

# **Department of Veterans Affairs**

**VistA Scheduling Enhancements (VSE)**

**GUI v2.0.0.15.8**

**SD\*5.3\*679 & GMRC\*3.0\*98**

## **Technical Manual**



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**Version 1.1**

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# **1. Overview**

This manual provides Department of Veterans Affairs (VA) site managers with a technical description of the Veterans Health Information System and Technology Architecture (VistA) Scheduling Graphical User Interface (GUI) routines, files, menus, cross references, globals, and other necessary information required to effectively manage the system.

The VistA Scheduling GUI module has the following features:

- Microsoft (MS) Windows user interface
- Graphical patient, clinic, provider, and resource scheduling
- Tight linkage to VistA patient and clinic data
- Graphical resource and clinic availability scheduling
- Printing and What You See Is What You Get (WYSIWYG) print preview of clinic schedules
- Graphical patient check-in links to VistA/PCC Plus (PCC+) check-in
- Reschedule and manipulate appointments using standard Windows cut/paste metaphors utilities procedures
- Schedule multiple appointments during a time block
- Store and retrieve clinic availability patterns
- Simultaneously view schedules for multiple clinics
- Resource Management Reporting for viewing metrics related clinic appointments and patient encounters in VistA

## **1.1. Security**

The VistA Scheduling GUI uses VistA security keys to limit user's ability to change system set-up parameters and patient information. In other words, not all VistA Scheduling GUI options are available to all users. Contact the site administrator to determine or change security keys.

## **1.2. Rules of Behavior**

All VistA users are required to observe VA rules of behavior regarding patient privacy and the security of both patient information, and VA computers and networks.

## **1.3. Orientation**

The VistA Scheduling GUI module has no VistA server menu options. The only VistA server preparation specifically required to run VistA Scheduling GUI v2.0.0.15.8 is to install the multi-build patch containing SD\*5.3\*679 and GMRC\*3.0\*98 and to use the Kernel Installation and Distribution System (KIDS) module to assign appropriate security keys to users. The rest of the module runs on the PC client and can be managed from there.

Interaction of VistA Scheduling GUI with the VistA system is accomplished entirely via the use of Remote Procedure Calls (RPCs).

## 2. GUI Implementation and Maintenance

### 2.1. System Requirements

- Client Operation
  - Windows 7 or later
  - .NET version 4.0 or higher
  - Four (4) gigabyte (GB) random access memory (RAM)
- Client Development/Maintenance
  - Windows 7 or later
  - Visual Studio 2015 (or higher if it supports Rational Source Control plug-in)
  - Rational Source Repository
  - Rational Source Control Plug-In
  - VistA instance with RPC Broker for unit testing
  - VistA Scheduling Patch SD\*5.3\*679

### 2.2. Overview

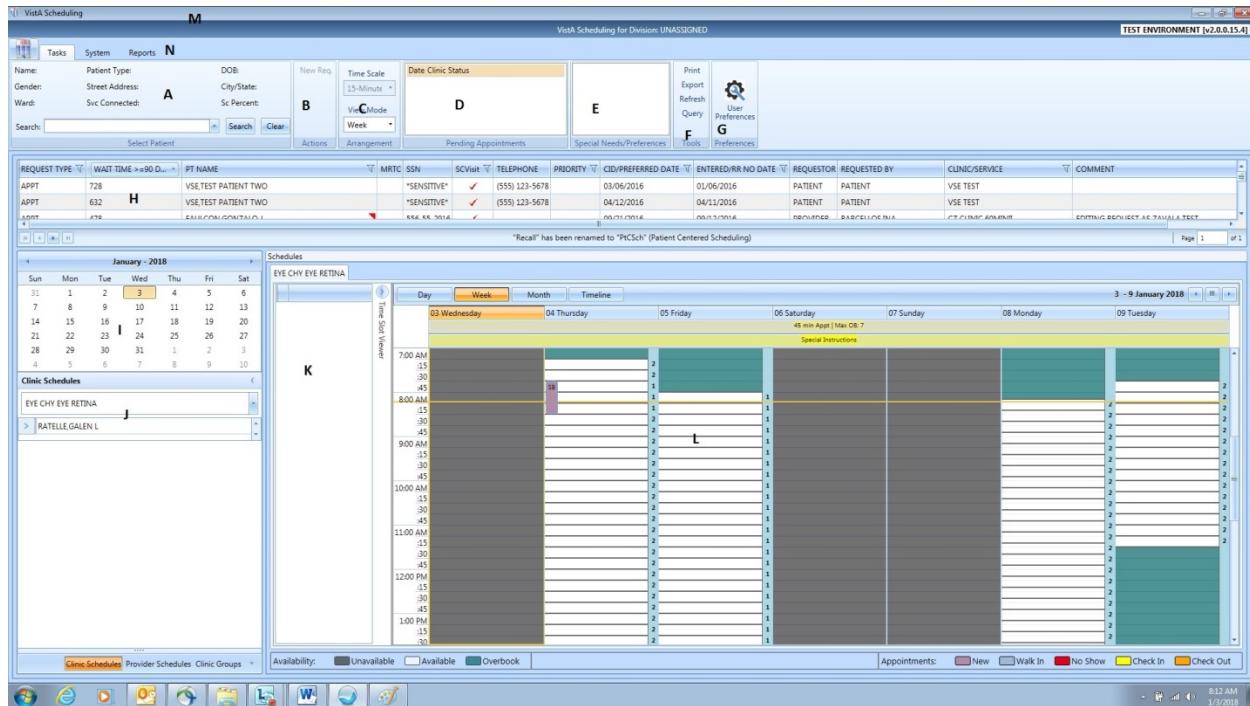


Figure 1: GUI main screen

The main screen of the thick client GUI is shown in Figure 1 above. After logon, the main screen is displayed. A call to SDECIDX GETREC with subsequent calls to SDEC ARGET,

SDEC WLGET, SDEC RECGET and SDEC REQGET RPCs is made to populate the **Request Management (RM) Grid**.

The principal sections of this screen are as follows (letters refer to the markings in the figure):

#### A. Ribbon Bar Patient Information

This part of the main GUI screen is used to search for and select a patient and to display information about the patient. The SEARCH button invokes the SDEC PTLOOKRS RPC to match patients in the VistA Patient file (#2) with the input entered into the associated search box. A list of matching names is displayed in a result list beneath the search box. Clicking on a listed patient displays demographic data (reused from the SDEC PTLOOKRS RPC call previously made) in the fields shown in the Ribbon Bar. Once a patient is selected, the “New Req.” link in the Ribbon Bar Actions Menu is also activated.

When selecting an Appointment Request in the **Request Management (RM) Grid** or an Appointment from a **Calendar Schedule** SDEC GETREGA is called to populate the Patient Information.

Note: Some data returned by RPC calls is cached by the GUI for a minimum of 5 minutes or until the Refresh button in the **Ribbon Bar Tools Menu** is clicked.

#### B. Ribbon Bar Actions Menu

This pane in the Ribbon Bar contains a link to begin appointment request creation (see **Appointment Request Type Dialog** below).

#### C. Ribbon Bar Arrangements Menu

This pane in the Ribbon Bar is now inoperative. The View Mode box was made invisible in Release 1.5, and the Time Scale was previously made non-functional. The user has indicated that this pane can be removed from the Ribbon Bar.

#### D. Pending Appointments

This pane contains a sortable list of pending appointments for a patient. RPC SDEC FAPPTGET is called with a date range of 365 days in the past to 1000 days in the future to populate the list. The data is organized in three columns – date, clinic, appointment status – the data can be sorted in ascending or descending order or filtered by the user (see **Pending Appointments Column Filters** below).

Left clicking on an appointment calls a series of RPCs including but not limited to SDEC RESOURCE, SDEC CLINSET, SDEC APPSLOTS and SDEC CRSCHED to populate the **Calendar Schedule**. Right clicking in this pane – except in the header – produces an appointment context menu (see **Print Pending Appointments** below) that can be used to display additional appointment information or that can be used to print pending appointments.

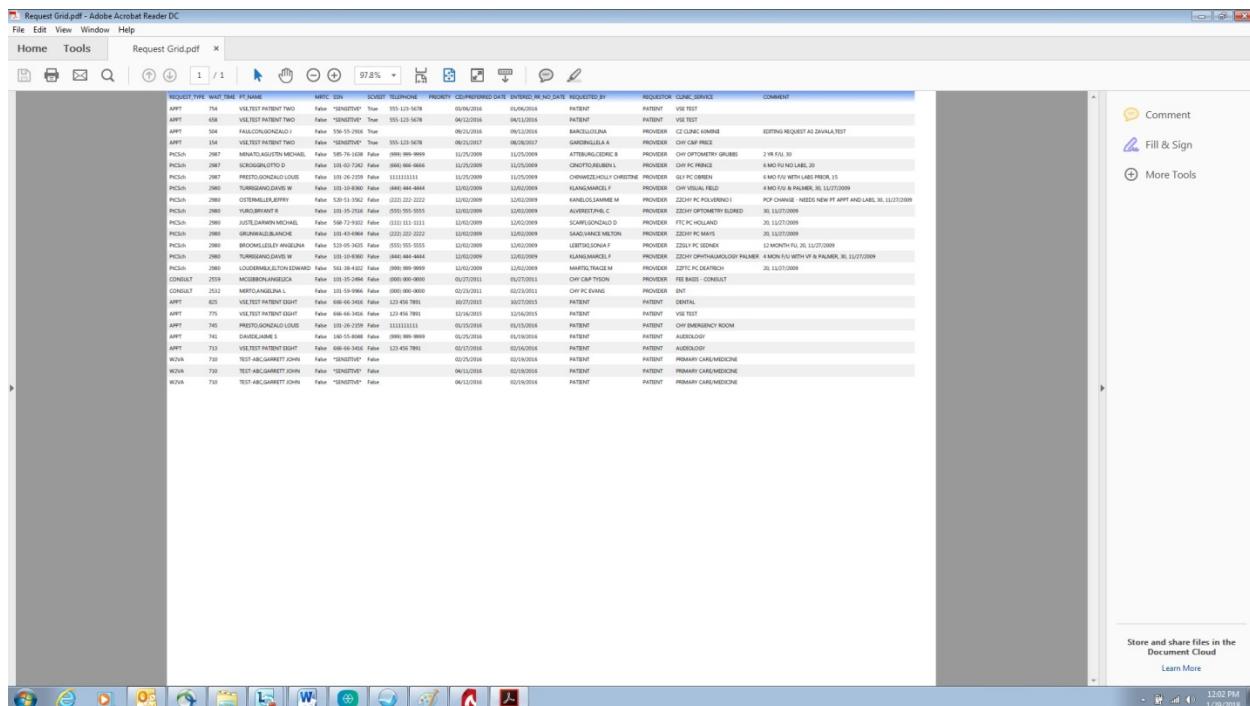
#### E. Patient Special Needs/Preferences Window

This pane displays a patient’s special needs or preferences. The data comes from the SDEC PTLOOKRS or SDEC GETREGA RPCs that are called when the patient is selected (see **Ribbon Bar Patient Information**). The special needs or preferences can

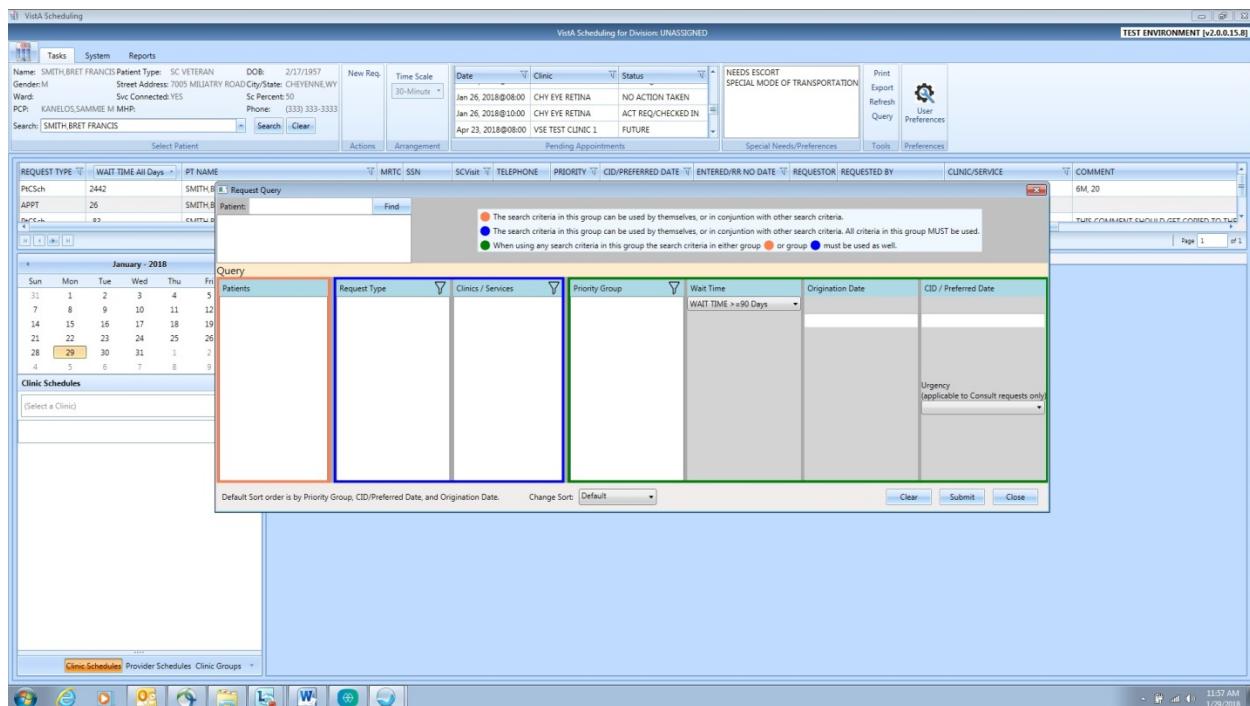
be modified by right clicking in the **Ribbon Bar Patient Information** and then using the **Patient Information Dialog**.

## F. Ribbon Bar Tools Menu

This pane has four selection options: 1) Print, 2) Export, 3) Refresh and 4) Query. Print (see Figure 2 below) and Export allow the user to output the appointment request wait list (stored in the **Request Management (RM) Grid**) as either a printout or a spreadsheet. Refresh clears the wait list and re-loads it. Query (see Figure 3 below) allows the user to select specific data filters to use to repopulate the entries on the wait list.



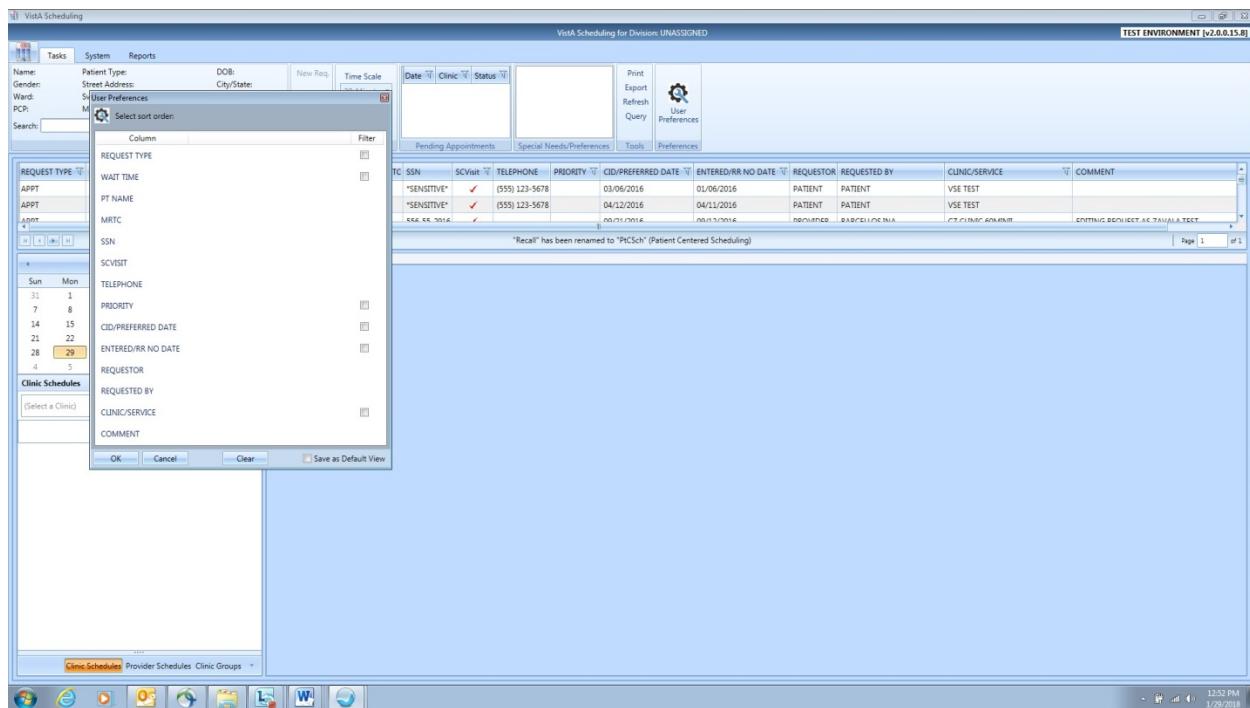
**Figure 2: Wait List - Print**



**Figure 3: Ribbon Bar Tools Menu - Query option**

## G. User Preferences

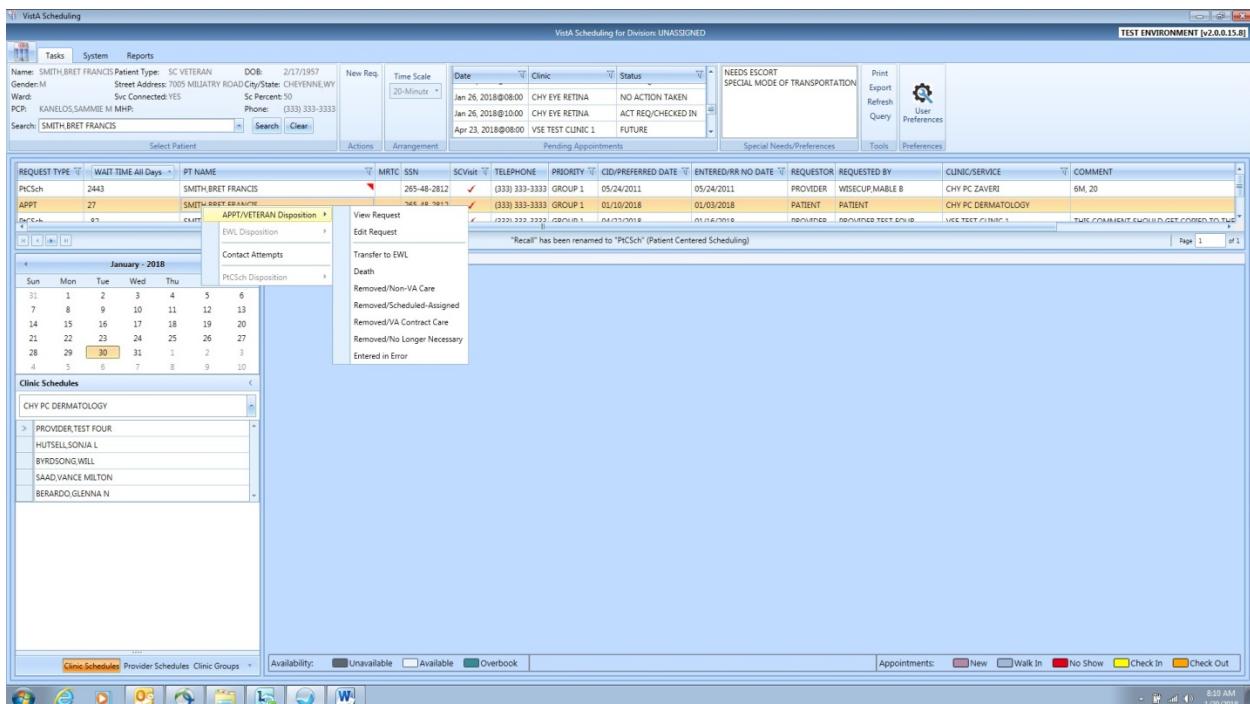
In this window, the user specifies the criteria applied to selecting appointment requests to be displayed in the wait list (**Request Management (RM) Grid**). User settings are obtained from VistA by calling the SDECRMGP GETRMGUP RPC. If the user checks the save as default box, the changed criteria are stored back in VistA via the SDECRMGP PUTRMGUP RPC.



**Figure 4: User Preferences**

## H. Request Management (RM) Grid

Upon initial logon, the RM Grid displays the facility's wait list or a wait list based on the user's previously saved User Preferences. If a patient has been selected (**Ribbon Bar Patient Information**), the patient's outstanding appointment requests are displayed. Data for either version of this list are obtained from VistA via a call to SDECIDX GETREC with subsequent calls to SDEC ARGET, SDEC WLGET, SDEC RECGET and SDEC REQGET RPCs. Right clicking on an appointment request opens an option menu (see Figure 5 below) which allows the user to open selected appointment request context windows (e.g., Figure 7: Appointment Request) or to access **Patient Contacts**.



**Figure 5: RM Grid - Option Menu**

## I. Calendar Navigation Pane

This pane allows the user to switch dates in the **Calendar Schedule** when a clinic, provider or clinic group has been selected in the **Clinic/Provider Navigation Pane**. Clicking on a date invokes the SDEC APPSLOTS, SDEC CRSCHED and other RPCs to populate the calendar.

## J. Clinic/Provider Navigation Pane

This pane allows the user to select a specific clinic, provider or clinic group for display in the **Calendar Schedule**. The GUI calls a VistA RPC (SDEC RESOURCE with different input parameters for clinics and providers or SDEC RESGPUSR for clinic groups) when the user pauses typing and at least 2 characters of the clinic, provider or clinic group name has been entered.

## K. Time Slot Viewer

This pane shows characteristics of the time slot selected in the **Calendar Schedule**. It displays the date and time of the slot along with the number of appointments permitted to be scheduled in the slot. The data displayed comes from the same RPC calls used to populate the **Calendar Schedule**.

## L. Calendar Schedule

This section of the main screen displays a calendar of appointments scheduled for the selected clinic, provider or clinic group (see **Clinic/Provider Navigation Pane**). The data shown is obtained via calls to VistA RPCs – SDEC APPSLOTS and SDEC CRSCHED.

## M. Title Bar

Righ clicking on the Title Bar at the top of the main screen opens the standard Windows option menu (e.g., ,minimize, close) to which has been added a link to the **Trace Log**.

## N. Option Tabs

There are three option tabs near the top of the main screen. **Tasks** encompasses what is here described as the main screen. The other tabs are **System Tab** and **Reports Tab**.

In addition to the main screen, the GUI employs many popup windows to fulfill its scheduling duties. These additional windows are:

### A. Appointment Request Type Dialog

The Appointment Request Type pop-up window (see Figure 6 below) appears when the user clicks on “New Req.” in the **Ribbon Bar Actions Menu**. The link is disabled unless a patient has been selected in the **Ribbon Bar Patient Information**.

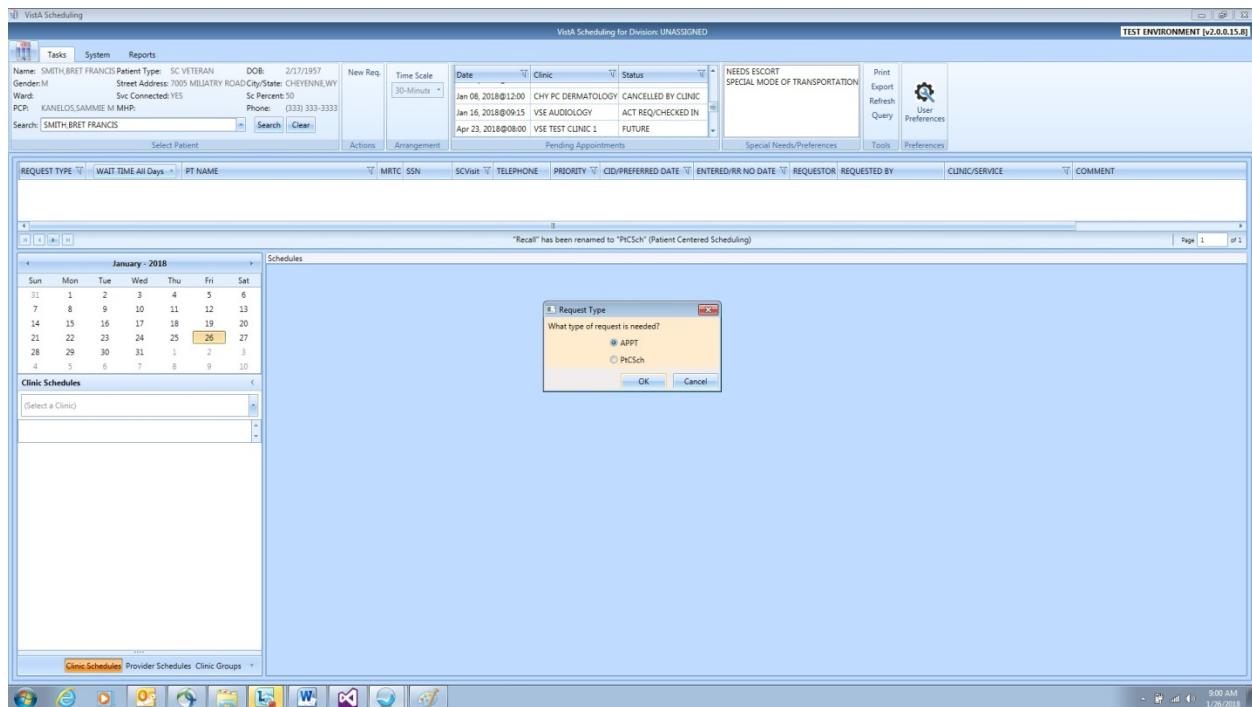
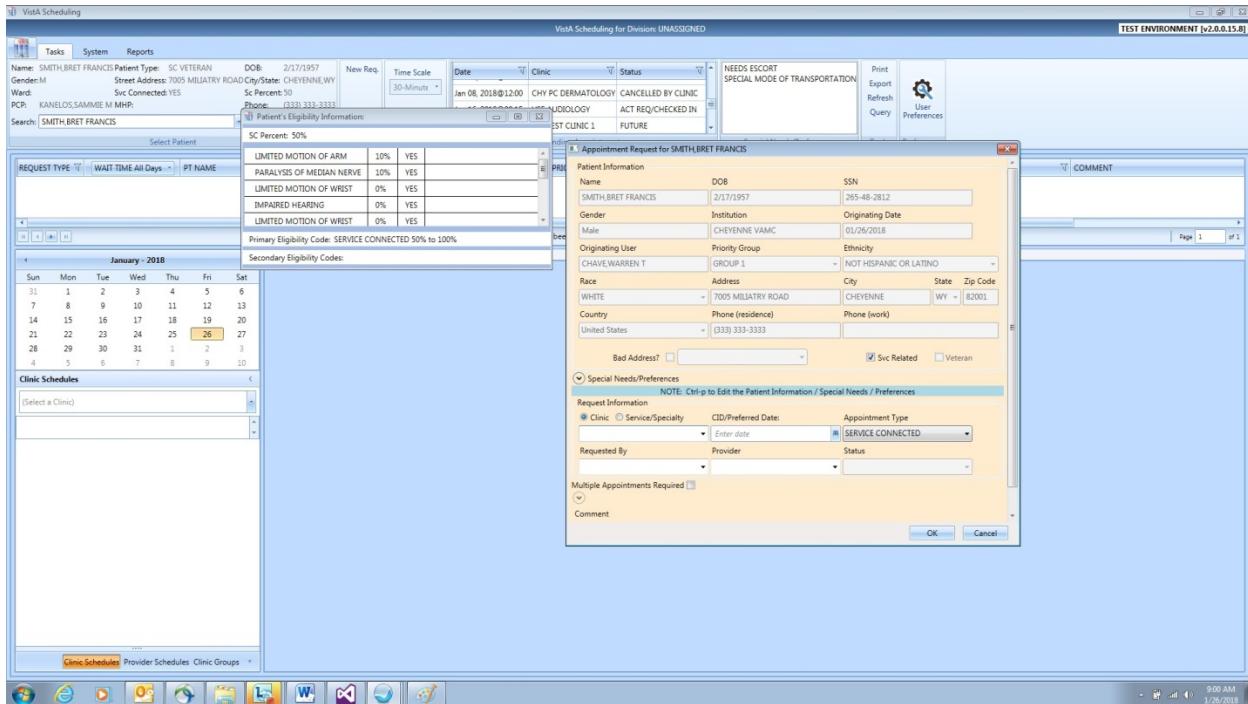


Figure 6: Appointment Request Type

### B. Appointment Request Dialog

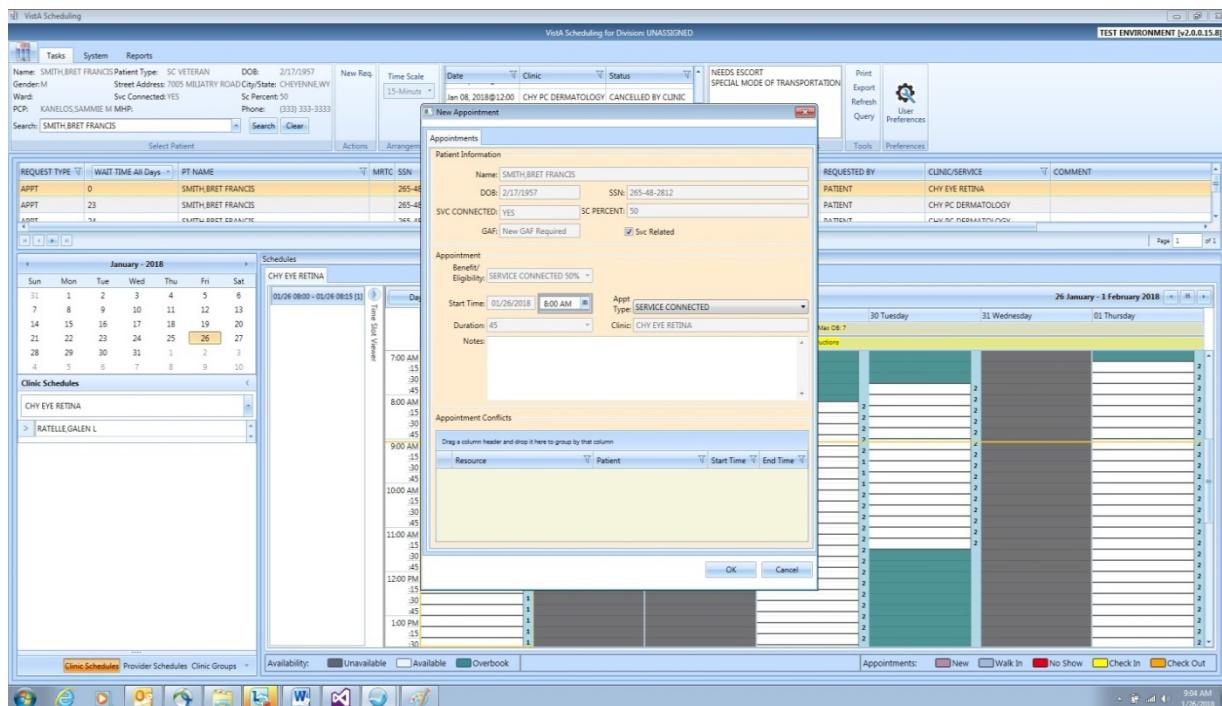
The Appointment Request pop-up window (see Figure 7 below) appears when the user clicks OK in the **Appointment Request Type Dialog**. The patient's demographic information is displayed from the cached RPC data (SDEC PTLOOKRS). Clinic look up is done by a call to the SDEC RESOURCE and SDEC CLINSET RPCs. If PROVIDER is selected in the Entered By drop down box, the name entered in the Provider box is matched against VistA with a call to the SDEC RESOURCE RPC. Clicking OK files the appointment request in VistA through a call to the SDEC ARSET RPC. The user may also specify a Multiple Return to Clinic (MRTC) Request by checking the Multiple Request Required check box, then specifying the number of appointments and duration between appointments. Doing so will create a Parent MRTC Request.



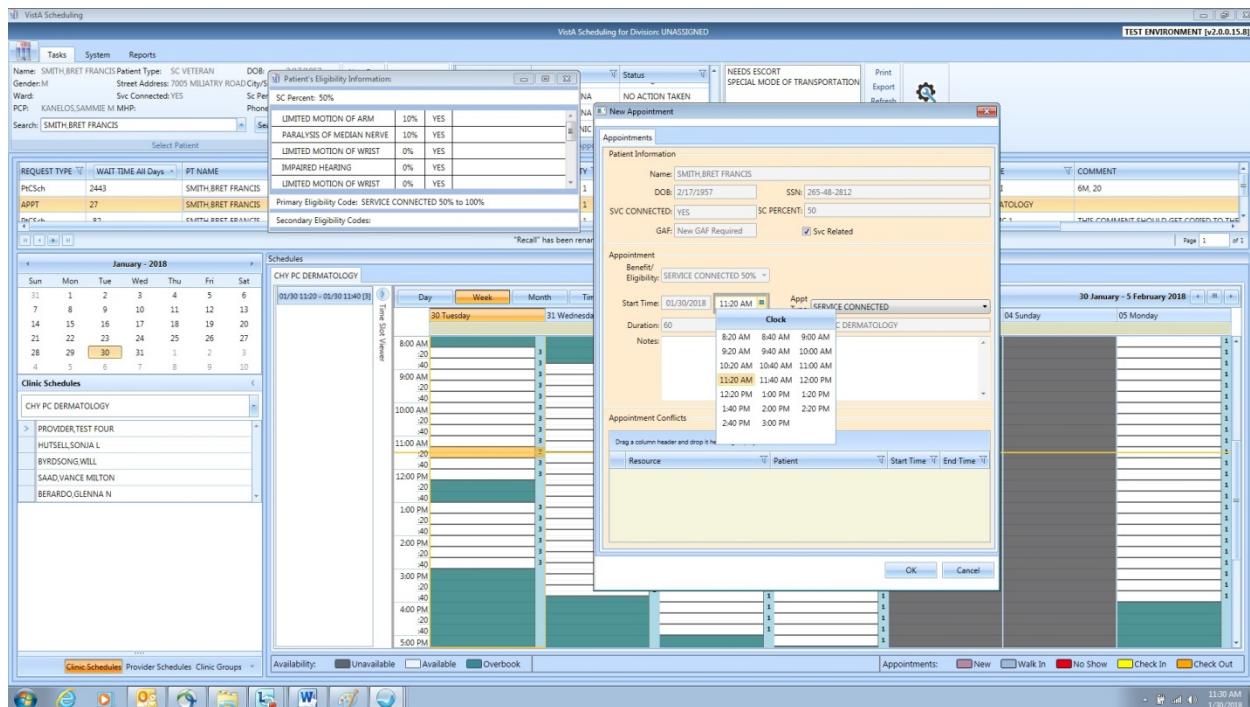
**Figure 7: Appointment Request**

### C. Appointment Dialog

The Appointment pop-up window (see Figure 8 below) appears when the user selects calendar time slot for an appointment request, right clicks and selects Add Appointment or Create Walk-in Appointment. The data to populate the window comes from cached SDEC PTLOOKRS RPC data (patient demographics) and from the appointment request (appointment time and clinic). Appointment conflicts are obtained by call to the SDEC FAPPTGET RPC, targeting only the day of the new appointment. If the user clicks on the Start Time entry box (see Figure 9 below), popup box displayed is populated with time slot start times calculated from clinic set up data obtained via the SDEC APPSLOTS RPC call. The “standard” start time for a clinic is 0800 but this can be varied when a clinic schedule is set up in VistA using the SDBUILD option.



**Figure 8: Appointment**

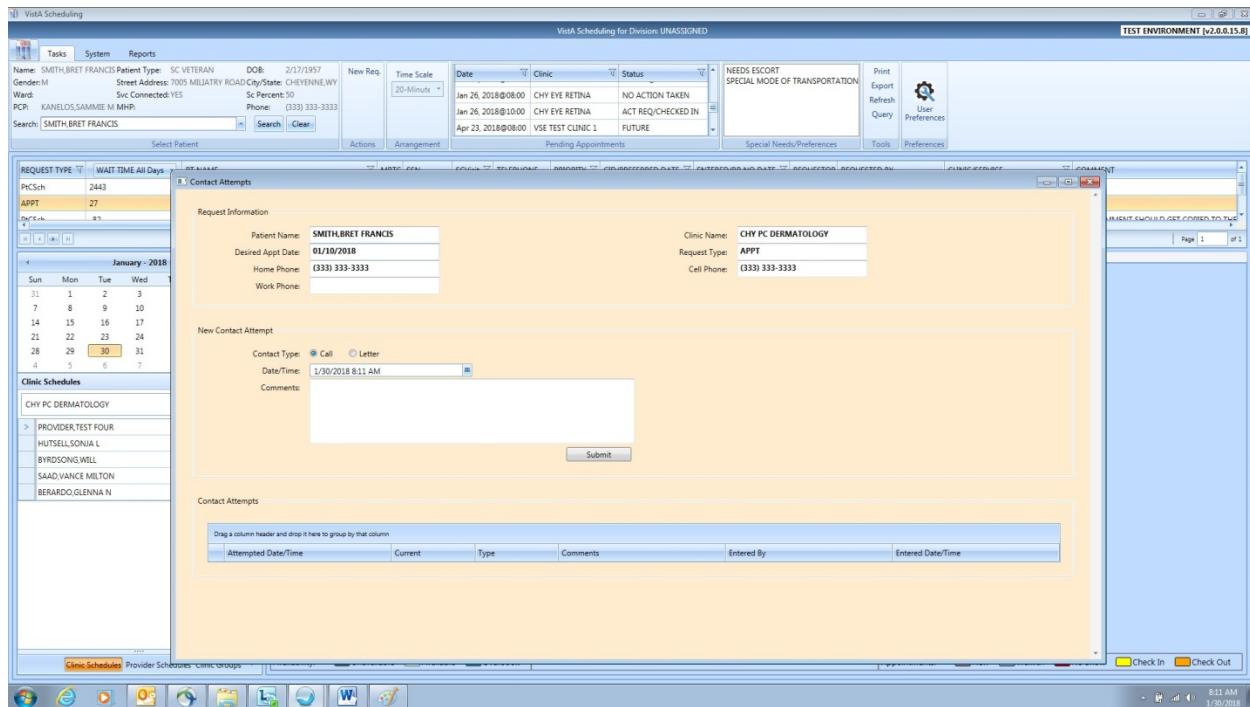


**Figure 9: Appointment Start Time**

#### D. Patient Contacts

The Patient Contacts window (see Figure 10 below) appears through interaction on the **Request Management (RM) Grid**. The data displayed on this popup comes from a call to the SDEC CONTACT DISPLAY and SDEC CONTACT MULTI-DISPLAY RPCs. Data entered

in the New Contact Attempt section is stored in VistA via a call to the SDEC CONTACT UPDATE RPC.



**Figure 10: Patient Contacts**

#### E. Disabilities Dialog / Patient's Eligibility

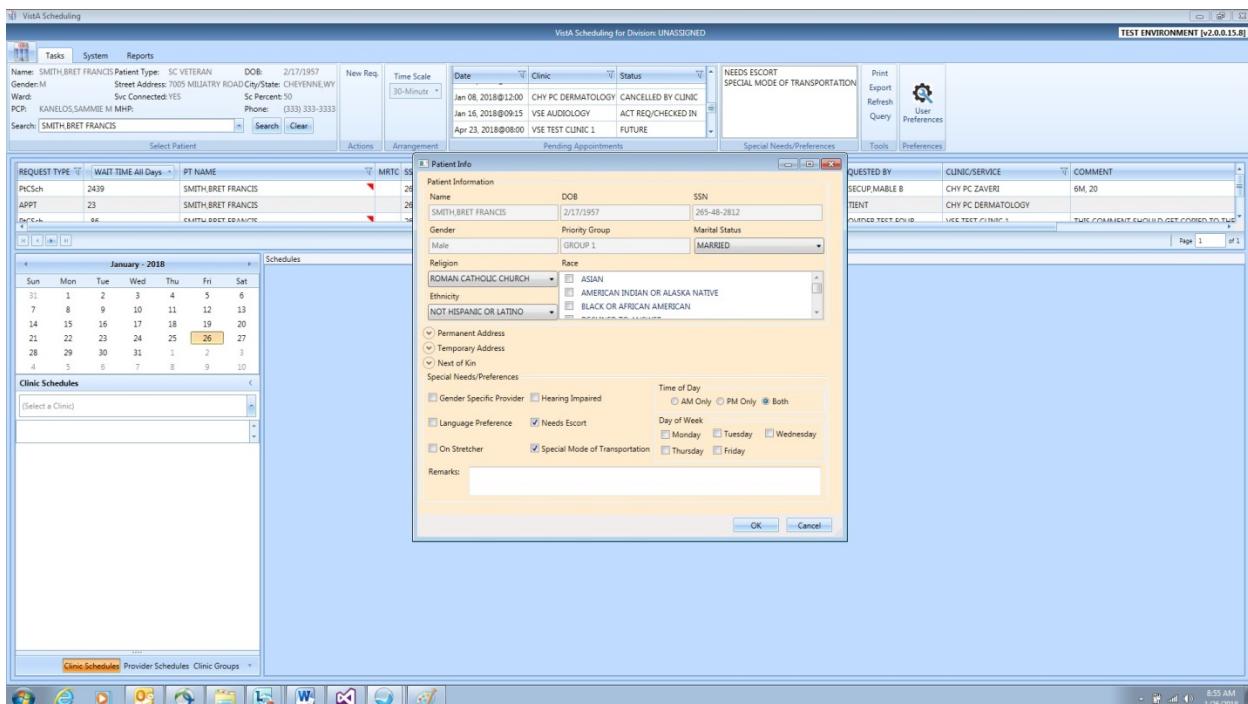
This popup window (see Figure 7 above) appears to the left of the **Appointment Request Dialog** or the **Appointment Dialog**. It displays data obtained from VistA via an SDECDIS DISABIL RPC call.

#### F. Similar Patient Dialog

The Similar Names dialog displays when the system finds patients with a similar name and the same last 4 digits of the Social Security Number. The user is able to select a patient from the list and continue, or cancel and return to searching for patients. In addition to the RPC calls used in **Ribbon Bar Patient Information**, this dialog also calls DG CHK BS5 XREF ARRAY.

#### G. Patient Information Dialog

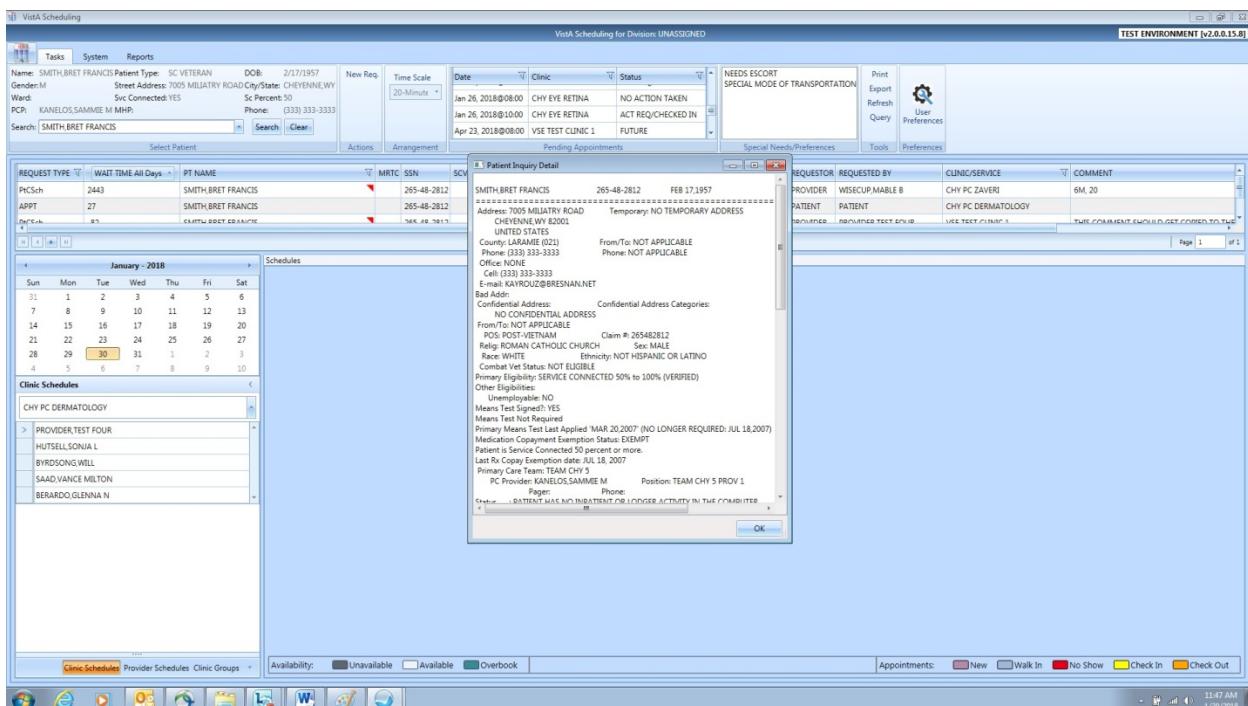
This popup (see Figure 11 below) appears when the user right clicks in the **Ribbon Bar Patient Information** pane or presses CTRL-P. The data displayed comes from cached data obtained from the SDEC PTLOOKRS RPC.



