

Department of Veterans Affairs

VistA Scheduling Enhancements (VSE)

Enhancement 1: An Aggregated View of VistA Clinic Profile

Scheduling Grids for VistA Scheduling

Enhancement 2: A Single Queue for Appointment Requests

SD*5.3*627

SD*5.3*642

Enhancement 3: Resource Management Reporting

SD*5.3*628

Technical Manual



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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:

- MS Windows user interface
- Graphical patient, clinic, provider, and resource scheduling
- Tightly linked 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 linked 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
- View schedules for multiple clinics simultaneously
- Resource Management Reporting for viewing metrics related clinic appointments and patient encounters in Vista

1.1. Security

The Vista Scheduling GUI uses 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 your site administrator to determine or change your 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 is to install patches SD*5.3*627 and SD*5.3*628 using the Kernel Installation & Distribution System (KIDS) module and 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. 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.

2.1. System Requirements

- Server
 - Cache version 5.0
 - Kernel version 8
 - PIMS version 5.3 patch 1012
 - VistA Scheduling Patch SD*5.3*627
 - VistA Scheduling Patch SD*5.3*628
- Client
 - .Net Version 4.0 or higher.
 - 4 GB RAM

2.2. Package-Wide Variables

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

2.3. Menu Diagram

VistA Scheduling GUI menus are discussed in detail in the *VistA Scheduling Enhancements Enhancement 1, Enhancement 2, and Enhancement 3 User Guide*.

2.4. Routines

Table 1: 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

Routine	Description
SDCODEL	ALB/RMO,ESW - Delete - Check Out
SDEC	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01	ALB/SAT - VISTA SCHEDULING RPCs
SDEC01A	ALB/SAT - VISTA SCHEDULING RPCS
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
SDEC07B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC08	ALB/SAT - VISTA SCHEDULING RPCs
SDEC09	ALB/SAT - VISTA SCHEDULING RPCs
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

Routine	Description
SDEC25	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC25B	ALB/SAT - VISTA SCHEDULING RPCs
SDEC26	ALB/SAT - VISTA SCHEDULING RPCs
SDEC27	ALB/SAT - VISTA SCHEDULING RPCs
SDEC28	ALB/SAT - VISTA SCHEDULING RPCs
SDEC29	ALB/SAT - VISTA SCHEDULING RPCs
SDEC30	ALB/SAT - VISTA SCHEDULING RPCs
SDEC31	ALB/SAT - VISTA SCHEDULING RPCs
SDEC32	ALB/SAT - VISTA SCHEDULING RPCs
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
SDEC52	ALB/SAT - VISTA SCHEDULING RPCs
SDEC52A	ALB/SAT - VISTA SCHEDULING RPCs
SDEC52B	ALB/SAT - VISTA SCHEDULING RPCS

Routine	Description
SDEC53	ALB/SAT - VISTA SCHEDULING RPCs
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
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
SDECDIQ1	ALB/SAT - VISTA SCHEDULING RPCs
SDECAR	ALB/SAT - VISTA SCHEDULING RPCS
SDECAR1	ALB/SAT - VISTA SCHEDULING RPCS
SDECAR2	ALB/SAT - VISTA SCHEDULING RPCS
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
SDECFC	ALB/SAT - VISTA SCHEDULING RPCs
SDECFC2	ALB/SAT - VISTA SCHEDULING RPCs
SDECFUNC	ALB/SAT - VISTA SCHEDULING RPCs
SDECGMR	ALB/SAT - VISTA SCHEDULING RPCS
SDECI2	ALB/SAT - VISTA SCHEDULING RELEASE 2 PRE/POST INSTALL

Routine	Description
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
SDECPTPL	ALB/SAT - VISTA SCHEDULING RPCs
SDECRMG	ALB/SAT - VISTA SCHEDULING RPCS
SDECRMG1	ALB/SAT - VISTA SCHEDULING RPCS
SDECRMG2	ALB/SAT - VISTA SCHEDULING RPCS
SDECRPC	ALB/SAT - VISTA SCHEDULING RPCs
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
SDECUT1A	ALB/SAT - VISTA SCHEDULING RPCS

Routine	Description
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
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

2.5. Files and Tables

Table 2: Files 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

2.5.1. File Access

Table 3: File Access

File Number	GL	RD	WR	LYG	DD	DEL
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,					

2.5.2. Client Application Dependencies and Files

Table 4: 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	Required functionality for cancelling appointments and Appointment Requests.
ChangeDivision.dll	Functionality required for Changing Divisions and invoking Authentication functionality for Division.

Clinical Scheduler Files	Description
CheckIn.dll	Functionality required to check in Patients for a selected appointment.
CheckOut.dll	Functionality required to check out patients for a selected appointment
DataAccess.dll	This is the primary Data Access Layer designed to interface with VistA remote procedure calls.
FindAppt.dll	Functionality required for searching and finding appointments based on criteria set.
Management.dll	Functionality required for managing Users, Clinics and Clinic Groups.
MarkAsNoShow.dll	Functionality required 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	Functionality required to Create New Appointments.
PatientSelection.dll	Functionality required to select a Patient from the VistA Patient file.
Reports.dll	Functionality required to support the GUI reports implemented in E1/E2 and E3.
ResourceSelection.dll	Functionality required for users to select Resources, Clinics and Clinic Groups.
Ribbon.dll	This library contains the tabs and controls that display in the application that 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	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,

