2]

Returns an array of providers who have added data to this problem.

77.12.48 RPC: BGOVVI OKDEL

Entered in Error can only be done by the author or the chief of MIS. Check the user to see if they can delete.

Scope: Private

Parameter	Datatype	Description
INP	String	IEN of the entry [1] ^ user deleting [2]
<return value>	Boolean	1 if able to delete, else 0

77.12.49 RPC: BGOVVI PROBDATA

Logically deletes a care plan or goal.

Scope: Private

Parameter	Datatype	Description
INP	Pointer (#9000011)	IEN of problem
<return value>	String List	Array(n)=Type (G OR C) [1] ^ C Plan IEN [2] ^ Prob IEN [4] ^ Who entered [4] ^ Date Entered [5] ^ Status [6] ^ SIGN FLAG [7] =~t [1] ^ Text of the item [2] ;Array(n)="I" [1] ^ Instr IEN[2] ^ Prob IEN [3] ^ Vst Date [4] ^ Facility [5] ^ Prv IEN [6] ^ Location [7] ^ Entered Dt [8] ^ Visit IEN [9] ^V cat [10] ^ Locked [11] ^ Prov Name [12 ^ signed [13] =~t [1] ^Text of the item [2] ;Array(n)="T" [1] ^ TR IEN[2] ^ SNOMED term [3] ^ Prob IEN [4] ^ Vst Date [5] ^ Facility [6] ^ Prv IEN [7] ^ Location [8] ^ Entered Dt [9] ^ Visit IEN [10] ^ V Cat [11] ^Locked [12] ^ Prov name [13] ;Array(n)="S" [1] ^ SERVICE [2] ^Consult Date [3] ^ STAT [4] ;Array(n)="R" [1] ^ REFERRAL [2] ^ Referral Date [3] ^ Status [4] ;Array(n)="E" [1] ^ Topic [2] ^ Date [3]

Returns array of care plans, visit instructions, treatments, consults, education topics attached to this problem.

77.12.50 RPC: BGOVVI PRVDATA

Get all the from one provider for a problem.

Scope: Private

Parameter	Datatype	Description
DFN	Pointer (#2)	IEN of Patient
PRIEN	Pointer (#9000011)	IEN of problem
PRV	Pointer (#200)	IEN of provider
NUM	Numeric	Number to return

Parameter	Datatype	Description
<return value>	String List	Array(n)=Type (G OR C) [1] ^ C Plan IEN [2] ^ Prob IEN [4] ^ Who entered [4] ^ Date Entered [5] ^ Status [6] ^ SIGN FLAG [7] =~t [1] ^ Text of the item [2] ;Array(n)="I" [1] ^ Instr IEN[2] ^ Prob IEN [3] ^ Vst Date [4] ^ Facility [5] ^ Prv IEN [6] ^ Location [7] ^ Entered Dt [8] ^ Visit IEN [9] ^V cat [10] ^ Locked [11] ^ Prov Name [12 ^ signed [13] =~t [1] ^Text of the item [2] ;Array(n)="T" [1] ^ TR IEN[2] ^ SNOMED term [3] ^ Prob IEN [4] ^ Vst Date [5] ^ Facility [6] ^ Prv IEN [7] ^ Location [8] ^ Entered Dt [9] ^ Visit IEN [10] ^ V Cat [11] ^Locked [12] ^ Prov name [13] ;Array(n)="S" [1] ^ SERVICE [2] ^Consult Date [3] ^ STAT [4] ;Array(n)="R" [1] ^ REFERRAL [2] ^ Referral Date [3] ^ Status [4] ;Array(n)="E" [1] ^ Topic [2] ^ Date [3]

Returns an array of data for a provider and a problem.

77.12.51 RPC: BGOVVI SET

Add a visit instruction.

Scope: Private

Parameter	Datatype	Description
INP	String	VVI IEN [1] ^ Visit IEN [2] ^ Problem IEN [3] ^ Patient IEN [4] ^ Evnt Dt [5] ^ Provider [6]
INSTR	Array	Array of instructions
<return value>	String	IEN of new entry or error code

77.12.52 RPC: BGOVVI SIGN

Logically deletes a care plan or goal.

Scope: Private

Parameter	Datatype	Description
IEN	Pointer (#9000010.58)	IEN of visit instructions
BY	Pointer (#200)	Who signed
<return value>	String	Null or error text

77.13 External Relations

Entity	Name	Description
Package	Text Integrated Utilities (TIU)	In care plans and goals, the TIU application is called for creating and use TIU templates
Package	IHS STANDARD TERMINOLOGY (BSTS)	Used to look up and get SNOMED codes and to use the Apelon lookup for finding SNOMED codes
Package	IHS PCC SUITE	Files used to store education, POVs and problems.

77.14 Internal Relations

None.

77.15 Archiving and Purging

There are no archiving or purging requirements within this software.

77.16 Components

This component supports the following properties and methods:

77.17 Properties

Property	Datatype	Access	Description
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 3 = Left – aligns to the left boundary of the parent 4 = Right – aligns to the right boundary of the parent 5 = All – expands to the dimensions of the parent 6 = Center – centers itself within the parent
ANCHORS	Flag	RW	Anchors the component's position relative to its parent. Zero or more of: 1 = Top 2 = Left 4 = Right 8 = Bottom
HEIGHT	Integer	RW	Sets the height (in pixels) of the component.
LEFT	Integer	RW	Sets the position (in pixels) of the left boundary of the component.

Property	Datatype	Access	Description
TOP	Integer	RW	Sets the position (in pixels) of the top boundary of the component.
WIDTH	Integer	RW	Sets the width (in pixels) of the top boundary of the component.

Glossary

Application Context

This is an entry in the Option file that provides access control at the client application level. The Broker passes this information on the initial connection request. A user must have access to the given option to establish a broker connection.

Broker

Software that marshals remote procedure requests between a client application and a remote host. Also known as RPC Broker.

Common Context Object Workgroup

An HL7-sponsored workgroup responsible for specifying standards for context exchange among applications.

Context Object

A specialized service that maintains a common context for a specific entity (e.g., patient or encounter) and supports the context change event interface.

Daemon

A background process that performs a specified service.

Listener

A daemon that monitors a specified TCP port and handles communications between the client and remote host.

Primary Listener Daemon

The daemon that listens for the initial connection request. The primary listener daemon immediately passes the connection to a secondary listener daemon.

Remote Procedure

A procedure residing on a remote host that may be invoked by a client process through a broker intermediary.

Remote Procedure Call

The act of invoking a remote procedure. This is often used interchangeably with the term “Remote Procedure,” especially using its abbreviated form, RPC.

RPC Context

This is an entry in the Option file that provides access control at the remote procedure level. The Broker passes this information with each remote procedure request. A user must have access to the given option to invoke the associated remote procedure.

Secondary Listener Daemon

The daemon that handles communication interchange between the client and remote host processes.

Session Context

This refers to the persistent state information associated with an establish session.

Acronym List

Acronym	Meaning
CCOW	Clinical Context Object Workgroup
CMS	Component Management Service
CSL	Communication Service Layer
CSS	Component Support Services
HL7	Health Level Seven
IHS	Indian Health Service
RPC	Remote Procedure Call
RPMS	Resource and Patient Management System
TCP	Transmission Control Protocol
VIM	Visual Interface Manager

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

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

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

Email: support@ihs.gov