**Figure 11: Patient Information**

## H. Patient Inquiry Detail

This popup (see Figure 12 below) appears if the user left clicks anywhere in the **Ribbon Bar Patient Information**. The data displayed comes from a call to the SDEC PTINQ RPC.



**Figure 12: Patient Inquiry Detail**

## I. Patient Flags Dialog

The Patient Flags dialog (see Figure 13 below) displays important Patient Flags and Prompts. The information displayed in the Patient Flags dialog is retrieved by a call to the ORPRF GETFLF RPC call.

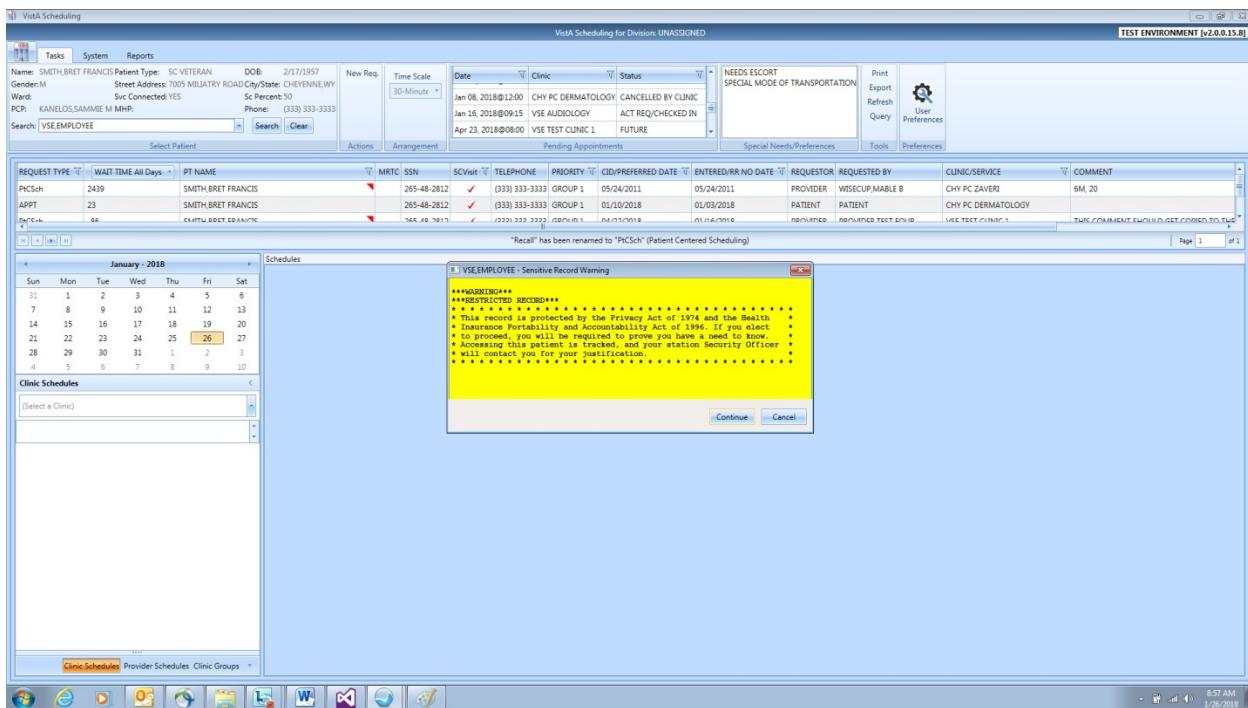


**Figure 13: Patient Flags**

#### J. Sensitive Patient Dialog

The purpose of the sensitive patient dialog windows (see Figure 14 below) is to notify the user that the patient he/she is about to access has characteristics different from the norm. There are three different types of sensitive patient dialogs that vary by the background color and the effect on the user. The GUI obtains sensitive patient data and its severity from the DG SENSITIVE RECORD ACCESS RPC.

A white background is the lowest level of sensitivity. A user who clicks through (continue button) on a white background sensitive patient warning is not otherwise encumbered. A yellow background window notifies the user that, if he/she accesses the patient, the Information Security Officer (ISO) will be notified (via the DG SENSITIVE RECORD BULLETIN RPC) and the user will need to justify the access. A red background window does not allow the user to access the patient's record. The programmed STOP prevents the user from, for example, accessing his/her own record.



**Figure 14: Sensitive Patient**

## K. Check-in Dialog

This popup window (see Figure 15 below) appears when the user right clicks on a current or past appointment on the **Calendar Schedule** and selects Check In Patient. The data entered in the window is passed back to VistA via a call to the SDEC CHECKIN RPC.

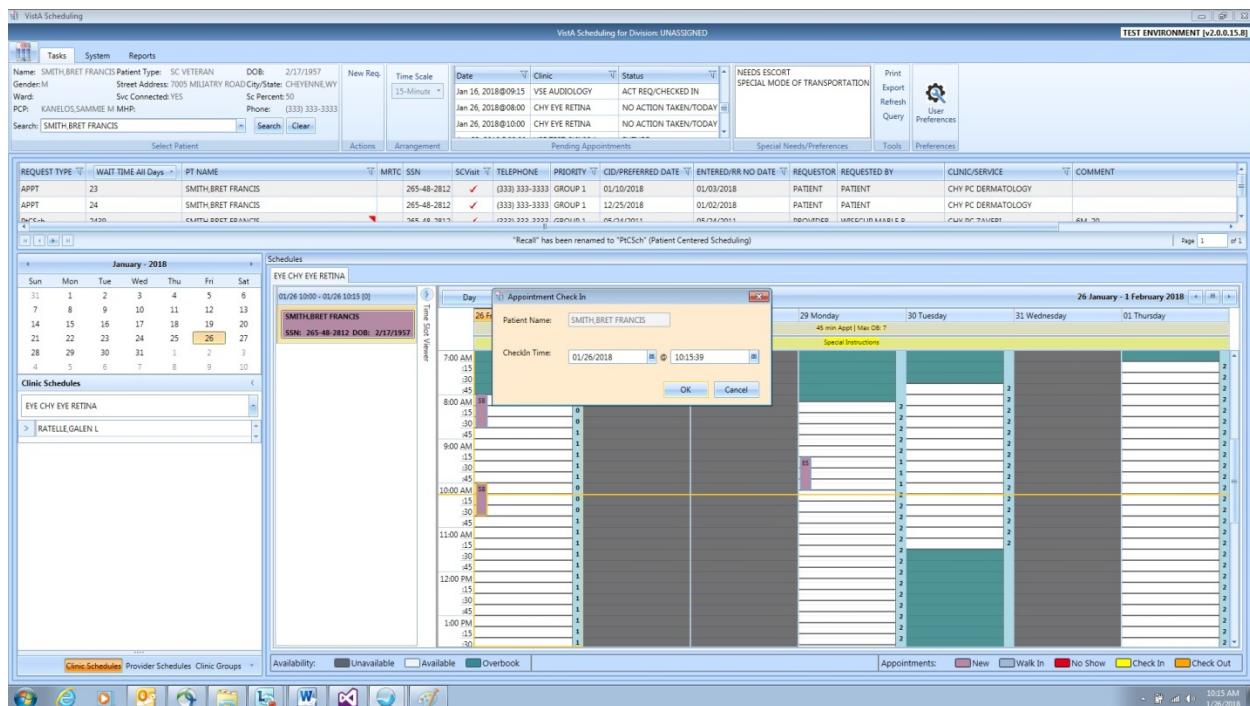


Figure 15: Appointment Check-In

## L. Check-out Dialog

This popup window (see Figure 16 below) appears when the user right clicks on a current or past appointment on the **Calendar Schedule** and selects [Check Out Patient](#). The data entered in the window is passed back to VistA via a call to the SDEC CHECKOUT RPC.

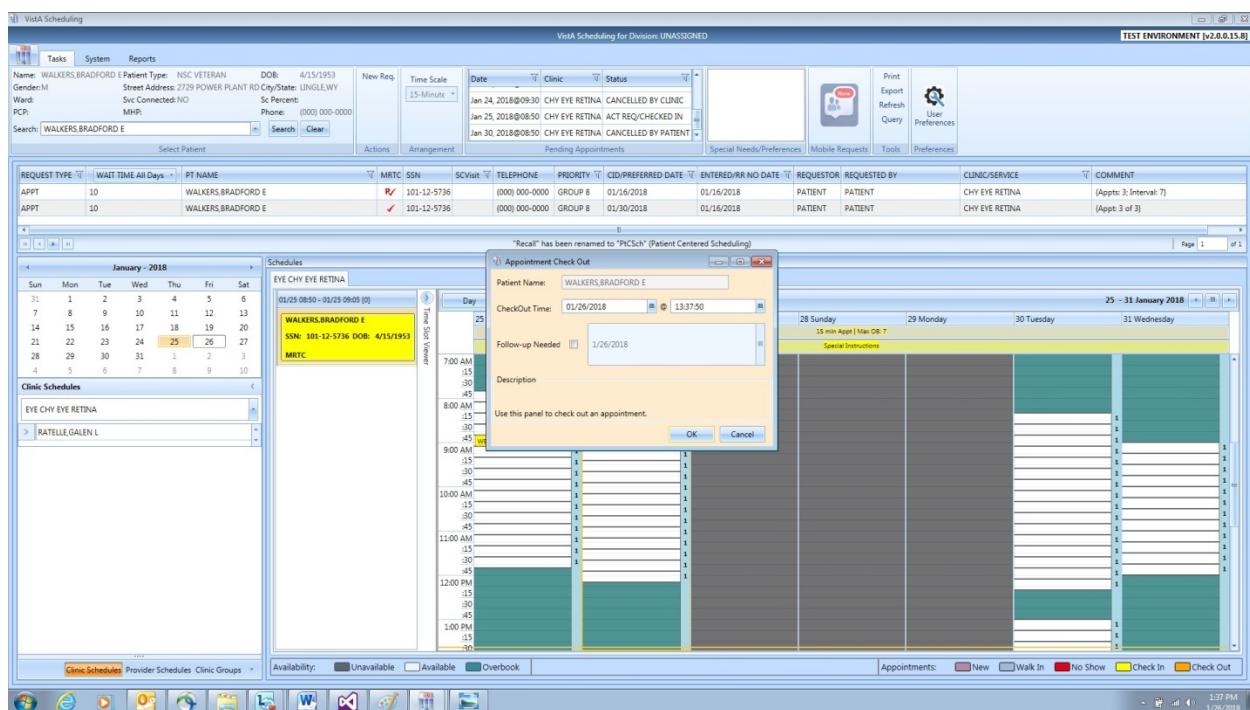


Figure 16: Appointment Check-Out

## M. Cancel Appointment Dialog

This popup window (see Figure 17 below) appears when the user right clicks on an appointment on the **Calendar Schedule** and selects Cancel Appointment or right clicks on an appointment in **Pending Appointments**. The data entered in the window is passed back to VistA via a call to the SDECCAP CANRPC.

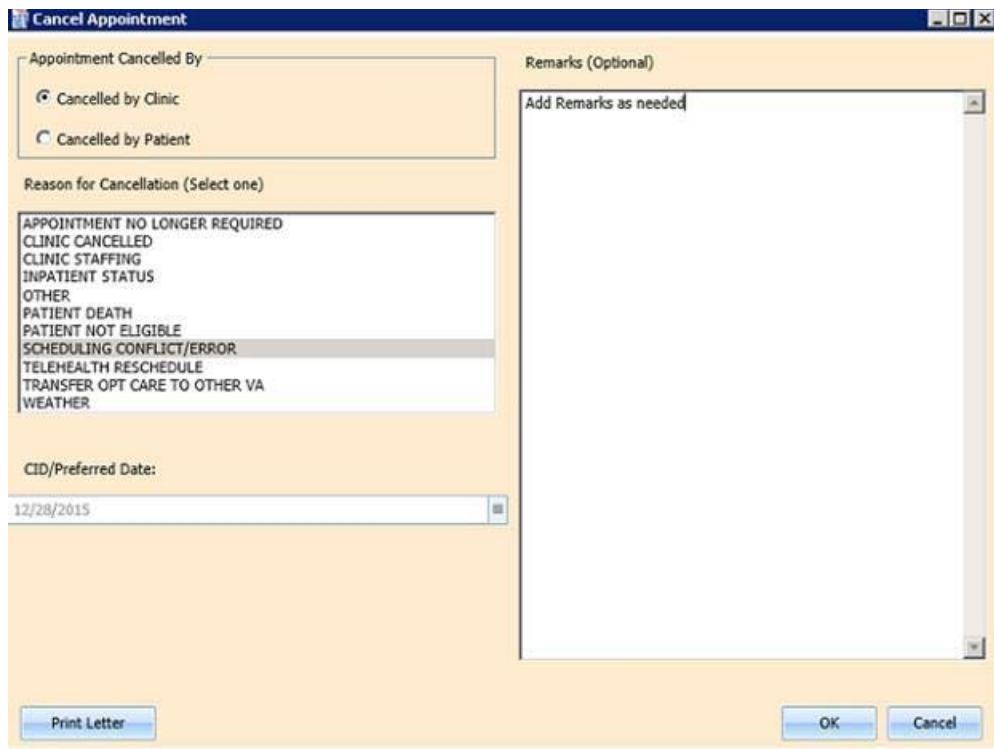


Figure 17: Cancel Appointment Dialog

## N. MRTC Cancel Appointment Dialog

The MRTC (Multiple Return to Clinic or Multi-Book) Cancel dialog (see Figure 18 below) is used to cancel MRTC appointments. The user has options to cancel the single selected appointment, or all appointments associated with the MRTC Parent Request. The user may also close the Appointment Request associated with the current appointment or close all child appointment requests as well as the Parent MRTC Appointment Request.

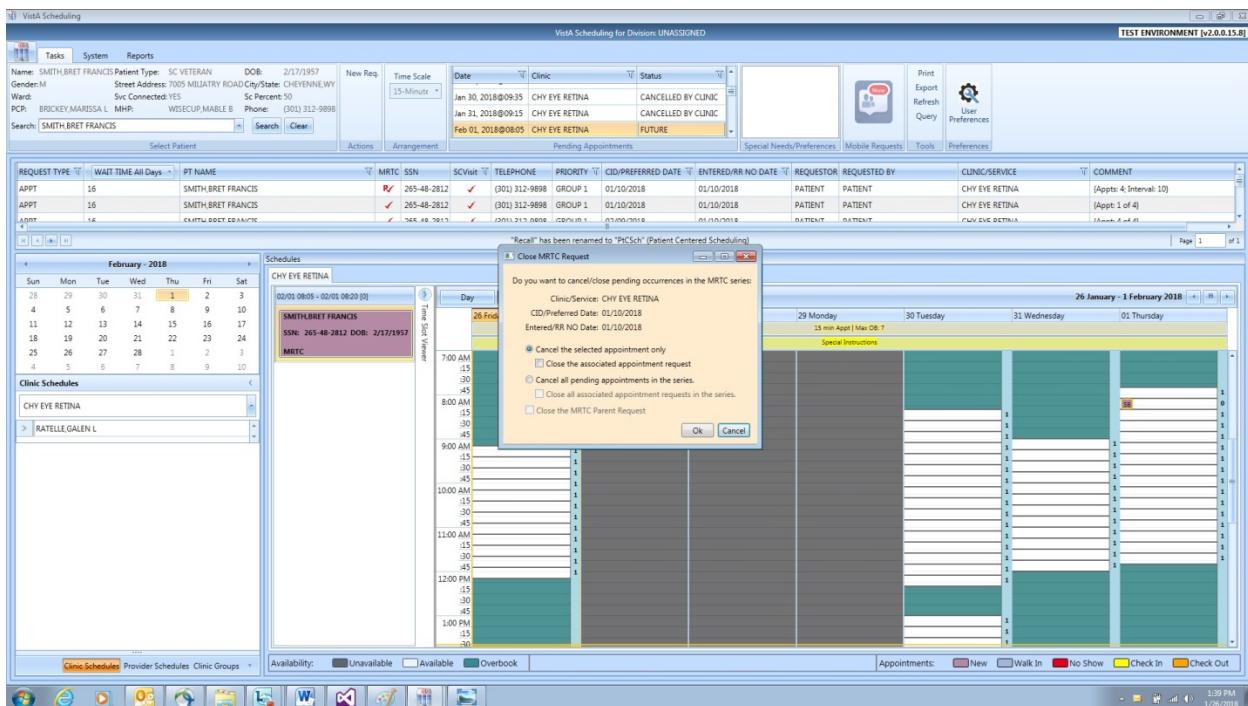
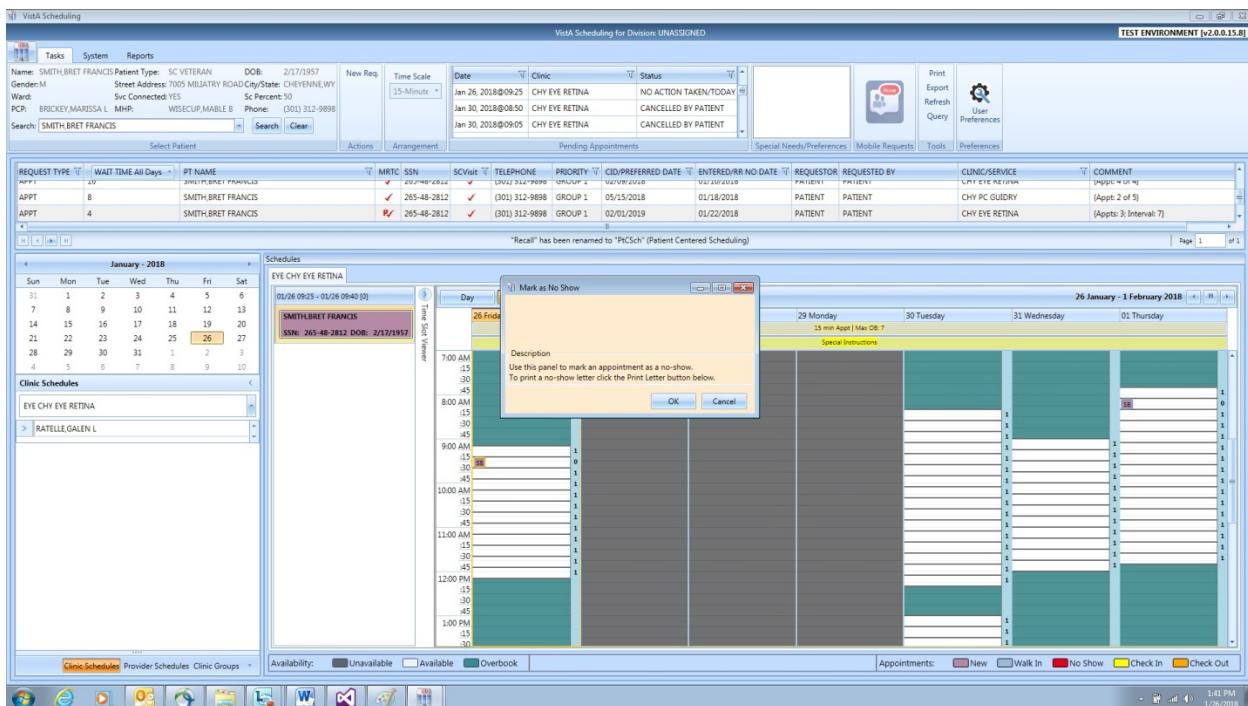


Figure 18: MRTC Cancel Appointment

## O. No-Show Dialog

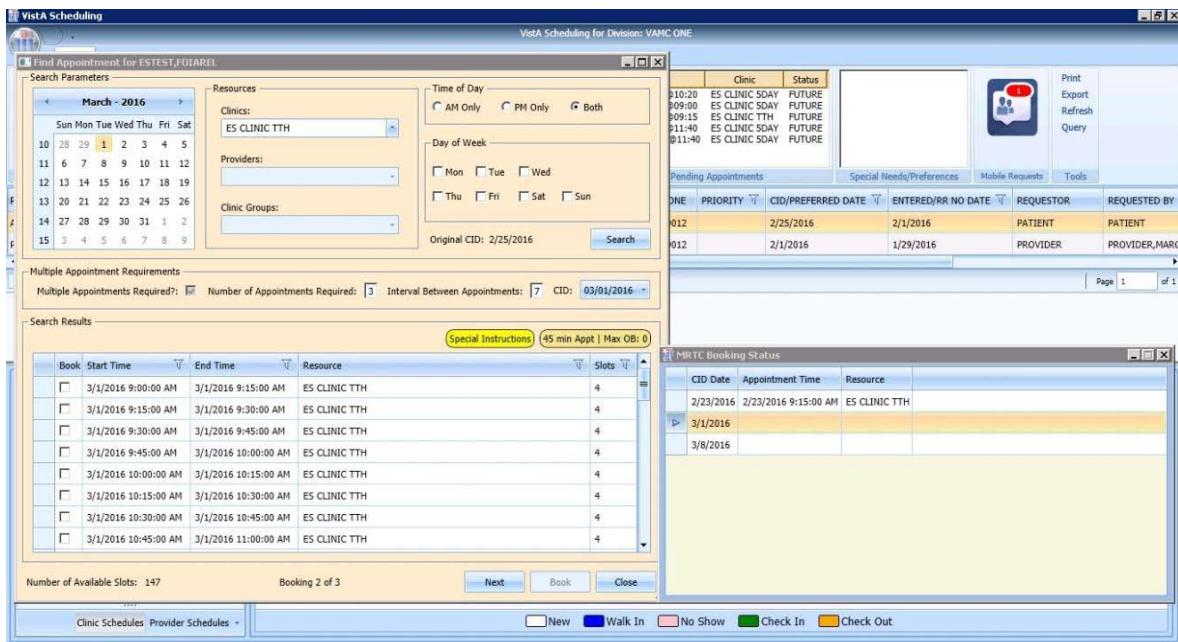
This popup window (see Figure 19 below) appears when the user right clicks on a current or past appointment on the **Calendar Schedule** and selects Mark as No Show. The data entered in the window is passed back to VistA via a call to the SDEC NOSHOW RPC.



**Figure 19: Appointment No-Show**

## P. MRTC Find Appointment Dialog

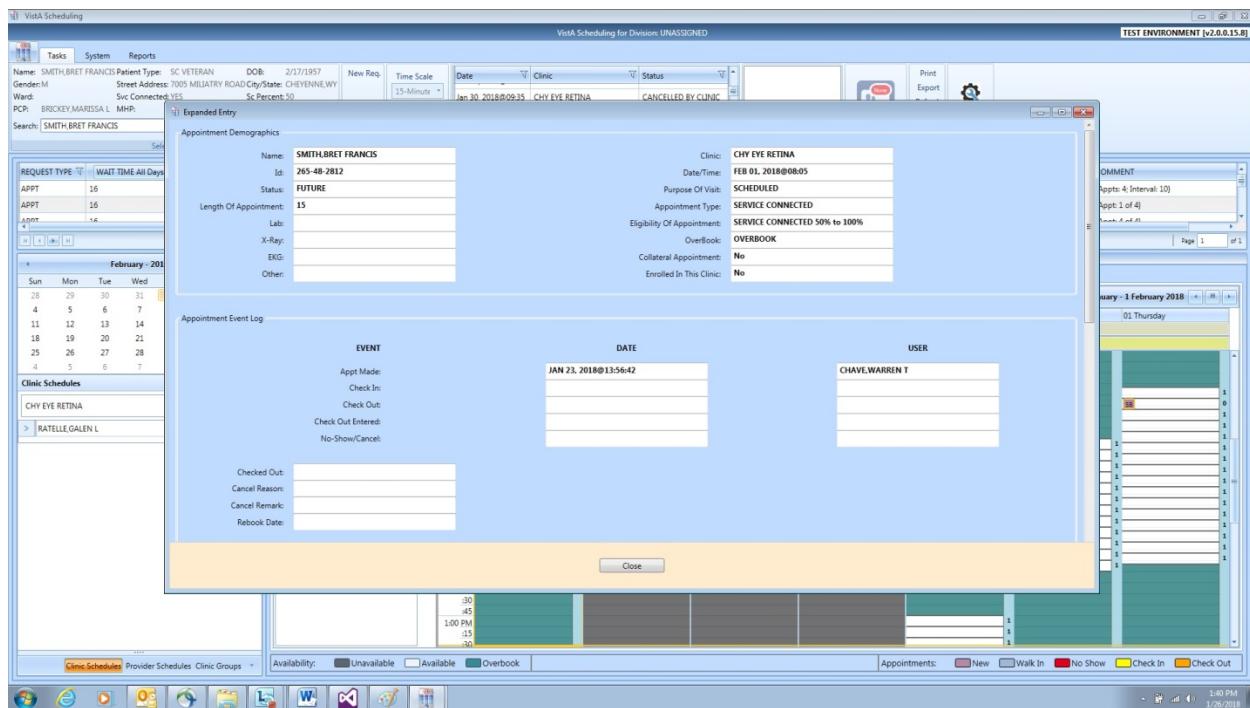
The MRTC Find Appointment dialog (see Figure 20 below) is opened when the user selects a Parent MRTC Request from the RM Grid. This dialog manages the creation of the Child MRTC Appointment Requests and the booking of the associated Child MRTC appointments. Additionally, during the booking process the MRTC Booking Status dialog will open to display the status of the child MRTC Requests and Appointments. The whole MRTC process uses various RPC calls that are referenced in the [FindAppt](#) module.



**Figure 20: MRTC Find Appointment Dialog**

## Q. Expanded Entry Dialog

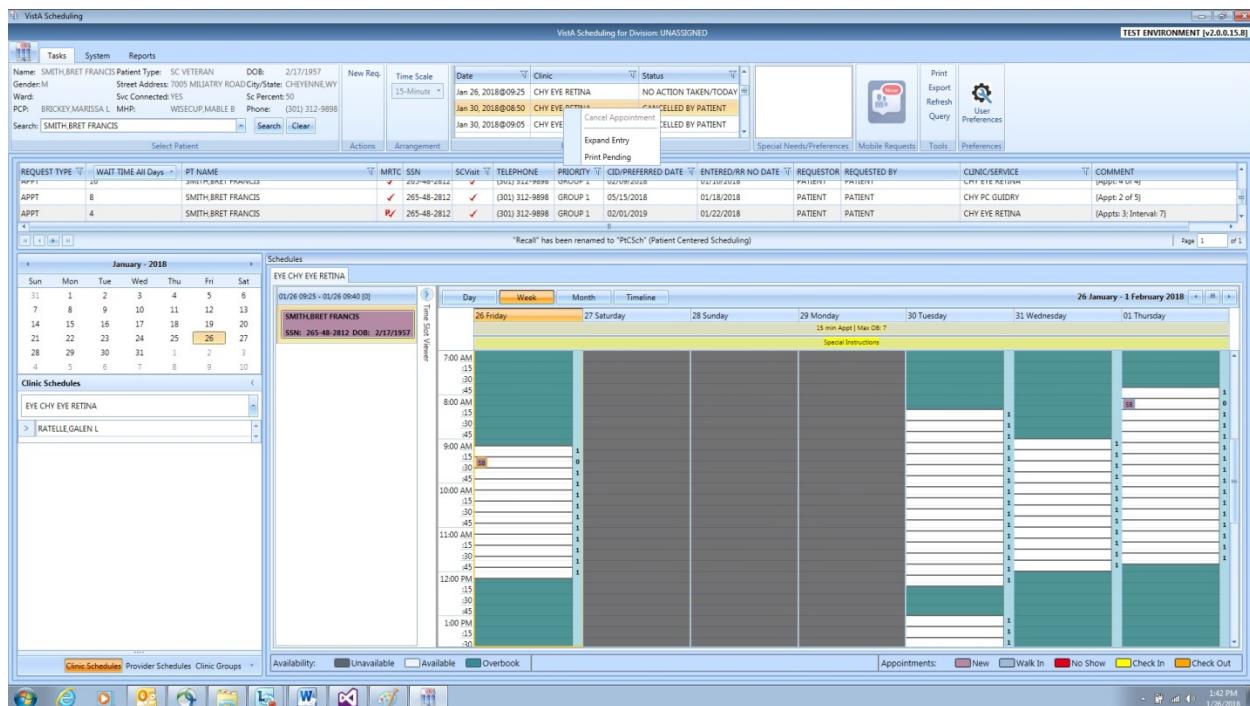
This popup window (see Figure 21 below) appears when the user right clicks on an appointment on the **Calendar Schedule** and selects Expand Entry or right clicks on an appointment in **Pending Appointments** and selects Expand Entry. The data displayed in the window is obtained from VistA via calls to SDEC EP CLASSIFICATION, SDEC EP CPT, SDEC EP DEMOGRAPHICS, SDEC EP DIAGNOSIS, SDEC EP EVENT LOG, SDEC EP PROVIDER, SDEC EP PT INFO, SDEC EP STOP CODE and SDEC EP WAIT TIME RPCs.



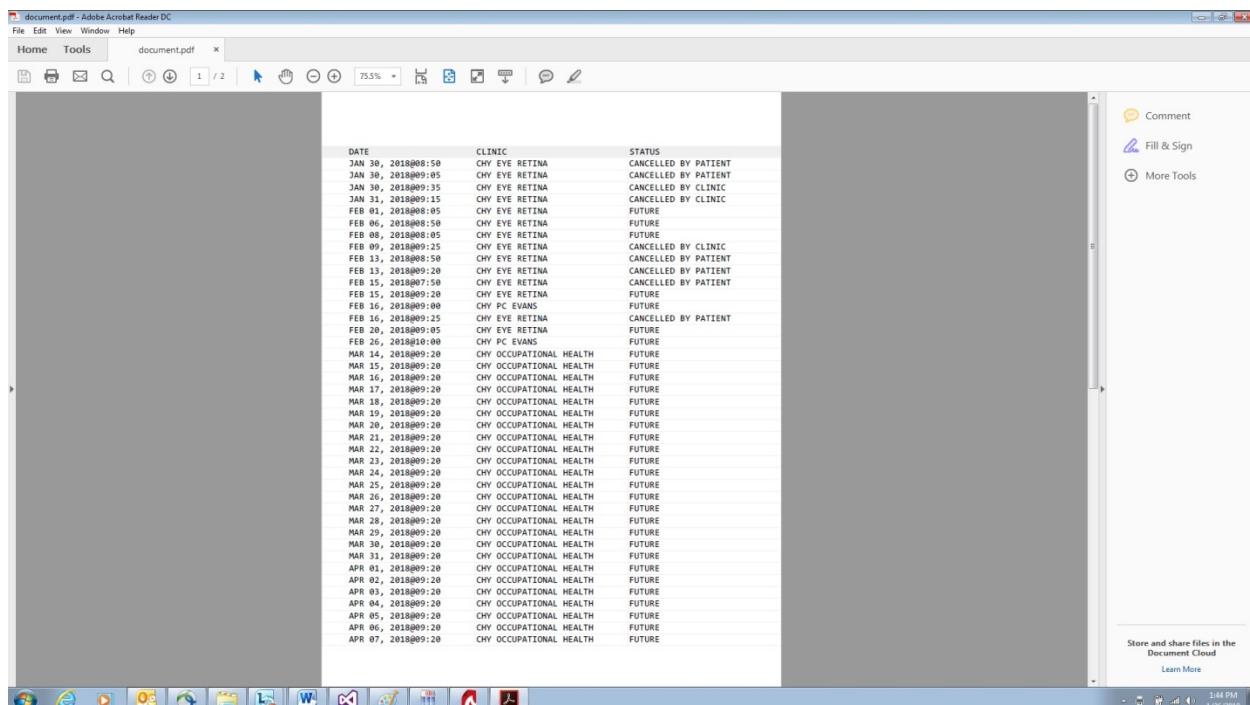
**Figure 21: Expanded Entry**

## R. Print Pending Appointments

A user can print a patient's pending appointments by right clicking anywhere (except the header row) in the **Pending Appointments** pane and selecting Print Pending (see Figure 22 below). A standard Windows print dialog then appears, and the list is printed (see Figure 23 below).



**Figure 22: Print Pending Appointments**



**Figure 23: Pending Appointments Print-Out**

## S. Pending Appointments Column Filters

The user can filter pending appointments (see Figure 24 below) by clicking on any column in **Pending Appointments**. Filtering is native to the Telerik control where pending appointments are displayed.

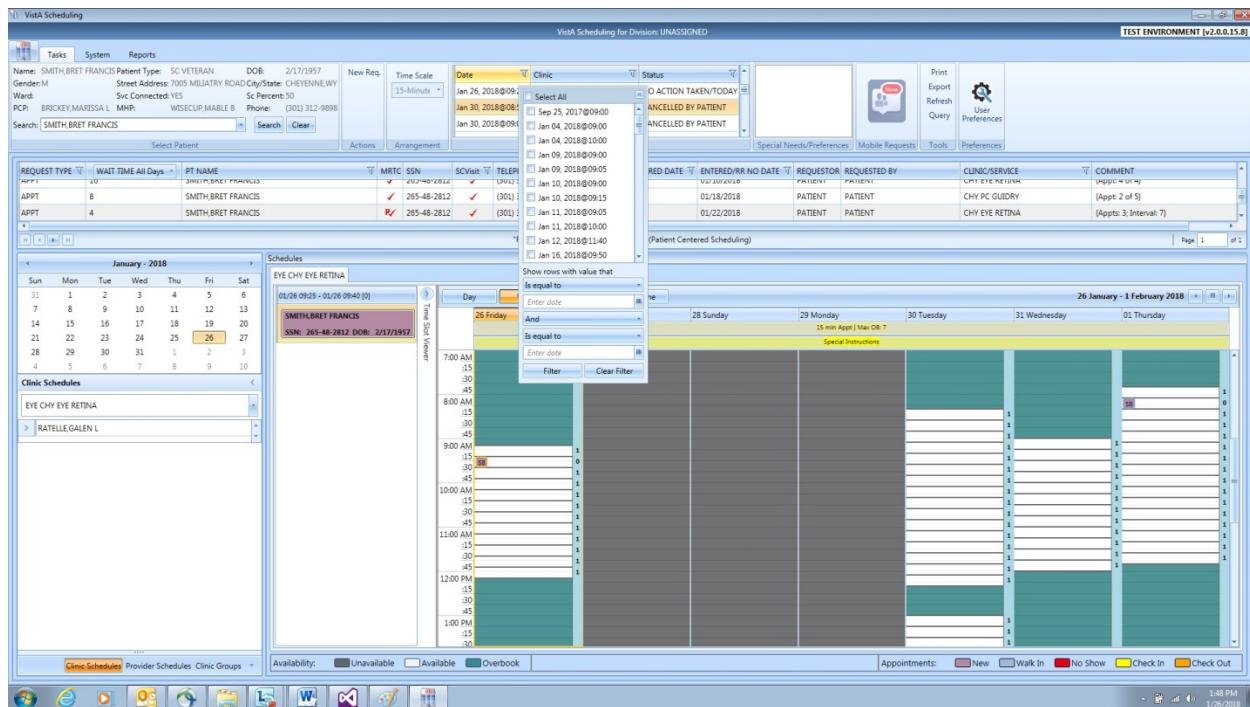
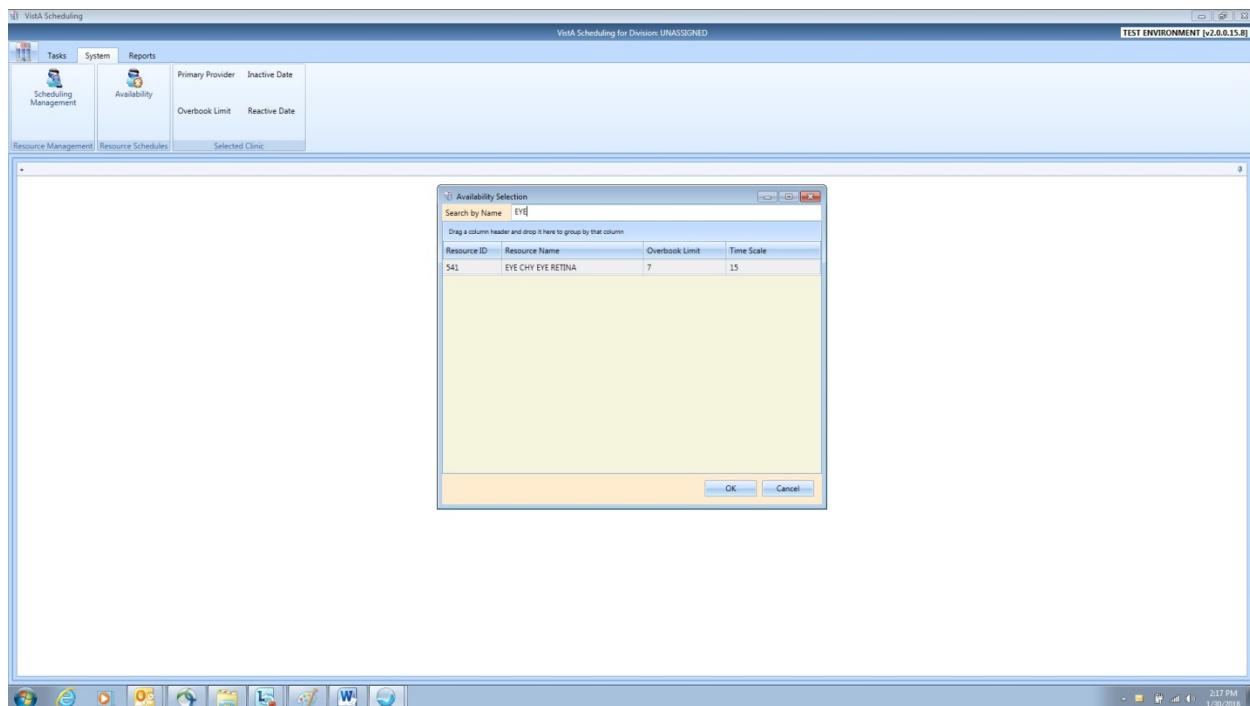


Figure 24: Pending Appointments Date Filter

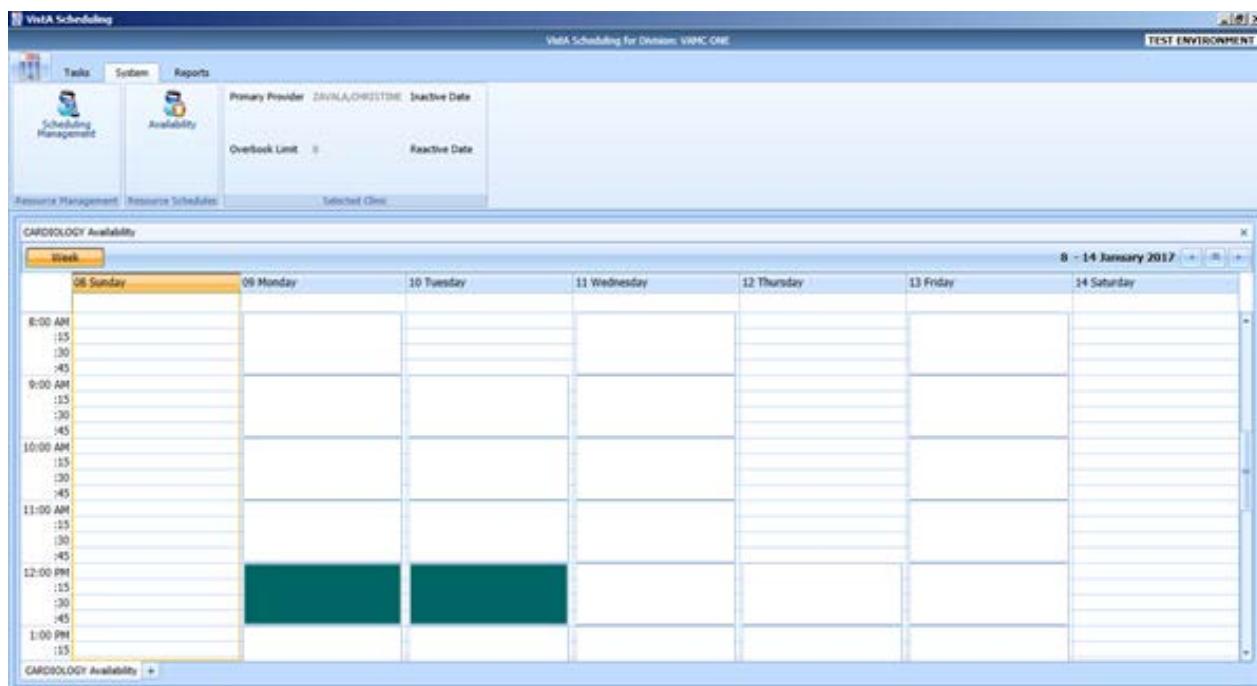
## T. System Tab

### 1. Availability Dialog

The Availability window (see Figure 25 and Figure 26 below) shows data for a clinic that is obtained via a call to the SDEC RESOURCE and SDEC APPSLOTS RPC.