Clinical Scheduler Files	Description
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.ExceptionHandling.Logging.dll Microsoft.Practices.EnterpriseLibrary.Logging.dll Microsoft.Practices.ObjectBuilder2.dll Microsoft.Practices.ServiceLocation.dll Microsoft.Practices.Unity.dll	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.
3rd Party Controls	
DotNetBar for WPF (v 7.6.0.7)	LicenseKey - DAD80300DA22 http://www.devcomponents.com/ DevComponents.WpfEditors.dll DevComponents.WpfRibbon.dll DevComponents.WpfSchedule.dll
Telerik Windows Controls (v 2010.1.603.35)	Telerik Windows controls are used by the GUI for displaying dialog boxes, user input fields such as Text, Radio/Check Buttons, Drop Down and Combination Lists, and other UI elements.
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.Data.dll	
Client Configuration Files	
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 Application Settings section of this file allows the user to modify the default VistA server connection that the user will need to authenticate against during application start up.</p> <pre> <appSettings> <add key="host" value="ServerName" /> <add key="port" value="Port" /> <add key="nspac" value="Namespace" /> </appSettings></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.Controls.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

2.5.2.1. VistA Scheduling GUI Trace Log

The VistA Scheduling GUI Trace Log is a custom GUI designed to inspect and debug server side VistA Remote Procedure Calls (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”.

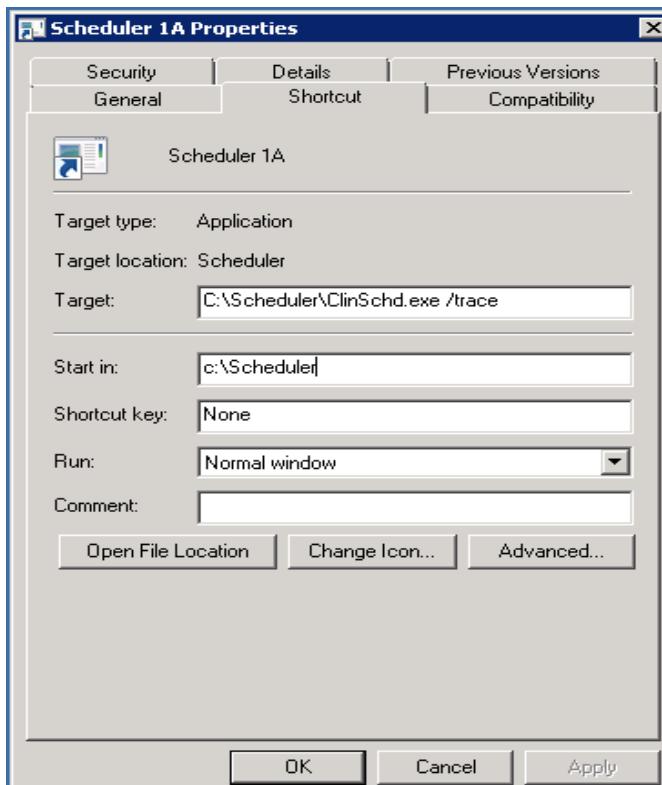


Figure 1: Trace Log Capability Shortcut

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

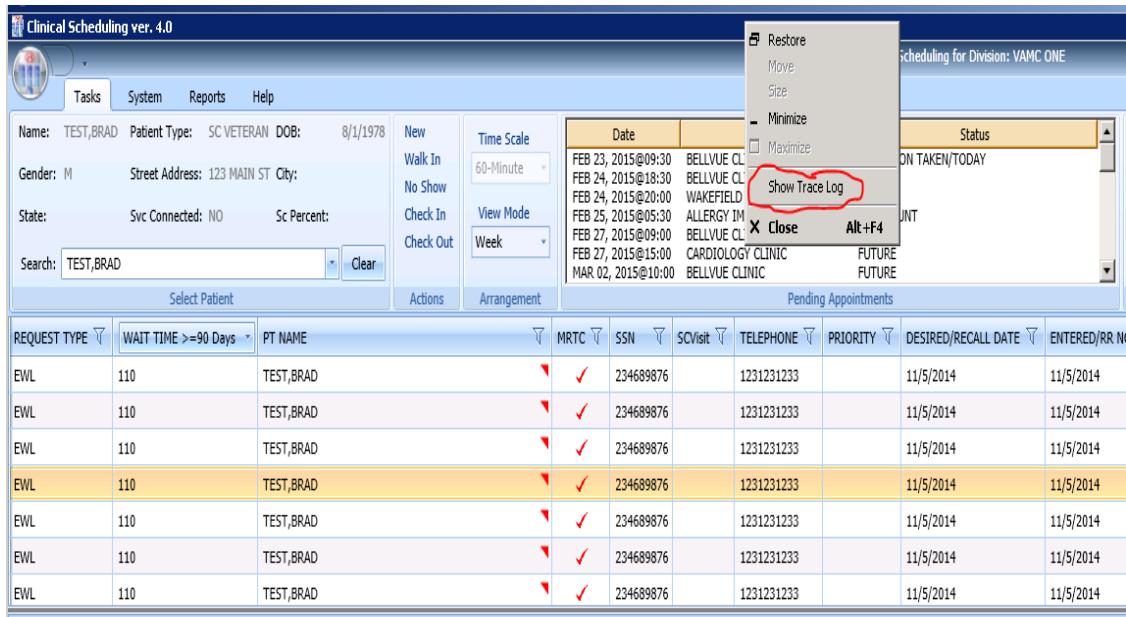


Figure 2: Show Trace Log Menu Option

The screenshot shows the 'Trace Log' window from the VistA Scheduling GUI. The log entries are listed in a table with columns for #, Class, and Type. The log details a series of RPC calls, parameters, and results. Key entries include:

```

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

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 - PTSD~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@08:00^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^
34~24^ALLERGY ZAVALA~MAR 09, 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 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^

```

Buttons at the bottom include First, Previous, Next, Last, Suspend, Clear, Hide, Print, Export, and Max Entries (set to 1000). Status bar at the bottom shows: Current: 62 | Total: 73 | Maximum: 1000 | Logged: 73 | Class Filters: none | Type Filters: none.