**Figure 25 : Availability Clinic Selection Dialog**



**Figure 26: Availability Dialog**

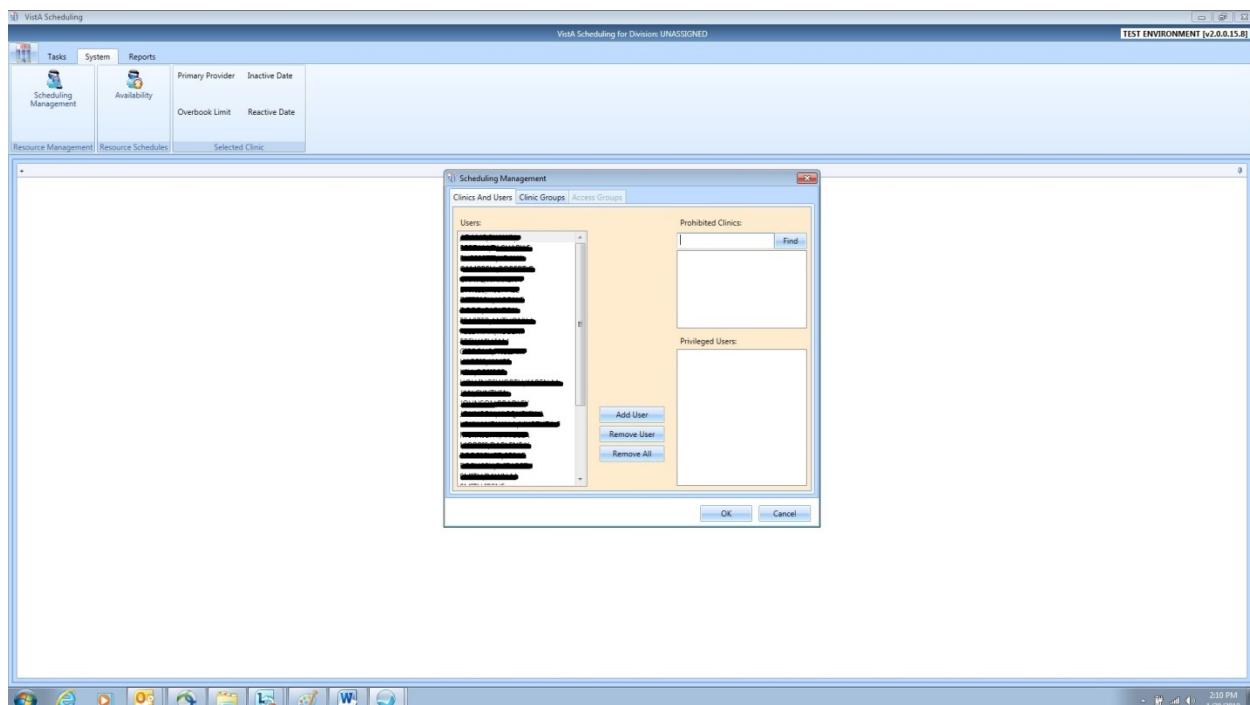
## 2. Scheduling Management Dialog

Scheduling Management is used to control access to Prohibited Clinics (see Figure 27 below) and to Clinic Groups (see Figure 28 below). The RPCs used to maintain prohibited clinics are:

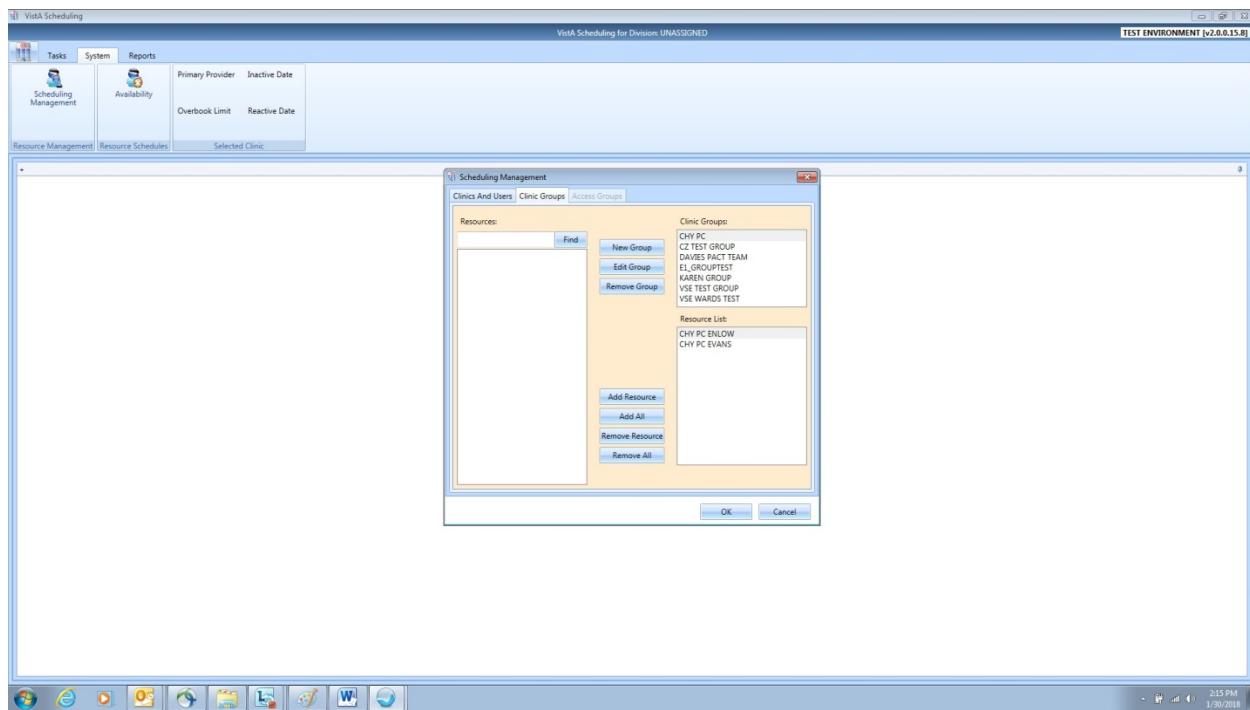
- SDEC SCHUSR – users list
- SDEC RESOURCE – prohibited clinic search
- SDEC RESUSER – privileged users list
- SDECLOC UPDPRI – add or remove user

The RPCs used to maintain clinic groups are:

- SDEC RESOURCE – list of resources to select from
- SDEC RESGRPUS – clinic groups list, resource list, resources in clinic group list
- SDEC ADDRIG – add/edit clinic group
- SDEC DELRESGP – delete clinic group
- SDEC ADDRGI – add resource to clinic group
- SDEC DELRGI – remove resource from clinic group



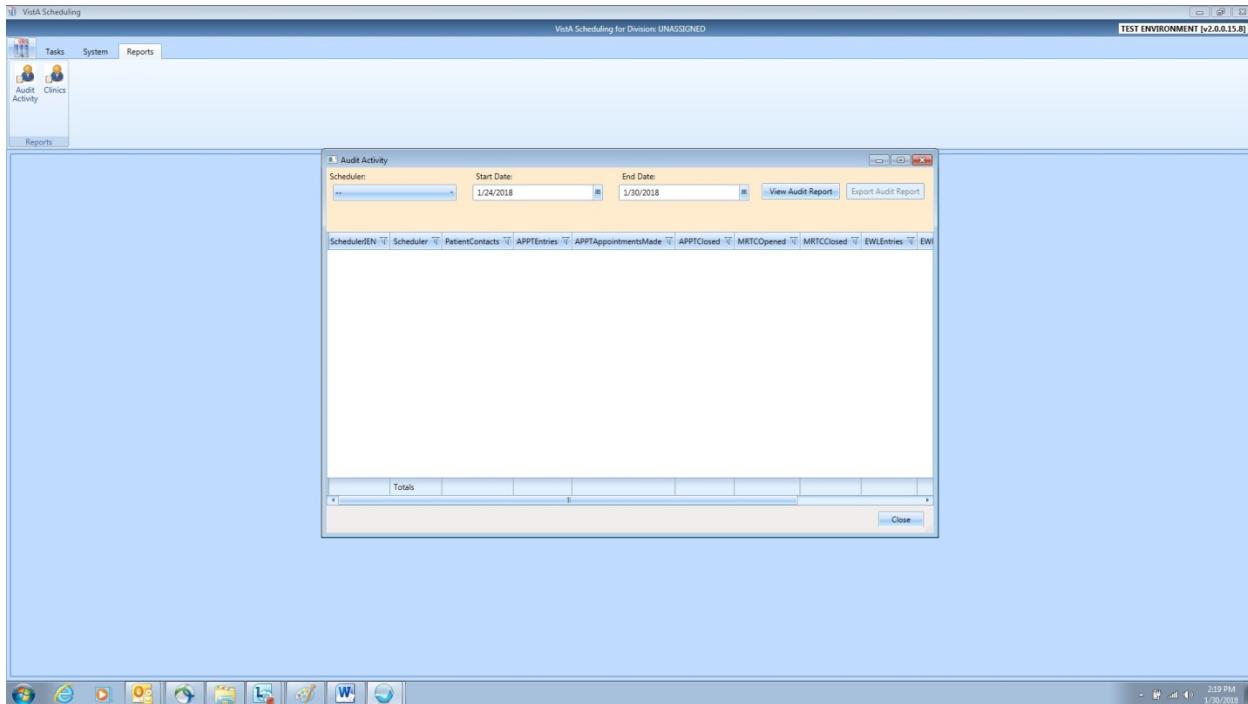
**Figure 27: Scheduling Management - Prohibited Clinics**



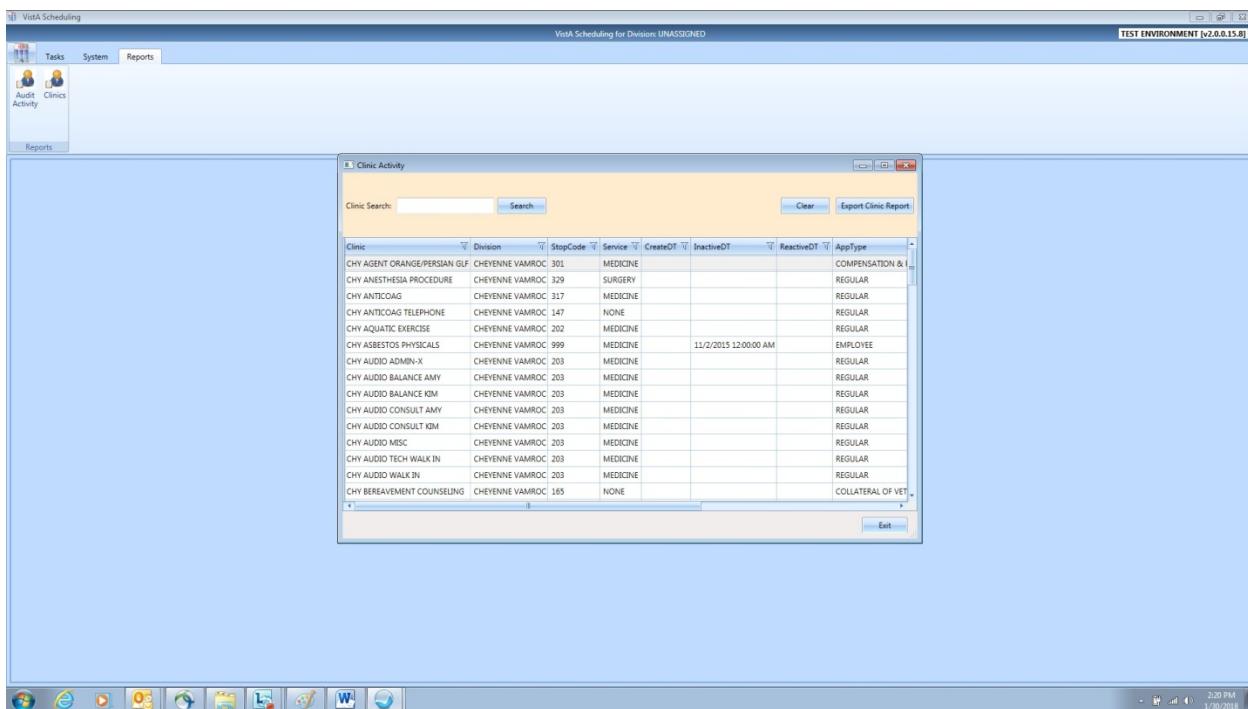
**Figure 28: Scheduling Management - Clinic Groups**

## **U. Reports Tab**

There are two reports available under this tab. The first shows activity by schedulers (see Figure 29 below). It is produced via calls to the SDEC SUMMGET and SDEC SUMMAGET RPCs. The second displayed information about clinics (see Figure 30 below). It is produced via calls to the SDEC REP1GET RPC.



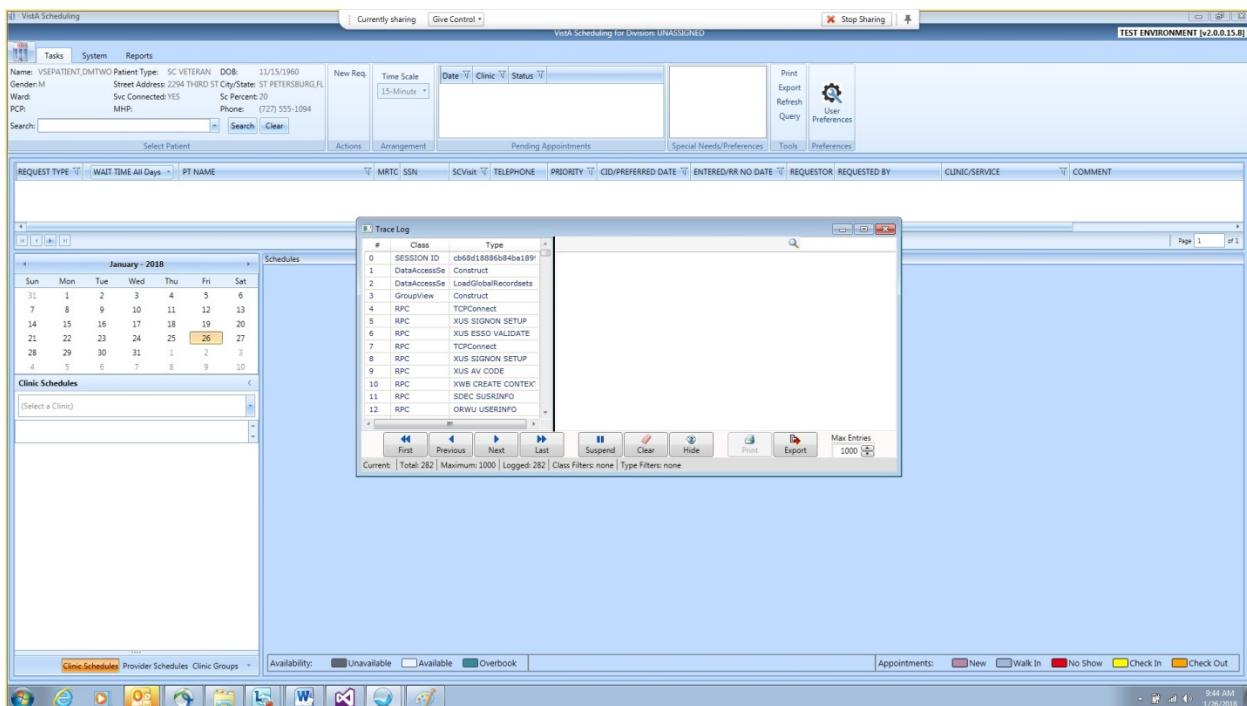
**Figure 29: Reports Tab - Audit Activity**



**Figure 30: Reports Tab – Clinic Reports**

## V. Trace Log

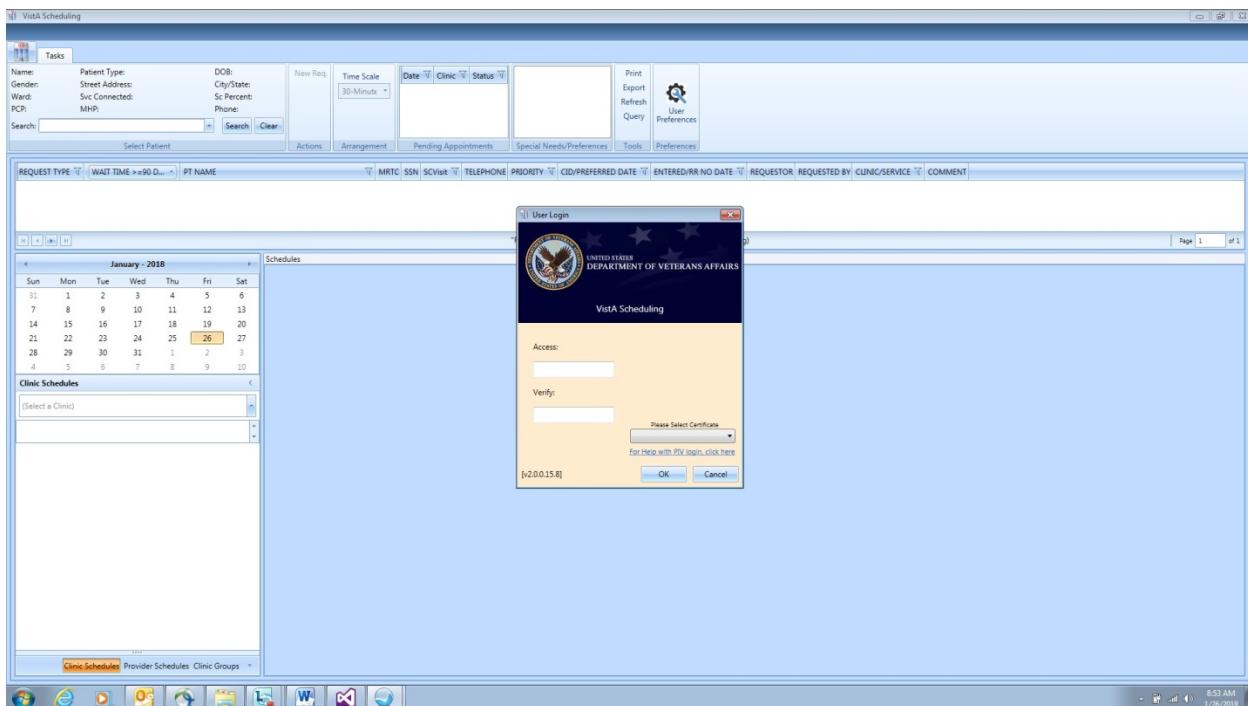
The trace log (see Figure 31 below) stores RPC calls and the data returned, error information and other logged information. See additional information in [VistA Scheduling GUI Trace Log](#).



**Figure 31: Trace Log**

## W. Logon Screen

The logon window appears when the GUI is first opened. User can logon using PIV card and PIN or VistA access/verify code. PIV and PIN are authenticated via a call to the XUS ESSO VALIDATE RPC while access and verify codes are authenticated via a call to the XUS SIGNON SETUP and XUS AV CODE RPCs.



**Figure 32: VSE GUI Logon**

## X. VAR/VAOS Button

Code is UNDER DEVELOPMENT.

## 2.3. List of GUI modules and parts affected

The GUI source code is organized into the following primary groupings in Visual Studio Solution Explorer:

### 2.3.1 Common

The Common section contains infrastructure related code and structures. Global variables associated with the Keys class as well as global methods are defined here. Additional items in the Common section include controls, extension methods, event aggregators and data models/structures. Keys contains references to almost all VistA RPCs called to extract and update data in the database. The Trace Log class is common to the application and stores all RPC calls, request data and responses. PIV authentication uses the code stored under SSOi. The Factories sub-section is little used by the VSE GUI.

A new RPC used by the application would need to be defined in the RpcCalls sub-class of the Keys static class. A new method would need to be added to the Modules.DataAccess\Services\DataAccessService.cs as well as in the IDataAccessService interface in the Interfaces sub-section. CLaunchWindow is a static class with a Launch method that can be called to display a UserControl as a popup or dialog window.

The ExtensionMethods sub-section is where a new method would be added if the method is to be used by more than one module and if it extends a specific class.

## 2.3.2 Modules

The Modules section has the following sub-sections:

### 2.3.2.1 CancelAppt

Code in this section processes an appointment cancellation (see **Cancel Appointment Dialog**).

### 2.3.2.2 ChangeDivision

Code in this section is not enabled in the GUI. It was originally accessible from a currently hidden menu item in the System Menu. Its purpose was to allow users to switch facilities but it never worked.

### 2.3.2.3 CheckIn

Code in this section processes an appointment check-in (see **K. Check-in Dialog**).

### 2.3.2.4 CheckOut

Code in this section processes an appointment check-out (see **L. Check-out Dialog**).

### 2.3.2.5 ContactAttempt

Code in this section is used to record attempts to contact patients by phone or letter (see **Patient Contacts**). It applies to the patient recall (PtCSch) request type.

### 2.3.2.6 DataAccess

Code in this section connects to VistA and either gets or sets data via RPC calls.

### 2.3.2.7 ExpandedEntry

Code in this section displays an appointment expanded entry (see **Expanded Entry Dialog**).

### 2.3.2.8 FindAppt

MRTC processes

### 2.3.2.9 Management

Code in this section supports the functions associated with **System Tab**.

### 2.3.2.10 MarkAsNoShow

Code in this section processes an appointment as a no show (see **No-Show Dialog**).

### **2.3.2.11 Navigation**

Code in this section handles processing for **Calendar Navigation Pane** and **Clinic/Provider Navigation Pane**.

### **2.3.2.12 PatientAppt**

Code in this section processes **Appointment Dialog** for new APPT and walk-in appointments as well as **Disabilities Dialog / Patient's Eligibility**.

### **2.3.2.13 PatientSelection**

Code in this section supports **Patient Information Dialog**.

### **2.3.2.14 Prerequisites**

VA developer code. Launched when select appointment request and, if appropriate, pops up prerequisites window.

### **2.3.2.15 Reports**

Code in this section supports the functions associated with **Reports Tab**. It also prints patient letters.

### **2.3.2.16 ResourceSelection**

The code in this section is not used.

### **2.3.2.17 Ribbon**

Code in this section supports the functions associated with:

- 1) **Ribbon Bar Patient Information,**
- 2) **Ribbon Bar Actions Menu,**
- 3) **Ribbon Bar Arrangements Menu,**
- 4) **Pending Appointments,**
- 5) **Patient Special Needs/Preferences Window,**
- 6) **Ribbon Bar Tools Menu,**
- 7) **User Preferences** and
- 8) **Appointment Request Dialog.**

### **2.3.2.18 Task**

Code in this section supports **Calendar Schedule**.

### **2.3.2.19 UserLogin**

Code in this section processes the **Logon Screen**.

### **2.3.2.20 VAR**

Code in this section implements the **VAR/VAOS Button** and the interface to the VAR system.

### **2.3.3 Unit Tests**

The code in this section is obsolete.

### **2.3.4 ClinSchd**

This section hosts the main application. It will only be modified if a new module is added. The config file (see **2.7 Configuring the GUI**) is also located here.

### **2.3.5 CreateWebServices**

The code in this section is obsolete.

### **2.3.6 InstallerCustomActions**

The code in this section is used by the installer.

### **2.3.7 ClinSchedInstaller**

The code in this section supports creation of a build package.

### **2.3.8 VARMobileAppMockup**

The code in this section is a testing app to simulate a Veteran entering mobile request.

### **2.3.9 Web Services**

#### **2.3.9.1 VSE\_VAR\_Client**

The code in this section is an app to test web service connectivity.

#### **2.3.9.2 VSE\_VAR\_DataAccessService**

The code in this section provides the WCF VSE\_VAR\_Service Web services to access the VAOS\VAR Oracle database.

#### **2.3.9.3 VSE\_VAR\_Service**

The code in this section encompasses the WCF VSE\_VAR\_Service.

#### **2.3.9.4 VSE\_VAR\_Service\_Interfaces**

Web service interface/contracts (data description of data to be transmitted between server and client). The dll created in this project MUST be included in any client that will communicate with the VSE\_VAR\_Service Web Service.

#### **2.3.9.5 VSE\_VAR\_ServiceConsoleHost**

used in testing to run WCF service in a console

### **2.3.9.6 VSE\_VAR\_TestClient**

test app to simulate VSE activities for VAR

## **2.4. Structure of Code Modules**

A module project contains a VSE dll assembly and should contain a specific set of functionalities. Apart from some core modules, properly executed modules should be able to be removed from the VSE application and the VSE application able to run without them.

A module contains code to register classes with the Unity dependency injection (DI) engine, event subscriptions for the Event Aggregator and the code to execute the specific functionalities.

### **2.4.1 Module Project**

A module contains a module class, one or more controllers, one or more services as well as views, view models and possibly models to implement the module functionality. A typical module project might look like:

```
ClinSchd.Modules. <%Module Name%>
Properties
References
<%Module Name%>
  I<%Module Name%>PresentationModel.cs
  I<%Module Name%>View.cs
  <%Module Name%>View.xaml
  <%Module Name%>View.xaml.cs
  <%Module Name%>PresentationModel.cs
Controllers
  I<%Module Name%>Controller.cs
  <%Module Name%>Controller.cs
Services
  I<%Module Name%>Service.cs
  <%Module Name%>Service.cs
<%Module Name%>Module.cs
```

### **2.4.2 Module Class**

The module class must implement `IModule` and contains code to register module classes and interfaces with the unity dependency injection engine. The class also instantiates all controllers and performs any other initialization functions required for the module to execute. The module class is typically named `<%Module Name%>Module.cs` and is in the root folder of the module project. The class should also implement a constructor that includes parameters for `IUnityContainer` and `IEventAggregator`. A typical module class looks like:

```
using Microsoft.Practices.Composite.Modularity;
using Microsoft.Practices.Unity;
using Microsoft.Practices.Composite.Events;
using Microsoft.Practices.Composite.Presentation.Events;
```

```

using ClinSchd.Infrastructure;
using ClinSchd.Infrastructure.Models;
using ClinSchd.Infrastructure.Interfaces;
using ClinSchd.Modules.<%Module Name%>;
using ClinSchd.Modules.<%Module Name%>.Controllers;

namespace ClinSchd.Modules.<%Module Name%>
{
    public class <%Module Name%> : IModule
    {
        private readonly IUnityContainer _container;
        private readonly IEventAggregator _eventAggregator;
        private I<%Module Name%>Controller _controller;

        public <%Module Name%>Module (IUnityContainer container, IEventAggregator
eventAggregator)
        {
            _container = container;
            _eventAggregator = eventAggregator;
        }

        public void Initialize()
        {
            RegisterViewsAndServices();
            /* Create any controllers */
            _controller = _container.Resolve<I<%Module Name%>Controller> ();
            /* Start all created controllers */
            _controller.Run ();
        }

        protected void RegisterViewsAndServices()
        {
            _container.RegisterType<I<%Module Name%>Controller, <%Module
Name%>Controller> ();
            _container.RegisterType<I<%Module Name%>Service, <%Module Name%>Service>
();
            /* Register other types as required */
        }
    }
}

```

### 2.4.3 Controller Class

Normally the controller class contains the EventAggregator subscriptions for the module and “controls” access to the module functionalities. One can also expose module functionalities by registering module classes in the Unity dependency injection engine, in the module class,

allowing the modules classes to be instantiated from anywhere in the application that can access the module interfaces.

A typical controller looks like:

```
using System;
using System.Collections.Generic;
using ClinSchd.Infrastructure.Interfaces;
using Microsoft.Practices.Composite.Events;
using ClinSchd.Infrastructure;
using ClinSchd.Infrastructure.Models;
using ClinSchd.Modules. <%Module Name%>.Services;
using Microsoft.Practices.Composite.Presentation.Events;
using Microsoft.Practices.Unity;

namespace ClinSchd.Modules. <%Module Name%>.Controllers
{
    public class <%Module Name%>Controller : I<%Module Name%>Controller
    {
        private readonly IUnityContainer _container;
        private readonly I<%Module Name%>Service _service;
        private readonly IEventAggregator _eventAggregator;
        private readonly IDataAccessService _dataAccessService;

        public <%Module Name%>Controller (
            IUnityContainer container,
            I<%Module Name%>Service <%Module Name%>Service,
            IEventAggregator eventAggregator,
            IDataAccessService dataAccessService)
        {
            _container = container;
            _service = <%Module Name%>Service;
            _eventAggregator = eventAggregator;
            _dataAccessService = dataAccessService;
        }

        public void Run()
        {
            _eventAggregator.GetEvent<<%Module Name%>Event> ().Subscribe
(<%Module Name%>EventHandler, ThreadOption.UIThread, true);
        }

        public void <%Module Name%>EventHandler (<%Module
Name%>EventPayload payload)
        {
            _service.DoEventHandler(payload);
        }
    }
}
```

```

    }
}
}
```

#### 2.4.4 Service Class

The service class typically implements the module functionality code. This can be anything from running a process to displaying windows or creating a user control to be docked elsewhere in the application. A typical service class might look like:

```

using System;
using ClinSchd.Modules.<%Module Name%>.<%Module Name%>;

namespace ClinSchd.Modules.<%Module Name%>.Services
{
    public class <%Module Name%>Service : I<%Module Name%>Service
    {
        public <%Module Name%>Service ()
        {

        }

        #region I<%Module Name%> Members

        public void DoEventHandler (<%Module Name%>EventPayload payload)
        {
            /* Do the functionality work here */
        }

        #endregion I<%Module Name%> Members
    }
}
```

### 2.5. Organization of Rational Streams

There are seven Rational streams associated with the project. Five are code streams, one is for delivering install packages, and one is for documentation.

**Table 1: Rational Streams**

Stream	Description
ConDEV	Used for current development.
ConTEST	Once current development has passed unit testing and is ready for Component Integration Testing (CIT), the development is promoted to this stream. Builds for CIT are made from this stream.

Stream	Description
ConSQA	Once a build is ready to move to Software Quality Assurance (SQA) testing, then the changes are promoted to this stream. Builds for SQA are made from this stream. If SQA testing returns defects, they should be fixed and tested in this stream and then merged into current development, which might already be working on the next version.
ConIOC	Once a build has cleared SQA and is ready for Initial Operating Capacity (IOC) testing, the code is promoted to this stream. Builds for IOC are made from this stream. If IOC testing returns defects, they should be fixed and tested in this stream and then merged into current development (and possibly also SQA), which might be on different versions.
ConPROD	Once a build has cleared IOC testing and is installed at field sites, the code is promoted to this stream. This stream serves as a reference copy of production to research reported defects, since the dev streams will be on later versions. The only active development that should take place in this stream is for emergency fixes that are disconnected from the current versions in SQA or IOC.
Scheduling – Project Documents	This stream holds the documentation for the project, including deliverables and reference documents.
VSE Installers	This stream holds the install packages for each build of the software, serving as a point for distribution as well as a repository to allow installing previous versions for research.

## 2.6. Troubleshooting using the Trace Log

The Trace Log is a tool to help troubleshoot problems within the VSE GUI application. For the Trace Log to be available the VSE GUI must be executed with the /trace command line parameter. The Trace Log can be accessed by right-clicking the application title bar and selecting Trace Log from the menu.

The Trace log contains a log of ALL RPC calls made by the VSE GUI, to include the RPC Name, Inputs (Parameters) and returns. Returns can be various results including error information reported by the called RPC. The Trace Log, in many cases, also includes error information reported from the GUI application. Sometimes a user friendly error message is displayed and the Trace Log must be accessed to view the error details. Other logged details are also visible. Exceptions\Errors caught within the VSE GUI and logged using the TraceLog.LogError method will include the full error stack when present.

The Trace Log can be exported to an XML file for analysis. When the /AutoDumpTrace command line parameter is added the VSE GUI will attempt to save the current Trace Log to the C:\Program Data\Vista Scheduling GUI\TraceLog.xml file. Each successive save overwrites previous saves.

A developer can write to the Trace Log by including the ClinSchd.Infrastructure names space, then calling one of the TraceLog.Log . . . methods.

Returned RPC data in the Trace Log may be a single string, an array of strings, a list of strings (possibly including an array item) or a record set.

Arrays returned are generally formatted as:

```
Array[n]
#0: value
#1: value
...
#n: value
```

Record sets generally appear as:

```
T00020HEADER_1^T00020HEADER_2^...^T00030HEADER_N
Record1_Value1^Record1_Value2^...^Record1_ValueN
Record2_Value1^Record2_Value2^...^Record2_ValueN
...
RecordN_Value1^RecordN_Value2^...^RecordN_ValueN
```

Record sets can be copied and saved to a text file and imported into Excel as a ^ delimited file for easier review.)

## 2.7. Configuring the GUI

The VistaSchedulingGUI.exe.config file (the config file) is found in the application folder location. By default this is C:\ Program Files (x86)\VistA Scheduling GUI\_x, where \_x is not present in the Visual Studio development environment, but may be \_P (Production Release), \_T (Test Release), \_RC (Release Candidate) when VSE is installed using one of the msi files.

Generally the config file is initialized during the installation process or by modifying the app.config file within the ClinSchd project in Visual Studio.

The config file can also be modified using a text editor such as Notepad, Notepad++, etc.

Within the config file there are 2 sections that may need to be configured. It is HIGHLY recommended NOT to modify the other sections of the file.

## **2.7.1 The <appSettings> Section**

The <appSettings> section contain several <add key . . . options that can be modified.

<add key="host" value="" />: This key value holds the address or URL of the host VistA instance.

<add key="port" .value="" />: This key value holds the port number assigned to the VistA instance on the host machine.

<add key="nspc" value="" />: This key value holds the Name Space assigned the VistA instance on the host machine.

<add key="MaxPatientsToReturn" value="50" />: This key value adjusts the maximum number of patients returned by the Patient Search on the ribbon bar. The default\recommended value is 50.

<add key="var\_service\_url" value="" />: This key value is used to determine if the VSE\VAOS (VAR) interface is available to those users holding the SDEZ REQUEST key. The value SHOULD match the <endpoint address="" /> value indicated in the <system.ServiceModel><client> section as discussed below, however, VSE is only looking for a value containing the "VSE\_VAR\_Service" string. If the value is empty or does not contain that string VSE will not activate the VSE\VAOS (VAR) functionality.

At this time any other <appSettings> key value pairs are ignored.

## **2.7.2 The <system.ServiceModel><client><endpoint> Section**

The VSE\VAOS (VAR) Interface talks to a WCF Web service. The <system.ServiceModel> section describes connection properties used by VSE for this purpose. Within the <client> subsection is found the <endpoint> subsection.

Modify the <endpoint address="" /> value to change the location URL of the VSE\_VAR\_Service web service. If this value is not EXACTLY correct VSE will be unable to communicate with the VSE\_VAR\_Service Web Service and communication errors will be reported in the VSE Trace Log.

It is HIGHLY recommended the <endpoint> address and the <appSettings><add key="var\_service\_url" value be set to the same value.

## **2.7.3 Command Line Parameters**

The VSE application allows for two (2) command line parameters. These parameters can be added to the application shortcut as needed.

### **2.7.3.1 The /trace command line parameter**

When the /trace command line parameter is present VSE turns on and initializes the Trace Log functionality. The Trace Log can be accessed via the application system menu by right clicking the application title bar.

### **2.7.3.2 /AutoDump Trace command line parameter**

When the /AutoDumpTrace command line parameter is present VSE will attempt to save the current Trace Log to a file when the application exits. This includes when the application terminates due to an error. The saved Trace Log file is located in the C:\ProgramData\VA

VistA Scheduler\VSETTraceLog.xml file. Each successive Trace Log dump overwrites previous Trace Log dumps.

The /trace command line parameter is required for the >AutoDumpTrace functionality to work.

#### 2.7.4 The Application Trace File

The application Trace file is a file generated by the VSE application. Successive VSE executions will be recorded in the same Trace file. Some error information may be present in the Trace file when VSE crashes. The Trace file is always located at C:\ProgramData\VA VistA Scheduler\trace.log.

### 2.8. Client Application Dependencies and Files

**Table 2: Clinical Scheduler Distributable Files**

Clinical Scheduler Files	Description
ClinSchd.exe	This is the main executable that launches the application.
ClinSchd.Infrastructure.dll	This library contains the application models, behaviors, events, interfaces, static information, threading capability and other common functionality used by the application and its supporting modules.
CancelAppt.dll	This is required functionality for cancelling appointments and appointment requests.
ChangeDivision.dll	This is required functionality for changing divisions and invoking authentication functionality for division.
CheckIn.dll	This is required functionality to check-in patients for a selected appointment.
CheckOut.dll	This is required functionality to check-out patients for a selected appointment.
DataAccess.dll	This is the primary data access layer designed to interface with VistA RPCs.
FindAppt.dll	This is required functionality for searching and finding appointments based on criteria set.
Management.dll	This is required functionality for managing users, clinics, and clinic groups.
MarkAsNoShow.dll	This is required functionality to update appointment status to “No Show”.
Navigation.dll	This library handles the layout and grouping of services and objects within the GUI display.
PatientAppt.dll	This is required functionality to create new appointments.

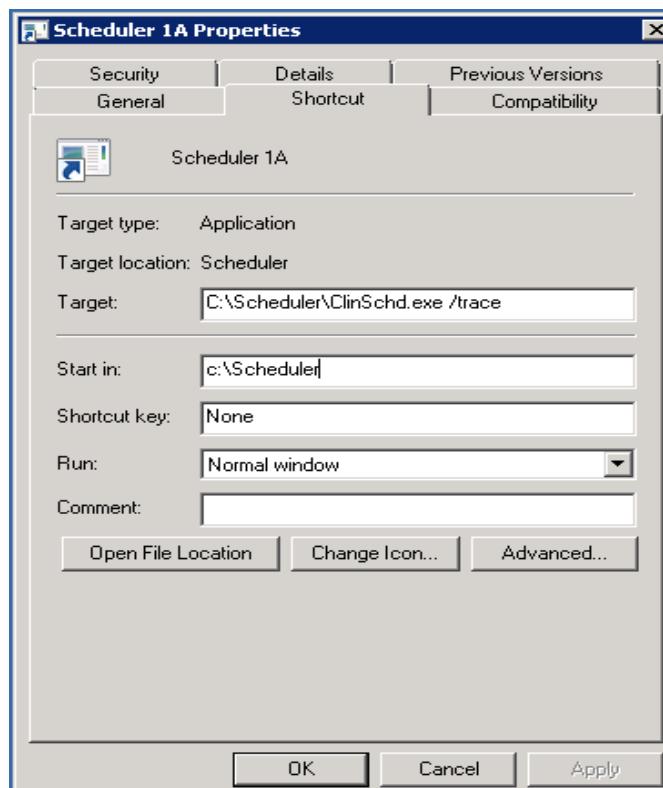
Clinical Scheduler Files	Description
PatientSelection.dll	This is required functionality to select a patient from the VistA patient file.
Reports.dll	This is required functionality to support the GUI reports implemented in E1/E2 and E3.
ResourceSelection.dll	This is required functionality for users to select resources, clinics, and clinic groups.
Ribbon.dll	This library contains the tabs and controls that display in the application and allow the user to view high-level dashboard functionality, as well as the tabs required to switch between scheduling functions, user and system management, and reports.
Task.dll	This library contains functionality for users to manage schedules and appointments associated with clinic, provider, and clinic group schedules (i.e., creating, modifying, and cancelling appointments).
Microsoft Practices Libraries: Microsoft.Practices.Composite.dll Microsoft.Practices.Composite.Presentation.dll Microsoft.Practices.Composite.UnityExtensions.dll Microsoft.Practices.EnterpriseLibrary.Common.dll Microsoft.Practices.EnterpriseLibrary.ExceptionHandling.dll Microsoft.Practices.EnterpriseLibrary.Logging.dll Microsoft.Practices.ObjectBuilder2.dll Microsoft.Practices.ServiceLocation.dll Microsoft.Practices.Unity.dll	The Microsoft Enterprise Library is a collection of reusable software components (application blocks) designed to assist software developers with common enterprise development, cross-cutting concerns (such as logging, validation, data access, exception handling, and many others). Application blocks are a type of guidance; they are provided as source code, test cases, and documentation that can be used "as is," extended, or modified by developers to use on complex, enterprise-level line-of-business development projects.
Third-Party Controls	
Telerik Windows Controls (v 2010.1.603.35) Telerik.Windows.Controls.Charting.dll Telerik.Windows.Controls.dll Telerik.Windows.Controls.Docking.dll Telerik.Windows.Controls.GridView.dll Telerik.Windows.Controls.Input.dll Telerik.Windows.Controls.Navigation.dll Telerik.Windows.Controls.RibbonBar.dll Telerik.Windows.Controls.Scheduler.dll	Telerik Windows controls are used by the GUI for displaying dialog boxes, user input fields (such as text, radio/check buttons, drop down/combination lists), and other user interface (UI) elements. The Telerik controls can be transferred without issue. Telerik controls are Technical Reference Model (TRM)-approved, according to <a href="https://www.va.gov/TRM/SearchPage.asp">https://www.va.gov/TRM/SearchPage.asp</a> .
Client Configuration Files	

Clinical Scheduler Files	Description
ClinSchd.exe.config	<p>This file contains configuration for internal functionality, as well as configuration information for the client to connect to the VistA server. The <b>Application Settings</b> section of this file allows the user to modify the default VistA server connection the user will need to authenticate against during application start-up.</p> <pre>&lt;appSettings&gt; &lt;add key="host" value="ServerName" /&gt; &lt;add key="port" value="Port" /&gt; &lt;add key="nspace" value="Namespace" /&gt; &lt;/appSettings&gt;</pre> <p>*In addition to connecting to a valid VistA server, port, and namespace, users will be required to supply valid access and verify codes, with the proper keys and permissions in order to authenticate.</p>

Clinical Scheduler Files	Description
ClinSchd.Infrastructure.xml	This file contains configuration information for the client infrastructure project. Data contained in this file does not need to be modified for environments. Contains dynamic application information for the ClinSchd.Infrastructure project.
Telerik Configuration Files	Telerik.Windows.Controls.Charting.xml Telerik.Windows.Controls.Docking.xml Telerik.Windows.Controls.GridView.xml Telerik.Windows.Controls.Input.xml Telerik.Windows.Controls.Navigation.xml Telerik.Windows.Controls.RibbonBar.xml Telerik.Windows.Controls.Scheduler.xml Telerik.Windows.Data.xml
Microsoft.Practices Configuration Files	Microsoft.Practices.Composite.Presentation.xml Microsoft.Practices.Composite.UnityExtensions.xml Microsoft.Practices.Composite.xml Microsoft.Practices.ObjectBuilder2.xml Microsoft.Practices.ServiceLocation.xml Microsoft.Practices.Unity.xml

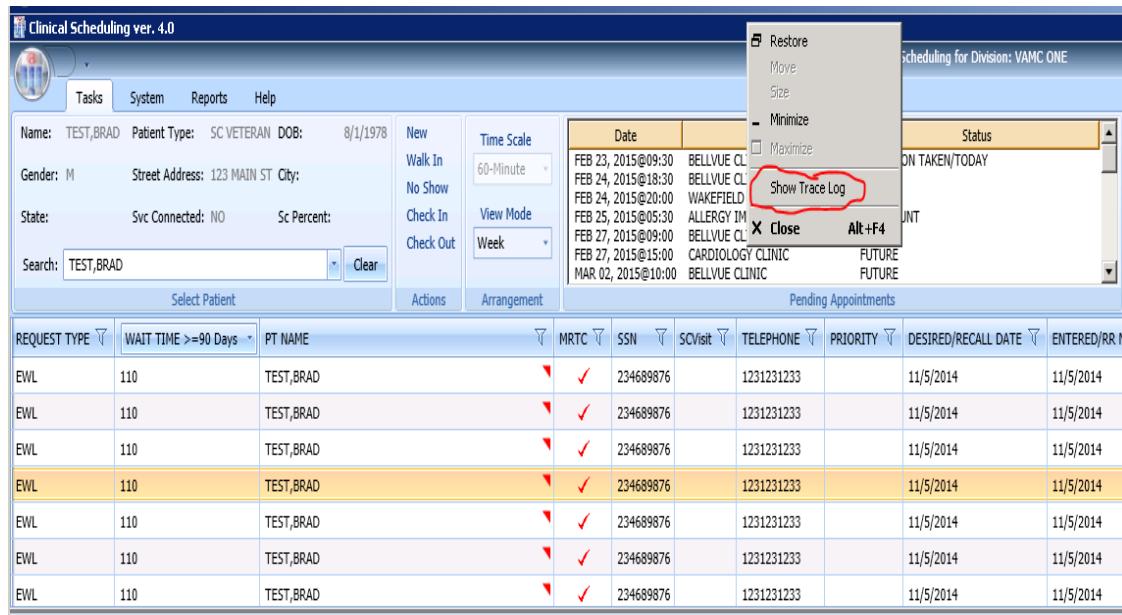
## 2.9. VistA Scheduling GUI Trace Log

The VistA Scheduling GUI Trace Log is a custom GUI designed to inspect and debug server side VistA RPCs. The UI for this application displays the input and results for RPC calls. To launch the GUI with access to the trace log, the executable must be launched with the following command “/trace”.



**Figure 33: Trace Log Capability Shortcut**

To launch the trace log, the user must right click in the title bar of the window and select the **Show Trace Log** option.