Figure 3: 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.

2.5.2.2. Request Management

The VSE scheduler creates and manages several different types of appointment requests: Appointments (APPT), Waitlist entries (EWL), Recalls, and Consults. These requests are retrieved in stored in different files in VistA. To view requests users will submit queries to the VistA server in order to retrieve individual requests. Users can search by patients 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 current query. 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.

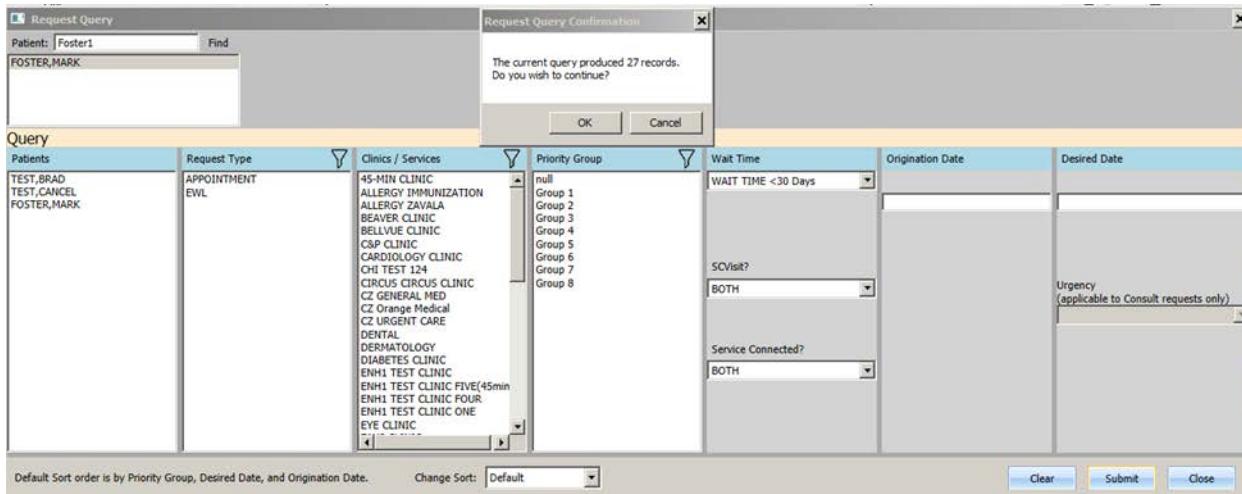


Figure 4: Request Query

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	MRTC	SSN	SCV#	TELEPHONE	PRIORITY	DESIRED/RECALL DATE	ENTERED/VR NO DATE	REQUESTOR	REQUESTED BY	CLINIC/SERVICE	COMMENT
APPT	2	TEST,BRAD		234689876	✓	3231231233	GROUP 1	5/28/2015	5/26/2015		DOCTOR,TWO	ALLERGY ZAVALA	
APPT	15	TEST,BRAD		234689876	✓	3231231233	GROUP 1	6/1/2015	5/1/2015	PATIENT	PATIENT	HIGG MEDICAL CENTER	THIS IS A TEXT COMMENT
APPT	15	TEST,BRAD		234689876	✓	3231231233	GROUP 1	6/2/2015	5/1/2015	PATIENT	PATIENT	ENH TEST CLINIC ONE	PATIENT CANNOT SEE
APPT	15	TEST,BRAD		234689876	✓	3231231233	GROUP 1	6/3/2015	5/1/2015	PATIENT	PATIENT	EYE CLINIC	THIS IS A COMMENT
APPT	1	TEST,BRAD		234689876	✓	3231231233	GROUP 1	6/10/2015	5/27/2015	PROVIDER	DOCTOR,ONE	CARDIOLOGY CLINIC	
APPT	1	TEST,BRAD		234689876	✓	3231231233	GROUP 1	6/17/2015	5/27/2015	PROVIDER	DOCTOR,ONE	CARDIOLOGY CLINIC	(Appt: 5; Interval: 7)
APPT	1	TEST,BRAD		234689876	✓	3231231233	GROUP 1	6/24/2015	5/27/2015	PROVIDER	DOCTOR,ONE	CARDIOLOGY CLINIC	
APPT	16	TEST,BRAD		234689876	✓	3231231233	GROUP 1	7/14/2015	5/1/2015	PATIENT	PATIENT	MESA CLINIC	(Appt: 2; Interval: 10)
APPT	25	TEST,BRAD		234689876	✓	3231231233	GROUP 1	7/21/2015	5/3/2015	PATIENT	PATIENT	BILLVUE CLINIC	(Appt: 2; Interval: 10)
APPT	17	TEST,BRAD		234689876	✓	3231231233	GROUP 1	7/21/2015	5/1/2015	PATIENT	PATIENT	BEAVER CLINIC	
APPT	21	TEST,BRAD		234689876	✓	3231231233	GROUP 1	8/32/2015	5/7/2015	PATIENT	PATIENT	BEAVER CLINIC	
APPT	27	TEST,BRAD		234689876	✓	3231231233	GROUP 1	9/9/2015	5/1/2015	PATIENT	PATIENT	BILLVUE CLINIC	(Appt: 2; Interval: 10)
EWL	17	FOSTER,MARK		54329755	✓	951-654-2699	GROUP 3	7/7/2015	5/1/2015	PATIENT	PATIENT	ENH TEST CLINIC	
APPT	2	FOSTER,MARK		54329755	✓	951-654-2699	GROUP 3	5/28/2015	5/26/2015	DREW,NANCY	PATIENT	ALLERGY ZAVALA	

Figure 5: Query Results

2.6. VistA Scheduling GUI Cross References

TRADITIONAL CROSS-REFERENCE LIST -- FILE #44

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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),0,2)
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)

Figure 6: VistA Scheduling GUI Cross Reference

```

AG (#1165) 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)

```

Figure 7: VistA Scheduling GUI Cross Reference (cont.)

```

AC (#1162) 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)

```

Figure 8: VistA Scheduling GUI Cross Reference (cont.)

```

AC (#1163) 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)

```

Figure 9: VistA Scheduling GUI Cross Reference (cont.)

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.3, FIELD #8.5 10/28/15 PAGE 1

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)

■ Figure 10: VistA Scheduling GUI Cross Reference (cont.)

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.3, FIELD #23 10/28/15 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)

■ Figure 11: VistA Scheduling GUI Cross Reference (cont.)

TRADITIONAL CROSS-REFERENCE LIST -- FILE #409.3, FIELD #1 10/28/15 PAGE 1

ET00 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)

Figure 12: VistA Scheduling GUI Cross Reference (cont.)

NEW-STYLE INDEX LIST -- FILE #409.3, FIELD #1

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AC (#1161) RECORD REGULAR IR SORTING ONLY
Short Descr: Index by ORIGINATING DATE and ORIGINATING USER
Description: This cross reference is used to sort by ORIGINATING DATE and ORIGINATING USER.
Set Logic: S ^SDWL(409.3,"AC",X(1),X(2),DA)=""
Kill Logic: K ^SDWL(409.3,"AC",X(1),X(2),DA)
Whole Kill: K ^SDWL(409.3,"AC")
X(1): ORIGINATING DATE (409.3,1) (Subscr 1) (forwards)
X(2): ORIGINATING USER (409.3,9) (Subscr 2) (forwards)

Figure 13: VistA Scheduling GUI Cross Reference (cont.)

NEW-STYLE INDEX LIST -- FILE #409.3, FIELD #.01

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AD (#1168) RECORD REGULAR IR SORTING ONLY
Short Descr: Index by PATIENT and WL SPECIFIC HOSPITAL LOCATION
Description: This cross references 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)

Figure 14: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 15: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 16: VistA Scheduling GUI Cross Reference (cont.)

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)

■
Figure 17: VistA Scheduling GUI Cross Reference (cont.)

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)

■
Figure 18: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 19: VistA Scheduling GUI Cross Reference (cont.)

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)

New-Style Indexes:

AC (#1176) RECORD 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)

Figure 16: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 21: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 17: VistA Scheduling GUI Cross Reference (cont.)**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)

Figure 18: VistA Scheduling GUI Cross Reference (cont.)

File #409.834

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)

■ Figure 19: VistA Scheduling GUI Cross Reference (cont.)

File #409.84

Traditional Cross-References:

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)

■ Figure 20: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 21: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 22: VistA Scheduling GUI Cross Reference (cont.)

New-Style Indexes:

AC (#1172) 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 (#1171) 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)

Figure 23: VistA Scheduling GUI Cross Reference (cont.)

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: MULT APPTS MADE (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)

Figure 24: VistA Scheduling GUI Cross Reference (cont.)

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)

Figure 25: VistA Scheduling GUI Cross Reference (cont.)

2.7. Table File

Figure 20 through Figure 80 depict the table file.

STANDARD DATA DICTIONARY #403.5 -- RECALL REMINDERS FILE			
STORED IN ^SD(403.5, (4 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UCI: D EVVVV,DEVVVV (VERSION 5.3)			
DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<hr/>			
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:	APR 03, 2015	
	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.	
	NOTES:	XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER	
	RECORD INDEX:	AC (#1162) 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)	

Figure 26: Table File

STANDARD DATA DICTIONARY #403.56 -- RECALL REMINDERS REMOVED FILE
 OCT 28, 2015@20:30:01 PAGE 1
 STORED IN ^SD(403.56, *** NO DATA STORED YET *** SITE: TECHNICAL INTEGRATION
 SERVICE UCI: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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 INDEX: AC (#1163) 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)		

Figure 27: Table File (cont.)

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE
 OCT 28, 2015@20:32:38 PAGE 1
 STORED IN ^SDWL(409.3, (8 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UCI:
 DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<hr/>			
409.3,8.5 WL SPECIFIC HOSPITAL LOCATION 0;24 POINTER TO HOSPITAL LOCATION FILE (#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 INDEX:	AD (#1168) REGULAR IR SORTING ONLY		
Short Descr:	Index by PATIENT and WL SPECIFIC HOSPITAL LOCATION		
Description:	This cross references 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)		
<hr/>		<hr/>	
FILES POINTED TO		FIELDS	
HOSPITAL LOCATION (#44)		WL SPECIFIC HOSPITAL LOCATION (#8.5)	

Figure 28: Table File (cont.)