**Figure 34: Show Trace Log Menu Option**

**Trace Log**

#	Class	Type
34	RPC	SDEC PROVCLIN
35	RPC	SDEC PROVCLIN
36	RPC	SDEC PROVCLIN
37	RPC	SDEC PROVCLIN
38	RPC	SDEC PROVCLIN
39	RPC	SDEC PROVCLIN
40	RPC	SDEC PROVCLIN
41	RPC	SDEC PROVCLIN
42	RPC	SDEC PROVCLIN
43	RPC	SDEC PROVCLIN
44	RPC	SDEC PROVCLIN
45	RPC	SDEC PROVCLIN
46	DataAccessService	LoadWaitList
47	DataAccessService	LoadAllWaitListRe
48	RPC	SDEC WLGET
49	RPC	SDEC WLGET
50	RPC	SDEC WLGET
51	RPC	SDEC WLGET
52	RPC	SDEC WLGET
53	RPC	SDEC WLGET
54	RPC	SDEC WLGET
55	RPC	SDEC WLGET
56	RPC	SDEC RECGET
57	RPC	SDEC REQGET
58	RPC	SDEC CLINPROV
59	TimeTraderWebSer	GetAvailableTime:
60	TimeTraderWebSer	GetAppointmentB
61	RPC	SDEC GETREGA
62	RPC	SDEC FAPPTGET
63	RPC	SDEC PREFGET
64	RPC	SDEC CLINPROV
65	TimeTraderWebSer	GetClient
66	RPC	SDEC ETHGET
67	RPC	SDEC CGET
68	TimeTraderWebSer	updateInsertClien
69	TimeTraderWebSer	GetAvailableTime:
70	TimeTraderWebSer	GetAppointmentB
71	RPC	SDEC PTLOOKRS
72	RPC	SDEC PTLOOKRS

Logged at 23-Feb-2015 14:40:21.205

RPC: SDEC FAPPTGET

Parameters

```
#1: 34
#2: 2/23/2015
#3: 2/23/2016
#4: 0
```

Results

```
T00020DFN^T00020CLINIC_IEN^T00030CLINIC_NAME^T00020APPT_DATE^T00020STATUS^T00100ANCTXT
34^30^BELLVUE CLINIC^FEB 23, 2015@09:30^NO ACTION TAKEN/TODAY^
34^30^BELLVUE CLINIC^FEB 24, 2015@18:30^FUTURE^
34^7^WAKEFIELD - PTS^FEB 24, 2015@20:00^FUTURE^
34^23^ALLERGY IMMUNIZATION^FEB 25, 2015@05:30^NON-COUNT^
34^30^BELLVUE CLINIC^FEB 27, 2015@09:00^FUTURE^
34^4^CARDIOLOGY CLINIC^FEB 27, 2015@15:00^FUTURE^
34^30^BELLVUE CLINIC^MAR 02, 2015@10:00^FUTURE^
34^23^ALLERGY IMMUNIZATION^MAR 03, 2015@09:00^NON-COUNT^
34^23^ALLERGY IMMUNIZATION^MAR 03, 2015@11:00^NON-COUNT^
34^23^ALLERGY IMMUNIZATION^MAR 03, 2015@15:30^NON-COUNT^
34^24^ALLERGY ZAVALA^MAR 05, 2015@08:30^FUTURE^
34^24^ALLERGY ZAVALA^MAR 09, 2015@08:30^FUTURE^
34^30^BELLVUE CLINIC^MAR 09, 2015@09:30^FUTURE^
34^4^CARDIOLOGY CLINIC^MAR 09, 2015@11:00^FUTURE^
34^14^EYE CLINIC^MAR 10, 2015@07:30^NON-COUNT^
34^24^ALLERGY ZAVALA^MAR 10, 2015@08:00^FUTURE^
34^8^NEUROLOGY CLINIC^MAR 10, 2015@08:45^FUTURE^
34^30^BELLVUE CLINIC^MAR 10, 2015@09:00^FUTURE^
34^30^BELLVUE CLINIC^MAR 10, 2015@15:30^FUTURE^
34^4^CARDIOLOGY CLINIC^MAR 12, 2015@07:00^FUTURE^
34^24^ALLERGY ZAVALA^MAR 13, 2015@15:30^FUTURE^
34^24^ALLERGY ZAVALA^MAR 17, 2015@16:30^FUTURE^
34^30^BELLVUE CLINIC^MAR 19, 2015@09:30^FUTURE^
34^30^BELLVUE CLINIC^MAR 19, 2015@14:30^FUTURE^
34^30^BELLVUE CLINIC^MAR 31, 2015@15:00^FUTURE^
34^27^BEAVER CLINIC^APR 13, 2015@07:00^FUTURE^
34^27^BEAVER CLINIC^APR 18, 2015@14:00^FUTURE^
34^18^PULMONOLOGY CLINIC^MAY 20, 2015@09:30^FUTURE^
```

First Previous Next Last Suspend Clear Hide Print Export Max Entries 1000

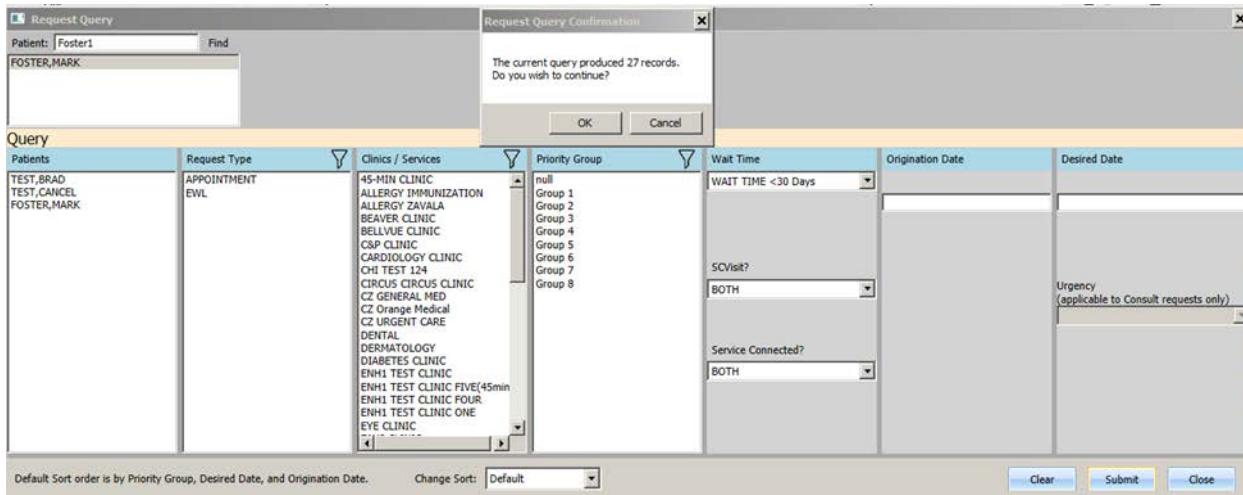
Current: 62 | Total: 73 | Maximum: 1000 | Logged: 73 | Class Filters: none | Type Filters: none

**Figure 35: VistA Scheduling GUI Trace Log**

Additional logging and debug information can be found in the application folder (same folder as the ClinSchd.exe file) in a file named *trace.log*. This file can be opened in any text editor/viewer for inspection.

## 2.10. Request Management

The VSE scheduler creates and manages several different types of appointment requests: appointment (APPT), electronic wait list (EWL) entries, recalls, and consults. These requests are retrieved and stored in different VistA files. Users must submit queries to the VistA server to retrieve individual requests. Users can search by patient name, request type, clinic or service/specialty clinic, priority group, wait time, service, connection, desired date, and origination date. Once the query is submitted to the server, the records are filtered based on the query type. Users can also specify a particular sort for the records based on: patient name, request type, clinic, wait time, priority group, origination date, desired date of appointment, and service connection. The default sort is grouped by priority group, then by desired date, and then by origination date.



**Figure 36: Request Query**

All records meeting the query criteria are filtered and sorted on the server and returned to the GUI. Only 25 records are returned at a time. The Request Management Grid contains paging functionality for the user to retrieve additional records beyond the initial 25.

REQUEST TYPE	WAIT TIME <30 Days	PT NAME	HPIIC SSN	SCVisit?	TELEPHONE	PRIORITY	DESIRED/RECALL DATE	ENTERED/RR NO DATE	REQUESTOR	REQUESTED BY	CLINIC/SERVICE	COMMENT
APPT	2	TEST,BRAD	234689876	✓	1231231233	GROUP 1	5/28/2015	5/28/2015	DOCTOR,TWO	DOCTOR,LONE	ALLERGY ZAVALA	
APPT	15	TEST,BRAD	234689876	✓	1231231233	GROUP 1	6/1/2015	5/31/2015	PATIENT	PATIENT	HIGH MEDICAL CENTER	THIS IS A TEXT COMMENT
APPT	15	TEST,BRAD	234689876	✓	1231231233	GROUP 1	6/2/2015	5/31/2015	PATIENT	PATIENT	EHHS TEST CLINIC ONE	PATIENT CANNOT SEE
APPT	15	TEST,BRAD	234689876	✓	1231231233	GROUP 1	6/3/2015	5/31/2015	PATIENT	PATIENT	EYE CLINIC	THIS IS A COMMENT
APPT	1	TEST,BRAD	234689876	✓	1231231233	GROUP 1	6/18/2015	5/27/2015	PROVIDER	DOCTOR,LONE	CARDIOLOGY CLINIC	
APPT	1	TEST,BRAD	234689876	✓	1231231233	GROUP 1	6/17/2015	5/27/2015	PROVIDER	DOCTOR,LONE	CARDIOLOGY CLINIC	(Appts: 1; Interval: 7)
APPT	1	TEST,BRAD	234689876	✓	1231231233	GROUP 1	6/24/2015	5/27/2015	PROVIDER	DOCTOR,LONE	CARDIOLOGY CLINIC	
APPT	16	TEST,BRAD	234689876	✓	1231231233	GROUP 1	7/14/2015	5/12/2015	PATIENT	PATIENT	MESA CLINIC	(Appts: 2; Interval: 10)
APPT	25	TEST,BRAD	234689876	✓	1231231233	GROUP 1	7/12/2015	5/3/2015	PATIENT	PATIENT	BELLVUE CLINIC	(Appts: 2; Interval: 10)
APPT	17	TEST,BRAD	234689876	✓	1231231233	GROUP 1	7/12/2015	5/1/2015	PATIENT	PATIENT	BEAVER CLINIC	
APPT	21	TEST,BRAD	234689876	✓	1231231233	GROUP 1	8/12/2015	5/7/2015	PATIENT	PATIENT	BEAVER CLINIC	
APPT	27	TEST,BRAD	234689876	✓	1231231233	GROUP 1	9/8/2015	5/1/2015	PATIENT	PATIENT	BELLVUE CLINIC	(Appts: 2; Interval: 10)
EWL	17	FOSTER,MARK	543229755	✓	951-654-2699	GROUP 3	7/7/2015	5/1/2015	PATIENT	PATIENT	EHHS TEST CLINIC	
APPT	2	FOSTER,MARK	543229755				5/28/2015		DREW,NANCY	DREW,NANCY	ALLERGY ZAVALA	

**Figure 37: Query Results**

## 2.11. Internal Relations

There are no documented internal relations in VistA Scheduling GUI.

## 2.12. External Relations

No special integration agreements exist between VistA Scheduling GUI and any other package.

## 2.13. Published Entry Points

No published entry points exist in VistA Scheduling GUI.

### **3. Legacy VistA Scheduling Implementation and Maintenance**

VistA Scheduling GUI provides a Windows interface for the Patient Information Management System (PIMS) Scheduling software and is designed to interoperate with existing PIMS schedules.

#### **3.1. System Requirements**

- Server
  - Cache version 5.0
  - Kernel version 8
  - PIMS version 5.3 patch 1012
  - VistA Scheduling Patch SD\*5.3\*679

#### **3.2. Package-Wide Variables**

There are no package-wide variables associated with the PIMS package.

#### **3.3. Routines**

**Table 3: Routines and Description**

Routine	Description
SDAM2	ALB/MJK - Appt Mgt (cont)
SDAMWI1	ALB/MJK - Walk-Ins (cont.)
SDAPIAP	ALB/MJK - Outpatient API/Appointments
SDB	FLA/RF,BSN/GRR - SET UP A CLINIC
SDB1	ALB/GRR - SET UP A CLINIC
SDC	MAN/GRR,ALB/LDB - CANCEL A CLINIC'S AVAILABILITY
SDCNP0	ALB/LDB - CANCEL APPT. FOR A PATIENT
SDCNSLT	ALB/HAG - LINK APPOINTMENTS TO CONSULTS
SDCODEL	ALB/RMO,ESW - Delete - Check Out
SDEC	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*679
SDEC01	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01A	ALB/SAT - VISTA SCHEDULING RPCs

<b>Routine</b>	<b>Description</b>
SDEC01B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC02	ALB/SAT - VISTA SCHEDULING RPCs
SDEC03	ALB/SAT - VISTA SCHEDULING RPCs
SDEC04	ALB/SAT - VISTA SCHEDULING RPCs
SDEC05	ALB/SAT - VISTA SCHEDULING RPCs
SDEC06	ALB/SAT - VISTA SCHEDULING RPCs
SDEC07	ALB/SAT - VISTA SCHEDULING RPCs
SDEC07A	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*679
SDEC07B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC08	ALB/SAT - VISTA SCHEDULING RPCs
SDEC09	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*679
SDEC12	ALB/SAT - VISTA SCHEDULING RPCs
SDEC13	ALB/SAT - VISTA SCHEDULING RPCs
SDEC14	ALB/SAT - VISTA SCHEDULING RPCs
SDEC15	ALB/SAT - VISTA SCHEDULING RPCs
SDEC16	ALB/SAT - VISTA SCHEDULING RPCs
SDEC17	ALB/SAT - VISTA SCHEDULING RPCs
SDEC18	ALB/SAT - VISTA SCHEDULING RPCs
SDEC19	ALB/SAT - VISTA SCHEDULING RPCs
SDEC20	ALB/SAT - VISTA SCHEDULING RPCs
SDEC21	ALB/SAT - VISTA SCHEDULING RPCs
SDEC22	ALB/SAT - VISTA SCHEDULING RPCs
SDEC23	ALB/SAT - VISTA SCHEDULING RPCs
SDEC24	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25A	ALB/SAT - VISTA SCHEDULING RPCs

<b>Routine</b>	<b>Description</b>
SDEC25B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC26	ALB/SAT - VISTA SCHEDULING RPCs
SDEC27	ALB/SAT - VISTA SCHEDULING RPCs
SDEC28	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*679
SDEC29	ALB/SAT - VISTA SCHEDULING RPCs
SDEC30	ALB/SAT - VISTA SCHEDULING RPCs
SDEC31	ALB/SAT - VISTA SCHEDULING RPCs
SDEC32	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*679
SDEC33	ALB/SAT - VISTA SCHEDULING RPCs
SDEC34	ALB/SAT - VISTA SCHEDULING RPCs
SDEC35	ALB/SAT - VISTA SCHEDULING RPCs
SDEC36	ALB/SAT - VISTA SCHEDULING RPCs
SDEC37	ALB/SAT - VISTA SCHEDULING RPCs
SDEC38	ALB/SAT - VISTA SCHEDULING RPCs
SDEC40	ALB/SAT - VISTA SCHEDULING RPCs
SDEC44	ALB/SAT - VISTA SCHEDULING RPCs
SDEC45	ALB/SAT - VISTA SCHEDULING RPCs
SDEC46	ALB/SAT - VISTA SCHEDULING RPCs
SDEC47	ALB/SAT - VISTA SCHEDULING RPCs
SDEC48	ALB/SAT - VISTA SCHEDULING RPCs
SDEC49	ALB/SAT - VISTA SCHEDULING RPCs
SDEC50	ALB/SAT - VISTA SCHEDULING RPCs
SDEC51	ALB/SAT - VISTA SCHEDULING RPCs
SDEC51A	ALB/SAT – VISTA SCHEDULING RPCs
SDEC52	ALB/SAT - VISTA SCHEDULING RPCs
SDEC52A	ALB/SAT - VISTA SCHEDULING RPCs

<b>Routine</b>	<b>Description</b>
SDEC52B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC53	ALB/SAT - VISTA SCHEDULING RPCs modified for patch SD*5.3*679
SDEC54	ALB/SAT - VISTA SCHEDULING RPCs
SDEC54A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC55	ALB/SAT - VISTA SCHEDULING RPCs
SDEC55A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC56	ALB/SAT - VISTA SCHEDULING RPCs
SDEC57	ALB/SAT - VISTA SCHEDULING RPCs
SDEC57A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC658	ALB/SAT VISTA SCHEDULING PRE/POST
SDEC658A	ALB/SAT/JSM - VISTA SCHEDULING PRE/POST (CONTINUED)
SDEC658B	ALB/SAT/JSM - VISTA SCHEDULING PRE/POST (CONTINUED)
SDECALV	ALB/SAT - VISTA SCHEDULING RPCs
SDECALV1	ALB/SAT - VISTA SCHEDULING RPCs
SDECALVR	ALB/SAT - VISTA SCHEDULING RPCs
SDECAPI	ALB/SAT - VISTA SCHEDULING RPCs
SDECAPI4	ALB/SAT - VISTA SCHEDULING RPCs
SDECIDIQ1	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR1	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR1A	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR2	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR3	ALB/SAT/JSM – VISTA SCHEDULING RPCs
SDECCLN	ALB/RBD - VISTA SCHEDULING CLEANUP UTILITY
SDECDEM	ALB/SAT – VISTA SCHEDULING RPCs

<b>Routine</b>	<b>Description</b>
SDECDEV	ALB/SAT - VISTA SCHEDULING RPCs
SDECDIQ1	ALB/SAT - VISTA SCHEDULING RPCs
SDECDIS	ALB/SAT - VISTA SCHEDULING RPCs
SDECEKL	ALB/SAT - VISTA SCHEDULING RPCs
SDECERR	ALB/SAT - VISTA SCHEDULING RPCs
SDECFS	ALB/SAT - VISTA SCHEDULING RPCs
SDECFS2	ALB/SAT - VISTA SCHEDULING RPCs
SDECFUNC	ALB/SAT - VISTA SCHEDULING RPCs
SDECGMRS	ALB/SAT - VISTA SCHEDULING RPCs
SDECI2	ALB/SAT - VISTA SCHEDULING RELEASE 2 PRE/POST INSTALL
SDECIDX	ALB/SAT - VISTA SCHEDULING RPCs
SDECINI1	ALB/SAT - VISTA SCHEDULING PRE/POST INSTALL
SDECINI2	ALB/SAT - VISTA SCHEDULING PRE/POST INSTALL
SDECINIT	ALB/SAT - VISTA SCHEDULING PRE/POST INSTALL
SDECLK	ALB/SAT - VISTA SCHEDULING RPCs
SDECLOC	ALB/SAT – VISTA SCHEDULING RPCs
SDECNEW	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT1	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT2	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT3	ALB/SAT - VISTA SCHEDULING RPCs
SDECPAT4	ALB/SAT - VISTA SCHEDULING RPCs
SDECPT	ALB/SAT - VISTA SCHEDULING RPCs
SDECPTCX	ALB/SAT - VISTA SCHEDULING RPCs
SDECPTPC	ALB/SAT - VISTA SCHEDULING RPCs

<b>Routine</b>	<b>Description</b>
SDECPTPL	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMG	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMG1	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMG2	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMGP	ALB/JSM - VISTA SCHEDULING RPCs
SDECRPC	ALB/SAT - VISTA SCHEDULING RPCs
SDECRPT	ALB/BNT - SCHEDULING ENHANCEMENTS CLINIC REPORTS
SDECRPT1	ALB/JSM - SCHEDULING ENHANCEMENTS CLINIC REPORTS
SDECRT	ALB/SAT - VISTA SCHEDULING RPCs
SDECRT0	ALB/SAT - VISTA SCHEDULING RPCs
SDECRT1	ALB/SAT - VISTA SCHEDULING RPCs
SDECRT2	ALB/SAT - VISTA SCHEDULING RPCs
SDECSFGR	ALB/SAT - VISTA SCHEDULING RPCs
SDECU	ALB/SAT - VISTA SCHEDULING RPCs
SDECU2	ALB/SAT - VISTA SCHEDULING RPCs
SDECU3	ALB/SAT – VISTA SCHEDULING RPCs
SDECU4	ALB/JSM - VISTA SCHEDULING RPCs
SDECUT1A	ALB/SAT - VISTA SCHEDULING RPCs
SDECUTL	ALB/SAT - VISTA SCHEDULING RPCs
SDECUTL1	ALB/SAT - VISTA SCHEDULING RPCs
SDECUTL2	ALB/SAT - VISTA SCHEDULING RPCs
SDECV	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL1	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL2	ALB/SAT - VISTA SCHEDULING RPCs
SDECWL3	ALB/SAT - VISTA SCHEDULING RPCs
SDM1A	SF/GFT,ALB/TMP - MAKE APPOINTMENT

<b>Routine</b>	<b>Description</b>
SDMM1	ALB/GRR - MULTIPLE BOOKINGS
SDN	SF/GFT,ALB/LDB - RECORD NO SHOWS
SDNACT	ALB/TMP - INACTIVATE A CLINIC
SDREACT	ALB/TMP - REACTIVATE A CLINIC
SDRRISRU	10N20/MAH; Recall Reminder Utilities
SD628PST	SD*5.3*628 Post Install Routine
SDCED	VSE ENCOUNTER XREF
SDCED1	VSE ENCOUNTER XREF
SDCED2	VSE ENCOUNTER XREF
SDECRPT	VSE CLINIC APPOINTMENTS
SDECSTP	VSE RESOURCE MANAGEMENT REPORT STOP CODES
SDWLPL	IOFO BAY PINES/DMR,ESW - WAIT LIST PICK LIST
SDECXML	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML1	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML2	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML3	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML4	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXML5	VSE RESOURCE MANAGEMENT REPORT XML DATA
SDECXUTL	VSE RESOURCE MANAGEMENT REPORT XML UTILITY
SDECCON	SPFO/DMR SCHEDULING ENHANCEMENTS VSE CONTACT API
SDECEP	SPFO/DMR SCHEDULING ENHANCEMENTS VSE EP API

Routine	Description
SDECEPT	SPFO/RT SCHEDULING ENHANCEMENTS VSE EP API
SDECELG	SPFO/DMR SCHEDULING ENHANCEMENTS VSE API
SDEC07	ALB/SAT - VISTA SCHEDULING RPCS
SDEC07B	ALB/SAT - VISTA SCHEDULING RPCS
SD53699	SPFO/DMR SCHEDULING ENHANCEMENTS VSE

## 3.4. Files and Tables

Table 4: File Numbers and Names

File Number	File Name
44	HOSPITAL LOCATION
403.5	RECALL REMINDERS
403.56	RECALL REMINDERS REMOVED
409.3	SD WAIT LIST
409.822	SDEC ACCESS GROUP
409.824	SDEC ACCESS GROUP TYPE
409.823	SDEC ACCESS TYPE
409.834	SDEC ADDITIONAL RESOURCE
409.81	SDEC APPLICATION
409.84	SDEC APPOINTMENT
409.845	SDEC PREFERENCES AND SPECIAL NEEDS
409.85	SDEC APPT REQUEST
409.831	SDEC RESOURCE
409.832	SDEC RESOURCE GROUP
409.833	SDEC RESOURCE USER
409.86	SDEC CONTACT

### 3.4.1. File Access

Table 5: File Access

<b>File Number</b>	<b>GLOBAL</b>	<b>READ</b>	<b>WRITE</b>	<b>LAYGO</b>	<b>DATA DICTIONARY</b>	<b>DELETE</b>
44	^SC(	d	D	D	@	@
403.5	^SD(403.5,			@	@	@
403.56	^SD(403.56,			@	@	@
409.3	^SDWL(409.3,		D	D	@	@
409.822	^SDEC(409.822 ,					
409.824	^SDEC(409.824 ,					
409.823	^SDEC(409.823 ,					
409.834	^SDEC(409.834 ,					
409.81	^SDEC(409.81,					
409.84	^SDEC(409.84,					
409.85	^SDEC(409.85,					
409.845	^SDEC(409.845 ,					
409.831	^SDEC(409.831 ,					
409.832	^SDEC(409.832 ,					
409.833	^SDEC(409.833 ,					
409.86	^SDEC(409.86,					

## 3.5. VistA Scheduling GUI Cross References

### 3.5.1. #44 – Hospital Location

TRADITIONAL CROSS-REFERENCE LIST -- FILE #44

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File #44

Subfile #44.1

Traditional Cross-References:

ADPR MUMPS WHOLE FILE (#44)

Field: DEFAULT PROVIDER (44.1,.02)

- 1)= S:X ^SC("ADPR",DA(1),DA)=""
- 2)= K ^SC("ADPR",DA(1),DA)

AVADPR MUMPS WHOLE FILE (#44)

Field: PROVIDER (44.1,.01)

Description: FINDS A PROVIDER'S CLINICS Cross-reference to easily find

all clinics for a particular provider and if that provider  
is listed as default.

- 1)= S ^SC("AVADPR",X,DA(1),DA)=\$P(^SC(DA(1),"PR",DA,0),U,2)
- 2)= K ^SC("AVADPR",X,DA(1),DA)

## B REGULAR

Field: PROVIDER (44.1,.01)

- 1)= S ^SC(DA(1),"PR","B",\$E(X,1,30),DA)=""
- 2)= K ^SC(DA(1),"PR","B",\$E(X,1,30),DA)

INDEX AND CROSS-REFERENCE LIST -- FILE #44, FIELD #2 02/08/18 PAGE 1

---

New-Style Indexes:

AG (#1345) RECORD REGULAR IR SORTING ONLY

Short Descr: Index by TYPE and NAME.

Description: This cross reference is used to sort by TYPE and NAME.

Set Logic: S ^SC("AG",X(1),X(2),DA)=""

Kill Logic: K ^SC("AG",X(1),X(2),DA)

Whole Kill: K ^SC("AG")

X(1): TYPE (44,2) (Subscr 1) (forwards)

X(2): NAME (44,.01) (Subscr 2) (forwards)

### **3.5.2. #403.5 – Recall Reminders**

INDEX AND CROSS-REFERENCE LIST -- FILE #403.5, FIELD #7.5 02/08/18 PAGE 1

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New-Style Indexes:

AC (#1346) RECORD REGULAR IR SORTING ONLY  
Short Descr: Index by DATE/TIME RECALL ADDED and USER WHO ENTERED RECALL  
Description: This cross reference is used to sort by DATE/TIME RECALL  
ADDED and USER WHO ENTERED RECALL.  
Set Logic: S ^SD(403.5,"AC",X(1),X(2),DA)=""  
Kill Logic: K ^SD(403.5,"AC",X(1),X(2),DA)  
Whole Kill: K ^SD(403.5,"AC")  
X(1): DATE/TIME RECALL ADDED (403.5,7.5) (Subscr 1) (forwards)  
X(2): USER WHO ENTERED RECALL (403.5,7) (Subscr 2) (forwards)

### **3.5.3. #403.56 – Recall Reminders Removed**

INDEX AND CROSS-REFERENCE LIST -- FILE #403.56, FIELD #7.5 02/08/18 PAGE 1

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New-Style Indexes:

AC (#1347) RECORD REGULAR IR SORTING ONLY  
Short Descr: Index by DATE/TIME RECALL ADDED and USER WHO ENTERED RECALL  
Description: This cross reference is used to sort by DATE/TIME RECALL  
ADDED and USER WHO ENTERED RECALL.  
Set Logic: S ^SD(403.56,"AC",X(1),X(2),DA)=""  
Kill Logic: K ^SD(403.56,"AC",X(1),X(2),DA)  
Whole Kill: K ^SD(403.56,"AC")  
X(1): DATE/TIME RECALL ADDED (403.56,7.5) (Subscr 1)  
(forwards)  
X(2): USER WHO ENTERED RECALL (403.56,7) (Subscr 2) (forwards)

### **3.5.4. #409.3 – SD Wait List**

INDEX AND CROSS-REFERENCE LIST -- FILE #409.3, FIELD #8.5 02/08/18 PAGE 1

---

Traditional Cross-References:

**AE REGULAR**

Field: WL SPECIFIC HOSPITAL LOCATION (409.3,8.5)

Description: This xref is used to find entries associated with a particular HOSPITAL LOCATION.

1)= S ^SDWL(409.3,"AE",\$E(X,1,30),DA)=""

2)= K ^SDWL(409.3,"AE",\$E(X,1,30),DA)

INDEX AND CROSS-REFERENCE LIST -- FILE #409.3, FIELD #23 02/08/18 PAGE 1

---

**E MUMPS**

Field: CURRENT STATUS (409.3,23)

Description: This xref is used to speed up the lookup of open or closed wait list entries for a given time range.

1)= S:\$P(^SDWL(409.3,DA,0),U,2)="" ^SDWL(409.3,"E",X,\$P(^SDWL(409.3,DA,0),U,2),DA)=""

2)= K:\$P(^SDWL(409.3,DA,0),U,2)="" ^SDWL(409.3,"E",X,\$P(^SDWL(409.3,DA,0),U,2),DA)

INDEX AND CROSS-REFERENCE LIST -- FILE #409.3, FIELD #1 02/08/18 PAGE 1

---

**ETO0 MUMPS**

Field: ORIGINATING DATE (409.3,1)

Description: This xref actually updates the "E" xref for CURRENT STATUS in the event that the ORIGINATING DATE is changed. This xref is used to speed up the lookup of open or closed wait list entries for a given time range.

1)= S:\$P(^SDWL(409.3,DA,0),U,17)="" ^SDWL(409.3,"E",\$P(^SDWL(409.3,DA,0),U,17),X,DA)=""

2)= K:\$P(^SDWL(409.3,DA,0),U,17)="" ^SDWL(409.3,"E",\$P(^SDWL(409.3,DA,0),U,17),X,DA)

INDEX AND CROSS-REFERENCE LIST -- FILE #409.3, FIELD #.01 02/08/18 PAGE 1

---

New-Style Indexes:

AD (#1349) RECORD REGULAR IR SORTING ONLY

Short Descr: Index by PATIENT and WL SPECIFIC HOSPITAL LOCATION

Description: This cross reference is used to sort by PATIENT and WL SPECIFIC HOSPITAL LOCATION.

Set Logic: S ^SDWL(409.3,"AD",X(1),X(2),DA)=""

Kill Logic: K ^SDWL(409.3,"AD",X(1),X(2),DA)

Whole Kill: K ^SDWL(409.3,"AD")

X(1): PATIENT (409.3,.01) (Subscr 1) (forwards)

X(2): WL SPECIFIC HOSPITAL LOCATION (409.3,8.5) (Subscr 2)

(forwards)

Subfile #409.345

Traditional Cross-References:

B REGULAR

Field: DATE EDITED (409.345,.01)  
1)= S ^SDWL(409.3,DA(1),6,"B",\$E(X,1,30),DA)=""  
2)= K ^SDWL(409.3,DA(1),6,"B",\$E(X,1,30),DA)

New-Style Indexes:

GS (#1387) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC STOP (SERVICES) ID AND ORIGINATING DATE

Description: This xref is used to sort/filter Wait List entries by the CLINIC STOP id and the ORIGINATING DATE field (#1). The CLINIC STOP id comes from the SD WL SERVICE/SPECIALTY file (#409.31). The WL SERVICE/SPECIALTY field (#7) in the SD WAIT LIST file (#409.3) contains the pointer to the SD WL SERVICE/SPECIALTY file.

Set Logic: S ^SDWL(409.3,"GS",X(1),X(2),DA)=""

Kill Logic: K ^SDWL(409.3,"GS",X(1),X(2),DA)

Whole Kill: K ^SDWL(409.3,"GS")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.31,+\$P(\$G(^SDWL(409.3,DA ,0)),U,8),0)),U,1)

(Subscr 1) (forwards)

X(2): ORIGINATING DATE (409.3,1) (Subscr 2) (forwards)

GSP (#1389) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC STOP (SERVICES) ID, ENROLLMENT PRIORITY, AND ORIGINATING DATE

Description: This xref is used to sort Wait List entries by the CLINIC STOP id, Patient's ENROLLMENT PRIORITY, and the ORIGINATING DATE field (#1). The CLINIC STOP id comes from the SD WL SERVICE/SPECIALTY file (#409.31). The WL SERVICE/SPECIALTY field (#7) in the SD WAIT LIST file (#409.3) contains the pointer to the SD WL SERVICE/SPECIALTY file.

Set Logic: S ^SDWL(409.3,"GSP",X(1),X(2),X(3),DA)=""

Kill Logic: K ^SDWL(409.3,"GSP",X(1),X(2),X(3),DA)

Whole Kill: K ^SDWL(409.3,"GSP")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.31,+\$P(\$G(^SDWL(409.3,DA ,0)),U,8),0)),U,1)

(Subscr 1) (forwards)

X(2): Computed Code: N DFN,PCE S DFN=\$P(\$G(^SDWL(409.3,DA,0)),U,1 ),PCE=\$P(\$G(^DPT(+DFN,"ENR")),U,1),X=+\$P(\$G(^DGEN(27.11,+PC E,0)),U,7)

(Subscr 2) (forwards)

X(3): ORIGINATING DATE (409.3,1) (Subscr 3) (forwards)

GSA (#1390) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC STOP (SERVICES) ID, SVC CONNECTED, AND ORIGINATING DATE

Description: This xref is used to sort Wait List entries by the CLINIC STOP id, SERVICE CONNECTED, and the ORIGINATING DATE field (#1). The WL SERVICE/SPECIALTY field (#7) in the SD WAIT LIST file (#409.3) contains the pointer to the SD WL SERVICE/SPECIALTY file. The CLINIC STOP id is in the

SERVICE/SPECIALTY field (#.01) of the SD WL  
SERVICE/SPECIALTY file (#409.31) SERVICE CONNECTED is the  
SERVICE CONNECTED? field (#.301) (a required field) in the  
PATIENT file (#2).

Set Logic: S ^SDWL(409.3,"GSA",X(1),X(2),X(3),DA)=""

Kill Logic: K ^SDWL(409.3,"GSA",X(1),X(2),X(3),DA)

Whole Kill: K ^SDWL(409.3,"GSA")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.31,+\$P(\$G(^SDWL(409.3,DA  
,0)),U,8),0)),U,1)  
(Subscr 1) (forwards)

X(2): Computed Code: S X=\$P(\$G(^DPT(+\$P(\$G(^SDWL(409.3,DA,0)),U,1  
,3)),U,1)  
(Subscr 2) (forwards)

X(3): ORIGINATING DATE (409.3,1) (Subscr 3) (forwards)

#### GSB (#1391) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC STOP (SVCS) ID, SVC CONNECTED PRIORITY, AND  
ORIGINATING DATE

Description: This xref is used to sort Wait List entries by the CLINIC  
STOP id, SERVICE CONNECTED PRIORITY field (#15), and the  
ORIGINATING DATE field (#1). The WL SERVICE/SPECIALTY  
field (#7) in the SD WAIT LIST file (#409.3) contains the  
pointer to the SD WL SERVICE/SPECIALTY file. The CLINIC  
STOP id is in the SERVICE/SPECIALTY field (#.01) of the SD  
WL SERVICE/SPECIALTY file (#409.31).

Set Logic: S ^SDWL(409.3,"GSB",X(1),X(2),X(3),DA)=""

Kill Logic: K ^SDWL(409.3,"GSB",X(1),X(2),X(3),DA)

Whole Kill: K ^SDWL(409.3,"GSB")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.31,+\$P(\$G(^SDWL(409.3,DA  
,0)),U,8),0)),U,1)  
(Subscr 1) (forwards)

X(2): Computed Code: S X=\$P(\$G(^SDWL(409.3,DA,"SC")),U,2)  
(Subscr 2) (forwards)

X(3): ORIGINATING DATE (409.3,1) (Subscr 3) (forwards)

#### GC (#1392) FIELD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC AND ORIGINATING DATE

Description: This xref is used to sort Wait List entries by the Clinic  
ID and the ORIGINATING DATE field (#1). The Clinic ID  
comes from the CLINIC field (#.01) of the SD WL CLINIC  
LOCATION file (#409.32). The SD WL CLINIC LOCATION pointer  
is in the WL SPECIFIC CLINIC field (#8) of the SD WAIT LIST  
file (#409.3).

Set Logic: S ^SDWL(409.3,"GC",X(1),X(2),DA)=""

Kill Logic: K ^SDWL(409.3,"GC",X(1),X(2),DA)

Whole Kill: K ^SDWL(409.3,"GC")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.32,+\$P(\$G(^SDWL(409.3,DA  
,0)),U,9),0)),U,1)  
(Subscr 1) (forwards)

X(2): ORIGINATING DATE (409.3,1) (Subscr 2) (forwards)

GSC (#1388) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC STOP (SERVICES) ID AND CID/PREFERRED DATE

Description: This xref is used to sort Wait List entries by the CLINIC

STOP id and the CID/PREFERRED DATE field (#22). The CLINIC  
STOP id comes from the SD WL SERVICE/SPECIALTY file  
(#409.31). The WL SERVICE/SPECIALTY field (#7) in the SD  
WAIT LIST file (#409.3) contains the pointer to the SD WL  
SERVICE/SPECIALTY file.

Set Logic: S ^SDWL(409.3,"GSC",X(1),X(2),DA)=""

Kill Logic: K ^SDWL(409.3,"GSC",X(1),X(2),DA)

Whole Kill: K ^SDWL(409.3,"GSC")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.31,+\$P(\$G(^SDWL(409.3,DA  
,0)),U,8),0)),U,1)

(Subscr 1) (forwards)

X(2): DESIRED DATE OF APPOINTMENT (409.3,22) (Subscr 2)  
(forwards)

GCC (#1393) FIELD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC ID AND CID/PREFERRED DATE

Description: This xref is used to sort Wait List entries by the Clinic

ID and the CID/PREFERRED DATE field (#22). The Clinic ID  
comes from the CLINIC field (#.01) of the SD WL CLINIC  
LOCATION file (#409.32). The SD WL CLINIC LOCATION pointer  
is in the WL SPECIFIC CLINIC field (#8) of the SD WAIT LIST  
file (#409.3).

Set Logic: S ^SDWL(409.3,"GCC",X(1),X(2),DA)=""

Kill Logic: K ^SDWL(409.3,"GCC",X(1),X(2),DA)

Whole Kill: K ^SDWL(409.3,"GCC")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.32,+\$P(\$G(^SDWL(409.3,DA  
,0)),U,9),0)),U,1)

(Subscr 1) (forwards)

X(2): DESIRED DATE OF APPOINTMENT (409.3,22) (Subscr 2)  
(forwards)

### 3.5.5. #409.81 – SDEC Application

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.81

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File #409.81

Traditional Cross-References:

B REGULAR

Field: MAJOR VERSION (409.81,.01)

1)= S ^SDEC(409.81,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.81,"B",\$E(X,1,30),DA)

### **3.5.6. #409.822 – SDEC Access Group**

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.822

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File #409.822

Traditional Cross-References:

B REGULAR

Field: ACCESS GROUP (409.822,.01)

1)= S ^SDEC(409.822,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.822,"B",\$E(X,1,30),DA)

### **3.5.7. #409.823 – SDEC Access Type**

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.823

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File #409.823

Traditional Cross-References:

B REGULAR

Field: ACCESS TYPE NAME (409.823,.01)

1)= S ^SDEC(409.823,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.823,"B",\$E(X,1,30),DA)

### **3.5.8. #409.824 – SDEC Access Group Type**

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.824

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File #409.824

Traditional Cross-References:

#### **B REGULAR**

Field: ACCESS GROUP (409.824,.01)

- 1)= S ^SDEC(409.824,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.824,"B",\$E(X,1,30),DA)

### **3.5.9. #409.831 – SDEC Resource**

INDEX AND CROSS-REFERENCE LIST -- FILE #409.831

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File #409.831

Traditional Cross-References:

#### **ALOC REGULAR**

Field: HOSPITAL LOCATION (409.831,.04)

Description: This "ALOC" xref is used to look up an SDEC RESOURCE record using a HOSPITAL LOCATION id.

- 1)= S ^SDEC(409.831,"ALOC",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.831,"ALOC",\$E(X,1,30),DA)

#### **B REGULAR**

Field: RESOURCE (409.831,.01)

- 1)= S ^SDEC(409.831,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.831,"B",\$E(X,1,30),DA)

#### **C REGULAR**

Field: ABBREVIATION (409.831,.011)

Description: This xref is used to lookup Resources using an abbreviation.

1)= S ^SDEC(409.831,"C",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.831,"C",\$E(X,1,30),DA)

New-Style Indexes:

AC (#1356) FIELD REGULAR IR SORTING ONLY

Short Descr: Index of RESOURCE TYPE

Description: This cross-reference is built from both pieces of the RESOURCE TYPE variable pointer field to speed up the sorting of resources when given a specific source and ID.  
The sources could be HOSPITAL LOCATION, NEW PERSON, or SDEC ADDITIONAL RESOURCE.

Set Logic: S ^SDEC(409.831,"AC",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.831,"AC",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.831,"AC")

X(1): RESOURCE TYPE (409.831,.012) (Subscr 1) (forwards)

Transform (Storage): S X=\$E(\$\$OT1^SDEC03(X),1)

X(2): RESOURCE TYPE (409.831,.012) (Subscr 2) (forwards)

Transform (Storage): S X=\$P(X,";",1)

Subfile #409.8312001

Traditional Cross-References:

ASSOC REGULAR WHOLE FILE (#409.831)

Field: ASSOCIATED VISTA CLINICS (409.8312001,.01)

Description: This "ASSOC" xref is used to find a SDEC RESOURCE record using a HOSPITAL LOCATION id that was used in the ASSOCIATED VISTA CLINICS multiple.

1)= S ^SDEC(409.831,"ASSOC",\$E(X,1,30),DA(1),DA)=""

2)= K ^SDEC(409.831,"ASSOC",\$E(X,1,30),DA(1),DA)

B REGULAR

Field: ASSOCIATED VISTA CLINICS (409.8312001,.01)

1)= S ^SDEC(409.831,DA(1),20,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.831,DA(1),20,"B",\$E(X,1,30),DA)

### 3.5.10. #409.832 – SDEC Resource Group

INDEX AND CROSS-REFERENCE LIST -- FILE #409.832

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File #409.832

Traditional Cross-References:

B REGULAR

Field: NAME (409.832,.01)

1)= S ^SDEC(409.832,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.832,"B",\$E(X,1,30),DA)

Subfile #409.8321

Traditional Cross-References:

AB REGULAR WHOLE FILE (#409.832)

Field: RESOURCE (409.8321,.01)

Description: This "AB" xref is used to find a SDEC RESOURCE GROUP record using a SDEC RESOURCE id.

1)= S ^SDEC(409.832,"AB",\$E(X,1,30),DA(1),DA)=""

2)= K ^SDEC(409.832,"AB",\$E(X,1,30),DA(1),DA)

B REGULAR

Field: RESOURCE (409.8321,.01)

1)= S ^SDEC(409.832,DA(1),1,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.832,DA(1),1,"B",\$E(X,1,30),DA)

### **3.5.11. #409.833 – SDEC Resource User**

INDEX AND CROSS-REFERENCE LIST -- FILE #409.833

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File #409.833

Traditional Cross-References:

## AC REGULAR

Field: USERNAME (409.833,.02)

Description: This AC xref is used to look up the SDEC RESOURCE USER record using the given User (NEW PERSON).

- 1)= S ^SDEC(409.833,"AC",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.833,"AC",\$E(X,1,30),DA)

## B REGULAR

Field: RESOURCENAME (409.833,.01)

- 1)= S ^SDEC(409.833,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.833,"B",\$E(X,1,30),DA)

New-Style Indexes:

AD (#1351) RECORD REGULAR IR SORTING ONLY

Short Descr: Index by RESOURCENAME and USERNAME.

Description: This cross reference is used to sort by RESOURCENAME and USERNAME.

Set Logic: S ^SDEC(409.833,"AD",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.833,"AD",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.833,"AD")

X(1): RESOURCENAME (409.833,.01) (Subscr 1) (forwards)

X(2): USERNAME (409.833,.02) (Subscr 2) (forwards)

## 3.5.12. #409.834 – SDEC Additional Resource

Traditional Cross-References:

B REGULAR

Field: NAME (409.834,.01)

- 1)= S ^SDEC(409.834,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.834,"B",\$E(X,1,30),DA)

### **3.5.13. #409.84 – SDEC Appointment**

INDEX AND CROSS-REFERENCE LIST -- FILE #409.84

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File #409.84

Traditional Cross-References:

AC REGULAR

Field: DATE APPT MADE (409.84,.09)

Description: This cross-reference is used to sort SDEC APPOINTMENT entries by the DATE APPOINTMENT MADE field.

- 1)= S ^SDEC(409.84,"AC",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.84,"AC",\$E(X,1,30),DA)

AD REGULAR

Field: CANCEL DATETIME (409.84,.12)

Description: This cross-reference is used to sort SDEC APPOINTMENT entries by the CANCEL DATETIME field.

- 1)= S ^SDEC(409.84,"AD",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.84,"AD",\$E(X,1,30),DA)

AEX REGULAR

Field: EXTERNAL ID (409.84,.21)

Description: Used to lookup the SDEC APPOINTMENT ien using the external

ID.

- 1)= S ^SDEC(409.84,"AEX",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.84,"AEX",\$E(X,1,30),DA)

## ARSRC MUMPS

Field: RESOURCE (409.84,.07)

Description: This index is used to find all appointments for a given resource during a given time period.

- 1)= D XR2S^SDEC03(DA)
- 2)= D XR2K^SDEC03(DA)

## B REGULAR

Field: STARTTIME (409.84,.01)

- 1)= S ^SDEC(409.84,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.84,"B",\$E(X,1,30),DA)

## CPAT REGULAR

Field: PATIENT (409.84,.05)

Description: This xref is used to look up appointments by Patient.

- 1)= S ^SDEC(409.84,"CPAT",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.84,"CPAT",\$E(X,1,30),DA)

## **3.5.14. #409.845 – SDEC Preferences and Special Needs**

INDEX AND CROSS-REFERENCE LIST -- FILE #409.845

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File #409.845

Traditional Cross-References:

## B REGULAR

Field: PATIENT (409.845,.01)

1)= S ^SDEC(409.845,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.845,"B",\$E(X,1,30),DA)

Subfile #409.8451

Traditional Cross-References:

**B REGULAR**

Field: PREFERENCE (409.8451,.01)

1)= S ^SDEC(409.845,DA(1),1,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.845,DA(1),1,"B",\$E(X,1,30),DA)

**3.5.15. #409.85 – SDEC APPT Request**

INDEX AND CROSS-REFERENCE LIST -- FILE #409.85

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File #409.85

Traditional Cross-References:

**B REGULAR**

Field: PATIENT (409.85,.01)

1)= S ^SDEC(409.85,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.85,"B",\$E(X,1,30),DA)

**C REGULAR**

Field: INSTITUTION (409.85,2)

Description: This xref is used to speed up the lookup of Appointment Requests by INSTITUTION.

1)= S ^SDEC(409.85,"C",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.85,"C",\$E(X,1,30),DA)

## SC MUMPS

Field: REQ SPECIFIC CLINIC (409.85,8)

Description: Sort and Lookup Appointment Request by Clinic name.