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE
 OCT 28, 2015@20:34:30 PAGE 1
 STORED IN ^SDWL(409.3, (8 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UCI:
 DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<hr/>			
409.3.8.7	WL APPOINTMENT TYPE	0;26	POINTER TO APPOINTMENT TYPE FILE (#409.1)
<hr/>			
	LAST EDITED:	MAY 22, 2015	
	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.	
FILES POINTED TO		FIELDS	
APPOINTMENT TYPE (#409.1)		WL APPOINTMENT TYPE (#8.7)	
<hr/>			

Figure 29: Table File (cont.)

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE
 OCT 28, 2015@20:36:31 PAGE 1
 STORED IN ^SDWL(409.3, (8 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UCI:
 DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<hr/>			
409.3.9.5	DATE/TIME ENTERED	3;4	DATE
<hr/>			
	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.	

Figure 30: Table File (cont.)

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE

OCT 28, 2015@20:37:21 PAGE 1

STORED IN ^SDWL(409.3, (8 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UCI:
DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE

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.	

Figure 31: Table File (cont.)

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE
 OCT 28, 2015@20:38:33 PAGE 1
 STORED IN ^SDWL(409.3, (8 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UCI:
 DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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.		

Figure 32: Table File (cont.)

STANDARD DATA DICTIONARY #409.344 -- PATIENT CONTACT SUB-FILE
 OCT 28, 2015@20:41:30 PAGE 1
 STORED IN ^SDWL(409.3,00,4, SITE: TECHNICAL INTEGRATION SERVICE UCI: DEVVVV,
 DEVVVV

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<hr/>			
409.344,.01	DATE ENTERED	0;1 DATE	
<hr/>			
	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)	
409.344,2	ENTERED BY USER	0;2	POINTER TO NEW PERSON FILE (#200)
<hr/>			
	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.	
<hr/>		<hr/>	
FILES POINTED TO		FIELDS	
NEW PERSON (#200)		ENTERED BY USER (#2)	

Figure 33: Table File (cont.)

STANDARD DATA DICTIONARY #409.344 -- PATIENT CONTACT SUB-FILE
OCT 28, 2015@20:42:27 PAGE 1
STORED IN ^SDWL(409.3,DO,4, SITE: TECHNICAL INTEGRATION SERVICE UCI: DEVVVV,
DEVVVV

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
<hr/>			
409.344,3	ACTION	0;3 SET	
<p>'C' FOR CALLED; 'M' FOR MESSAGE LEFT; 'L' FOR LETTER;</p>			
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.		

Figure 34: Table File (cont.)

STANDARD DATA DICTIONARY #409.3 -- SD WAIT LIST FILE
 NOV 12, 2015@15:52:40 PAGE 1
 STORED IN ^SDWL(409.3, (3237 ENTRIES) SITE: MEDSPHERE UCI: FOIAREL2,FOIAREL
 2 (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
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:	NOV 06, 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:	NOV 06, 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:	NOV 06, 2015	
	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	

Figure 35: Table File (cont.)

409.345,3	WL SPECIFIC HOSPITAL LOCATION 0;4 POINTER TO HOSPITAL LOCATION FILE (#44)
	LAST EDITED: NOV 06, 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: NOV 06, 2015
	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.

FILES POINTED TO	FIELDS
HOSPITAL LOCATION (#44)	VS AUDIT:WL SPECIFIC HOSPITAL LOCATION (#3)
NEW PERSON (#200)	VS AUDIT:EDITED BY (#1)
SD WL CLINIC LOCATION (#409.32)	VS AUDIT:WL SPECIFIC CLINIC (#2)
SD WL SERVICE/SPECIALTY (#409.31)	VS AUDIT:WL SERVICE/SPECIALTY (#4)

Figure 36: Table File (cont.)

STANDARD DATA DICTIONARY #409.81 -- SDEC APPLICATION FILE
OCT 28, 2015@20:43:31 PAGE 1
STORED IN ^SDEC(409.81, *** NO DATA STORED YET *** SITE: TECHNICAL INTEGRATION SERVICE UCI: DEVVVV,DEVVVV (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:

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)

Figure 37: Table File (cont.)

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.	
INPUT TEMPLATE(S):		
PRINT TEMPLATE(S):		
SORT TEMPLATE(S):		
FORM(S)/BLOCK(S):	■	

Figure 38: Table File (cont.)

STANDARD DATA DICTIONARY #409.822 -- SDEC ACCESS GROUP FILE
OCT 28, 2015@20:45:38 PAGE 1
STORED IN ^SDEC(409.822, *** NO DATA STORED YET *** SITE: TECHNICAL INTEGRATION SERVICE UCI: DEVVVV,DEVVVV (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:

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)

Figure 39: Table File (cont.)

STANDARD DATA DICTIONARY #409.823 -- SDEC ACCESS TYPE FILE
 OCT 28, 2015@20:47:11 PAGE 1
 STORED IN ^SDEC(409.823, (5 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UC
 I: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE

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:			
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)			

Figure 40: Table File (cont.)

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.	

Figure 41: Table File (cont.)

409.823,.06	GREEN	0;6 NUMBER
<p>INPUT TRANSFORM: K:+X'=X!(X>255)!(X<0)!(X?.E1"."1N.N) X</p> <p>LAST EDITED: AUG 12, 2014</p> <p>HELP-PROMPT: Type a number between 0 and 255, 0 decimal digits.</p> <p>DESCRIPTION: This is the numeric color code for the degree of the GREEN rgb attribute used in displaying a block for this access type.</p>		
409.823,.07		BLUE
<p>INPUT TRANSFORM: K:+X'=X!(X>255)!(X<0)!(X?.E1"."1N.N) X</p> <p>LAST EDITED: AUG 12, 2014</p> <p>HELP-PROMPT: Type a number between 0 and 255, 0 decimal digits.</p> <p>DESCRIPTION: This is the numeric color code for the degree of the BLUE rgb attribute used in displaying a block for this access type.</p>		
409.823,.08		PREVENT ACCESS
<p>0;8 SET</p> <p>'1' FOR YES; '0' FOR NO;</p> <p>LAST EDITED: AUG 12, 2014</p> <p>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.</p> <p>DESCRIPTION: This field is used by the client to show this access type as a read-only block.</p>		

FILES POINTED TO	FIELDS
SDEC RESOURCE GROUP (#409.832)	DEPARTMENT NAME (#.03)

Figure 42: Table File (cont.)

STANDARD DATA DICTIONARY #409.824 -- SDEC ACCESS GROUP TYPE FILE
OCT 28, 2015@20:51:04 PAGE 1
STORED IN ^SDEC(409.824, *** NO DATA STORED YET *** SITE: TECHNICAL INTEGRATION
ON SERVICE UCI: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
--------------	------------	-----------------	-----------

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:

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)

Figure 43: Table File (cont.)

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)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

Figure 44: Table File (cont.)

STANDARD DATA DICTIONARY #409.831 -- SDEC RESOURCE FILE
OCT 28, 2015@20:53:01 PAGE 1
STORED IN ^SDEC(409.831, (36 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE U
CI: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
--------------	------------	-----------------	-----------

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:

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(ALOC), ASSOCIATED VISTA CLINICS(ASSOC),
RESOURCE(B)

INDEXED BY: RESOURCE TYPE & RESOURCE TYPE (AC)

Figure 45: Table File (cont.)

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,.012	RESOURCE TYPE	0;11 VARIABLE POINTER																				
<table border="0"> <thead> <tr> <th>FILE</th> <th>ORDER</th> <th>PREFIX</th> <th>LAYGO</th> <th>MESSAGE</th> </tr> </thead> <tbody> <tr> <td>44</td> <td>1</td> <td>H</td> <td>y</td> <td>CLINIC</td> </tr> <tr> <td>200</td> <td>2</td> <td>P</td> <td>y</td> <td>PROVIDER</td> </tr> <tr> <td>409.834</td> <td>3</td> <td>A</td> <td>y</td> <td>ADDITIONAL RESOURCE</td> </tr> </tbody> </table>			FILE	ORDER	PREFIX	LAYGO	MESSAGE	44	1	H	y	CLINIC	200	2	P	y	PROVIDER	409.834	3	A	y	ADDITIONAL RESOURCE
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=\$\$DT1^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.																						
RECORD INDEXES: AC (#1176)																						
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.																						

Figure 46: Table File (cont.)

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.

Figure 47: Table File (cont.)

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.

Figure 48: Table File (cont.)

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.	

Figure 49: Table File (cont.)

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.

Figure 50: Table File (cont.)

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.

Figure 51: Table File (cont.)

STANDARD DATA DICTIONARY #409.832 -- SDEC RESOURCE GROUP FILE
 OCT 28, 2015@21:00:22 PAGE 1
 STORED IN ^SDEC(409.832, (2 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UC
 I: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE

This is where Resources are 'grouped' with other Resources.			
DD ACCESS:			
RD ACCESS:			
WR ACCESS:			
DEL ACCESS:			
LAYGO ACCESS:			
AUDIT ACCESS:			
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)			

Figure 52: Table File (cont.)

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.

Figure 53: Table File (cont.)

FILES POINTED TO	FIELDS
SDEC RESOURCE (#409.831)	RESOURCE:RESOURCE (#.01)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

Figure 54: Table File (cont.)

STANDARD DATA DICTIONARY #409.833 -- SDEC RESOURCE USER FILE
OCT 28, 2015@21:02:57 PAGE 1
STORED IN ^SDEC(409.833, (1 ENTRY) SITE: TECHNICAL INTEGRATION SERVICE UCI:
DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA 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:

CROSS
REFERENCED BY: USERNAME(AC), RESOURCENAME(B)

409.833,.01 RESOURCENAME 0;1 POINTER TO SDEC RESOURCE FILE (#409.83
1) (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)

Figure 55: Table File (cont.)

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).
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.

Figure 56: Table File (cont.)

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)
INPUT TEMPLATE(S):		
PRINT TEMPLATE(S):		
SORT TEMPLATE(S):		
FORM(S)/BLOCK(S):		

Figure 57: Table File (cont.)

STANDARD DATA DICTIONARY #409.834 -- SDEC ADDITIONAL RESOURCE FILE
OCT 28, 2015@21:05:56 PAGE 1
STORED IN ^SDEC(409.834, *** NO DATA STORED YET *** SITE: TECHNICAL INTEGRATION
ON SERVICE UCI: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
--------------	------------	-----------------	-----------

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:

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'?P.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)

Figure 58: Table File (cont.)

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.	
INPUT TEMPLATE(S):		
PRINT TEMPLATE(S):		
SORT TEMPLATE(S):		
FORM(S)/BLOCK(S):	■	

Figure 59: Table File (cont.)

STANDARD DATA DICTIONARY #409.84 -- SDEC APPOINTMENT FILE
OCT 28, 2015@21:08 PAGE 1
STORED IN ^SDEC(409.84, (93 ENTRIES) SITE: TECHNICAL INTEGRATION SERVICE UC
I: DEVVVV,DEVVVV (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE
--------------	------------	-----------------	-----------

This is where appointment definitions are linked to a resource.