1)= I \$D(X) S ^SDEC(409.85,"SC",\$P(^SC(X,0),U,1),DA)=""

2)= K ^SDEC(409.85,"SC",\$P(^SC(X,0),U,1),DA)

## SCC MUMPS

Field: REQ SPECIFIC CLINIC (409.85,8)

Description: Sort/Lookup Appointment Request by Specific Clinic.

1)= I \$D(X) S ^SDEC(409.85,"SCC",\$P(^SDEC(409.85,DA,0),U,1),X,DA)=""

2)= K ^SDEC(409.85,"SCC",\$P(^SDEC(409.85,DA,0),U,1),X,DA)

New-Style Indexes:

## AC (#1353) RECORD REGULAR IR SORTING ONLY

Short Descr: Index by CREATE DATE and ORIGINATING USER

Description: This cross reference is used to sort by CREATE DATE and  
ORIGINATING USER.

Set Logic: S ^SDEC(409.85,"AC",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.85,"AC",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.85,"AC")

X(1): DATE/TIME ENTERED (409.85,9.5) (Subscr 1) (forwards)

X(2): ORIGINATING USER (409.85,9) (Subscr 2) (forwards)

## E (#1352) RECORD REGULAR IR SORTING ONLY

Short Descr: Index by CURRENT STATUS and CREATE DATE.

Description: This cross reference is used to sort by CURRENT STATUS and  
CREATE DATE.

Set Logic: S ^SDEC(409.85,"E",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.85,"E",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.85,"E")

X(1): CURRENT STATUS (409.85,23) (Subscr 1) (forwards)  
X(2): CREATE DATE (409.85,1) (Subscr 2) (forwards)

GC (#1385) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC AND ORIGINATING DATE

Description: This xref is used to sort Appointment Request entries by  
the REQ SPECIFIC CLINIC field (#8) and the CREATE DATE  
field (#1).

Set Logic: S ^SDEC(409.85,"GC",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.85,"GC",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.85,"GC")

X(1): REQ SPECIFIC CLINIC (409.85,8) (Subscr 1) (forwards)

X(2): CREATE DATE (409.85,1) (Subscr 2) (forwards)

GCC (#1386) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC AND CID/PREFERRED DATE

Description: This xref is used to sort Appointment Request entries by  
the REQ SPECIFIC CLINIC field (#8) and the CID PREFERRED  
DATE OF APPT field (#22).

Set Logic: S ^SDEC(409.85,"GCC",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.85,"GCC",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.85,"GCC")

X(1): REQ SPECIFIC CLINIC (409.85,8) (Subscr 1) (forwards)

X(2): CID/PREFERRED DATE OF APPT (409.85,22) (Subscr 2)  
(forwards)

GS (#1380) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY REQ SERVICE/SPECIALTY ID AND ORIGINATING DATE

Description: This xref is used to sort Appointment Request entries by  
the REQ SERVICE/SPECIALTY field (#8.5) and the CREATE DATE  
field (#1).

Set Logic: S ^SDEC(409.85,"GS",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.85,"GS",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.85,"GS")

X(1): REQ SERVICE/SPECIALTY (409.85,8.5) (Subscr 1) (forwards)

X(2): CREATE DATE (409.85,1) (Subscr 2) (forwards)

#### GSA (#1383) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY REQ SERVICE/SPECIALTY, SVC CONNECTED, AND CREATE DATE

Description: This xref is used to sort Appointment Request entries by the REQ SERVICE/SPECIALTY field (#8.5), SERVICE CONNECTED, and the CREATE DATE field (#1). SERVICE CONNECTED is the SERVICE CONNECTED? field (#.301) in the PATIENT file (#2).

Set Logic: S ^SDEC(409.85,"GSA",X(1),X(2),X(3),DA)=""

Kill Logic: K ^SDEC(409.85,"GSA",X(1),X(2),X(3),DA)

Whole Kill: K ^SDEC(409.85,"GSA")

X(1): REQ SERVICE/SPECIALTY (409.85,8.5) (Subscr 1) (forwards)

X(2): Computed Code: N DFN S DFN=\$P(\$G(^SDEC(409.85,DA,0)),U,1) S

X=\$P(\$G(^DPT(+DFN,.3)),U,1) S:X="" X=0

(Subscr 2) (forwards)

X(3): CREATE DATE (409.85,1) (Subscr 3) (forwards)

#### GSB (#1384) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY REQ SERVICE/SPECIALTY, SVC CONNECTED PRIORITY, AND CREATE DATE

Description: This xref is used to sort Appointment Request entries by the REQ SERVICE/SPECIALTY field (#8.5), SERVICE CONNECTED PRIORITY field (#15), and the CREATE DATE field (#1).

Set Logic: S ^SDEC(409.85,"GSB",X(1),X(2),X(3),DA)=""

Kill Logic: K ^SDEC(409.85,"GSB",X(1),X(2),X(3),DA)

Whole Kill: K ^SDEC(409.85,"GSB")

X(1): REQ SERVICE/SPECIALTY (409.85,8.5) (Subscr 1) (forwards)

X(2): SERVICE CONNECTED PRIORITY (409.85,15) (Subscr 2)  
(forwards)

X(3): CREATE DATE (409.85,1) (Subscr 3) (forwards)

## GSC (#1381) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY REQ SERVICE/SPECIALTY ID AND CID/PREFERRED DATE OF APPT

Description: This xref is used to sort Appointment Request entries by the REQ SERVICE/SPECIALTY field (#8.5) and the CID/PREFERRED DATE OF APPT field (#22).

Set Logic: S ^SDEC(409.85,"GSC",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.85,"GSC",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.85,"GSC")

X(1): REQ SERVICE/SPECIALTY (409.85,8.5) (Subscr 1) (forwards)

X(2): CID/PREFERRED DATE OF APPT (409.85,22) (Subscr 2)

(forwards)

## GSP (#1382) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY REQ SERVICE/SPECIALTY, ENROLLMENT PRIORITY, AND CREATE DATE

Description: This xref is used to sort Appointment Request entries by the REQ SERVICE/SPECIALTY field (#8.5), Patient's ENROLLMENT PRIORITY, and the CREATE DATE field (#1). The Patient's ENROLLMENT PRIORITY comes from the ENROLLMENT PRIORITY field (#.07) of the PATIENT ENROLLMENT file (#27.11). The CURRENT ENROLLMENT field (#27.01) of the PATIENT file (#2) contains the pointer into the PATIENT ENROLLMENT FILE.

Set Logic: S ^SDEC(409.85,"GSP",X(1),X(2),X(3),DA)=""

Kill Logic: K ^SDEC(409.85,"GSP",X(1),X(2),X(3),DA)

Whole Kill: K ^SDEC(409.85,"GSP")

X(1): REQ SERVICE/SPECIALTY (409.85,8.5) (Subscr 1) (forwards)

X(2): Computed Code: N DFN,PCE S DFN=\$P(\$G(^SDEC(409.85,DA,0)),U,  
1),PCE=\$P(\$G(^DPT(+DFN,"ENR")),U,1),X=+\$P(\$G(^DGEN(27.11,+P  
CE,0)),U,7)

(Subscr 2) (forwards)

X(3): CREATE DATE (409.85,1) (Subscr 3) (forwards)

Subfile #409.851

Traditional Cross-References:

**B REGULAR**

Field: MRTC CALC PREF DATES (409.851,.01)

- 1)= S ^SDEC(409.85,DA(1),5,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.85,DA(1),5,"B",\$E(X,1,30),DA)

Subfile #409.852

Traditional Cross-References:

**B REGULAR**

Field: CHILD REQUEST (409.852,.01)

- 1)= S ^SDEC(409.85,DA(1),2,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.85,DA(1),2,"B",\$E(X,1,30),DA)

Subfile #409.8544

Traditional Cross-References:

**B REGULAR**

Field: DATE ENTERED (409.8544,.01)

- 1)= S ^SDEC(409.85,DA(1),4,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.85,DA(1),4,"B",\$E(X,1,30),DA)

New-Style Indexes:

AD (#1357) RECORD REGULAR IR SORTING ONLY WHOLE FILE (#409.85)

Short Descr: Sort by DATE ENTERED and ENTERED BY USER of PATIENT

CONTACTS

Description: This cross reference sorts the whole SDEC APPT REQUEST file by the DATE ENTERED and ENTERED BY USER of the PATIENT CONTACTS multiple field #44.

Set Logic: S ^SDEC(409.85,"AD",X(1),X(2),DA(1),DA)=""

Kill Logic: K ^SDEC(409.85,"AD",X(1),X(2),DA(1),DA)

Whole Kill: K ^SDEC(409.85,"AD")

X(1): DATE ENTERED (409.8544,.01) (Subscr 1) (forwards)

X(2): ENTERED BY USER (409.8544,2) (Subscr 2) (forwards)

Subfile #409.8545

Traditional Cross-References:

## B REGULAR

Field: DATE EDITED (409.8545,.01)

1)= S ^SDEC(409.85,DA(1),6,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.85,DA(1),6,"B",\$E(X,1,30),DA)

Subfile #409.8548

Traditional Cross-References:

## B REGULAR

Field: PREREQUISITE (409.8548,.01)

1)= S ^SDEC(409.85,DA(1),8,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.85,DA(1),8,"B",\$E(X,1,30),DA)

## 3.5.16. #409.3 – SD Wait List

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INDEX AND CROSS-REFERENCE LIST -- FILE #409.3

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Subfile #409.345

Traditional Cross-References:

**B REGULAR**

Field: DATE EDITED (409.345,.01)

1)= S ^SDWL(409.3,DA(1),6,"B",\$E(X,1,30),DA)=""

2)= K ^SDWL(409.3,DA(1),6,"B",\$E(X,1,30),DA)

## **3.6. Table File**

### **3.6.1. #403.5 – RECALL REMINDERS FILE**

STANDARD DATA DICTIONARY #403.5 -- RECALL REMINDERS FILE

FEB 7,2018@13:58:05 PAGE 1

STORED IN ^SD(403.5, (18326 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV UCI:  
CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This file contains records for all active Recall Reminders. Once a patient has called to make an appointment, the entry is then moved from this file to RECALL REMINDERS REMOVED file. Patients should not be entered into this file when their future appointment is less than 30 days. The records are maintained by Recall Date and patient name.

DD ACCESS: @

RD ACCESS:

WR ACCESS:

DEL ACCESS: @

LAYGO ACCESS: @

AUDIT ACCESS: @

(NOTE: Kernel's File Access Security has been installed in this UCI.)

IDENTIFIED BY: CLINIC (#4.5)[R], RECALL DATE (#5)[R]

POINTED TO BY: APPT REQUEST TYPE field (#.22) of the SDEC APPOINTMENT File  
(#409.84)

CROSS

REFERENCED BY: PATIENT NAME(B), PROVIDER(C), RECALL DATE(D), CLINIC(E)

INDEXED BY: PATIENT NAME (A66201), DATE/TIME RECALL ADDED & USER WHO ENTERED RECALL (AC)

403.5,.01 PATIENT NAME 0;1 POINTER TO PATIENT FILE (#2)  
(Required)

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Enter the name of the Patient you wish to enter  
a Recall for.

DESCRIPTION: Recall Reminder patient name this is a pointer  
to the patient file #2.

CROSS-REFERENCE: 403.5^B

1)= S ^SD(403.5,"B",\$E(X,1,30),DA)=""

2)= K ^SD(403.5,"B",\$E(X,1,30),DA)

Used for checking to see if the patient is in  
the Recall file and display recall information  
before a new entry is made.

FIELD INDEX: A66201 (#838) MUMPS IR ACTION

Short Descr: Save copy of record before deletion.

Description: Before deleting a record from this file, save a  
copy of it in file 403.56. Deletion can be  
either because a clerk deletes a patient from  
the recall list, or because a patient has been  
given an appointment in a clinic requested by

the recall list and therefore is deleted by the nightly job. We save this information so that we can look back at appointments given to patients and see how timely the appointments were.

Set Logic: Q

Kill Logic: D DELETE^SDRRISRU

Kill Cond: S X=(X1'=""&(X2=""))

X(1): PATIENT NAME (403.5,.01) (forwards)

403.5,2 ACCESSION# 0,3 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>25!(\$L(X)<1) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Answer must be 1-25 characters in length.

DESCRIPTION: This is the lab order number or the lab accession number if known.

403.5,2.5 COMMENT 0;7 FREE TEXT (audited)

INPUT TRANSFORM: K:\$L(X)>80!(\$L(X)<1) X

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Answer must be 1-80 characters in length.

DESCRIPTION:

Comments needed for this recall entry.

AUDIT: YES, ALWAYS

403.5,2.6 FAST/NON-FASTING 0;8 SET (audited)

'f' FOR FASTING;

'n' FOR NON-FASTING;

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Are the labs Fasting or Non-Fasting? leave blank if no labs have been ordered.

DESCRIPTION: If the patient has had lab tests ordered for this recall visit, select either Fasting or Non-Fasting labs. If the patient has no labs orders leave blank.

AUDIT: YES, ALWAYS

403.5,3 TEST/APP. 0;4 POINTER TO RECALL REMINDERS APPT TYPE  
FILE (#403.51) (Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the type of Recall visit

DESCRIPTION: This is the type of Recall Visit that is assigned for this entry.

AUDIT: YES, ALWAYS

403.5,4 PROVIDER 0;5 POINTER TO RECALL REMINDERS PROVIDERS  
FILE (#403.54) (Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the provider for this Recall entry.

DESCRIPTION: The provider who is assigned for this Recall entry.

AUDIT: YES, ALWAYS

CROSS-REFERENCE: 403.5^C

1)= S ^SD(403.5,"C",\$E(X,1,30),DA)=""

2)= K ^SD(403.5,"C",\$E(X,1,30),DA)

Used for printing of the cards/letter and reports by Provider or Recall Team.

403.5,4.5 CLINIC            0;2 POINTER TO HOSPITAL LOCATION FILE (#44)  
(Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the clinic that this Recall will be  
linked to.

DESCRIPTION: This is the Hospital Location which this  
patient will have the Recall entry assigned.

AUDIT: YES, ALWAYS

CROSS-REFERENCE: 403.5^E

1)= S ^SD(403.5,"E",\$E(X,1,30),DA)=""  
2)= K ^SD(403.5,"E",\$E(X,1,30),DA)  
Used during the display of Recall information  
and for selecting the printing of  
cards/letters, Also, used in selecting reports  
printed by Recall clinic.

403.5,4.7 LENGTH OF APPT.     0;9 NUMBER (audited)

INPUT TRANSFORM: K:+X'=X!(X>120)!(X<10)!(X?.E1"."1N.N) X

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Type a Number between 10 and 120, 0 Decimal  
Digits

DESCRIPTION: The length of appointment (in minutes) that  
will be required once scheduled.

AUDIT: YES, ALWAYS

403.5,5      RECALL DATE      0;6 DATE (Required)

INPUT TRANSFORM: S %DT="EFX",%DT(0)=\$\$FMADD^XLFDT(DT,1) D ^%DT  
K %DT(0) S X=Y K:Y<1 X

LAST EDITED: JAN 14, 2016

HELP-PROMPT: Enter the Recall Date that the provider has  
requested for this patient.

DESCRIPTION: Recall Date is a date the provider has  
requested the patient to return. This must be a  
future exact date.

#### UNEDITABLE

NOTES: XXXX--CANT BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 403.5^D

1)= S ^SD(403.5,"D",\$E(X,1,30),DA)=""  
2)= K ^SD(403.5,"D",\$E(X,1,30),DA)  
Used in selecting a date range for printing  
Recall cards/letters and in all Recall reports.

CROSS-REFERENCE: ^^TRIGGER^403.5^7

1)= K DIV S DIV=X,D0=DA,DIV(0)=D0 S Y(1)=\$S(\$D(  
^SD(403.5,D0,0)):^(0),1:"") S X=\$P(Y(1),U,11),X  
=X S DIU=X K Y S X=DIV S X=DUZ S DIH=\$G(^SD(403  
.5,DIV(0),0)),DIV=X S \$P(^0,U,11)=DIV,DIH=403  
.5,DIG=7 D ^DICR

2)= Q

CREATE VALUE)= S X=DUZ

DELETE VALUE)= NO EFFECT

FIELD)= #7

Used to update USER THAT ENTER RECALL field #7

#### 403.5,5.5 RECALL DATE (PER PATIENT) 0;12 DATE

INPUT TRANSFORM: S %DT="EFX",%DT(0)=\$\$FMADD^XLFDT(DT,1) D ^%DT  
K %DT(0) S X=Y K:Y<1 X

LAST EDITED: JAN 14, 2016

HELP-PROMPT: Enter the Date that the patient is requesting  
for their Recall Visit.

DESCRIPTION: This is the Recall Date that the patient is  
requesting. It can be different from the Recall  
Date, which is what the Provider has requested.

This must be a future exact date.

UNEDITABLE

NOTES: XXXX--CANT BE ALTERED EXCEPT BY PROGRAMMER

#### 403.5,6 DATE REMINDER SENT 0;10 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Date letter/card first printed.

DESCRIPTION: This is the date that the first letter/card was printed and sent to the  
Veteran.

#### 403.5,7 USER WHO ENTERED RECALL 0;11 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 03, 2015

HELP-PROMPT: New person who entered or edited Recall entry

DESCRIPTION: User who enter or edit a Recall entry.

NOTES: TRIGGERED by the RECALL DATE field of the  
RECALL REMINDERS File

RECORD INDEXES: AC (#1656)

403.5,7.5 DATE/TIME RECALL ADDED 0;14 DATE

INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:(Y<1)!(X>\$E(\$\$NOW^XLF  
DT,1,12)) X

LAST EDITED: JAN 14, 2016

HELP-PROMPT: Enter a date and time not in the future

DESCRIPTION: Date and Time this recall reminder was added. Cannot be in the  
future.

UNEDITABLE

NOTES: XXXX--CANT BE ALTERED EXCEPT BY PROGRAMMER

RECORD INDEXES: AC (#1656)

403.5,8 SECOND PRINT 0;13 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Date for second printing of card or letter

DESCRIPTION: This is the date that the second letter/card  
was printed and sent.

### **3.6.2. #403.56 – RECALL REMINDERS REMOVED**

STANDARD DATA DICTIONARY #403.56 -- RECALL REMINDERS REMOVED FILE

FEB 7,2018@13:58:29 PAGE 1

STORED IN ^SD(403.56, (19304 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This file holds records deleted from the RECALL REMINDERS [#403.5] file, whether deleted by the user or because they were given appointments.

DD ACCESS: @

RD ACCESS:

WR ACCESS:

DEL ACCESS: @

LAYGO ACCESS: @

AUDIT ACCESS: @

(NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS

REFERENCED BY: PATIENT NAME(B), RECALL DATE(C)

INDEXED BY: DATE/TIME RECALL ADDED & USER WHO ENTERED RECALL (AC), CLINIC & RECALL DATE (D)

403.56,.01 PATIENT NAME 0;1 POINTER TO PATIENT FILE (#2)  
(Required)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select Recall Reminder patient.

DESCRIPTION: Recall Reminder Patient who has been removed from the Recall Reminder file.

CROSS-REFERENCE: 403.56^B

1)= S ^SD(403.56,"B",\$E(X,1,30),DA)=""

2)= K ^SD(403.56,"B",\$E(X,1,30),DA)

Look up by Recall patient name.

403.56,2 ACCESSION # 0;3 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>25!(\$L(X)<1) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Answer must be 1-25 characters in length.

DESCRIPTION: Lab order number or accession number moved from  
the Recall File.

403.56,2.5 COMMENT 0;7 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>80!(\$L(X)<1) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Answer must be 1-80 characters in length.

DESCRIPTION: Comments that have been moved from the Recall Reminder File.

403.56,2.6 FAST / NON-FASTING 0;8 SET

'f' FOR FASTING;

'n' FOR NON-FASTING;

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Either f - fasting, n - non fasting or blank for no labs

DESCRIPTION: Fasting and Non fasting information moved from the Recall  
Reminder file.

403.56,3 TEST/APP 0;4 POINTER TO RECALL REMINDERS APPT TYPE  
FILE (#403.51)

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Select from the available list of Test/App types

DESCRIPTION: This is the type of Recall Visit that is assigned for this entry and has been moved from the Recall Reminder file.

403.56,4 PROVIDER 0;5 POINTER TO RECALL REMINDERS PROVIDERS  
FILE (#403.54)

LAST EDITED: APR 27, 2015

HELP-PROMPT: Select from the available list of Recall Providers

DESCRIPTION: The provider who is assigned for this Recall entry.

403.56,4.5 CLINIC 0;2 POINTER TO HOSPITAL LOCATION FILE (#44)  
LAST EDITED: JUL 17, 2008  
HELP-PROMPT: Select the clinic at which the patient had the recall entry.  
DESCRIPTION: Select from the Hospital Location for this Recall entry.

RECORD INDEXES: D (#839)

403.56,4.7 LENGTH OF APPT. 0;9 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>120)!(X<10)!(X?.E1"."1N.N) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Type a Number between 10 and 120, 0 Decimal Digits

DESCRIPTION: The length of appointment that will be required once scheduled.

403.56,5 RECALL DATE 0;6 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 27, 2015

HELP-PROMPT: Enter the appt date requested by the Provider.

DESCRIPTION: Recall date moved from Recall Reminder file once the patient had been removed.

CROSS-REFERENCE: 403.56^C

1)= S ^SD(403.56,"C",\$E(X,1,30),DA)=""

2)= K ^SD(403.56,"C",\$E(X,1,30),DA)

look up by Recall date for entries no longer active.

RECORD INDEXES: D (#839)

403.56,6 DATE REMINDER SENT 0;10 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Enter the date the Recall card or letter was printed and sent.

DESCRIPTION: Date the reminder was sent to the patient.

403.56,7 USER WHO ENTERED RECALL 0;11 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 03, 2015

HELP-PROMPT: Select user who last entered or edited the recall entry.

DESCRIPTION: The person who entered or edited Recall entry.

RECORD INDEXES: AC (#1657)

403.56,7.5 DATE/TIME RECALL ADDED 0;12 DATE

INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 03, 2015

HELP-PROMPT: Enter a date and time

DESCRIPTION: Date and time this recall reminder was added.

RECORD INDEXES: AC (#1657)

403.56,101 APPT DATE 1;1 DATE

INPUT TRANSFORM: S %DT="ESTXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Enter date of scheduled appointment.

DESCRIPTION: If the patient was deleted from the recall list because s/he got an appointment, this is the date/time of the appointment.

403.56,102 APPT CLINIC 1;2 POINTER TO HOSPITAL LOCATION FILE (#44)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select the clinic matching the Recall entry.

DESCRIPTION: If the patient was deleted from the recall list because s/he got an appointment, this is the clinic of the appointment.

403.56,201 DELETE DATE 2;1 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Enter the date the entry was cancelled or deleted.

DESCRIPTION: If the patient was deleted from the recall list because a clerk deleted him/her, this is the date/time of the deletion.

403.56,202 DELETE CLERK 2;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select the clerk who deleted or cancelled the Recall entry.

DESCRIPTION: If the patient was deleted from the recall list because a clerk deleted him/her, this is the clerk who deleted the patient.

403.56,203 DELETE REASON 2;3 SET

'1' FOR FAILURE TO RESPOND;

'2' FOR MOVED;

'3' FOR DECEASED;

'4' FOR DOESN'T WANT VA SERVICES;

'5' FOR RECEIVED CARE AT ANOTHER VA;

'6' FOR OTHER;

'7' FOR APPT SCHEDULED;

LAST EDITED: JUL 17, 2008  
HELP-PROMPT: Select the reason the entry was deleted or cancelled.  
DESCRIPTION: The reason why a patient was removed from Recall.

### 3.6.3. #409.3 – SD WAIT LIST

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE

FEB 7,2018@13:58:57 PAGE 1

STORED IN ^SDWL(409.3, (4938 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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---

This file contains the Wait List entries for the Wait List (Sch/PCMM) package.  
Each entry represents a unique wait list entry.

DD ACCESS: @

RD ACCESS:

WR ACCESS: D

DEL ACCESS: @

LAYGO ACCESS: D

AUDIT ACCESS: @

(NOTE: Kernel's File Access Security has been installed in this UCI.)

IDENTIFIED BY: ORIGINATING DATE (#1), INSTITUTION (#2)[R],  
WAIT LIST TYPE (#4)[R], CURRENT STATUS (#23)

POINTED TO BY: CHANGED CLINIC PARENT POINTER field (#37) of the SD WAIT LIST  
File (#409.3)

WAIT LIST ENTRY field (#.01) of the SDWL TRANSFER REQUEST File  
(#409.35)

SD WAIT LIST ENTRY field (#409.3) of the SDWL TRANSFER ACCEPT  
File (#409.36)

APPT REQUEST TYPE field (#.22) of the SDEC APPOINTMENT File  
(#409.84)

## CROSS

REFERENCED BY: WL SPECIFIC HOSPITAL LOCATION(AE), PATIENT(B),  
INSTITUTION(C), WL SPECIFIC TEAM(D), CURRENT STATUS(E),  
ORIGINATING DATE(ETO0), WL SPECIFIC CLINIC(SC),  
WL SPECIFIC CLINIC(SCC), WL SPECIFIC POSITION(SP),  
WL SERVICE/SPECIALTY(SS), WL SPECIFIC TEAM(ST)

INDEXED BY: DATE/TIME ENTERED & ORIGINATING USER (AC), PATIENT & WL  
SPECIFIC

HOSPITAL LOCATION (AD), DATE ENTERED & ENTERED BY USER (AF),  
ORIGINATING DATE (GC), DESIRED DATE OF APPOINTMENT (GCC),  
ORIGINATING DATE (GS), ORIGINATING DATE (GSA), SERVICE  
CONNECTED  
PRIORITY & ORIGINATING DATE (GSB), DESIRED DATE OF APPOINTMENT  
(GSC), ORIGINATING DATE (GSP)

409.3,.01 PATIENT 0;1 POINTER TO PATIENT FILE (#2)  
(Required)

LAST EDITED: APR 30, 2015

HELP-PROMPT: Enter the name of the patient from the Patient file #2 that is to be  
on the Sch/PCMM Wait List.

DESCRIPTION: Enter the name of the patient from the Patient file #2 that is to be  
on the Sch/PCMM Wait List.

CROSS-REFERENCE: 409.3^B

- 1)= S ^SDWL(409.3,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDWL(409.3,"B",\$E(X,1,30),DA)

RECORD INDEXES: AD (#1659)

409.3,1 ORIGINATING DATE 0;2 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 03, 2015

DESCRIPTION: Date the patient was placed on the Wait List (Sch/PCMM)

CROSS-REFERENCE: 409.3^ETOO^MUMPS

- 1)= S:\$P(^SDWL(409.3,DA,0),U,17)'="" ^SDWL(409.3,"E",\$P(^SDWL(409.3,DA,0),U,17),X,DA)=""
- 2)= K:\$P(^SDWL(409.3,DA,0),U,17)'="" ^SDWL(409.3,"E",\$P(^SDWL(409.3,DA,0),U,17),X,DA)

This xref actually updates the "E" xref for CURRENT STATUS in the event that the ORIGINATING DATE is changed. This xref is used to speed up the lookup of open or closed wait list entries for a given time range.

FIELD INDEX: GC (#1945) REGULAR IR LOOKUP & SORTING

Short Descr: SORT BY CLINIC AND ORIGINATING DATE

Description: This xref is used to sort Wait List entries by the Clinic ID and the ORIGINATING DATE field (#1). The Clinic ID comes from the CLINIC field (#.01) of the SD WL CLINIC LOCATION file (#409.32). The SD WL CLINIC LOCATION pointer is in the WL SPECIFIC CLINIC field (#8) of the SD WAIT LIST file (#409.3).

Set Logic: S ^SDWL(409.3,"GC",X(1),X(2),DA)=""

Kill Logic: K ^SDWL(409.3,"GC",X(1),X(2),DA)

Whole Kill: K ^SDWL(409.3,"GC")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.32,+\$P(\$G(^SDWL(409.3,DA,0)),U,9),0)),U,1)

(Subscr 1) (forwards)

X(2): ORIGINATING DATE (409.3,1) (Subscr 2) (forwards)

RECORD INDEXES: GS (#1940), GSA (#1943), GSB (#1944), GSP (#1942)

409.3,2 INSTITUTION 0;3 POINTER TO INSTITUTION FILE (#4)  
(Required)

INPUT TRANSFORM: S DIC("S")="I \$P(^0,U,11)=""N\$\$,\$\$TF^XUAF4(+Y  
)" D ^DIC K DIC S DIC=DIE,X=+Y K:Y<0 X

LAST EDITED: MAR 04, 2003

HELP-PROMPT: Enter the INSTITUTION that the patient is to be placed for the waiting list. INSTITUTION must be NATIONAL and a treating facility.

DESCRIPTION: The Institution the patient is on the Wait List (Sch/PCMM)

SCREEN: S DIC("S")="I \$P(^0,U,11)=""N\$\$,\$\$TF^XUAF4(+Y)"

EXPLANATION: Enter a National/Medical Institution

AUDIT:

CROSS-REFERENCE: 409.3^C

1)= S ^SDWL(409.3,"C",\$E(X,1,30),DA)=""

2)= K ^SDWL(409.3,"C",\$E(X,1,30),DA)

409.3,3 TRANMISSION STATUS TO ACC 0;4 SET

'0' FOR NOT TRANSMITTED;

'1' FOR TRANSMITTED;

LAST EDITED: AUG 08, 2002

DESCRIPTION: Reflects the current transmission status (transmitted/not transmitted) of the wait list entry

409.3,3.1 DATE OF TRANSMISSION ACCDATE;0 DATE Multiple #409.33

DESCRIPTION: Wait List Transmission date information - multiple

409.33,.01 DATE OF TRANSMISSION 0;1 DATE (Multiply asked)

INPUT TRANSFORM: S %DT="ESTR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: AUG 08, 2002

DESCRIPTION: Date of Wait List transmission

CROSS-REFERENCE: 409.33^B

1)= S ^SDWL(409.3,DA(1),"ACCDATE","B",\$E(X,1,30),DA)=""

2)= K ^SDWL(409.3,DA(1),"ACCDATE","B",\$E(X,1,30),DA)

409.3,4 WAIT LIST TYPE 0;5 SET (Required)

'1' FOR PCMM TEAM ASSIGNMENT;

'2' FOR PCMM POSITION ASSIGNMENT;

'3' FOR SERVICE/SPECIALITY;

'4' FOR SPECIFIC CLINIC;

LAST EDITED: OCT 12, 2004

HELP-PROMPT: Select one Wait List Type.

DESCRIPTION: The type of wait list the patient is assigned.

UNEDITABLE

409.3,5 WL SPECIFIC TEAM 0;6 POINTER TO TEAM FILE (#404.51)

INPUT TRANSFORM: S DIC("S")="I \$D(SDWLIN),\$P(^SCTM(404.51,+Y,0),

U,7)=SDWLIN" D ^DIC K DIC S DIC=DIE,X=+Y K:Y<0 X

LAST EDITED: SEP 30, 2002

HELP-PROMPT: Enter the team that the patient is waiting to be assigned. The team must be an active team at the selected institution and must be over capacity. Patient can be assigned to multiple Teams.

**DESCRIPTION:** If the patient is waiting for a PCMM Team Assignment, the team that the patient is waiting to be assigned is to be entered here. The team must be active at the designated institution, must be above capacity. Patients can be assigned to multiple PCMM Teams.

**SCREEN:** S DIC("S")="I  
\$D(SDWLIN),\$P(^SCTM(404.51,+Y,0),U,7)=SDWLIN"

**EXPLANATION:** Entry's for this Institution.

**CROSS-REFERENCE:** 409.3^D

- 1)= S ^SDWL(409.3,"D",\$E(X,1,30),DA)=""
- 2)= K ^SDWL(409.3,"D",\$E(X,1,30),DA)

**CROSS-REFERENCE:** 409.3^ST^MUMPS

- 1)= I \$D(X) S ^SDWL(409.3,"ST",DA,X)=""
- 2)= K ^SDWL(409.3,"ST",DA,X)

409.3,6     WL SPECIFIC POSITION  0;7 POINTER TO TEAM POSITION FILE (#404.57  
)

**LAST EDITED:** SEP 30, 2002

**HELP-PROMPT:** Enter the position the patient is waiting to be assigned. Only active, over capacity positions assigned to the patient's primary care team are selectable.

**DESCRIPTION:** If the patient is waiting for a PCMM Position, the position that the patient is waiting to be assigned is entered here. The position must be active, assigned to the team the patient is currently assigned and the position must be above capacity. The patient can have multiple open Position Wait List assignments.

**CROSS-REFERENCE:** 409.3^SP^MUMPS

- 1)= I \$D(X) S ^SDWL(409.3,"SP",DA,X)=""
- 2)= K ^SDWL(409.3,"SP",DA,X)

409.3,7     WL SERVICE/SPECIALTY  0;8 POINTER TO SD WL SERVICE/SPECIALTY FIL

E (#409.31)

LAST EDITED: FEB 05, 2007

HELP-PROMPT: Enter the Service/Specialty (DSS ID) allowed by this institution in the wait list parameters, that this patient is waiting for an appointment.

DESCRIPTION: If the patient has been assigned to the Service/Specialty Wait List, enter the DSS ID that represents the service/specialty the patient is waiting for an appointment. This DSS ID must be active in file 409.31.

CROSS-REFERENCE: 409.3^SS^MUMPS

1)= I \$D(X) S ^SDWL(409.3,"SS",\$P(^SDWL(409.3,D  
A,0),U,1),\$P(^SDWL(409.31,X,0),U,1),DA)=""

2)= I \$D(^SDWL(409.31,X,0)) K ^SDWL(409.3,"SS",  
\$P(^SDWL(409.3,DA,0),U,1),\$P(^SDWL(409.31,X,0),  
U,1),DA)

409.3,8 WL SPECIFIC CLINIC 0;9 POINTER TO SD WL CLINIC LOCATION FILE  
(#409.32) (Required)

LAST EDITED: SEP 30, 2002

HELP-PROMPT: Select clinic from approved wait list clinics

DESCRIPTION: If the patient has been assigned to the Specific Clinic Wait List, enter the clinic that the patient is waiting for an appointment. The clinic must be active and must be assigned to the institution designated. It must be an active clinic in file 409.32.

CROSS-REFERENCE: 409.3^SC^MUMPS

1)= I \$D(X) S ^SDWL(409.3,"SC",\$P(^SDWL(409.32,  
X,0),U,1),DA)=""

2)= K ^SDWL(409.3,"SC",\$P(^SDWL(409.32,X,0),U,1),DA)

CROSS-REFERENCE: 409.3^SCC^MUMPS

1)= I \$D(X) S ^SDWL(409.3,"SCC",\$P(^SDWL(409.3,

DA,0),U,1),X,DA)=""

2)= K ^SDWL(409.3,"SCC",\$P(^SDWL(409.3,DA,0),U,1),X,DA)

409.3,8.5 WL SPECIFIC HOSPITAL LOCATION 0;24 POINTER TO HOSPITAL LOCATION F

ILE (#44)

LAST EDITED: APR 30, 2015

HELP-PROMPT: Select a hospital location

DESCRIPTION: This is the HOSPITAL LOCATION in which the WL SPECIFIC CLINIC points to.

CROSS-REFERENCE: 409.3^AE

1)= S ^SDWL(409.3,"AE",\$E(X,1,30),DA)=""

2)= K ^SDWL(409.3,"AE",\$E(X,1,30),DA)

This xref is used to find entries associated with a particular HOSPITAL LOCATION.

RECORD INDEXES: AD (#1659)

409.3,8.7 WL APPOINTMENT TYPE 0;26 POINTER TO APPOINTMENT TYPE FILE (#40

9.1) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select an appointment type.

DESCRIPTION: This field represents the appointment type for the appointment that is to be associated with this wait list request.

AUDIT: YES, ALWAYS

409.3,9 ORIGINATING USER 0;10 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 03, 2015

DESCRIPTION:

User that enters the patient to the wait list.

RECORD INDEXES: AC (#1658)

409.3,9.5 DATE/TIME ENTERED 3;4 DATE

INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 27, 2014

HELP-PROMPT: Enter a date. Time is optional.

DESCRIPTION: This is the Date and optional Time that this Wait List entry was entered.

RECORD INDEXES: AC (#1658)

409.3,10 PRIORITY 0;11 SET (Required)

'A' FOR ASAP;

'F' FOR FUTURE;

LAST EDITED: AUG 05, 2002

HELP-PROMPT: Select either ASAP which will set the desired date for the appointment as the current date or select Future which will allow you to enter a desired date (example: T+6M)

DESCRIPTION: If the patient is assigned to either the Service/Specialty or Specific Clinic Wait List, a priority of Future or ASAP (as soon as possible) must be entered. Future indicates that the patient needs an appointment in the future and a desired will be entered by the user. ASAP indicates that the patient needs an appointment before the currently next available appointment (as soon as a slot opens). The desired date for ASAP will be set by the system as the current date.

409.3,10.5 ENROLLMENT PRIORITY 0;25 SET

'1' FOR GROUP 1;

'2' FOR GROUP 2;

'3' FOR GROUP 3;  
'4' FOR GROUP 4;  
'5' FOR GROUP 5;  
'6' FOR GROUP 6;  
'7' FOR GROUP 7;  
'8' FOR GROUP 8;

LAST EDITED: SEP 23, 2014

HELP-PROMPT: Select an enrollment priority

DESCRIPTION: The ENROLLMENT PRIORITY field represents the Wait List Enrollment Priority.

409.3,11 REQUEST BY 0;12 SET (Required) (audited)

'1' FOR PROVIDER;  
'2' FOR PATIENT;

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Enter who requested the appointment - the patient or a provider

DESCRIPTION: If the patient is placed on a Service/Specialty or Specific Clinic Wait List type, the user must enter who requested the appointment – the patient or a provider.

AUDIT: YES, ALWAYS

409.3,12 PROVIDER 0;13 POINTER TO NEW PERSON FILE (#200)  
(audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: This is the provider that requested the patient's appointment.  
Must be an active provider in file 200.

DESCRIPTION: If the patient's appointment was requested by a provider, this is the provider that requested the patient's appointment. Must be an active provider in file 200.

AUDIT: YES, ALWAYS

409.3,13 SCHEDULED DATE OF APPT 0;23 DATE

INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 26, 2005

HELP-PROMPT: Enter date/time of the scheduled appointment for this request

DESCRIPTION: The Appointment date scheduled for a patient. This appointment may be used as a reason for closing Electronic Wait List entry.

TECHNICAL DESCRIPTOR: This is a date/time of the scheduled appointment related to this entry.

409.3,13.1 DATE APPT. MADE SDAPT;1 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: MAY 05, 2005

HELP-PROMPT: (No range limit on date)

DESCRIPTION: This is the date the appointment was created.

TECHNICAL DESCRIPTOR: The Appointment Creation Date. It corresponds to the DATE APPT. MADE field (#20) of the APPOINTMENT multiple (#1900) in the Patient file (#2).

409.3,13.2 APPT CLINIC SDAPT;2 POINTER TO HOSPITAL LOCATION FILE  
(#44)

LAST EDITED: JAN 04, 2005

HELP-PROMPT: Hospital Location the appointment is scheduled for.

DESCRIPTION: This is a clinic the appointment was created for.

TECHNICAL DESCRIPTOR: Pointer to the HOSPITAL LOCATION file (#44) of the related appointment.

409.3,13.3 APPT INSTITUTION SDAPT;3 POINTER TO INSTITUTION FILE (#4)

LAST EDITED: JAN 04, 2005

DESCRIPTION: The institution the clinic appointment belongs to.

**TECHNICAL DESCRIPTOR:** A pointer from the Hospital Location file of the scheduled appointment to the Institution file (#4).

**409.3,13.4 APPT STOP CODE SDAPT;4 POINTER TO CLINIC STOP FILE (#40.7)**

LAST EDITED: MAY 06, 2005

DESCRIPTION: The stop code/specialty of a clinic associated with the patient appointment.

**TECHNICAL DESCRIPTOR:** This is the primary Stop Code Number pointer to the Stop Code file (#40.7).

**409.3,13.5 APPT CREDIT STOP CODE SDAPT;5 POINTER TO CLINIC STOP FILE (#40.7)**

LAST EDITED: JAN 04, 2005

DESCRIPTION: The credit stop code optionally assigned to the Hospital Location file associated with the scheduled appointment.

**TECHNICAL DESCRIPTOR:** This is the secondary (optional) Stop Code Number pointer to the Stop Code file (#40.7). This stop code is assigned to the Hospital Location file associated with the scheduled appointment.

**409.3,13.6 APPT STATION NUMBER SDAPT;6 FREE TEXT**

INPUT TRANSFORM: K:\$L(X)>6!(\$L(X)<3)!'(X?3N.E) X

LAST EDITED: APR 28, 2005

HELP-PROMPT: Answer must be 3-6 characters in length.

DESCRIPTION: This is the 3 digit station number assigned to the facility plus optional modifiers.

**TECHNICAL DESCRIPTOR:** This is the Station Number field (#99) of the Institution file (#4) associated with the scheduled appointment.

**409.3,13.7 APPT CLERK SDAPT;7 POINTER TO NEW PERSON FILE (#200)**

LAST EDITED: JAN 04, 2005

DESCRIPTION: This is a person who assigned the appointment to the EWL entry.

TECHNICAL DESCRIPTOR: This is a pointer to the New Person file and it represents a person who entered the scheduled appointment into the EWL.

409.3,13.8 APPT STATUS SDAPT;8 SET

'R' FOR Scheduled/Kept;  
'T' FOR Inpatient;  
'NS' FOR No-Show;  
'NSR' FOR No\_Show, Rescheduled;  
'CP' FOR Canceled by Patient;  
'CPR' FOR Canceled by Patient, Rescheduled;  
'CC' FOR Canceled by Clinic;  
'CCR' FOR Canceled by Clinic, Rescheduled;  
'NT' FOR No Action Taken;

LAST EDITED: JAN 12, 2005

DESCRIPTION: This is an appointment status.

409.3,14 SERVICE CONNECTED PERCENTAGE SC;1 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>100)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: JUN 27, 2005

HELP-PROMPT: Type a Number between 0 and 100, 0 Decimal Digits

409.3,15 SERVICE CONNECTED PRIORITY SC;2 SET

'0' FOR NO;  
'1' FOR YES;  
LAST EDITED: JUN 27, 2005  
RECORD INDEXES: GSB (#1944)

409.3,16 DO NOT REMOVE DATE 0;14 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUN 18, 2002

DESCRIPTION: If the patient has met the criteria that should remove him/her from the wait list but the user does not want the patient removed

409.3,17 USER ENTERING NO REMOVE 0;15 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: JUN 18, 2002

DESCRIPTION: User entering 'Do Not Remove'

409.3,18 DO NOT REMOVE REASON DNR;1 SET

'A' FOR Appointment Criteria Not Met;

'P' FOR Patient wants another appointment;

'PR' FOR Provider wants another appointment;

'O' FOR Other;

LAST EDITED: OCT 09, 2002

HELP-PROMPT: Enter the reason for NOT removing the patient from the wait list.

DESCRIPTION: Reason why the patient is not removed from Waiting List  
(Sch/PCMM)

409.3,18.1 DO NOT REMOVE COMMENT DNR;2 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>50!(\$L(X)<1) X

LAST EDITED: AUG 21, 2002

HELP-PROMPT: Answer must be 1-50 characters in length.

DESCRIPTION: Free Text comment (1-50 characters) for why wait list entry should not be removed when an appointment has met the wait list criteria.

409.3,19 DATE DISPOSITIONED DIS;1 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUN 18, 2002

DESCRIPTION: Date patient is dispositioned from the Wait List(Sch/PCMM)

409.3,20 DISPOSITIONED BY DIS;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: JUN 18, 2002

DESCRIPTION: User who dispositioned patient from Wait List(Sch/PCMM)

409.3,21 DISPOSITION DIS;3 SET

'D' FOR DEATH;

'NC' FOR REMOVED/NON-VA CARE;

'SA' FOR REMOVED/SCHEDULED-ASSIGNED;

'CC' FOR REMOVED/VA CONTRACT CARE;

'NN' FOR REMOVED/NO LONGER NECESSARY;

'ER' FOR ENTERED IN ERROR;

'TR' FOR TRANSFERRED;

'CL' FOR CHANGED CLINIC;

LAST EDITED: MAY 11, 2006

HELP-PROMPT: Select a reason for removing the patient the wait list.

DESCRIPTION: Reason patient has been dispositioned from Wait List(Sch/PCMM)

409.3,22 DESIRED DATE OF APPOINTMENT 0;16 DATE (Required)

CID/PREFERRED DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: NOV 16, 2015

HELP-PROMPT: Enter the desired date for the appointment. The date can be imprecise.