DD ACCESS:
RD ACCESS:
WR ACCESS:
DEL ACCESS:
LAYGO ACCESS:
AUDIT ACCESS:

POINTED TO BY: MULT APPTS MADE field (#.01) of the MULT APPTS MADE sub-field (#409.852) of the SDEC APPT REQUEST File (#409.85)

CROSS

REFERENCED BY: 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)

Figure 60: Table File (cont.)

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 (#90000001)
	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.

Figure 61: Table File (cont.)

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 (#409.83 1)
	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.

Figure 62: Table File (cont.)

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:	OCT 22, 2014
	HELP-PROMPT:	Enter a date
	DESCRIPTION:	Field contains the date the appointment was made.
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.

Figure 63: Table File (cont.)

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 is 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:	OCT 21, 2014
	HELP-PROMPT:	Enter cancellation date and time
	DESCRIPTION:	The date/time the cancellation was entered.
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.

Figure 64: Table File (cont.)

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
		S %DT="ETXR" D ^%DT S X=Y K:Y<1 X
INPUT TRANSFORM:	OCT 21, 2014	
LAST EDITED:	Enter checkout date and time	
HELP-PROMPT:		
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.	

Figure 65: Table File (cont.)

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; 'I' 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 re-instanted.
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.

Figure 66: Table File (cont.)

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.

Figure 67: Table File (cont.)

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.	

Figure 68: Table File (cont.)

FILES POINTED TO	FIELDS
APPOINTMENT STATUS (#409.63)	PREV APPT STATUS (#.19)
APPOINTMENT TYPE (#409.1)	APPOINTMENT TYPE (#.06)
CANCELLATION REASONS (#409.2)	CANCELLATION REASON (#.122)
NEW PERSON (#200)	DATA ENTRY CLERK (#.08) NOSHOW BY USER (#.102) CANCELLED BY USER (#.121) PROVIDER (#.16)
PATIENT/IHS (#9000001)	PATIENT (#.05)
RECALL REMINDERS (#403.5)	APPT REQUEST TYPE (#.22)
REQUEST/CONSULTATION (#123)	APPT REQUEST TYPE (#.22)
SD WAIT LIST (#409.3)	APPT REQUEST TYPE (#.22)
SDEC APPT REQUEST (#409.85)	APPT REQUEST TYPE (#.22)
SDEC RESOURCE (#409.831)	RESOURCE (#.07)
V PROVIDER (#9000010.06)	V PROVIDER IEN (#.15)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S): ■

Figure 69: Table File (cont.)

STANDARD DATA DICTIONARY #409.845 -- SDEC PREFERENCES AND SPECIAL NEEDS FILE
OCT 28, 2015@21:16:22 PAGE 1
STORED IN ^SDEC(409.845, *** NO DATA STORED YET *** SITE: TECHNICAL INTEGRATION
ON SERVICE UCI: DEVVVV,DEVVVV (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:

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.

Figure 70: Table File (cont.)

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.

Figure 71: Table File (cont.)

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 (IGNORE " ")	1;0 WORD-PROCESSING #409.84516
	DESCRIPTION:	This field contains additional remarks and details for this preference.

FILES POINTED TO	FIELDS
NEW PERSON (#200)	PREFERENCES:ADDED BY USER (#3) INACTIVATED BY USER (#5)
PATIENT (#2)	PATIENT (#.01)

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

Figure 72: Table File (cont.)

STANDARD DATA DICTIONARY #409.85 -- SDEC APPT REQUEST FILE
 NOV 16, 2015@18:21:31 PAGE 1
 STORED IN ^SDEC(409.85, (1904 ENTRIES) SITE: MEDSPHERE UCI: FOIAREL2,FOIARE
 L2 (VERSION 5.3)

DATA ELEMENT	NAME TITLE	GLOBAL LOCATION	DATA TYPE

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: D DEL ACCESS: @ LAYGO ACCESS: D AUDIT ACCESS: @ IDENTIFIED BY: CREATE DATE (#1), INSTITUTION (#2)[R], REQUEST TYPE (#4)[R], CURRENT STATUS (#23)			
POINTED TO BY: APPT REQUEST TYPE field (#.22) of the SDEC APPOINTMENT File (#409.84) PARENT REQUEST field (#.02) of the MULT APPTS MADE sub-field (#409.852) of the SDEC APPT REQUEST File (#409.85)			
CROSS REFERENCED BY: PATIENT(B), INSTITUTION(C), CURRENT STATUS(E), CREATE DATE(ETO0), REQ SPECIFIC CLINIC(SC), REQ SPECIFIC CLINIC(SCC)			
INDEXED BY: DATE/TIME ENTERED & ORIGINATING USER (AC), CURRENT STATUS & CREATE DATE (E)			
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)	

Figure 73: Table File (cont.)

409.85,.02	PATIENT STATUS INPUT TRANSFORM: S %DT="EX" D ^%DT S X=Y K:Y<1 X LAST EDITED: JUN 09, 2015 HELP-PROMPT: Enter N or NEW if the patient is a new patient. 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.	0;7 SET 'N' FOR NEW; 'E' FOR ESTABLISHED;
<hr/>		
409.85,1	CREATE 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.	0;2 DATE
<hr/>		
CROSS-REFERENCE: 409.85^ET00^MUMPS 1)= S:\$P(^SDEC(409.85,DA,0),U,17)=''" ^SDEC(409.85,"E",\$P(^SDEC(409.85,DA,0),U,17),X,DA)="" 2)= K:\$P(^SDEC(409.85,DA,0),U,17)=''" ^SDEC(409.85,"E",\$P(^SDEC(409.85,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 request entries for a given time range.		
<hr/>		
RECORD INDEXES: E (#1175)		
<hr/>		
409.85,2	INSTITUTION 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.	0;3 POINTER TO INSTITUTION FILE (#4) (Required)
<hr/>		
SCREEN: S DIC("S")="I \$P(^{0},U,11)=""N"", \$\$TF^XUAF4(+Y)" EXPLANATION: Only allow a National/Medical Institution. AUDIT: 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) LAST EDITED: OCT 29, 2015 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) LAST EDITED: APR 18, 2015 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.	
 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.	
 409.85.8.5 REQ SERVICE/SPECIALTY 0;4 POINTER TO CLINIC STOP FILE (#40.7) 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: APR 18, 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.	
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.	