DESCRIPTION: If a patient is placed on a Service/Specialty or Clinic Specific Wait List type, the date the appointment is needed/desired. If the priority is ASAP, this is the date the patient is placed on the Wait List(Sch/PCMM). If the priority is Future, the user enters the date that the patient/provider needs an appointment scheduled. The field title contains

CID/PREFERRED DATE', where 'CID' stands for Clinically Indicated Date. This is an alternate name for the field name used for reports and to present to users when adding and displaying appointment information in the Scheduling package.

**FIELD INDEX:**   GCC (#1946)   REGULAR   IR

**LOOKUP & SORTING**

**Short Descr:** SORT BY CLINIC ID AND CID/PREFERRED DATE

**Description:** This xref is used to sort Wait List entries by the Clinic ID and the CID/PREFERRED DATE field (#22). The Clinic ID comes from the CLINIC field (#.01) of the SD WL CLINIC LOCATION file (#409.32). The SD WL CLINIC LOCATION pointer is in the WL SPECIFIC CLINIC field (#8) of the SD WAIT LIST file (#409.3).

**Set Logic:** S ^SDWL(409.3,"GCC",X(1),X(2),DA)=""

**Kill Logic:** K ^SDWL(409.3,"GCC",X(1),X(2),DA)

**Whole Kill:** K ^SDWL(409.3,"GCC")

X(1): Computed Code: S X=\$P(\$G(^SDWL(409.32,+\$P(\$G(^S

DWL(409.3,DA,0)),U,9),0)),U,1)

(Subscr 1) (forwards)

X(2): DESIRED DATE OF APPOINTMENT (409.3,22)

(Subscr 2) (forwards)

**RECORD INDEXES:**   GSC (#1941)

409.3,23   CURRENT STATUS    0;17 SET

'O' FOR OPEN;

'C' FOR CLOSED;

**LAST EDITED:**   DEC 02, 2014

**HELP-PROMPT:**   Enter O or OPEN if the wait list entry is open. Enter C or CLOSED if the wait list entry is closed.

**DESCRIPTION:**   If the Wait List(Sch/PCMM) entry is dispositioned the status = CLOSED, otherwise the Wait List(Sch/PCMM) entry status = OPEN

**CROSS-REFERENCE:** 409.3^E^MUMPS

1)= S:\$P(^SDWL(409.3,DA,0),U,2)="" ^SDWL(409.3

, "E",X,\$P(^SDWL(409.3,DA,0),U,2),DA)=""

2)= K:\$P(^SDWL(409.3,DA,0),U,2)=''" ^SDWL(409.3  
, "E",X,\$P(^SDWL(409.3,DA,0),U,2),DA)

This xref is used to speed up the lookup of open or closed wait list entries for a given time range.

409.3,24 AUDIT POINTER AU;0 Multiple #409.324

409.324,.01 AUDIT POINTER 0;1 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>99999999999)!(X<1)!(X?.E1"."1N.N)

X

LAST EDITED: JUL 13, 2002

HELP-PROMPT: Type a Number between 1 and 9999999999, 0 Decimal Digits

CROSS-REFERENCE: 409.324^B

1)= S ^SDWL(409.3,DA(1),"AU","B",\$E(X,1,30),DA)=""

2)= K ^SDWL(409.3,DA(1),"AU","B",\$E(X,1,30),DA)

409.3,25 COMMENTS 0;18 FREE TEXT (audited)

INPUT TRANSFORM: K:\$L(X)>60!(\$L(X)<1) X

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Answer must be 1-60 characters in length.

DESCRIPTION: Free Text field to enter information related to the appointment that needs to be made. example: see progress note date 5/01/02 this would direct the scheduling clerk to a note that may contain lab,xray orders that need to be completed prior to the appointment.

AUDIT: YES, ALWAYS

409.3,26 PACKAGE ORIGINATING 0;19 SET

'SD' FOR SCHEDULING;

'PCMM' FOR PCMM;

LAST EDITED: JUN 28, 2002

409.3,27 EWL ENROLLEE STATUS 0;20 SET

'N' FOR NEW;  
'E' FOR ESTABLISHED;  
'P' FOR PRIOR;  
'U' FOR UNDETERMINED;

LAST EDITED: AUG 15, 2002

DESCRIPTION: A set of code that is determined by a formula looking at date patient last seen (file #391.91 and enrollment date from file #27.11)

409.3,27.1 EWL ENROLLEE DATE USED 1;3 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: MAY 09, 2006

DESCRIPTION: This field contains the actual date used to calculate the number of days between the current date and the last treatment or enrollment date.

409.3,27.2 EWL ENROLLEE DATABASE FILE 1;4 SET

'0' FOR NONE;  
'1' FOR TREATING FACILITY;  
'2' FOR PATIENT ENROLLMENT;  
'3' FOR OUTPATIENT ENCOUNTER;  
'4' FOR KLF DOWNLOAD;

LAST EDITED: MAY 22, 2006

DESCRIPTION: This field is used to track the file used to obtain either the last treatment date (TREATING FACILITY file #391.52) or the enrollment date (PATIENT ENROLLMENT file #27.11). It is used internally only for audit purposes.

409.3,28 EDITING USER 0;21 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: SEP 30, 2002

409.3,29 REOPEN REASON 1;1 SET

'CC' FOR INACTIVATED CLINIC;  
'CA' FOR CANCELED APPOINTMENT;  
'DE' FOR DATE OF DEATH ERROR;  
'O' FOR OTHER;

LAST EDITED: APR 26, 2005

DESCRIPTION: The reason why the closed EWL entry was open.

TECHNICAL DESCRIPTOR: This field has been added with patch SD\*5.3\*327. It is populated by the EWL background job.

409.3,30 REOPEN COMMENT 1;2 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>72!(\$L(X)<3) X

LAST EDITED: MAR 11, 2005

HELP-PROMPT: Answer must be 3-72 characters in length

DESCRIPTION: The comment used optionally with the Reopen Reason if applicable,

409.3,32 REJECTION FLAG FLAGS;2 SET

'1' FOR REJECTED;

LAST EDITED: MAY 13, 2006

409.3,33 SCHEDULING REMINDER FLAG FLAGS;3 SET

'Y' FOR TICKLER FLAG;

LAST EDITED: JUN 05, 2006

409.3,34 INTRA TRANSFER FLAG FLAGS;4 SET

'1' FOR INTRA TRANSFER FLAG;

LAST EDITED: APR 27, 2006

409.3,36 120 DAYS FIELD FLAGS;6 SET

'1' FOR NO APPOINTMENT;

'2' FOR WITH APPOINTMENT;

LAST EDITED: APR 27, 2006

409.3,37 CHANGED CLINIC PARENT POINTER 0;22 POINTER TO SD WAIT LIST  
FILE (

#409.3)

LAST EDITED: MAY 25, 2006

DESCRIPTION: When an EWL entry is closed with a disposition code of CL:  
CLINIC CHANGE, the process involves the creation of a new EWL entry with details  
copied from the parent. This is a pointer back to that parent entry.

409.3,38 MULTI TEAM FLAG FLAGS;5 SET

'1' FOR MULTI TEAM LOCATION;

'0' FOR SINGL TEAM LOCATION;

LAST EDITED: MAY 24, 2006

409.3,39 120 DAY APPT CREATED FLAGS;1 SET

'1' FOR APPT CREATED;

LAST EDITED: MAY 29, 2006

409.3,41 MULTIPLE APPOINTMENT RTC 3;1 SET

'0' FOR NO;

'1' FOR YES;

LAST EDITED: SEP 02, 2014

**HELP-PROMPT:** Select 1 or YES if multiple appointments are needed. Select 0 or NO if multiple appointments are not needed.

**DESCRIPTION:** If set to NO (0 zero), Multiple Appointment (Return to Clinic) are not scheduled. The MULT APPT RTC INTERVAL and MULT APPT NUMBER fields will not be used. If set to YES (1), Multiple Appointment (Return to Clinic) could be scheduled.

#### 409.3,42 MULT APPT RTC INTERVAL 3;2 NUMBER

**INPUT TRANSFORM:** K:+X'=X!(X>365)!(X<0)!(X?.E1"."1N.N) X

**LAST EDITED:** SEP 04, 2014

**HELP-PROMPT:** Enter a number between 0 and 365, 0 decimal digits.

**DESCRIPTION:** The MULT APPT RTC INTERVAL represents the number of Days between appointments. This field is only used if MULTIPLE APPOINTMENT RTC is defined as YES. RTC=Return To Clinic

#### 409.3,43 MULT APPT NUMBER 3;3 NUMBER

**INPUT TRANSFORM:** K:+X'=X!(X>100)!(X<0)!(X?.E1"."1N.N) X

**LAST EDITED:** SEP 04, 2014

**HELP-PROMPT:** Enter a number between 0 and 100, 0 decimal digits.

**DESCRIPTION:** This is the number of appoints that may be needed.

This field is only used if MULTIPLE APPOINTMENT RTC is defined as YES. RTC=Return To Clinic

#### 409.3,43.5 MRTC CALC PREF DATES 5;0 DATE Multiple #409.37

**DESCRIPTION:** These are dates that are calculated by the client for multiple appointments based from the DESIRED DATE OF APPOINTMENT.

#### 409.37,.01 MRTC CALC PREF DATES 0;1 DATE (Multiply asked)

**INPUT TRANSFORM:** S %DT="EX" D ^%DT S X=Y K:Y<1 X

**LAST EDITED:** NOV 13, 2014

**HELP-PROMPT:** Enter a date

**DESCRIPTION:** These are dates that are calculated by the client for multiple appointments based from the DESIRED DATE OF APPOINTMENT.

**CROSS-REFERENCE:** 409.37^B

- 1)= S ^SDWL(409.3,DA(1),5,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDWL(409.3,DA(1),5,"B",\$E(X,1,30),DA)

409.3,44 PATIENT CONTACT 4;0 DATE Multiple #409.344

**DESCRIPTION:** This multiple records the patient contact events.

409.344,.01 DATE ENTERED 0;1 DATE

**INPUT TRANSFORM:** S %DT="ETX" D ^%DT S X=Y K:Y<1 X

**LAST EDITED:** NOV 14, 2014

**HELP-PROMPT:** Enter a date. Time is optional.

**DESCRIPTION:** This DATE ENTERED field represents the Date that an attempt was made to contact the patient regarding 'this' appointment. The time can also be optionally entered.

**CROSS-REFERENCE:** 409.344^B

- 1)= S ^SDWL(409.3,DA(1),4,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDWL(409.3,DA(1),4,"B",\$E(X,1,30),DA)

**RECORD INDEXES:** AF (#1677) (WHOLE FILE #409.3)

409.344,2 ENTERED BY USER 0;2 POINTER TO NEW PERSON FILE (#200)

**LAST EDITED:** OCT 01, 2014

**HELP-PROMPT:** Select a provider

**DESCRIPTION:** The ENTERED BY USER field points to the NEW PERSON file and represents the user/provider that made an attempt to contact the patient regarding 'this' appointment.

RECORD INDEXES: AF (#1677) (WHOLE FILE #409.3)

409.344,3 ACTION 0;3 SET

'C' FOR CALLED;  
'M' FOR MESSAGE LEFT;  
'L' FOR LETTER;

LAST EDITED: APR 21, 2015

HELP-PROMPT: Select an action

DESCRIPTION: The ACTION field represents the attempt that was made to contact the patient regarding 'this' appointment.

C = Called

M = Message Left

L = LETTER

409.344,4 PATIENT PHONE 0;4 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<4) X

LAST EDITED: NOV 13, 2014

HELP-PROMPT: Answer must be 4-20 characters in length.

DESCRIPTION: This is the phone number used to contact the patient.

409.3,45 VS AUDIT 6;0 DATE Multiple #409.345

(Add New Entry without Asking)

DESCRIPTION: This multiple is used as an audit trail of specific fields for VistA Scheduling GUI.

409.345,.01 DATE EDITED 0;1 DATE (Multiply asked)

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: DEC 01, 2015

HELP-PROMPT: Enter a date and time

**DESCRIPTION:** This is the Date/Time in which the edits represented by this entry were made.

**CROSS-REFERENCE:** 409.345^B

- 1)= S ^SDWL(409.3,DA(1),6,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDWL(409.3,DA(1),6,"B",\$E(X,1,30),DA)

409.345,1      EDITED BY      0;2 POINTER TO NEW PERSON FILE (#200)

**LAST EDITED:** DEC 01, 2015

**HELP-PROMPT:** Enter a user

**DESCRIPTION:** This is the user that edited the current VS AUDIT entry.

409.345,2      WL SPECIFIC CLINIC  0;3 POINTER TO SD WL CLINIC LOCATION FILE  
(#409.32)

**LAST EDITED:** DEC 01, 2015

**HELP-PROMPT:** Select a clinic from the approved wait list clinics

**DESCRIPTION:** This field represents the specific clinic from SD WL CLINIC LOCATION.

409.345,3      WL SPECIFIC HOSPITAL LOCATION 0;4 POINTER TO HOSPITAL  
LOCATION

FILE (#44)

**LAST EDITED:** DEC 01, 2015

**HELP-PROMPT:** Select a hospital location

**DESCRIPTION:** This is the HOSPITAL LOCATION in which the WL SPECIFIC CLINIC points to.

409.345,4      WL SERVICE/SPECIALTY 0;5 POINTER TO SD WL SERVICE/SPECIALTY  
FILE (#409.31)

**LAST EDITED:** DEC 01, 2015

HELP-PROMPT: Select a Service/Specialty

DESCRIPTION: This field represents the Service/Specialty that matches the appointment that this wait list entry is waiting for.

### **3.6.4. #403.5 – RECALL REMINDERS**

STANDARD DATA DICTIONARY #403.5 -- RECALL REMINDERS FILE

FEB 7,2018@14:00:41 PAGE 1

STORED IN ^SD(403.5, (18326 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV UCI:  
CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This file contains records for all active Recall Reminders. Once a patient has called to make an appointment, the entry is then moved from this file to RECALL REMINDERS REMOVED file. Patients should not be entered into this file when their future appointment is less than 30 days. The records are maintained by Recall Date and patient name.

DD ACCESS: @

RD ACCESS:

WR ACCESS:

DEL ACCESS: @

LAYGO ACCESS: @

AUDIT ACCESS: @

(NOTE: Kernel's File Access Security has been installed in this UCI.)

IDENTIFIED BY: CLINIC (#4.5)[R], RECALL DATE (#5)[R]

POINTED TO BY: APPT REQUEST TYPE field (#.22) of the SDEC APPOINTMENT File

(#409.84)

CROSS

REFERENCED BY: PATIENT NAME(B), PROVIDER(C), RECALL DATE(D), CLINIC(E)

INDEXED BY: PATIENT NAME (A66201), DATE/TIME RECALL ADDED & USER WHO ENTERED RECALL (AC)

403.5,.01 PATIENT NAME 0;1 POINTER TO PATIENT FILE (#2)  
(Required)

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Enter the name of the Patient you wish to enter a Recall for.

DESCRIPTION: Recall Reminder patient name this is a pointer to the patient file #2.

CROSS-REFERENCE: 403.5^B

1)= S ^SD(403.5,"B",\$E(X,1,30),DA)=""

2)= K ^SD(403.5,"B",\$E(X,1,30),DA)

Used for checking to see if the patient is in the Recall file and display recall information before a new entry is made.

FIELD INDEX: A66201 (#838) MUMPS IR ACTION

Short Descr: Save copy of record before deletion.

Description: Before deleting a record from this file, save a copy of it in file 403.56. Deletion can be either because a clerk deletes a patient from the recall list, or because a patient has been given an appointment in a clinic requested by the recall list and therefore is deleted by the nightly job. We save this information so that we can look back at appointments given to patients and see how timely the appointments were.

Set Logic: Q

Kill Logic: D DELETE^SDRRISRU

Kill Cond: S X=(X1=''"&(X2='"))

X(1): PATIENT NAME (403.5,.01) (forwards)

403.5,2 ACCESSION# 0;3 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>25!(\$L(X)<1) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Answer must be 1-25 characters in length.

DESCRIPTION: This is the lab order number or the lab accession number if known.

403.5,2.5 COMMENT 0;7 FREE TEXT (audited)

INPUT TRANSFORM: K:\$L(X)>80!(\$L(X)<1) X

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Answer must be 1-80 characters in length.

DESCRIPTION: Comments needed for this recall entry.

AUDIT: YES, ALWAYS

403.5,2.6 FAST/NON-FASTING 0;8 SET (audited)

'f' FOR FASTING;

'n' FOR NON-FASTING;

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Are the labs Fasting or Non-Fasting? leave blank if no labs have been ordered.

DESCRIPTION: If the patient has had lab tests ordered for this recall visit, select either Fasting or Non-Fasting labs. If the patient has no labs orders leave blank.

AUDIT: YES, ALWAYS

403.5,3 TEST/APP. 0;4 POINTER TO RECALL REMINDERS APPT TYPE  
FILE (#403.51) (Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the type of Recall visit

DESCRIPTION: This is the type of Recall Visit that is assigned for this entry.

AUDIT: YES, ALWAYS

403.5,4 PROVIDER 0;5 POINTER TO RECALL REMINDERS PROVIDERS  
FILE (#403.54) (Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the provider for this Recall entry.

DESCRIPTION: The provider who is assigned for this Recall entry.

AUDIT: YES, ALWAYS

CROSS-REFERENCE: 403.5^C

1)= S ^SD(403.5,"C",\$E(X,1,30),DA)=""

2)= K ^SD(403.5,"C",\$E(X,1,30),DA)

Used for printing of the cards/letter and reports by Provider or Recall Team.

403.5,4.5 CLINIC 0;2 POINTER TO HOSPITAL LOCATION FILE (#44  
) (Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the clinic that this Recall will be linked to.

DESCRIPTION: This is the Hospital Location which this patient will have the Recall entry assigned.

AUDIT: YES, ALWAYS

CROSS-REFERENCE: 403.5^E

1)= S ^SD(403.5,"E",\$E(X,1,30),DA)=""

2)= K ^SD(403.5,"E",\$E(X,1,30),DA)

Used during the display of Recall information and for selecting the printing of cards/letters, Also, used in selecting reports printed by Recall clinic.

403.5,4.7 LENGTH OF APPT. 0;9 NUMBER (audited)

INPUT TRANSFORM: K:+X'=X!(X>120)!(X<10)!(X?.E1"."1N.N) X

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Type a Number between 10 and 120, 0 Decimal Digits

DESCRIPTION: The length of appointment (in minutes) that will be required once scheduled.

AUDIT: YES, ALWAYS

403.5,5 RECALL DATE 0;6 DATE (Required)

INPUT TRANSFORM: S %DT="EFX",%DT(0)=\$\$FMADD^XLFDT(DT,1) D ^%DT  
K %DT(0) S X=Y K:Y<1 X

LAST EDITED: JAN 14, 2016

HELP-PROMPT: Enter the Recall Date that the provider has requested for this patient.

DESCRIPTION: Recall Date is a date the provider has requested the patient to return. This must be a future exact date.

UNEDITABLE

NOTES: XXXX--CANT BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 403.5^D

1)= S ^SD(403.5,"D",\$E(X,1,30),DA)=""

2)= K ^SD(403.5,"D",\$E(X,1,30),DA)

Used in selecting a date range for printing Recall cards/letters and in all Recall reports.

CROSS-REFERENCE: ^^TRIGGER^403.5^7

1)= K DIV S DIV=X,D0=DA,DIV(0)=D0 S Y(1)=\$S(\$D(

^SD(403.5,D0,0)):^(0),1:"") S X=\$P(Y(1),U,11),X =X S DIU=X K Y S

X=DIV S X=DUZ S DIH=\$G(^SD(403.5,DIV(0),0)),DIV=X S \$P(^0,U,11)=DIV,DIH=403  
.5,DIG=7 D ^DICR

2)= Q

CREATE VALUE)= S X=DUZ

DELETE VALUE)= NO EFFECT

FIELD)= #7

Used to update USER THAT ENTER RECALL field #7

#### 403.5,5.5    RECALL DATE (PER PATIENT) 0;12 DATE

INPUT TRANSFORM: S %DT="EFX",%DT(0)=\$\$FMADD^XLFDT(DT,1) D ^%DT  
K %DT(0) S X=Y K:Y<1 X

LAST EDITED: JAN 14, 2016

HELP-PROMPT: Enter the Date that the patient is requesting for their Recall Visit.

DESCRIPTION: This is the Recall Date that the patient is requesting. It can be different from the Recall Date, which is what the Provider has requested. This must be a future exact date.

UNEDITABLE

NOTES: XXXX--CANT BE ALTERED EXCEPT BY PROGRAMMER

#### 403.5,6    DATE REMINDER SENT 0;10 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Date letter/card first printed.

DESCRIPTION: This is the date that the first letter/card was printed and sent to the Veteran.

#### 403.5,7    USER WHO ENTERED RECALL 0;11 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 03, 2015

HELP-PROMPT: New person who entered or edited Recall entry

DESCRIPTION: User who enter or edit a Recall entry.

NOTES: TRIGGERED by the RECALL DATE field of the RECALL REMINDERS File RECORD INDEXES: AC (#1656)

403.5,7.5 DATE/TIME RECALL ADDED 0;14 DATE

INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:(Y<1)!(X>\$E(\$\$NOW^XLF  
DT,1,12)) X

LAST EDITED: JAN 14, 2016

HELP-PROMPT: Enter a date and time not in the future

DESCRIPTION: Date and Time this recall reminder was added. Cannot be in the future.

UNEDITABLE

NOTES: XXXX--CANT BE ALTERED EXCEPT BY PROGRAMMER

RECORD INDEXES: AC (#1656)

403.5,8 SECOND PRINT 0;13 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Date for second printing of card or letter

DESCRIPTION: This is the date that the second letter/card was printed and sent.

### 3.6.5. #403.56 – RECALL REMINDERS REMOVED

STANDARD DATA DICTIONARY #403.56 -- RECALL REMINDERS REMOVED FILE

FEB 7,2018@14:01:01 PAGE 1

STORED IN ^SD(403.56, (19304 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This file holds records deleted from the RECALL REMINDERS [#403.5] file, whether deleted by the user or because they were given appointments.

DD ACCESS: @

RD ACCESS:

WR ACCESS:

DEL ACCESS: @

LAYGO ACCESS: @

AUDIT ACCESS: @

(NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS

REFERENCED BY: PATIENT NAME(B), RECALL DATE(C)

INDEXED BY: DATE/TIME RECALL ADDED & USER WHO ENTERED RECALL (AC), CLINIC & RECALL DATE (D)

403.56,.01 PATIENT NAME 0;1 POINTER TO PATIENT FILE (#2)

(Required)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select Recall Reminder patient.

DESCRIPTION: Recall Reminder Patient who has been removed from the Recall Reminder file.

CROSS-REFERENCE: 403.56^B

1)= S ^SD(403.56,"B",\$E(X,1,30),DA)=""

2)= K ^SD(403.56,"B",\$E(X,1,30),DA)

Look up by Recall patient name.

403.56,2 ACCESSION # 0;3 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>25!(\$L(X)<1) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Answer must be 1-25 characters in length.

DESCRIPTION: Lab order number or accession number moved from the Recall File.

403.56,2.5 COMMENT 0;7 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>80!(\$L(X)<1) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Answer must be 1-80 characters in length.

DESCRIPTION: Comments that have been moved from the Recall Reminder File.

403.56,2.6 FAST / NON-FASTING 0;8 SET

'f' FOR FASTING;

'n' FOR NON-FASTING;

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Either f - fasting, n - non fasting or blank for no labs

DESCRIPTION: Fasting and Non fasting information moved from the Recall Reminder file.

403.56,3 TEST/APP 0;4 POINTER TO RECALL REMINDERS APPT TYPE

FILE (#403.51)

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Select from the available list of Test/App types

DESCRIPTION: This is the type of Recall Visit that is assigned for this entry and has been moved from the Recall Reminder file.

403.56,4 PROVIDER 0;5 POINTER TO RECALL REMINDERS PROVIDERS

FILE (#403.54)

LAST EDITED: APR 27, 2015

HELP-PROMPT: Select from the available list of Recall Providers

DESCRIPTION: The provider who is assigned for this Recall entry.

403.56,4.5 CLINIC 0;2 POINTER TO HOSPITAL LOCATION FILE (#44)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select the clinic at which the patient had the recall entry.

DESCRIPTION: Select from the Hospital Location for this Recall entry.

RECORD INDEXES: D (#839)

403.56,4.7 LENGTH OF APPT. 0;9 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>120)!(X<10)!(X?.E1"."1N.N) X

LAST EDITED: JUL 15, 2008

HELP-PROMPT: Type a Number between 10 and 120, 0 Decimal Digits

DESCRIPTION: The length of appointment that will be required once scheduled.

403.56,5 RECALL DATE 0;6 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 27, 2015

HELP-PROMPT: Enter the appt date requested by the Provider.

DESCRIPTION: Recall date moved from Recall Reminder file once the patient had been removed.

CROSS-REFERENCE: 403.56^C

1)= S ^SD(403.56,"C",\$E(X,1,30),DA)=""

2)= K ^SD(403.56,"C",\$E(X,1,30),DA)

look up by Recall date for entries no longer active.

RECORD INDEXES: D (#839)

403.56,6 DATE REMINDER SENT 0;10 DATE

INPUT TRANSFORM: S %DT="E" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Enter the date the Recall card or letter was printed and sent.

DESCRIPTION: Date the reminder was sent to the patient.

403.56,7 USER WHO ENTERED RECALL 0;11 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 03, 2015

HELP-PROMPT: Select user who last entered or edited the recall entry.

DESCRIPTION: The person who entered or edited Recall entry.

RECORD INDEXES: AC (#1657)

403.56,7.5 DATE/TIME RECALL ADDED 0;12 DATE

INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 03, 2015

HELP-PROMPT: Enter a date and time

DESCRIPTION: Date and time this recall reminder was added.

RECORD INDEXES: AC (#1657)

403.56,101 APPT DATE 1;1 DATE

INPUT TRANSFORM: S %DT="ESTXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Enter date of scheduled appointment.

DESCRIPTION: If the patient was deleted from the recall list because s/he got an appointment, this is the date/time of the appointment.

403.56,102 APPT CLINIC 1;2 POINTER TO HOSPITAL LOCATION FILE (#44)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select the clinic matching the Recall entry.

DESCRIPTION: If the patient was deleted from the recall list because s/he got an appointment, this is the clinic of the appointment.

403.56,201 DELETE DATE 2;1 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Enter the date the entry was cancelled or deleted.

DESCRIPTION: If the patient was deleted from the recall list because a clerk deleted him/her, this is the date/time of the deletion.

403.56,202 DELETE CLERK 2;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select the clerk who deleted or cancelled the Recall entry.

DESCRIPTION: If the patient was deleted from the recall list because a clerk deleted him/her, this is the clerk who deleted the patient.

403.56,203 DELETE REASON 2;3 SET

'1' FOR FAILURE TO RESPOND;

'2' FOR MOVED;

'3' FOR DECEASED;

'4' FOR DOESN'T WANT VA SERVICES;

'5' FOR RECEIVED CARE AT ANOTHER VA;

'6' FOR OTHER;

'7' FOR APPT SCHEDULED;

LAST EDITED: JUL 17, 2008

HELP-PROMPT: Select the reason the entry was deleted or cancelled.

DESCRIPTION: The reason why a patient was removed from Recall.

### **3.6.6. #409.81 – SDEC APPLICATION FILE**

STANDARD DATA DICTIONARY #409.81 -- SDEC APPLICATION FILE

FEB 7,2018@14:34:35 PAGE 1

STORED IN ^SDEC(409.81, \*\*\* NO DATA STORED YET \*\*\* SITE:  
TEST.CHEYENNE.MED.VA

.GOV UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where Versions and Builds are recorded for Clinic Scheduling.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS

REFERENCED BY: MAJOR VERSION(B)

409.81,.01 MAJOR VERSION 0;1 FREE TEXT (Required)

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<1)!'(X'?1P.E) X

LAST EDITED: AUG 08, 2014

HELP-PROMPT: Answer must be 1-30 characters in length.

DESCRIPTION: Major part of a version number. i.e. for version 1.0, 1 is the Major Version; 0 is the Minor version

CROSS-REFERENCE: 409.81^B

1)= S ^SDEC(409.81,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.81,"B",\$E(X,1,30),DA)

409.81,.02 MINOR VERSION 0;2 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<1) X

LAST EDITED: AUG 08, 2014

HELP-PROMPT: Answer must be 1-30 characters in length.

DESCRIPTION: Major part of a version number. i.e. for version 1.0, 1 is the Major Version; 0 is the Minor version

409.81,.03 BUILD 0;3 DATE

INPUT TRANSFORM: S %DT="ET" D ^%DT S X=Y K:Y<1 X

LAST EDITED: AUG 08, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: Build date is the date of the current build of this Major.Minor version.

### 3.6.7. #409.822 – SDEC ACCESS GROUP

STANDARD DATA DICTIONARY #409.822 -- SDEC ACCESS GROUP FILE

FEB 7,2018@14:34:53 PAGE 1

STORED IN ^SDEC(409.822, \*\*\* NO DATA STORED YET \*\*\* SITE:  
TEST.CHEYENNE.MED.V

A.GOV UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where Access Groups are defined. These Groups are sometimes termed as 'department'. These are used to 'group' access types to tie together a group of Resources that may be selected from.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: ACCESS GROUP field (#.01) of the SDEC ACCESS GROUP TYPE File  
(#409.824)

CROSS

REFERENCED BY: ACCESS GROUP(B)

409.822,.01 ACCESS GROUP      0;1 FREE TEXT (Required)

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<3)!'(X'?1P.E) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Answer must be 3-30 characters in length.

DESCRIPTION: The name of this access group.

CROSS-REFERENCE: 409.822^B

1)= S ^SDEC(409.822,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.822,"B",\$E(X,1,30),DA)

### **3.6.8. #409.823 – SDEC ACCESS TYPE**

STANDARD DATA DICTIONARY #409.823 -- SDEC ACCESS TYPE FILE

FEB 7,2018@14:35:05 PAGE 1

STORED IN ^SDEC(409.823, (3 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where Access Types are defined. The Resource object points to this file. This is where the Group (or department) is linked to a resource and where the colors are defined for the calendar.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: ACCESS TYPE field (#.05) of the SDEC ACCESS BLOCK File (#409.821)

ACCESS TYPE field (#.02) of the SDEC ACCESS GROUP TYPE File (#409.824)

CROSS REFERENCED BY: ACCESS TYPE NAME(B)

409.823,.01 ACCESS TYPE NAME 0;1 FREE TEXT (Required)

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<3)!'(X'?1P.E) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Answer must be 3-30 characters in length.

DESCRIPTION: The name of this access type.

CROSS-REFERENCE: 409.823^B

1)= S ^SDEC(409.823,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.823,"B",\$E(X,1,30),DA)

409.823,.02 INACTIVE 0;2 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if this access type is inactive. Enter 0 or NO if this access type is active.

DESCRIPTION: Yes/No field indicating that this access type has been inactivated.

409.823,.03 DEPARTMENT NAME 0;3 POINTER TO SDEC RESOURCE GROUP FILE (#409.832)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select a department

DESCRIPTION: A Resource Group can also be referred to as a department. This is the Resource Group that this access type belongs to.

409.823,.04 DISPLAY COLOR 0;4 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<1) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Answer must be 1-30 characters in length.

DESCRIPTION: Free-Text name of the color used to display the block for this access type.

409.823,.05 RED 0;5 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>255)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Type a number between 0 and 255, 0 decimal digits.

DESCRIPTION: This is the numeric color code for the degree of the RED rgb attribute used in displaying a block for this access type.

409.823,.06 GREEN 0;6 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>255)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Type a number between 0 and 255, 0 decimal digits.

DESCRIPTION: This is the numeric color code for the degree of the GREEN rgb attribute used in displaying a block for this access type.

409.823,.07 BLUE 0;7 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>255)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Type a number between 0 and 255, 0 decimal digits.

DESCRIPTION: This is the numeric color code for the degree of the BLUE rgb attribute used in displaying a block for this access type.

409.823,.08 PREVENT ACCESS 0;8 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if the client should prevent access to this access type. Enter 0 or NO if the client should be allowed access to this access type.

DESCRIPTION: This field is used by the client to show this access type as a read-only block.

FILES POINTED TO FIELDS

SDEC RESOURCE GROUP (#409.832) DEPARTMENT NAME (#.03)

### 3.6.9. #409.824 – SDEC ACCESS GROUP TYPE

STANDARD DATA DICTIONARY #409.824 -- SDEC ACCESS GROUP TYPE FILE

FEB 7,2018@14:35:26 PAGE 1

STORED IN ^SDEC(409.824, \*\*\* NO DATA STORED YET \*\*\* SITE:  
TEST.CHEYENNE.MED.V

A.GOV UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where Access Groups and Access Types are paired together. This is used to group Resources.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS REFERENCED BY: ACCESS GROUP(B)

409.824,.01 ACCESS GROUP 0;1 POINTER TO SDEC ACCESS GROUP FILE  
(#409.822) (Required)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select an access group

DESCRIPTION: The access group that is to be linked to an access type.

CROSS-REFERENCE: 409.824^B

1)= S ^SDEC(409.824,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.824,"B",\$E(X,1,30),DA)

409.824,.02 ACCESS TYPE      0;2 POINTER TO SDEC ACCESS TYPE FILE (#409  
.823)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select an access type

DESCRIPTION: The access type that is to be linked to an access group.

FILES POINTED TO      FIELDS

SDEC ACCESS GROUP (#409.822)      ACCESS GROUP (#.01)

SDEC ACCESS TYPE (#409.823)      ACCESS TYPE (#.02)

### **3.6.10. #409.831 – SDEC RESOURCE**

STANDARD DATA DICTIONARY #409.831 -- SDEC RESOURCE FILE

FEB 7,2018@14:35:48 PAGE 1

STORED IN ^SDEC(409.831, (2612 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where a Resource object is defined for Clinical Scheduling. A Resource Object can be a NEW PERSON, HOSPITAL LOCATION, or an SDEC ADDITIONAL RESOURCE. A Resource is linked to a HOSPITAL LOCATION (or Clinic).

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: RESOURCE field (#.01) of the SDEC ACCESS BLOCK File (#409.821)

RESOURCE field (#.01) of the RESOURCE sub-field (#409.8321) of the SDEC RESOURCE GROUP File (#409.832) RESOURCENAME field (#.01) of the SDEC RESOURCE USER File (#409.833) RESOURCE field (#.07) of the SDEC APPOINTMENT File (#409.84)

CROSS REFERENCED BY: HOSPITAL LOCATION(ALLOC), ASSOCIATED VISTA CLINICS(ASSOC), RESOURCE(B), ABBREVIATION(C)

INDEXED BY: RESOURCE TYPE & RESOURCE TYPE (AC)

409.831,.01 RESOURCE 0;1 FREE TEXT (Required)

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<3) X

LAST EDITED: SEP 16, 2014

HELP-PROMPT: Answer must be 3-30 characters in length.

DESCRIPTION: The name for this resource.

CROSS-REFERENCE: 409.831^B

1)= S ^SDEC(409.831,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.831,"B",\$E(X,1,30),DA)

409.831,.011 ABBREVIATION 0;2 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>7!(\$L(X)<1) X

LAST EDITED: DEC 27, 2016

HELP-PROMPT: Answer must be 1-7 characters in length.

DESCRIPTION: Abbreviation given to the Resource.

CROSS-REFERENCE: 409.831^C

1)= S ^SDEC(409.831,"C",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.831,"C",\$E(X,1,30),DA)

This xref is used to lookup REsources using an abbreviation.

409.831,.012 RESOURCE TYPE 0;11 VARIABLE POINTER

FILE ORDER PREFIX LAYGO MESSAGE

44 1 H y CLINIC

200 2 P y PROVIDER

409.834 3 A y ADDITIONAL RESOURCE

OUTPUT TRANSFORM: S Y=\$\$OT1^SDEC03(Y)

LAST EDITED: OCT 27, 2015

HELP-PROMPT: Select a Resource Type

DESCRIPTION: This is a variable pointer field that can point to HOSPITAL LOCATION file 44, NEW PERSON file 200, or SDEC ADDITIONAL RESOURCE file 409.834.

FIELD INDEX: AC (#1678) REGULAR IR SORTING ONLY

Short Descr: Index of RESOURCE TYPE

Description: This cross-reference is built from both pieces of the RESOURCE TYPE variable pointer field to speed up the sorting of resources when given a specific source and ID. The sources could be HOSPITAL LOCATION, NEW PERSON, or SDEC ADDITIONAL RESOURCE.

Set Logic: S ^SDEC(409.831,"AC",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.831,"AC",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.831,"AC")

X(1): RESOURCE TYPE (409.831,.012) (Subscr 1) (forwards)

Transform (Storage): S X=\$E(\$\$OT1^SDEC03(X),1)

X(2): RESOURCE TYPE (409.831,.012) (Subscr 2) (forwards)

Transform (Storage): S X=\$P(X,";",1)

409.831,.015 DATE/TIME ENTERED 0;5 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 29, 2014  
HELP-PROMPT: Enter a date and time  
DESCRIPTION: This is the Date and time that this Resource was added.

409.831,.016 ENTERED BY USER 0;6 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: OCT 29, 2014  
HELP-PROMPT: Select a user  
DESCRIPTION: This is the user that defined this resource.

409.831,.02 INACTIVE ; COMPUTED  
MUMPS CODE: S X=\$\$XRC1^SDEC03(DA)  
ALGORITHM: S X=\$\$XRC1^SDEC03(DA)  
LAST EDITED: NOV 14, 2014  
HELP-PROMPT: Is this resource inactive (yes/no)  
DESCRIPTION: This computed field displays the inactive status of this resource.  
NO means this resource is not inactive (is active). YES means this resource inactive.

409.831,.021 INACTIVATED DATE/TIME 0;7 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X  
LAST EDITED: OCT 29, 2014  
HELP-PROMPT: Enter a date and time  
DESCRIPTION: This is the date and time that this resource was inactivated.

409.831,.022 INACTIVATED BY USER 0;8 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: OCT 29, 2014  
HELP-PROMPT: Select a user  
DESCRIPTION: This is the user that inactivated this resource.

409.831,.025 REACTIVATED DATE/TIME 0;9 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X  
LAST EDITED: OCT 29, 2014  
HELP-PROMPT: Enter a date and time  
DESCRIPTION: This is the date and time this resource was re-activated.

409.831,.026 REACTIVATED BY USER 0;10 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: OCT 29, 2014

HELP-PROMPT: Select a user

DESCRIPTION: This is the user that re-activated this resource.

409.831,.03 TIME SCALE 0;3 SET

'5' FOR 5;

'10' FOR 10;

'15' FOR 15;

'20' FOR 20;

'30' FOR 30;

'60' FOR 60;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select time scale

DESCRIPTION: This is where the Time Scale is defined for this resource. The time scale is in Minutes and can be 5, 10, 15, 20, 30, or 60 minutes.

409.831,.04 HOSPITAL LOCATION 0;4 POINTER TO HOSPITAL LOCATION FILE (#44)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select a hospital location

DESCRIPTION: This is where a HOSPITAL LOCATION (or Clinic) is linked to this Resource.

CROSS-REFERENCE: 409.831^ALOC

1)= S ^SDEC(409.831,"ALOC",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.831,"ALOC",\$E(X,1,30),DA)

This "ALOC" xref is used to look up an SDEC RESOURCE record using a HOSPITAL LOCATION id.

409.831,1 LETTER TEXT 1;0 WORD-PROCESSING #409.8311  
(IGNORE "|")

DESCRIPTION: This is where the LETTER TEXT for a Resource is defined.

409.831,1201 NO SHOW LETTER 12;0 WORD-PROCESSING #409.8311201  
(IGNORE "|")

DESCRIPTION: This is where the NO SHOW LETTER is defined for this Resource.

409.831,1301 CLINIC CANCELLATION LETTER 13;0 WORD-PROCESSING  
#409.8311301

(IGNORE "|")

DESCRIPTION: This is where the CLINIC CANCELLATION LETTER is defined for this Resource.

409.831,2001 ASSOCIATED VISTA CLINICS 20;0 POINTER Multiple #409.8312001

DESCRIPTION: Additional HOSPITAL LOCATIONS (or Clinics) can be listed here for this Resource.

409.8312001,.01 ASSOCIATED VISTA CLINICS 0;1 POINTER TO HOSPITAL LOCATION FILE

(#44) (Multiply asked)

LAST EDITED: DEC 10, 2014

HELP-PROMPT: Select a clinic

DESCRIPTION: Additional HOSPITAL LOCATIONS (or Clinics) can be listed here for this Resource.

CROSS-REFERENCE: 409.8312001^B

1)= S ^SDEC(409.831,DA(1),20,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.831,DA(1),20,"B",\$E(X,1,30),DA)

CROSS-REFERENCE:409.831^ASSOC

1)= S ^SDEC(409.831,"ASSOC",\$E(X,1,30),DA(1),DA)=""

2)= K ^SDEC(409.831,"ASSOC",\$E(X,1,30),DA(1),DA)

This "ASSOC" xref is used to find a SDEC RESOURCE record using a HOSPITAL LOCATION id that was used in the ASSOCIATED VISTA CLINICS multiple.

### **3.6.11. #409.832 – SDEC RESOURCE GROUP**

STANDARD DATA DICTIONARY #409.832 -- SDEC RESOURCE GROUP FILE

FEB 7,2018@14:36:02 PAGE 1

STORED IN ^SDEC(409.832, (28 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where Resources are 'grouped' with other Resources.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: DEPARTMENT NAME field (#.03) of the SDEC ACCESS TYPE File (#409.823)

CROSS REFERENCED BY: RESOURCE(AB), NAME(B)

409.832,.01 NAME 0;1 FREE TEXT (Required)  
INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<3)!'(X'?1P.E) X  
LAST EDITED: OCT 16, 2014  
HELP-PROMPT: Answer must be 3-30 characters in length.  
DESCRIPTION: Free-Text entry to define the Resource Group name.

CROSS-REFERENCE: 409.832^B  
1)= S ^SDEC(409.832,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.832,"B",\$E(X,1,30),DA)

409.832,.02 INACTIVATION DATE 0;2 DATE  
INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:Y<1 X  
LAST EDITED: OCT 20, 2014  
HELP-PROMPT: Enter a date. Time is optional.  
DESCRIPTION: Date/Time in which this Resource Group was inactivated. Time is optional.

409.832,1 RESOURCE 1;0 POINTER Multiple #409.8321  
DESCRIPTION: These are the Resources (SDEC RESOURCE) that belong to this Resource Group.

409.8321,.01 RESOURCE 0;1 POINTER TO SDEC RESOURCE FILE (#409.831) (Multiply asked)

LAST EDITED: AUG 12, 2014  
HELP-PROMPT: Select a resource  
DESCRIPTION: Resource (SDEC RESOURCE) that belongs to this Resource Group.

CROSS-REFERENCE: 409.8321^B  
1)= S ^SDEC(409.832,DA(1),1,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.832,DA(1),1,"B",\$E(X,1,30),DA)

CROSS-REFERENCE:409.832^AB

1)= S ^SDEC(409.832,"AB",\$E(X,1,30),DA(1),DA)=""

2)= K ^SDEC(409.832,"AB",\$E(X,1,30),DA(1),DA)

This "AB" xref is used to find a SDEC RESOURCE GROUP record using a SDEC RESOURCE id.

### **3.6.12. #409.833 – SDEC RESOURCE USER**

STANDARD DATA DICTIONARY #409.833 -- SDEC RESOURCE USER FILE

FEB 7,2018@14:46:26 PAGE 1

STORED IN ^SDEC(409.833, (2928 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA	NAME	GLOBAL	DATA
ELEMENT	TITLE	LOCATION	TYPE

---

This is where a NEW PERSON user is linked to a Resource (SDEC RESOURCE). The user's ability to Overbook, Modify Schedules, and modify appointments are defined here.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS REFERENCED BY: USERNAME(AC), RESOURCENAME(B)

INDEXED BY: RESOURCENAME & USERNAME (AD)

409.833,.01 RESOURCENAME        0;1 POINTER TO SDEC RESOURCE FILE  
(#409.831) (Required)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select a resource

DESCRIPTION: This is the Resource (SDEC RESOURCE) that is to be linked to a user (NEW PERSON).

CROSS-REFERENCE: 409.833^B

- 1)= S ^SDEC(409.833,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.833,"B",\$E(X,1,30),DA)

RECORD INDEXES: AD (#1661)

409.833,.02 USERNAME        0;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select the user who is linked to the Resource.

DESCRIPTION: This is the user (NEW PERSON file) that will be linked to a Resource (SDEC RESOURCE file).

CROSS-REFERENCE: 409.833^AC

- 1)= S ^SDEC(409.833,"AC",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.833,"AC",\$E(X,1,30),DA)

This AC xref is used to look up the SDEC RESOURCE USER record using the given User (NEW PERSON).

RECORD INDEXES: AD (#1661)

409.833,.03 OVERBOOK        0;3 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if this user is allowed to overbook. Enter 0 or NO if this user is not allowed to overbook.

DESCRIPTION: Define if this user has Overbook privileges.

409.833,.04 MODIFY SCHEDULE 0;4 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if this user is allowed to modify schedules. Enter 0 or NO if this user is not allowed to modify schedules.

DESCRIPTION: Define if this user can Modify Schedules.

409.833,.05 MODIFY APPOINTMENTS 0;5 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if this user is allowed to modify appointments. Enter 0 or NO if this user is not allowed to modify appointments.

DESCRIPTION: Define if this user can Modify Appointments.

409.833,.06 MASTEROVERBOOK 0;6 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if this user has master overbook privileges. Enter 0 or NO if this user does not have these privileges.

DESCRIPTION: Define if this user has Master Overbook capabilities.

FILES POINTED TO

FIELDS

NEW PERSON (#200)

USERNAME (#.02)

SDEC RESOURCE (#409.831)      RESOURCENAME (#.01)

File #409.833

Record Indexes:

AD (#1661) RECORD REGULAR IR SORTING ONLY

Short Descr: Index by RESOURCENAME and USERNAME.

Description: This cross reference is used to sort by RESOURCENAME and USERNAME.

Set Logic: S ^SDEC(409.833,"AD",X(1),X(2),DA)=""

Kill Logic: K ^SDEC(409.833,"AD",X(1),X(2),DA)

Whole Kill: K ^SDEC(409.833,"AD")

X(1): RESOURCENAME (409.833,.01) (Subscr 1) (forwards)

X(2): USERNAME (409.833,.02) (Subscr 2) (forwards)

### 3.6.13. #409.834 – SDEC ADDITIONAL RESOURCE

STANDARD DATA DICTIONARY #409.834 -- SDEC ADDITIONAL RESOURCE FILE

FEB 7,2018@14:46:42 PAGE 1

STORED IN ^SDEC(409.834, \*\*\* NO DATA STORED YET \*\*\* SITE:  
TEST.CHEYENNE.MED.V

A.GOV UCI: CHEYL134,ROU    (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This file is as used a source file for items that are to be defined as a resource, but do not fit into a typical Resource source file. SDEC RESOURCE points to this file.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: RESOURCE TYPE field (#.012) of the SDEC RESOURCE File (#409.831)

CROSS REFERENCED BY: NAME(B)

409.834,.01 NAME 0;1 FREE TEXT (Required)

INPUT TRANSFORM: K:\$L(X)>30!(\$L(X)<3)!'(X'?1P.E) X

LAST EDITED: SEP 15, 2014

HELP-PROMPT: Answer must be 3-30 characters in length.

DESCRIPTION: Name of this resource.

CROSS-REFERENCE: 409.834^B

1)= S ^SDEC(409.834,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.834,"B",\$E(X,1,30),DA)

409.834,2 INACTIVE 0;2 SET

'1' FOR YES;

'0' FOR NO;

LAST EDITED: SEP 15, 2014

HELP-PROMPT: Enter 1 or YES if this additional resource is inactive. Enter 0 or NO if this additional resource is active.

DESCRIPTION: Yes/No field to indicate that this resource is inactive.

### **3.6.14. #409.84 – SDEC APPOINTMENT**

STANDARD DATA DICTIONARY #409.84 -- SDEC APPOINTMENT FILE

FEB 7,2018@14:46:59 PAGE 1

STORED IN ^SDEC(409.84, (3362 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where appointment definitions are linked to a resource.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: MULT APPTS MADE field (#.02) of the MULT APPTS MADE sub-field (#409.852) of the SDEC APPT REQUEST File (#409.85)

CROSS REFERENCED BY: DATE APPT MADE(AC), CANCEL DATETIME(AD), EXTERNAL ID(AEX), RESOURCE(ARSRC), STARTTIME(B), PATIENT(CPAT)

409.84,.01 STARTTIME 0;1 DATE (Required)

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 21, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: Date and Time this appointment is scheduled to start.

CROSS-REFERENCE: 409.84^B

- 1)= S ^SDEC(409.84,"B",\$E(X,1,30),DA)=""
- 2)= K ^SDEC(409.84,"B",\$E(X,1,30),DA)

409.84,.02 ENDTIME 0;2 DATE (Required)

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 21, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: The date and time that this appointment ended.

409.84,.03 CHECKIN 0;3 DATE

INPUT TRANSFORM: S %DT="ETR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: NOV 03, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: Date and Time of the Check-In for this appointment.

409.84,.04 CHECK IN TIME ENTERED 0;4 DATE

INPUT TRANSFORM: S %DT="ETR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: NOV 03, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: Date/Time the Check-In was entered.

409.84,.05 PATIENT 0;5 POINTER TO PATIENT/IHS FILE (#9000001)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select a patient

DESCRIPTION: This is the patient that this appointment is scheduled for.

CROSS-REFERENCE: 409.84^CPAT

- 1)= S ^SDEC(409.84,"CPAT",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.84,"CPAT",\$E(X,1,30),DA)

This xref is used to look up appointments by Patient.

409.84,.06 APPOINTMENT TYPE 0;6 POINTER TO APPOINTMENT TYPE FILE (#409.1)

LAST EDITED: MAY 22, 2015

HELP-PROMPT: Select an appointment type.

DESCRIPTION: This field represents the Appointment Type.

TECHNICAL DESCRIPTOR: This field is a pointer to the APPOINTMENT TYPE file 409.1.

409.84,.07 RESOURCE 0;7 POINTER TO SDEC RESOURCE FILE (#409.831)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select a resource

DESCRIPTION: This field represents the resource that is scheduled for this appointment.

CROSS-REFERENCE: 409.84^ARSRC^MUMPS

1)= D XR2S^SDEC03(DA)

2)= D XR2K^SDEC03(DA)

This index is used to find all appointments for a given resource during a given time period.

409.84,.08 DATA ENTRY CLERK 0;8 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select the clerk who entered this appointment.

DESCRIPTION: Field contains the ien of the clerk who made the appointment.

409.84,.09 DATE APPT MADE 0;9 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JAN 26, 2016

HELP-PROMPT: Enter a date

DESCRIPTION: Field contains the date the appointment was made.

CROSS-REFERENCE: 409.84^AC

1)= S ^SDEC(409.84,"AC",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.84,"AC",\$E(X,1,30),DA)

This cross-reference is used to sort SDECAPPOINTMENT entries by the DATE APPOINTMENT MADE field.

409.84,.1 NOSHOW 0;10 SET

'1' FOR YES;  
'0' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter 1 or YES if this appointment was a No-Show. Enter 0 or NO if this appointment was not a No-Show.

DESCRIPTION: Yes/No field indicating this appointment was a No-Show.

409.84,.101 NOSHOW DATETIME 0;23 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 21, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: This is the Date/Time that the No-Show was entered.

409.84,.102 NOSHOW BY USER 0;24 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: OCT 15, 2014

HELP-PROMPT: Select the user that entered the No-Show

DESCRIPTION: This is the User that entered the No-Show.

409.84,.11 REBOOK DATETIME 0;11 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 21, 2014

HELP-PROMPT: Enter a date and time

DESCRIPTION: This the date and time that the rebooking was entered.

409.84,.12 CANCEL DATETIME 0;12 DATE

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: MAR 07, 2016

HELP-PROMPT: Enter cancellation date and time

DESCRIPTION: The date/time the cancellation was entered.

CROSS-REFERENCE: 409.84^AD

1)= S ^SDEC(409.84,"AD",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.84,"AD",\$E(X,1,30),DA)

This cross-reference is used to sort SDEC APPOINTMENT entries by the CANCEL DATETIME field.

409.84.,121 CANCELLED BY USER 0;21 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: OCT 14, 2014

HELP-PROMPT: Select the user who entered this cancellation.

DESCRIPTION: This is the user that entered the cancellation.

409.84.,122 CANCELLATION REASON 0;22 POINTER TO CANCELLATION REASONS FILE (#409.2)

LAST EDITED: OCT 14, 2014

HELP-PROMPT: Select a cancellation reason

DESCRIPTION: Reason for Cancellation that was selected from the CANCELLATION REASON file 409.2.

409.84.,13 WALKIN 0;13 SET

'y' FOR YES;

'n' FOR NO;

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Enter y or YES if this is a walk-in appointment. Enter n or NO if this is not a walk-in appointment.

DESCRIPTION: Yes/No field to indicate that this appointment was a Walk-in or adhoc appointment.

409.84,.14 CHECKOUT            0;14 DATE  
INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X  
LAST EDITED: OCT 21, 2014  
HELP-PROMPT: Enter checkout date and time  
DESCRIPTION: CHECKOUT DATE/TIME FOR APPOINTMENT.

409.84,.15 V PROVIDER IEN        0;15 POINTER TO V PROVIDER FILE (#9000010.  
06)

LAST EDITED: AUG 12, 2014  
HELP-PROMPT: Select provider  
DESCRIPTION: V PROVIDER IEN is the pointer to the V PROVIDER file for the patient.

409.84,.16 PROVIDER            0;16 POINTER TO NEW PERSON FILE (#200)  
LAST EDITED: AUG 12, 2014  
HELP-PROMPT: Select a provider  
DESCRIPTION: The primary provider for this appointment.

409.84,.17 STATUS            0;17 SET  
'N' FOR NO-SHOW;  
'C' FOR CANCELLED BY CLINIC;  
'NA' FOR NO-SHOW & AUTO RE-BOOK;  
'CA' FOR CANCELLED BY CLINIC & AUTO RE-BOOK;  
'T' FOR INPATIENT APPOINTMENT;  
'PC' FOR CANCELLED BY PATIENT;  
'PCA' FOR CANCELLED BY PATIENT & AUTO-REBOOK;  
'NT' FOR NO ACTION TAKEN;

LAST EDITED: JUN 18, 2015  
HELP-PROMPT: Select an appointment status  
DESCRIPTION: Populated by SDEC CANCEL APPOINTMENT in the event there is an 'undo' of a Cancelled Appointment.

409.84,.18 LENGTH OF APPT 0;18 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>120)!(X<5)!(X?.E1"."1N.N) X

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Type a number between 5 and 120, 0 decimal digits.

DESCRIPTION: This represents the length of this appointment in minutes. This is populated when an appointment is cancelled and is used in the event that the appointment is reinstated.

409.84,.19 PREV APPT STATUS 0;19 POINTER TO APPOINTMENT STATUS FILE (#409.63)

LAST EDITED: AUG 12, 2014

HELP-PROMPT: Select an appointment status

DESCRIPTION: Pointer to APPOINTMENT STATUS file; used to restore status in visit encounter in the event that a user re-instates the appointment after a 'cancel' has been processed.

409.84,.2 DESIRED DATE OF APPOINTMENT 0;20 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 22, 2014

HELP-PROMPT: Enter the desired date for this appointment.

DESCRIPTION: This is the appointment date that is needed/desired.

409.84,.21 EXTERNAL ID 0;25 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>50!(\$L(X)<1) X

LAST EDITED: OCT 16, 2014

HELP-PROMPT: Answer must be 1-50 characters in length.

DESCRIPTION: This is used to hold an external identifier.

CROSS-REFERENCE: 409.84^AEX

1)= S ^SDEC(409.84,"AEX",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.84,"AEX",\$E(X,1,30),DA)

Used to lookup the SDEC APPOINTMENT ien using the external ID.

409.84,.22 APPT REQUEST TYPE 2;1 VARIABLE POINTER

FILE ORDER PREFIX LAYGO MESSAGE

409.3 1 E y EWL  
123 2 C y CONSULT  
403.5 3 R y RECALL  
409.85 4 A y APPT

OUTPUT TRANSFORM: S

$Y = \$S(\$P(Y,";";2) = "SDWL(409.3,": "EWL",\$P(Y,";";2) = "GMR(123,": "CONSULT",\$P(Y,";";2) = "SD(403.5,": "RECALL",\$P(Y,";";2) = "SDEC(409.85,": "APPT",1:"")$

LAST EDITED: SEP 10, 2015

HELP-PROMPT: Select from SD WAIT LIST, REQUEST/CONSULTATION, SDEC APPT REQUEST, or RECALL REMINDERS.

DESCRIPTION: This Variable Pointer field holds a pointer to either the SD WAIT LIST file, REQUEST/CONSULTATION file, SDEC APPT REQUEST, or RECALL REMINDERS file.

409.84,.23 PATIENT STATUS 2;2 SET

'N' FOR NEW;

'E' FOR ESTABLISHED;

LAST EDITED: JUN 09, 2015

HELP-PROMPT: Enter N or NEW if the patient is a new patient. Enter E or ESTABLISHED if this patient has been seen in the past 24 months.

DESCRIPTION: This field represents the status of the patient in regards to being a 'NEW' or 'ESTABLISHED' patient. An ESTABLISHED patient has been seen within the past 24 months.

409.84,1 NOTE 1;0 WORD-PROCESSING #409.841

(IGNORE "|")

DESCRIPTION: This holds the text regarding the reason for the appointment.

### 3.6.15. #409.845 – SDEC PREFERENCES AND SPECIAL NEEDS

STANDARD DATA DICTIONARY #409.845 -- SDEC PREFERENCES AND SPECIAL NEEDS FILE

FEB 7,2018@14:47:25 PAGE 1

STORED IN ^SDEC(409.845, (411 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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This is where Patient Preferences are defined for Patients.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

CROSS REFERENCED BY: PATIENT(B)

409.845,.01 PATIENT 0;1 POINTER TO PATIENT FILE (#2)  
(Required)

LAST EDITED: AUG 28, 2014

HELP-PROMPT: Select a patient

DESCRIPTION: This is where the PATIENT is defined for the Patient Preferences.

CROSS-REFERENCE: 409.845^B

1)= S ^SDEC(409.845,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.845,"B",\$E(X,1,30),DA)

409.845,1 PREFERENCES 1;0 SET Multiple #409.8451

LAST EDITED: AUG 29, 2014

DESCRIPTION: Multiple patient preferences are defined here  
for a specific patient.

409.8451,.01 PREFERENCE 0;1 SET (Required) (Multiply asked)

'G' FOR GENDER SPECIFIC PROVIDER;  
'H' FOR HEARING IMPAIRED;  
'L' FOR LANGUAGE PREFERENCE;  
'N' FOR NEEDS ESCORT;  
'O' FOR ON STRETCHER;  
'S' FOR SPECIAL MODE OF TRANSPORTATION;  
'M' FOR MORNING;  
'A' FOR AFTERNOON;  
'MON' FOR MONDAY;  
'TUE' FOR TUESDAY;  
'WED' FOR WEDNESDAY;  
'THU' FOR THURSDAY;  
'FRI' FOR FRIDAY;

LAST EDITED: NOV 18, 2014

HELP-PROMPT: Select a preference

DESCRIPTION: The specific preference being defined for this patient.

CROSS-REFERENCE: 409.8451^B

1)= S ^SDEC(409.845,DA(1),1,"B",\$E(X,1,30),DA)=""  
2)= K ^SDEC(409.845,DA(1),1,"B",\$E(X,1,30),DA)

409.8451,2 DATE/TIME ADDED 0;2 DATE

INPUT TRANSFORM:S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 20, 2014

HELP-PROMPT: Enter a date. Time is optional.

DESCRIPTION: Date/Time this preference was added. Time is optional.

409.8451,3 ADDED BY USER 0;3 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: AUG 28, 2014

HELP-PROMPT: Select the user who entered this preference.

DESCRIPTION: User that entered this preference.

409.8451,4 INACTIVE DATE 0;4 DATE

INPUT TRANSFORM:S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: OCT 20, 2014

HELP-PROMPT: Enter a date. Time is optional.

DESCRIPTION: Date and time that this preference was inactivated. Time is optional.

409.8451,5 INACTIVATED BY USER 0;5 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: AUG 29, 2014

HELP-PROMPT: Select the user who inactivated this preference.

DESCRIPTION: User that inactivated this preference.

409.8451,6 REMARKS 1;0 WORD-PROCESSING #409.84516

(IGNORE "|")

DESCRIPTION: This field contains additional remarks and details for this preference.

### **3.6.16. #409.85 – SDEC APPT REQUEST**

STANDARD DATA DICTIONARY #409.85 -- SDEC APPT REQUEST FILE

FEB 7,2018@14:47:42 PAGE 1

STORED IN ^SDEC(409.85, (3083 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA NAME GLOBAL DATA

ELEMENT	TITLE	LOCATION	TYPE
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This file contains the SDEC Appt Request entries for the Appointment Scheduling application. Each entry represents a unique appointment request.

DD ACCESS:

RD ACCESS:

WR ACCESS:

DEL ACCESS:

LAYGO ACCESS:

AUDIT ACCESS:

(NOTE: Kernel's File Access Security has been installed in this UCI.)

POINTED TO BY: APPT REQUEST TYPE field (#.22) of the SDEC APPOINTMENT File  
(#409.84)

PARENT REQUEST field (#43.8) of the SDEC APPT REQUEST File  
(#409.85)

CHILD REQUEST field (#.01) of the MULT APPTS MADE sub-field  
(#409.852) of the SDEC APPT REQUEST File (#409.85)

CROSS REFERENCED BY: PATIENT(B), INSTITUTION(C), REQ SPECIFIC CLINIC(SC),  
REQ SPECIFIC CLINIC(SCC)

INDEXED BY: DATE/TIME ENTERED & ORIGINATING USER (AC), DATE ENTERED & ENTERED BY USER (AD), CURRENT STATUS & CREATE DATE (E), REQ SPECIFIC CLINIC & CREATE DATE (GC), REQ SPECIFIC CLINIC & CID/PREFERRED DATE OF APPT (GCC), REQ SERVICE/SPECIALTY & CREATE DATE (GS), REQ SERVICE/SPECIALTY & CREATE DATE (GSA), REQ SERVICE/SPECIALTY & SERVICE CONNECTED PRIORITY & CREATE DATE (GSB), REQ SERVICE/SPECIALTY & CID/PREFERRED DATE OF APPT (GSC), REQ SERVICE/SPECIALTY & CREATE DATE (GSP)

409.85,.01 PATIENT 0;1 POINTER TO PATIENT FILE (#2)

(Required)

LAST EDITED: JUN 25, 2015

HELP-PROMPT: Enter the name of the patient for this Appt Request.

DESCRIPTION: This is the name of the patient that is to be on the SDEC APPT REQUEST list.

TECHNICAL DESCRIPTOR: The patient selection is from the PATIENT file #2. The SDEC APPT REQUEST is 'this' file #409.85.

CROSS-REFERENCE: 409.85^B

1)= S ^SDEC(409.85,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.85,"B",\$E(X,1,30),DA)

409.85,.02 PATIENT STATUS 0;7 SET (audited)

'N' FOR NEW;

'E' FOR ESTABLISHED;

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Enter N or NEW if the patient is a new patient. Enter E or ESTABLISHED if this patient has been seen in the past 24 months.

DESCRIPTION: This field represents the status of the patient in regards to being a 'NEW' or 'ESTABLISHED' patient. An ESTABLISHED patient has been seen within the past 24 months.

AUDIT: YES, ALWAYS

409.85,1 CREATE DATE 0;2 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUN 25, 2015

HELP-PROMPT: Enter the date the request was made.

DESCRIPTION: This field represents the date that the appointment request was made.

RECORD INDEXES: E (#1662), GC (#1952), GS (#1947), GSA (#1950),  
GSB (#1951), GSP (#1949)

409.85,2 INSTITUTION 0;3 POINTER TO INSTITUTION FILE (#4)

(Required)

INPUT TRANSFORM: S DIC("S")="I \$P(^0,U,11)=""N\$\$TF^XUAF4(+Y)" D  
^DIC K DIC S DIC=DIE,X=+Y K:Y<0 X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select an Institution

DESCRIPTION: This field represents the Institution assigned to identify the specific location.

SCREEN: S DIC("S")="I \$P(^0,U,11)=""N\$\$TF^XUAF4(+Y)"

EXPLANATION: Only allow a National/Medical Institution.

CROSS-REFERENCE: 409.85^C

1)= S ^SDEC(409.85,"C",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.85,"C",\$E(X,1,30),DA)

This xref is used to speed up the lookup of Appointment Requests by INSTITUTION.

409.85,4 REQUEST TYPE 0;5 SET (Required)

'APPT' FOR APPOINTMENT;

'MOBILE' FOR MOBILE;

'W2VA' FOR WELCOME TO VA;

'RTC' FOR RETURN TO CLINIC;

LAST EDITED: JUN 05, 2017

HELP-PROMPT: Select an appointment request type

DESCRIPTION: This field represents the type of appointment request that being requested.

409.85,8 REQ SPECIFIC CLINIC 0;9 POINTER TO HOSPITAL LOCATION FILE (#44)  
(Required) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select a clinic

DESCRIPTION: This field represents the clinic that this appointment request is for. If the patient has been assigned to the APPT REQUEST list, enter the clinic that the patient is waiting for an appointment.

AUDIT: YES, ALWAYS

CROSS-REFERENCE: 409.85^SC^MUMPS

1)= I \$D(X) S ^SDEC(409.85,"SC",\$P(^SC(X,0),U,1),DA)=""

2)= K ^SDEC(409.85,"SC",\$P(^SC(X,0),U,1),DA)

Sort and Lookup Appointment Request by Clinic name.

CROSS-REFERENCE: 409.85^SCC^MUMPS

1)= I \$D(X) S

^SDEC(409.85,"SCC",\$P(^SDEC(409.85,DA,0),U,1),X,DA)=""

2)= K ^SDEC(409.85,"SCC",\$P(^SDEC(409.85,DA,0),U,1),X,DA)

Sort/Lookup Appointment Request by Specific Clinic.

RECORD INDEXES: GC (#1952), GCC (#1953)

409.85,8.5 REQ SERVICE/SPECIALTY 0;4 POINTER TO CLINIC STOP FILE (#40.7)

(audited)

INPUT TRANSFORM: S DIC("S")="I  
(\$P(^0,U,3)=""")!(\$P(\$P(^0,U,3),".",1)>\$P(\$\$NOW^XLFDT,".",1))" D ^DIC K DIC S  
DIC=DIE,X=+Y K:Y<0 X

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select a CLINIC STOP

DESCRIPTION: This field represents the CLINIC STOP code (also referred to as SERVICE/SPECIALTY) that is associated with this appointment.

SCREEN: S DIC("S")="I (\$P(^0,U,3)=""")!(\$P(\$P(^0,U  
,3),".",1)>\$P(\$\$NOW^XLFDT,".",1))"

EXPLANATION: Allow only active CLINIC STOP entries.

AUDIT: YES, ALWAYS

RECORD INDEXES: GS (#1947), GSA (#1950), GSB (#1951), GSC (#1948), GSP (#1949)

409.85,8.7 REQ APPOINTMENT TYPE 0;6 POINTER TO APPOINTMENT TYPE FILE (#409.1) (audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select an appointment type.

DESCRIPTION: This field represents the appointment type for this request.

AUDIT: YES, ALWAYS

409.85,9 ORIGINATING USER 0;10 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select a user

DESCRIPTION: This is the user that entered this appointment request.

RECORD INDEXES: AC (#1663)

409.85,9.5 DATE/TIME ENTERED 3;4 DATE

INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Enter a date. Time is optional.

DESCRIPTION: This is the Date and optional Time that this appointment request entry was entered.

RECORD INDEXES: AC (#1663)

409.85,10 PRIORITY 0;11 SET (Required)

'A' FOR ASAP;

'F' FOR FUTURE;

LAST EDITED: APR 18, 2015

HELP-PROMPT: Enter A or ASAP to set the priority as 'As Soon As Possible'. Enter F or FUTURE to set the priority as Future.

DESCRIPTION: This represents the appointment priority.

Future indicates that the patient needs an appointment in the future and a desired date will be entered by the user. ASAP indicates that the patient needs an appointment before the currently next available appointment (as soon as a slot opens). The desired date for ASAP will be set by the system as the current date.

409.85,10.5 ENROLLMENT PRIORITY 0;25 SET

'1' FOR GROUP 1;  
'2' FOR GROUP 2;  
'3' FOR GROUP 3;  
'4' FOR GROUP 4;  
'5' FOR GROUP 5;  
'6' FOR GROUP 6;  
'7' FOR GROUP 7;  
'8' FOR GROUP 8;

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select an enrollment priority.

DESCRIPTION: The ENROLLMENT PRIORITY field represents the appointment Enrollment Priority.

409.85,11 REQUESTED BY 0;12 SET (Required) (audited)

'1' FOR PROVIDER;  
'2' FOR PATIENT;

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Enter 1 or PROVIDER if the requestor was a provider. Enter 2 or PATIENT if the requestor was the patient.

DESCRIPTION: This field identifies who requested the appointment - the patient or a provider.

AUDIT: YES, ALWAYS

409.85,12 PROVIDER 0;13 POINTER TO NEW PERSON FILE (#200)  
(audited)

LAST EDITED: NOV 02, 2016

HELP-PROMPT: Select the provider that requested the patient's appointment.

DESCRIPTION: This field represents the provider that requested the appointment if the appointment was requested by a provider.

AUDIT: YES, ALWAYS

409.85,13 SCHEDULED DATE OF APPT 0;23 DATE

INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Enter the date and optional time of the scheduled appointment for this request.

DESCRIPTION: This is the appointment date and optional time scheduled for the patient. This appointment may be used as a reason for closing 'this' appointment request.

TECHNICAL DESCRIPTOR: This is a date/time of the scheduled appointment related to this entry.

409.85,13.1 DATE APPT. MADE SDAPT;1 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 23, 2015

HELP-PROMPT: Enter the date that the appointment was made.

DESCRIPTION: This is the date the appointment was created.

TECHNICAL DESCRIPTOR: The Appointment Creation Date. It corresponds to the DATE APPT. MADE field (#20) of the APPOINTMENT multiple (#1900) in the PATIENT file (#2).

409.85,13.2 APPT CLINIC SDAPT;2 POINTER TO HOSPITAL LOCATION FILE

(#44)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select the clinic that this appointment is scheduled for.

DESCRIPTION: This is the clinic this appointment was created for.

TECHNICAL DESCRIPTOR: Pointer to the HOSPITAL LOCATION file (#44) of the related appointment.

409.85,13.3 APPT INSTITUTION SDAPT;3 POINTER TO INSTITUTION FILE (#4)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select an Institution.

DESCRIPTION: This is the institution the clinic appointment belongs to.

TECHNICAL DESCRIPTOR: A pointer from the HOSPITAL LOCATION file of the scheduled appointment to the INSTITUTION file (#4).

409.85,13.4 APPT STOP CODE SDAPT;4 POINTER TO CLINIC STOP FILE (#40.7)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select a CLINIC STOP code.

DESCRIPTION: This is the stop code/specialty of a clinic associated with the patient appointment. This may be different than the STOP CODE defined in the REQ SERVICE/SPECIALTY field.

TECHNICAL DESCRIPTOR: This is the primary STOP CODE Number pointer to the CLINIC STOP file (#40.7).

409.85,13.5 APPT CREDIT STOP CODE SDAPT;5 POINTER TO CLINIC STOP FILE (#40.7)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select a CLINIC STOP code.

DESCRIPTION: This is the credit stop code optionally assigned to the HOSPITAL LOCATION file associated with the scheduled appointment.

TECHNICAL DESCRIPTOR: This is the secondary (optional) Stop Code Number pointer to the CLINIC STOP file (#40.7). This stop code is assigned to the HOSPITAL LOCATION file associated with the scheduled appointment.

409.85,13.6 APPT STATION NUMBER SDAPT;6 FREE TEXT

INPUT TRANSFORM: K:\$L(X)>6!(\$L(X)<3) X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Answer must be 3-6 characters in length.

DESCRIPTION: This is the 3-digit station number assigned to the facility plus up to 3 optional modifiers.

TECHNICAL DESCRIPTOR: This is the STATION NUMBER field (#99) of the INSTITUTION file (#4) associated with the scheduled appointment.

409.85,13.7 APPT CLERK SDAPT;7 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select an Appt Clerk

DESCRIPTION: This is the person who assigned the appointment to the REQUEST entry.

TECHNICAL DESCRIPTOR: This is a pointer to the NEW PERSON file and it represents a person who entered the scheduled appointment into the Appointment Request.

409.85,13.8 APPT STATUS SDAPT;8 SET

'R' FOR Scheduled/Kept;  
'T' FOR Inpatient;  
'NS' FOR No-Show;  
'NSR' FOR No\_Show, Rescheduled;  
'CP' FOR Canceled by Patient;  
'CPR' FOR Canceled by Patient, Rescheduled;  
'CC' FOR Canceled by Clinic;  
'CCR' FOR Canceled by Clinic, Rescheduled;  
'NT' FOR No Action Taken;

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select an Appt Status

DESCRIPTION: This field identifies the status of the appointment that is associated with this appointment request.

#### 409.85,14 SERVICE CONNECTED PERCENTAGE SC;1 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>100)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Type a number between 0 and 100, 0 decimal digits.

DESCRIPTION: The SERVICE CONNECTED PERCENTAGE is used to determine the service connected priority.

#### 409.85,15 SERVICE CONNECTED PRIORITY SC;2 SET

'0' FOR NO;

'1' FOR YES;

LAST EDITED: APR 18, 2015

HELP-PROMPT: Enter 0 or NO if the appointment does not get a Service Connected Priority. Enter 1 or YES if the appointment DOES get a Service Connected Priority.

DESCRIPTION: This field represents whether the appointment has a Service Connected Priority.

RECORD INDEXES: GSB (#1951)

#### 409.85,19 DATE DISPOSITIONED DIS;1 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 23, 2015

HELP-PROMPT: Enter a date.

DESCRIPTION: This represents the date that the patient is dispositioned from the Appointment Request list.

409.85,20 DISPOSITIONED BY DIS;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select a user/provider

DESCRIPTION: This represents the user who dispositioned the patient from the appointment request list.

409.85,21 DISPOSITION DIS;3 SET

'D' FOR DEATH;

'NC' FOR REMOVED/NON-VA CARE;

'SA' FOR REMOVED/SCHEDULED-ASSIGNED;

'CC' FOR REMOVED/VA CONTRACT CARE;

'NN' FOR REMOVED/NO LONGER NECESSARY;

'ER' FOR ENTERED IN ERROR;

'TR' FOR TRANSFERRED TO EWL;

'CL' FOR CHANGED CLINIC;

'MC' FOR MRTC PARENT CLOSED;

LAST EDITED: JAN 05, 2016

HELP-PROMPT: Select a disposition

DESCRIPTION: This field represents the reason this patient has been dispositioned from this appointment Request.

409.85,21.1 DISPOSITION CLOSED BY CLEANUP DIS;4 SET

'Y' FOR YES;

'N' FOR NO;

LAST EDITED: DEC 07, 2016

HELP-PROMPT: Enter Yes if Disposition was due to Open Request being Closed with Cleanup Utility. Otherwise enter No.

**DESCRIPTION:** Enter Yes if Disposition is related to Open Request becoming Closed due to the running of Cleanup Utility. Otherwise enter No.

409.85,22 CID/PREFERRED DATE OF APPT 0;16 DATE (Required) (audited)

**INPUT TRANSFORM:** S %DT="EX" D ^%DT S X=Y K:Y<1 X

**LAST EDITED:** APR 23, 2015

**HELP-PROMPT:** Enter the CID/Preferred Date of this appointment.

**DESCRIPTION:** This CID/PREFERRED DATE OF APPT field represents the date that the patient or provider has requested for the appointment. If the priority is ASAP, this is the date the patient is placed on the REQUEST List (SCHEDULING). If the priority is FUTURE, the user enters the date that the patient/provider is requesting that the appointment is to be scheduled.

**AUDIT:** YES, ALWAYS

**RECORD INDEXES:** GCC (#1953), GSC (#1948)

409.85,23 CURRENT STATUS 0;17 SET (audited)

'O' FOR OPEN;

'C' FOR CLOSED;

**LAST EDITED:** DEC 08, 2016

**HELP-PROMPT:** Enter O or OPEN if the APPT Request entry is open. Enter C or CLOSED if the APPT Request entry is closed.

**DESCRIPTION:** This field represents the current status of this appointment request. If the APPT Request entry is dispositioned, the status = CLOSED, otherwise, the APPT Request entry status = OPEN.

**AUDIT:** YES, ALWAYS

**RECORD INDEXES:** E (#1662)

409.85,25 COMMENTS 0;18 FREE TEXT (audited)

**INPUT TRANSFORM:** K:\$L(X)>80!(\$L(X)<1) X

**LAST EDITED:** NOV 02, 2016

**HELP-PROMPT:** Answer must be 1-80 characters in length.

**DESCRIPTION:** This Free Text field represents information related to the appointment request.

example: see progress note date 5/01/02 this would direct the scheduling clerk to a note that may contain lab, xray orders that need to be completed prior to the appointment.

AUDIT: YES, ALWAYS

409.85,41 MULTIPLE APPOINTMENT RTC 3;1 SET

'0' FOR NO;

'1' FOR YES;

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select 1 or YES if multiple appointments are needed. Select 0 or NO if multiple appointments are not needed.

DESCRIPTION: This field represents that Multiple Appointments need to be made.

If set to NO (0 zero), Multiple Appointment (Return to Clinic) are not scheduled. If set to YES (1), Multiple Appointment (Return to Clinic) could be scheduled.

409.85,42 MULT APPT RTC INTERVAL 3;2 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>365)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Type a number between 0 and 365, 0 decimal digits.

DESCRIPTION: The MULT APPT RTC INTERVAL represents the number of Days between appointments.

409.85,43 MULT APPT NUMBER 3;3 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>100)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Type a number between 0 and 100, 0 decimal digits.

DESCRIPTION: This field represents the number of appointments that may be needed.

409.85,43.3 MULT APPTS MADE 2;0 POINTER Multiple #409.852

DESCRIPTION: These are the MRTC Appointments that have been made for this appointment request.

TECHNICAL DESCRIPTOR: These appointments are pointers to the SDEC APPOINTMENT file 409.84.

409.852,.01 CHILD REQUEST 0;1 POINTER TO SDEC APPT REQUEST FILE (#

409.85) (Multiply asked)

LAST EDITED: JAN 05, 2016

HELP-PROMPT: Select an appointment request.

DESCRIPTION: This field represents a 'Child' appointment request.

TECHNICAL DESCRIPTOR:

Pointer to the SDEC APPT REQUEST file 409.85.

CROSS-REFERENCE: 409.852^B

1)= S ^SDEC(409.85,DA(1),2,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.85,DA(1),2,"B",\$E(X,1,30),DA)

409.852,.02 MULT APPTS MADE 0;2 POINTER TO SDEC APPOINTMENT FILE (#409.84)

LAST EDITED: JAN 05, 2016

HELP-PROMPT: Select an appointment

DESCRIPTION: This field represents one of the Multiple Appointments that have been made based on this appointment request.

TECHNICAL DESCRIPTOR:

Pointer to SDEC APPOINTMENT file 409.84.

409.85,43.5 MRTC CALC PREF DATES 5;0 DATE Multiple #409.851

DESCRIPTION: This multiple field holds the dates that are requested for multiple appointments.

409.851,.01 MRTC CALC PREF DATES 0;1 DATE (Multiply asked)

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Enter a date

DESCRIPTION: This field represents one of the dates requested for one of the multiple appointments.

CROSS-REFERENCE: 409.851^B

1)= S ^SDEC(409.85,DA(1),5,"B",\$E(X,1,30),DA)=" "

2)= K ^SDEC(409.85,DA(1),5,"B",\$E(X,1,30),DA)

409.85,43.8 PARENT REQUEST 3;5 POINTER TO SDEC APPT REQUEST FILE (#409.85)

LAST EDITED: JAN 05, 2016

HELP-PROMPT: Select an appointment request

DESCRIPTION: This field represents the parent appointment request.

409.85,44 PATIENT CONTACT 4;0 DATE Multiple #409.8544

DESCRIPTION: This multiple records the patient contact events.

409.8544,.01 DATE ENTERED 0;1 DATE

INPUT TRANSFORM: S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: APR 22, 2015

HELP-PROMPT: Enter the date and optional time that this patient was contacted.

DESCRIPTION: This DATE ENTERED field represents the Date that an attempt was made to contact the patient regarding 'this' appointment REQUEST. The time can also be optionally entered.

CROSS-REFERENCE: 409.8544^B

1)= S ^SDEC(409.85,DA(1),4,"B",\$E(X,1,30),DA)=" "

2)= K ^SDEC(409.85,DA(1),4,"B",\$E(X,1,30),DA)

RECORD INDEXES: AD (#1679) (WHOLE FILE #409.85)

409.8544,2 ENTERED BY USER 0;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select a user/provider

DESCRIPTION: This ENTERED BY USER field represents the user/provider that made an attempt to contact the patient regarding this appointment request.

RECORD INDEXES: AD (#1679) (WHOLE FILE #409.85)

409.8544,3 ACTION 0;3 SET

'C' FOR CALLED;

'M' FOR MESSAGE LEFT;

'L' FOR LETTER;

LAST EDITED: APR 18, 2015

HELP-PROMPT: Select an action.

DESCRIPTION: The ACTION field represents the attempt that was made to contact the patient regarding 'this' appointment. C = Called M = Message Left L = Letter

409.8544,4 PATIENT PHONE 0;4 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>20!(\$L(X)<4) X

LAST EDITED: APR 18, 2015

HELP-PROMPT: Answer must be 4-20 characters in length.

DESCRIPTION: This is the phone number used to contact the patient.

409.85,45 VS AUDIT 6;0 DATE Multiple #409.8545

(Add New Entry without Asking)

DESCRIPTION: This multiple is like an audit trail for specific fields and is used by VistA Scheduling GUI.

409.8545,.01 DATE EDITED 0;1 DATE (Multiply asked)

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: DEC 01, 2015

HELP-PROMPT: Enter a date and time

DESCRIPTION: This is the Date/Time in which the edits represented by this entry were made.

CROSS-REFERENCE: 409.8545^B

1)= S ^SDEC(409.85,DA(1),6,"B",\$E(X,1,30),DA)=" "

2)= K ^SDEC(409.85,DA(1),6,"B",\$E(X,1,30),DA)

409.8545,1 EDITED BY 0;2 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: DEC 01, 2015

HELP-PROMPT: Enter a user

DESCRIPTION: This is the user that edited the current VS AUDIT entry.

409.8545,2 REQ SPECIFIC CLINIC 0;3 POINTER TO HOSPITAL LOCATION FILE (#44)

LAST EDITED: DEC 01, 2015

HELP-PROMPT: Select a clinic

DESCRIPTION: This field represents the clinic that this appointment request is for.

409.8545,3 REQ SERVICE/SPECIALTY 0;4 POINTER TO CLINIC STOP FILE (#40.7)

LAST EDITED: DEC 01, 2015

HELP-PROMPT: Select a CLINIC STOP

DESCRIPTION: This field represents the CLINIC STOP code (also referred to as SERVICE/SPECIALTY) that is associated with this appointment request.

409.85,46 ORDER ID 7;1 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>999999999999)!(X<1)!(X?.E1"."1N.N) X

LAST EDITED: JUN 19, 2017

HELP-PROMPT: Type a number between 1 and 9999999999, 0 decimal digits.

DESCRIPTION: This field is the HL7 Message ID used for Return to Clinic orders.

TECHNICAL DESCRIPTOR:

Message ID number from the ORDER (#100) file.

409.85,47 NO LATER THAN 7;2 SET

'0' FOR NO;

'1' FOR YES;

LAST EDITED: JUN 19, 2017

HELP-PROMPT: Select 'YES' or 'NO'

409.85,48 PREREQUISITE 8;0 Multiple #409.8548

409.8548,01 PREREQUISITE 0;1 FREE TEXT (Multiply asked)

INPUT TRANSFORM: K:\$L(X)>80!(\$L(X)<1) X

LAST EDITED: JUN 29, 2017

HELP-PROMPT: Answer must be 1-80 characters in length.

CROSS-REFERENCE: 409.8548^B

- 1)= S ^SDEC(409.85,DA(1),8,"B",\$E(X,1,30),DA)=" "
- 2)= K ^SDEC(409.85,DA(1),8,"B",\$E(X,1,30),DA)

### 3.6.17. #409.86 – SDEC CONTACT

STANDARD DATA DICTIONARY #409.86 -- SDEC CONTACT FILE

FEB 7,2018@14:48:08 PAGE 1

STORED IN ^SDEC(409.86, (26 ENTRIES) SITE: TEST.CHEYENNE.MED.VA.GOV  
UCI: CHEYL134,ROU (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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---

This file is used by the VSE VS GUI. The file contains patient contact information regarding appointment follow up each time a patient is contacted. This file should not be edited using Fileman, the file is updated using the VSE VS GUI.

DD ACCESS: @

RD ACCESS: @

WR ACCESS: @

DEL ACCESS: @

LAYGO ACCESS: @

AUDIT ACCESS: @

(NOTE: Kernel's File Access Security has been installed in this UCI.)

IDENTIFIED BY: CLINIC (#1), REQUEST TYPE (#2.1)[R]

"W1.1": S %I=Y,Y=\$S('\$D(^0)');"",\$D(^DIC(40.7,+\$P(^0,U,6),0))#2:\$P(^0 ),U,1),1:""),C=\$P(^DD(40.7,.01,0),U,2) D Y^DIQ:Y]"" W " ",Y,@(

"\$E("\_DIC\_,"%I,0),0)") S Y=%I K %I  
"W2": W " ", \$\$NAKED^DIUTL("\$\$DATE^DIUTL(\$P(^0,U,3))")

CROSS REFERENCED BY: PATIENT(B)

409.86,.01 PATIENT 0;1 POINTER TO PATIENT FILE (#2)

(Required)

LAST EDITED: APR 17, 2017

HELP-PROMPT: Please enter current Patient!

DESCRIPTION: This is the Patient for this contact.

TECHNICAL DESCRIPTOR:

Pointer to the Patient(#2) file.

CROSS-REFERENCE: 409.86^B

1)= S ^SDEC(409.86,"B",\$E(X,1,30),DA)=""

2)= K ^SDEC(409.86,"B",\$E(X,1,30),DA)

409.86,1 CLINIC 0;2 POINTER TO HOSPITAL LOCATION FILE (#44)

LAST EDITED: MAY 02, 2017

HELP-PROMPT: Please enter contact clinic!

DESCRIPTION: This is the Clinic for this contact.

TECHNICAL DESCRIPTOR:

Pointer to the Hospital Location(#44) file.

409.86,1.1 SERVICE 0;6 POINTER TO CLINIC STOP FILE (#40.7)

LAST EDITED: JUN 11, 2017

HELP-PROMPT: Please enter Service for this contact.

DESCRIPTION: This is the Service for this contact.

TECHNICAL DESCRIPTOR:

Pointer to the CLINIC STOP(#40.7) file.

409.86,2 PREFERRED DATE 0;3 DATE

INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUN 11, 2017

HELP-PROMPT: Please enter Preferred Date of appointment.

DESCRIPTION: This is the Preferred Date of Appointment for this contact.

TECHNICAL DESCRIPTOR: This date field contains the Preferred Date of Appointment for this contact.

#### 409.86.2.1 REQUEST TYPE 0;4 SET (Required)

'A' FOR APPOINTMENT;

'C' FOR CONSULT;

'R' FOR RECALL;

'V' FOR VETERAN;

'M' FOR MOBILE;

'P' FOR PROCEDURE;

'E' FOR EWL;

'W' FOR W2VA;

'RTC' FOR RETURN TO CLINIC;

LAST EDITED: JUN 12, 2017

HELP-PROMPT: Select the Request Type for this contact!

DESCRIPTION: This is the Request Type of this contact.

TECHNICAL DESCRIPTOR:

Contact Request Type is a set of codes.

#### 409.86.2.2 MAIN SEQUENCE 0;5 NUMBER

INPUT TRANSFORM: K:+X'=X!(X>99)!(X<0)!(X?.E1"."1N.N) X

LAST EDITED: APR 29, 2017

HELP-PROMPT: Type a number between 0 and 99, 0 decimal digits.

DESCRIPTION: The Main Sequence field keeps track of the number of contacts.

TECHNICAL DESCRIPTOR: The Main Sequence is a numeric field that tracks the number of attempts.

#### 409.86.3 DATE/TIME of CONTACT 1;0 DATE Multiple #409.863

**DESCRIPTION:** This is the DATE/TIME multiple of the contact.

**TECHNICAL DESCRIPTOR:** DATE/TIME of CONTACT multiple tracks the number of contacts for this patient.

409.863,.01 DATE/TIME of CONTACT 0;1 DATE (Required) (Multiply asked)

INPUT TRANSFORM: S %DT="ETXR" D ^%DT S X=Y K:Y<1 X

LAST EDITED: MAY 01, 2017

HELP-PROMPT: Please enter DATE/TIME of CONTACT.

**DESCRIPTION:** This is the Date/Time of contact for this patient.

**TECHNICAL DESCRIPTOR:** This is a date/time field used to record the date/time a contact is entered.

CROSS-REFERENCE: 409.863^B

1)= S ^SDEC(409.86,DA(1),1,"B",\$E(X,1,30),DA)=" "

2)= K ^SDEC(409.86,DA(1),1,"B",\$E(X,1,30),DA)

409.863,1 CONTACT TYPE 1;1 SET

'C' FOR CALL;

'L' FOR LETTER;

LAST EDITED: JUN 11, 2017

HELP-PROMPT: Select Contact Type!

**DESCRIPTION:** This field Contact Type is how the patient is contacted.

**TECHNICAL DESCRIPTOR:** This field Contact Type is a set of codes of how a patient is contacted.

409.863,2 COMMENTS 1;2 FREE TEXT

INPUT TRANSFORM:K:\$L(X)>80!(\$L(X)<1) X

LAST EDITED: JUN 11, 2017

HELP-PROMPT: Answer must be 1-80 characters in length.

**DESCRIPTION:** This is any comments associated with this contact.

**TECHNICAL DESCRIPTOR:** This is a Free Text field used to enter comments for this contact.

409.863,3 LEFT MESSAGE 1;3 SET

'0' FOR NO;

'1' FOR YES;

LAST EDITED: JUN 12, 2017

HELP-PROMPT: Enter 'YES' if patient was left a message, else enter 'NO'.

DESCRIPTION: This field is if the patient was left a message.

TECHNICAL DESCRIPTOR:

The Left Message field is a set of codes.

409.863,4 SEQUENCE 1;4 NUMBER (Required)

INPUT TRANSFORM:K:+X'=X!(X>99)!(X<1)!(X?.E1"."1N.N) X

LAST EDITED: APR 17, 2017

HELP-PROMPT: Type a number between 1 and 99, 0 decimal digits.

DESCRIPTION: This is the Sequence of this contact.

TECHNICAL DESCRIPTOR: This field sequence is a numeric field.

409.863,5 USER ENTERED CONTACT 1;5 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: JUN 11, 2017

HELP-PROMPT: Enter user who entered the contact!

DESCRIPTION: This is the user who entered the contact.

TECHNICAL DESCRIPTOR: The User Entered Contact field is a pointer to file NEW PERSON(#200).

409.863,6 DATE/TIME ENTERED 1;6 DATE

INPUT TRANSFORM:S %DT="ETX" D ^%DT S X=Y K:Y<1 X

LAST EDITED: JUN 12, 2017

HELP-PROMPT: Enter date/time contact was entered.

DESCRIPTION: This is the date/time the contact was entered.

TECHNICAL DESCRIPTOR: This is a date/time field for when the contact was entered.

### 3.7. Exported Option

Table 6: Exported Option and Description

Option Name	Description
CS Dashboard Data Compile [SDEC REPORT DATA]	This option allows scheduling administrators to initiate the Clinical Scheduling (CS) Resource Management Report data compilation. This option is also scheduled to run every 24 hours at 1:00am to ensure data is collected each day.
Add/Edit CS Resource Management Stop Codes [SDEC ADD CLINIC STOP CODES]	This option allows CS administrators to activate or deactivate Clinic Stop Codes related to the report types displayed in the CS Resource Management Report.
View CS Resource Management Clinics [SDEC VIEW CS CLINICS]	This option displays a list of clinic hospital locations that have a Primary Stop Code that matches a CS Resource Management Stop Code.
View CS Clinic Stop Codes [SDEC VIEW CS STOP CODES]	This option displays the Clinic Stop Codes configured for the CS Resource Management Report.
CLINICAL SCHEDULING PROCEDURE CALLS [SDECRPC]	This option hosts RPCs in the SDEC namespace. Access to this option is required for use.
Refresh SDEC Index global	This option prepares the ^XTMP("SDEC","IDX" global and should be scheduled to run daily at 2:00am.
SDEC INITIAL CLEANUP UTILITY	This utility will allow the VistA user to run a clean-up of SDEC APPT REQUEST entries that are erroneously in an open current status and associated with a cancellation in the corresponding SDEC APPOINTMENT entry. These entries can be committed to a closed status.
SDEC REQ REOPENED BY SDCANCEL	This option provides a report for requests reopened by SDCANCEL. The following information is listed by clinic: patient name, patient social security number (SSN), patient telephone number, and APPT Clinically Indicated Date (CID)/preferred date.

### 3.8. Parameter Definitions

Table 7: Parameter Definitions

Parameter Name	Description
SDEC DEFAULT FONT SIZE	Font size for VistA Scheduling letters.
SDEC REQ MGR GRID FILTER	Scheduling Request Manager Grid Filter.
SDEC MENTAL HEALTH STOP CODES	This parameter identifies stop codes related to the Mental Health report type for Resource Management Reporting.
SDEC PRIMARY CARE STOP CODES	This parameter identifies stop codes related to the Primary Care report type for Resource Management Reporting.
SDEC SPECIALTY CARE STOP CODES	This parameter identifies stop codes related to the Specialty Care report type for Resource Management Reporting.
SDEC DEFAULT FONT SIZE	This parameter saves the preferred default font size for VistA Scheduling letters.
SDEC REQ MGR GRID FILTER	This parameter holds the filter preference set for the Request Manager Grid.

## 3.9. Security Keys

Table 8: Exported Security Keys

Key Name	Description
SDECVIEW	VistA Scheduling GUI users with this key will have view-only access.
SDECZMENU	All Window Scheduling users must have this key to access the application.
SDECZMGR	This key should be assigned to users who manage the overall scheduling application. This key gives access to the <b>Scheduling Management</b> menu option on the VSE applications system tab.
SDOB	This key authorizes the ability to overbook the clinic to maximum allowed, as defined in clinic set-up.
SDMOB	This key authorizes the ability to overbook in the clinic over the maximum allowed, as defined in clinic set-up.
SDWL MENU	If the user does not have this key assigned, they cannot enter a new wait list request (right click option “Transfer to EWL” from an open APPT request) or perform a disposition (right click option for EWL Disposition) of a EWL request.

## 3.10. Archiving and Purging

There is no archiving and purging in this module.

## 4. Generating Online Documentation

This section describes a few methods to generate VistA Scheduling GUI system technical documentation. VistA Scheduling GUI software technical documentation can be generated through the use of several Kernel options, in addition to that which may be accessed via the **Help** prompts throughout the VistA Scheduling GUI module. Such Kernel options include, but are not limited to, the following:

- %INDEX
- VA FileMan
- Data Dictionary Utilities
- List File Attributes

For further information about other utilities that supply online technical information, consult the VistA Kernel reference manual.

### 4.1. %INDEX

This option analyzes the structure of a routine to determine, in part, if the routine adheres to VistA programming standards. The %INDEX output can include the following components:

- Compiled list of errors and warnings
- Routine listing
- Local variables
- Global variables
- Naked globals
- Label references
- External references

Running %INDEX for a specified set of routines allows users to discover any deviations from VistA programming standards that exist in the selected routines, and to see how routines interact with one another; for example, which routines call, or are called by, other routines.

## **4.2. List File Attributes**

VA FileMan option allows users to generate documentation pertaining to files and file structure. Using the standard format of this option yields the following data dictionary information for a specified file:

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified
- Files that point to the file specified
- Input, print, and sort templates

In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description
- Global location
- Help prompt
- Cross-references
- Input transform
- Date last edited
- Notes

Using the global map format of this option generates an output that lists the following information:

- All cross-references for the file selected
- Global location of each field in the file
- Input, print, and sort templates

## **4.3. Standards and Conventions Requirements and Exemptions**

There are no exemptions to the Standards and Conventions (SAC) standards for this version.

## **4.4. Callable Routines**

Not applicable.

## 5. Glossary and Acronyms

Table 9: Terms and Definitions

Term / Acronym	Definition
ANSI	American National Standards Institute
APPT	Appointment
Archiving	The storing of historical or little used data off-line (often on tape)
ASCII	American Standard Code for Information Interchange
Banner	A line of text with a user's name and domain
Browser	An interactive application that displays American Standard Code for Information Interchange (ASCII) text on a terminal that supports a scroll region; text can be in the form of a word-processing field or sequential local or global array and the user is allowed to navigate freely within the document
Callable Entry Points	Places in a routine that can be called from an application program
CID	Clinically Indicated Date
CIT	Component Integration Testing
Cross-reference	An indexing method whereby files can include pre-sorted lists of entries as part of the stored database; cross-references (x-refs) facilitate look-up and reporting
CS	Clinical Scheduling
Default Facility	A user selects a facility identification to work with patients registered to that facility
Dev	Developer
Entry Point	Entry point within a routine that is referenced by a "DO" or "GOTO" command from a routine internal to a package
EWL	Electronic Wait List
File	A set of related records or entries treated as a single unit
FileMan	The database management system for VistA
GB	Gigabyte
Global	In Massachusetts General Hospital Utility Multi-Programming System (MUMPS), global refers to a variable stored on disk (global variable) or the array to which the global variable may belong (global array)
GUI	Graphical User Interface

Term / Acronym	Definition
INDEX (%INDEX)	A Kernel utility used to verify routines and other MUMPS code associated with a package; checking is done according to current American National Standards Institute (ANSI) MUMPS standards and VistA programming standards – this tool can be invoked through an option or from direct mode (>D^%INDEX)
Init	Initialization of an application package; the initialization step in the installation process builds files from a set of routines (the init routines)
IEN	Internal Entry Number: The number used to identify an entry within a file; every record has a unique IEN
IOC	Initial Operating Capability
IP	Internet Protocol
Kernel	The set of MUMPS software utilities that function as an intermediary between the host operating system and application packages, such as Laboratory and Pharmacy; Kernel provides a standard and consistent user and programmer interface between application packages and the underlying MUMPS implementation – these utilities provide the foundation for VistA
KIDS	Kernel Installation and Distribution System
Menu	A list of choices for computing activity; a menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection – when displayed, menu options are preceded by the word “select” and followed by the word “option” (as in: select <i>Menu Management</i> option, the menu’s select prompt)
MS	Microsoft
MUMPS	Massachusetts General Hospital Utility Multi-Programming System
Namespace	A unique set of two to four alpha characters that are assigned by the database administrator to a software application
Option	An entry in the <b>Option</b> file; as an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity – options may also be scheduled to run in the background, non-interactively, by TaskMan
PIMS	Patient Information Management System
Queuing	Requesting that a job be processed at a later time rather than within the current session

Term / Acronym	Definition
RAM	random access memory
RPC	Remote Procedure Call: An entry in the REMOTE PROCEDURE file that points to specific M code to execute when called by an external Windows application
Routine	A program or sequence of instructions called by a program that may have some general or frequent use; MUMPS routines are groups of program lines that are saved, loaded, and called as a single unit via a specific name
SAC	Standards and Conventions
SQA	Software Quality Assurance
SSN	Social Security Number
TW	Technical Writer
UCI	User Class Identification: A computing area
Up-Hat (^)	A circumflex, also known as a "hat" (or "caret") that is used as a piece delimiter in a global; the up-hat is denoted as "^" and is typed by pressing <b>Shift + 6</b> on the keyboard
Utility	A callable routine line tag or function; a universal routine usable by anyone
VA	Department of Veterans Affairs
Variable	A character or group of characters that refers to a value; MUMPS recognizes three types of variables: local variables, global variables and special variables – local variables exist in a partition of the main memory and disappear at sign-off; a global variable is stored on disk, potentially available to any user, and usually exist as parts of global arrays
VistA	Veterans Health Information System and Technology Architecture
VSE	VistA Scheduling Enhancements
WYSIWYG	What You See Is What You Get
X-refs	Cross-references

## **6. Appendix A: Resource Management Reporting Implementation (OBSOLETE)**

**NOTE: This functionality was disabled in GUI version 2.0.0.8. This information is retained for future reference.**

Resource Management Reporting displays pertinent resource management metrics in a single view, the report is used by individual facilities and staff to measure and track supply, demand, and efficiency metrics related to clinic appointments and patient encounters in VistA.

### **6.1. System Requirements**

- System Requirements to run the executable Java Archive (JAR)
  - JRE (Java Run Time Environment) 1.6 or older.
  - Jaspersoft – iReport viewer 5.6 or newer.
- System Requirements for application development
  - JDK (Java Development Kit) 1.6
  - Eclipse IDE
  - Jaspersoft – iReport viewer 5.6 or newer.
  - XML Editor (Textpad, EditPlus, Notepad)

### **6.2. Application Files**

**SDEC\_VSE\_ReportConsole.jar** is the executable JAR package file which launches the GUI for report console. The GUI will display all the available filter options to be selected before generating the report. The filters are explained below.

**SDEC\_VSE.xml** acts as the source file from where the data will be collected, parsed and populated into the UI filters. This file is used again to generate the Jasper Reports.

**JRXML files** are JasperReport template files, they are actually standard XML formatted files but have the .jrxml extension. All the JRXML files contain tag <jasperReport>, as root element, and also contain many sub-elements that constitute all of the report definition and properties. Resource Management Reporting uses an XML formatted file as the data source for rendering the report and charts. During the report rendering process the .jrxml file is compiled into a corresponding .jasper file.

**SDEC\_VSE\_ReportTemplate.jrxml** is the template file for the main report, it contains references to the compiled charts reports (.jasper) files. During the rendering process the jrxml file is compiled into a SDEC\_VSE\_ReportTemplate.jasper file.

**TotalDemandCharts.jrxml** is the template file for the Total Demand line chart subreport. The jrxml file is compiled into its own corresponding TotalDemandCharts.jasper file.

**TotalDemandSupplyCharts.jrxml** is the template file for the Total Demand and Total Supply combined column chart subreport. The jrxml file is compiled into its own corresponding TotalDemandSupplyCharts.jasper file.

**TotalSupplyCharts.jrxml** is the template file for the Total Supply line chart subreport. The jrxml file is compiled into its own corresponding TotalSupplyCharts.jasper file.

**VSE\_LOG.log** is used to log any errors or warnings when the Resource Management Reporting java application is executed. This component was implemented using the Log4J java logging framework. Log4J is an open source API which lets the developer log any kind of statements as part of the application execution. This helps in tracking errors and other warnings to aid in troubleshooting any issues with the application.

The Resource Management application is utilizing the Log4J API to log any errors or warnings into a new file named “VSE\_LOG.log”. This file is created at runtime and stored with all of the application files in the designated application folder. The file contains the complete stack trace of the error/warning. The Java application creates one log file per each time it is executed by the user and this existing log file is always overwritten each time the application is launched or re-launched. However, if we have multiple errors/warnings as part of the same instance of the program execution, then the errors/warnings are appended to the existing log file.

### **6.3. Resource Management Reporting Java Application Build Process**

**This functionality is disabled per the VSE Additional Enhancements Modifications – Epic 13.6; therefore, the remainder of this section is no longer applicable.**

The application is mainly built using the Ant tool and a build script (build.xml). The build file defines the class path and the prerequisites which include all the external JAR dependencies. All of the dependencies will be copied into a single structure and the source files will be compiled. The compiled class files will be packaged along with the dependent JAR libraries, configurations, and XML files. We are using Ant version 1.9.4.

## 6.4. Data Flow Diagram

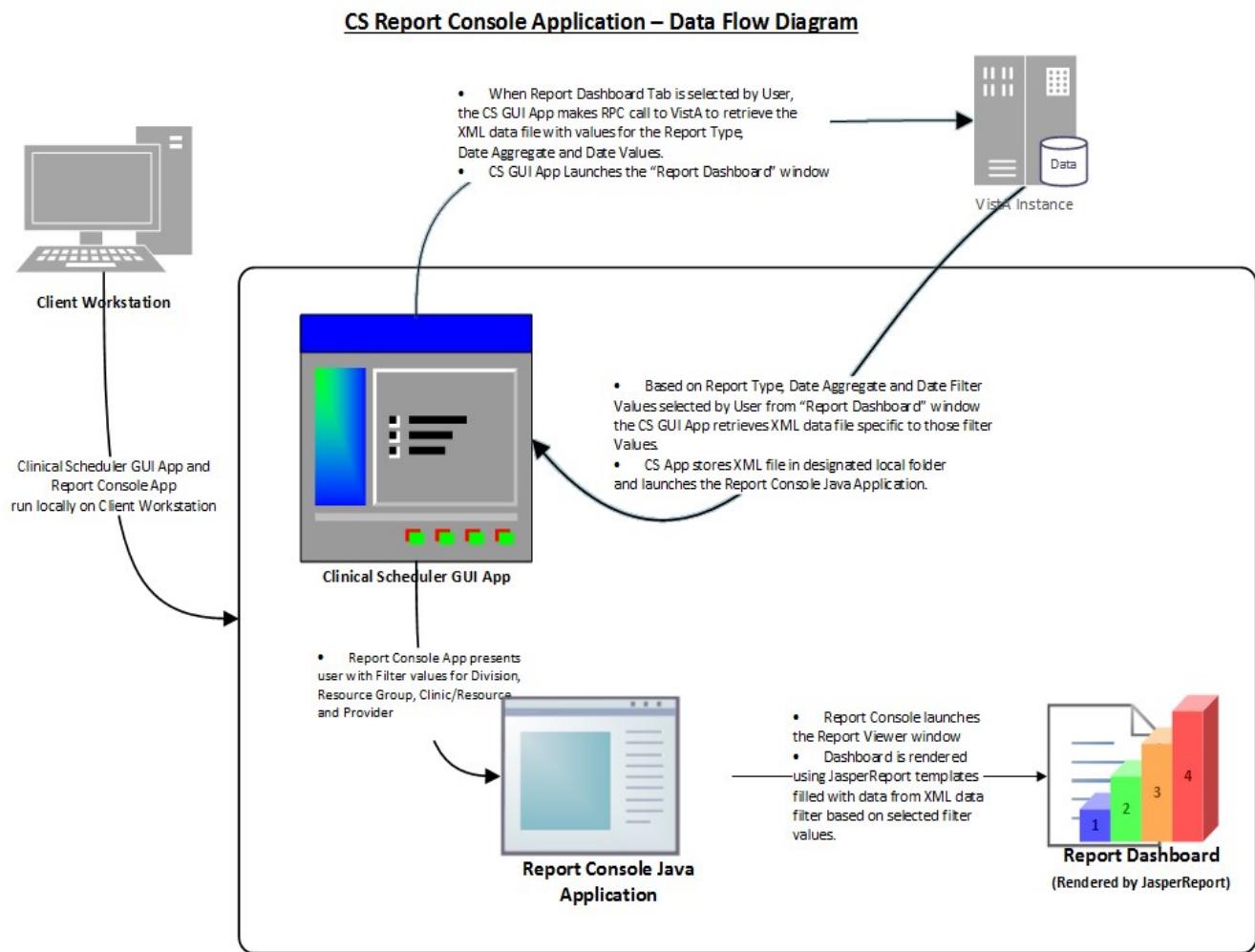


Figure 38: VistA Scheduling GUI Data Flow Diagram

## 6.5. Implementation of Report Filters

Some of the filters (Report Type, Date and Date Aggregate) will be selected on the VistA Scheduling GUI by the user before the Report Console is started. These three filter values will be part of the SDEC\_VSE.xml document. When the UI for report console is initiated, the Java application will immediately look for these filters on the XML document and populate them as the default values on the Report Console. All other remaining filters would have generic values. Once the UI is up and running with these default filters, the User can select any value from the renaming filter lists to kick start the hierarchy.

Below are fragments of the XML source file which has the default filter values for Report Type, Date and Date Aggregate.

```
<?xml version="1.0" encoding="UTF-8"?>
<VAFacility Name="CHEYENNE VAMC" ID="442">
    <ReportType ReportType="Primary Care">
```

```

<DateAggregate DateAgg="Year">
    <Date ActivityDate="01/23/2015" BeginDate="01/23/2014"
        EndDate="01/23/2015" DateName="01/23/2014-01/23/2015">
        ....SOURCE XML BODY....
    </Date>
</DateAggregate>
</ReportType>
</VAFacility>

```

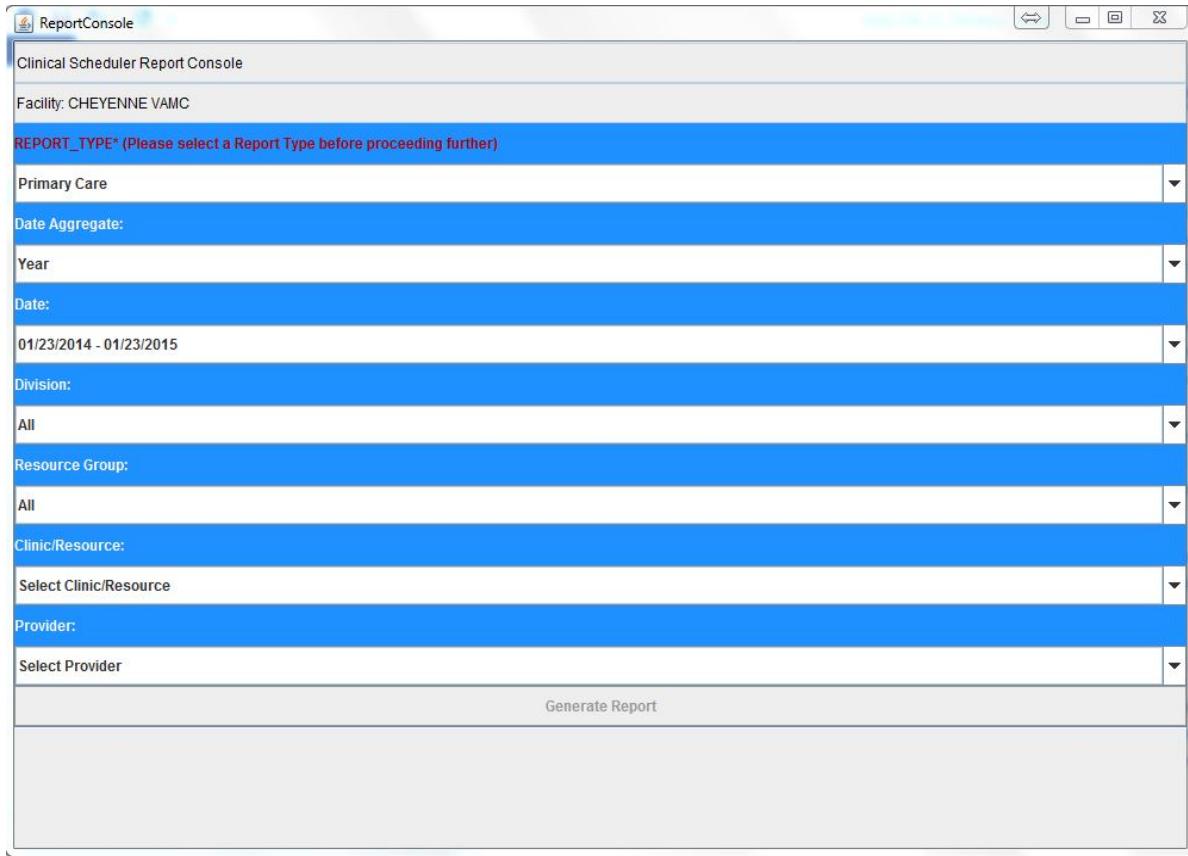
## 6.6. Resource Management Reporting Application Functions

### 6.6.1 Report Filter Functionality

All the filters populated in the report UI will be part of the data parsed from the input SDEC\_VSE.xml. All the filters are based on a hierarchical structure, where each filter is dependent on the parent filter selection. The hierarchy and descriptions are described below:

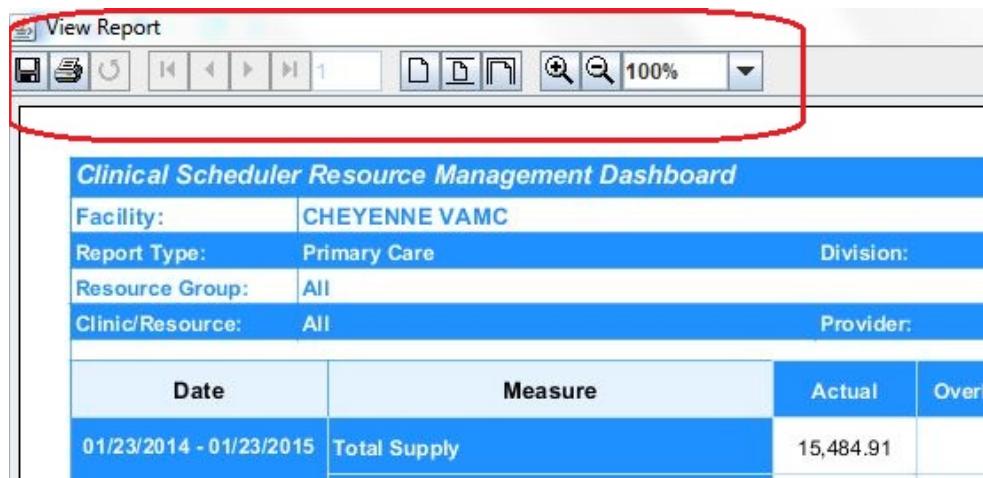
- **VA Facility** is the name of the facility for which reports are generated.
- **Report Type** defaults to the type from the VistA Scheduling GUI for which the report is being generated.
- **Date Aggregate** is the duration of the appointment cycle also defaulted to the value from the VistA Scheduling GUI. The available values are Year, Quarter, Month, Week, and Day.
- **Date** represents the activity date based on the date aggregate selected from the VistA Scheduling GUI. This filter normally has the range of dates available by week, month, quarter, and year.
- **Division** filter is populated with all the available Division names available for the selected date activity. Based on the data from the source XML, this filter will let the user select ‘ALL’ divisions.
- **Resource Group** filter contains a list of available resource groups for the selected division. When ‘All’ Divisions are selected, this filter will contain all the available Resource Groups for all the Divisions. Based on the data from the source XML, this filter will let the user select ‘ALL’ resource groups and is defaulted to ‘All’ groups.
- **Clinic/Resource Name** filter represents the Clinics & Resource names under the selected Resource Group. The filter will not have any default values and the user has to make a selection to continue with the report generation process. Based on the data from the source XML, this filter will let the user select ‘ALL’ clinics/resources.
- **Provider** filter represents the Provider names under the selected Resource Group & Clinics. The filter will not have any default values and the user has to make a selection to continue with the report generation process. Based on the data from the source XML, this filter will let the user select ‘ALL’ providers for the selected Clinics

Once all filters are selected, the **Generate Report** button is activated and the user can generate the required report with charts (if chart data is available). See diagram below:



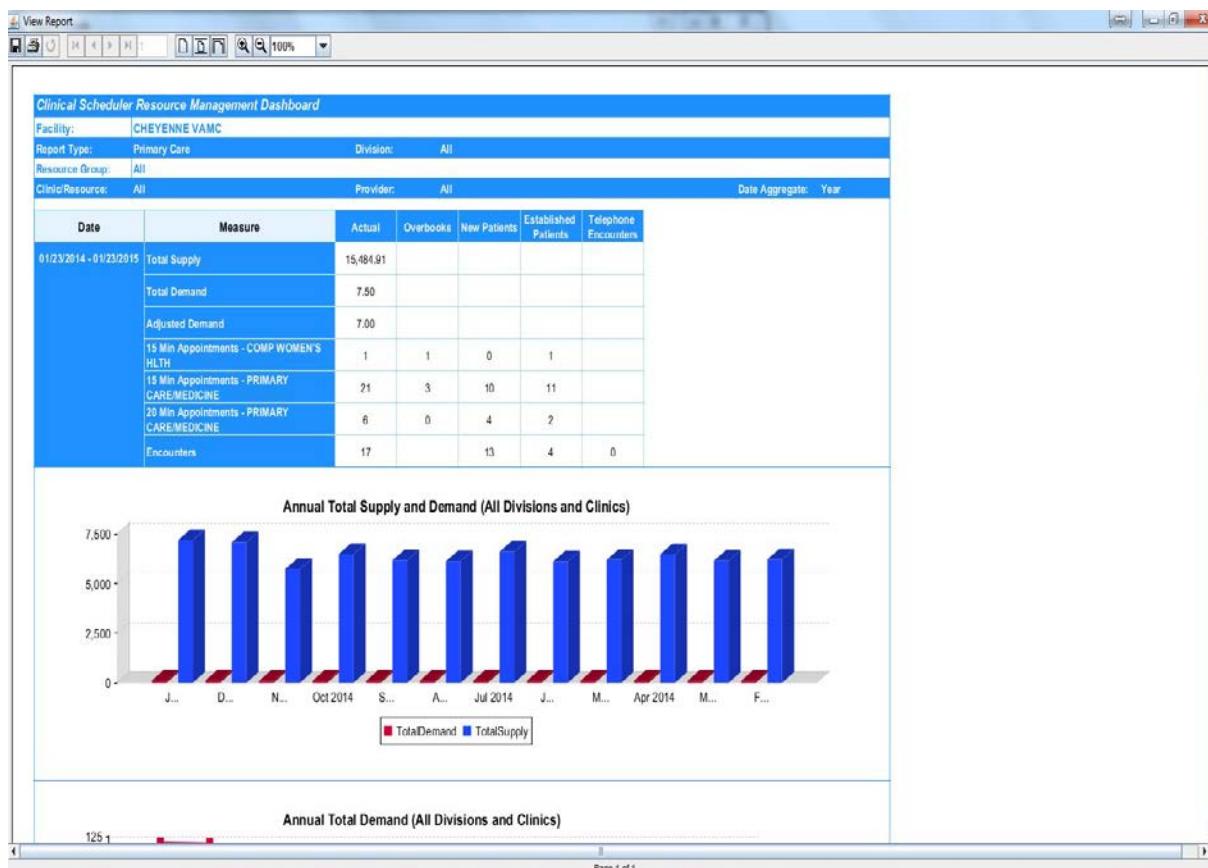
**Figure 39: VistA Scheduling GUI Report Console**

The report is opened in another applet window, the Report Viewer window, which lets the user print, save or export the report to 3 different formats, these are pdf, csv and rich text format (rtf) formats. The image below highlights the Save/Export and Print Features as implemented with the Report Viewer applet.



**Figure 40: Save/Export/Print Features**

Once the report is generated and saved, the user can switch back to the report console window at any point and generate different reports with a different set of filters. See image below for an example of the Report Viewer UI.



**Figure 41: Report Viewer**

## 6.6.2 Java Classes Implementation

The Resource Management Reporting application is a Swing based Java application developed using Java and JasperReport components. The Java classes utilized in the project are outlined below:

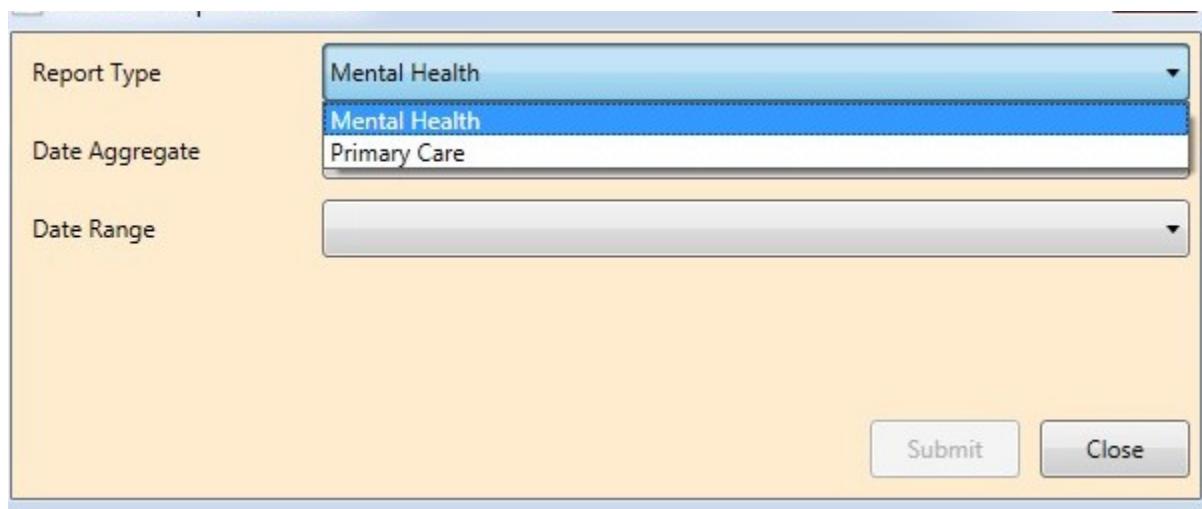
**Table 10: Java Class Name and Purpose**

Class Name	Purpose
ReportConsole.class	Main implementation class which invokes the GUI.
XMLParser.class	This is a DOM/XPath based parser used to parse the GUI filter data from the incoming source XML from Resource Management Reporting.
ReportsAndCharts.class	This is the reports implementation class which takes the data from the GUI and looks through the source XML for data needed to generate the reports and charts
XPathQueryReplacer.class	This is a utility class used to append the incoming facility name into the Jasper Reports query.

Class Name	Purpose
Utilities.class	This is another utility method which stores all required utility methods.
VSEConstants.class	This is a method which holds all constant values for the application's use.
Build.xml	This is the ant script which is used for building the jar file with all dependencies.

### 6.6.3 Report Viewer Functionality

The Reports tab of the VISTA SCHEDULING GUI application launches the Resource Management Reporting Filter window where a user can input filters values such as the Report Type, Date Aggregate and Date values for the reports that they wish to display. This UI is shown below:



**Figure 42: Report Viewer Functionality**

After a User selects the first 3 filters for a Report and they click the submit button, they are presented with the Report Console Application with another set of filter inputs that they can use to further filter report data.

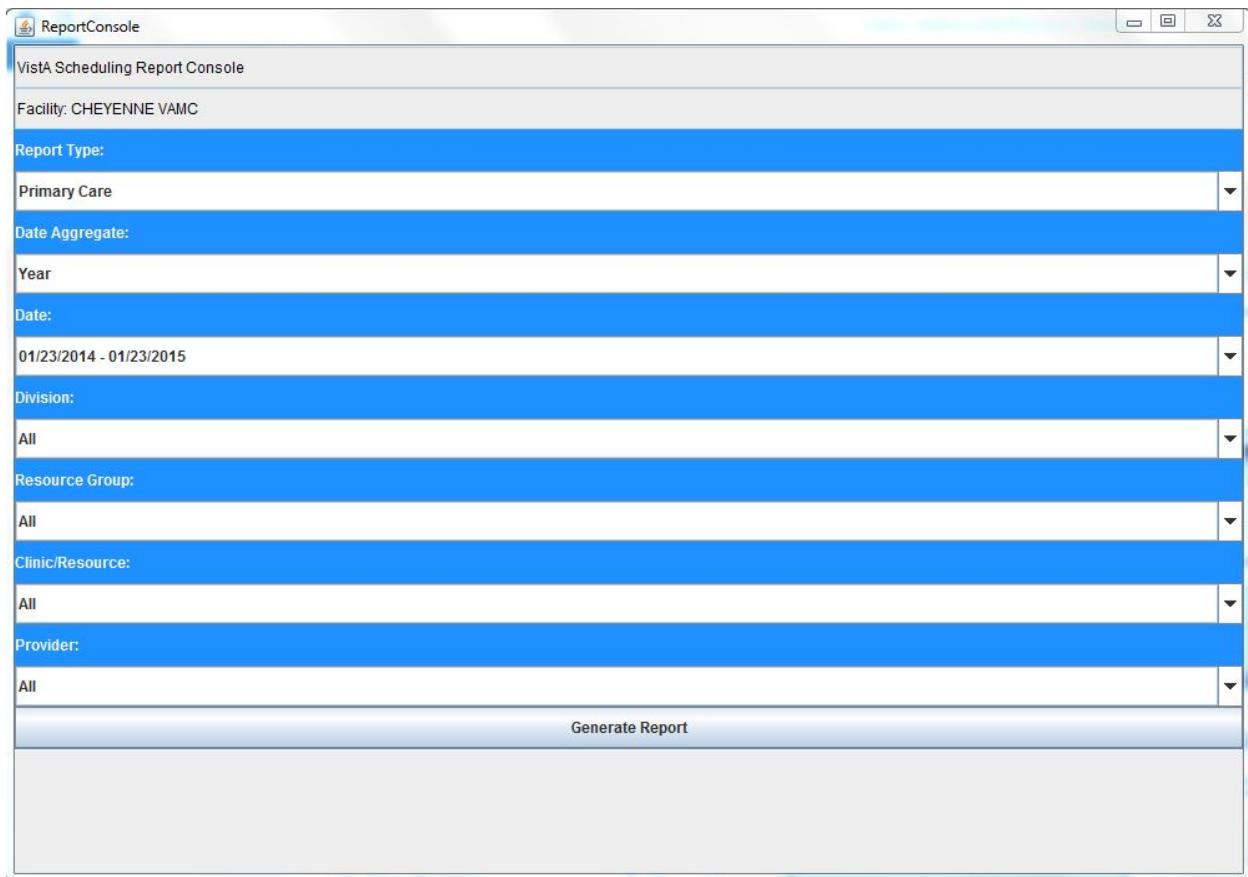


Figure 43: Report Console

#### 6.6.4 Report Viewer Error Handling and Resolution

The VISTA SCHEDULING GUI application is designed to launch the Resource Management Reporting Application within a Java Virtual Machines (JVM) window by executing the compiled java application (.jar) file with an argument to provide the location of the folder where the data source file (SDEC\_VSE.xml) and the JasperReport template files (.jrxml). An example of the command to launch the Resource Management Reporting Application with the required argument is shown below:

***Java -jar SDEC\_VSE\_ReportConsole.jar C:\Users\VA\_User\Documents***

If the path to the folder provided in the argument does not exist or is otherwise invalid, then the user will see an error window.

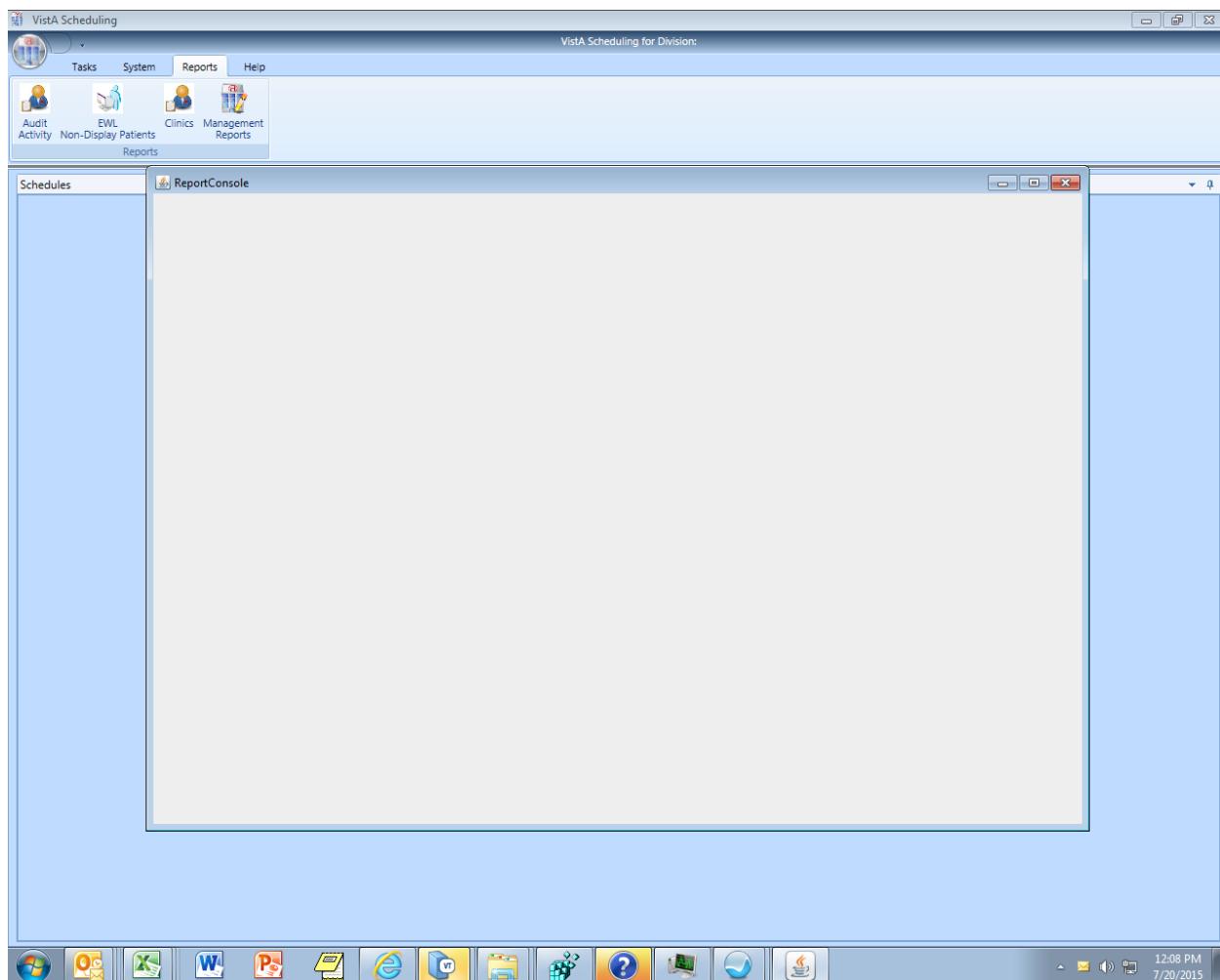
Some of the causes and potential resolution of this errors are listed in the sections below.

##### 6.6.4.1 Invalid Folder or Folder Does Not Exist

When the folder location provided to the Resource Management Reporting java application does not exist, an error window is displayed. The VS GUI application uses the HOMEPATH windows environment variable to determine the documents folder for storing the application working files, i.e. the .xml and .jrxml files, check the value set for the HOMEPATH variable to confirm that the folder is valid and that the user is has access to this folder.

#### **6.6.4.2 Missing Source Data File (SDEC\_VSE.xml)**

The VISTA SCHEDULING GUI application uses RPCs to download the source data XML file from the central server to the folder path set by the HOMEPATH environment variable on the user's local workstation. When a user launches the Resource Management Reporting Application, this XML files is accessed and parsed by the application in order to render the report content, if there was an issue with downloading the XML file either because of access permission issue or an invalid folder path and the file is missing from the designated HOMEPATH folder, then the user would see an empty Report Viewer window as shown below:



**Figure 44: Report Viewer**

In order to resolve this issue, check that the user has the right permissions to the HOMEPATH folder and also check that the folder name that is set in this environment variable does not have invalid characters such as "\$" or "&" that may cause the process of parsing the folder name to fail. If there are invalid characters in the folder name then this issue may have to be escalated to the development team to review and resolve.

#### **6.6.4.3 Java Application Exception Error Logs**

The Resource Management Reporting Application is designed to log java exception errors to a log file “SDEC\_VSE\_LOG.log”. This log file is usually created in the same working folder as the .XML data source file and .JRXML JasperReport template files. The java exceptions logged into the file provide critical information for diagnosing issues with launching and using the Resource Management Reporting Application. An excerpt from the contents of the log file below shows a scenario where the data source XML file was not found by the application at runtime, in this case the issue will have to be resolved by ensuring that the XML file was properly created and loaded into the correct folder as expected by the application.

```
Jun 01, 2015 7:53:59 PM gov.va.med.scheduling.utilities.Utilities logger
INFO: Exception in XML Parser
Jun 01, 2015 7:53:59 PM gov.va.med.scheduling.utilities.Utilities logger
INFO: java.io.FileNotFoundException: C:\temp\Test My Documents\SDEC_VSE.XML (The
system cannot find the file specified)
    at java.io.FileInputStream.open(Native Method)
    at java.io.FileInputStream.<init>(Unknown Source)
    at java.io.FileReader.<init>(Unknown Source)
    at gov.va.med.scheduling.infra.XMLParser.replaceAposInXML(XMLParser.java:304)
    at gov.va.med.scheduling.infra.XMLParser.loadFilters(XMLParser.java:49)
    at gov.va.med.scheduling.ui.ReportConsole.getFacilityName(ReportConsole.java:433)
    at gov.va.med.scheduling.ui.ReportConsole.<init>(ReportConsole.java:53)
    at gov.va.med.scheduling.ui.ReportConsole.main(ReportConsole.java:420)
```