Figure 74: Table File (cont.)

409.85,8.7	REQ 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 for this request.
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 (#1176)
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 (#1176)
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.

Figure 75: Table File (cont.)

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)
	'1' FOR PROVIDER; '2' FOR PATIENT;	
	LAST EDITED:	APR 22, 2015
	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.
409.85,12	PROVIDER	0;13 POINTER TO NEW PERSON FILE (#200)
	APR 18, 2015	
	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.
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 DESC:	This is a date/time of the scheduled appointment related to this entry.

Figure 76: Table File (cont.)

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).

Figure 77: Table File (cont.)

409.85,13.5	APPT CREDIT STOP CODE SDAPT;5 POINTER TO CLINIC STOP FILE (#40.7)
	<p>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.</p>
	<p>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.</p>
409.85,13.6	APPT STATION NUMBER SDAPT;6 FREE TEXT
	<p>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.</p>
	<p>TECHNICAL DESCRIPTOR: This is the STATION NUMBER field (#99) of the INSTITUTION file (#4) associated with the scheduled appointment.</p>
409.85,13.7	APPT CLERK SDAPT;7 POINTER TO NEW PERSON FILE (#200)
	<p>LAST EDITED: APR 18, 2015 HELP-PROMPT: Select an Appt Clerk DESCRIPTION: This is the person who assigned the appointment to the REQUEST entry.</p>
	<p>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.</p>
409.85,13.8	APPT STATUS SDAPT;8 SET
	<p>'R' FOR Scheduled/Kept; 'I' 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;</p>
	<p>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.</p>

Figure 78: Table File (cont.)

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.
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;
	LAST EDITED: APR 18, 2015
	HELP-PROMPT: Select a disposition
	DESCRIPTION: This field represents the reason this patient has been dispositioned from this appointment Request.

Figure 79: Table File (cont.)

409.85,22	CID/PREFERRED DATE OF APPT 0;16 DATE (Required)	
	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.	
409.85,23	CURRENT STATUS	0;17 SET
	'O' FOR OPEN; 'C' FOR CLOSED;	
	LAST EDITED: JUN 25, 2015	
	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.	
	CROSS-REFERENCE: 409.85^E^MUMPS 1)= S:\$P(^SDEC(409.85,DA,0),U,2)'="" ^SDEC(409.85,"E",X,\$P(^SDEC(409.85,DA,0),U,2),DA)="" 2)= K:\$P(^SDEC(409.85,DA,0),U,2)'="" ^SDEC(409.85,"E",X,\$P(^SDEC(409.85,DA,0),U,2),DA) This xref is used to speed up the lookup of open or closed REQUEST list entries for a given time range.	
	RECORD INDEXES: E (#1175)	

Figure 80: Table File (cont.)

409.85,25	COMMENTS	0;18 FREE TEXT
	INPUT TRANSFORM:	K:\$L(X)>60!(\$L(X)<1) X
	LAST EDITED:	APR 18, 2015
	HELP-PROMPT:	Answer must be 1-60 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.
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.

Figure 81: Table File (cont.)

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.
	READ AUTHORITY:	MULT APPTS MADE
409.852,.01	MULT APPTS MADE	0;1 POINTER TO SDEC APPOINTMENT FILE (#409.84) (Multiply asked)
	LAST EDITED:	MAY 11, 2015
	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 the SDEC APPOINTMENT file 409.84.
	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	PARENT REQUEST	0;2 POINTER TO SDEC APPT REQUEST FILE (#409.85)
	LAST EDITED:	NOV 09, 2015
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)

Figure 82: Table File (cont.)

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)
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.
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.

Figure 83: Table File (cont.)

409.85,45	VS AUDIT	6;0 DATE Multiple #409.8545
	LAST EDITED:	NOV 02, 2015
	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:	NOV 02, 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:	NOV 02, 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:	NOV 02, 2015
	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.
409.8545,3	REQ SERVICE/SPECIALTY	0;4 POINTER TO CLINIC STOP FILE (#40.7)
	LAST EDITED:	NOV 02, 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.

Figure 78: Table File

FILES POINTED TO	FIELDS
APPOINTMENT TYPE (#409.1)	REQ APPOINTMENT TYPE (#8.7)
CLINIC STOP (#40.7)	REQ SERVICE/SPECIALTY (#8.5) APPT STOP CODE (#13.4) APPT CREDIT STOP CODE (#13.5) VS AUDIT:REQ SERVICE/SPECIALTY (#3)
HOSPITAL LOCATION (#44)	REQ SPECIFIC CLINIC (#8) APPT CLINIC (#13.2) VS AUDIT:REQ SPECIFIC CLINIC (#2)
INSTITUTION (#4)	INSTITUTION (#2) APPT INSTITUTION (#13.3)
NEW PERSON (#200)	ORIGINATING USER (#9) PROVIDER (#12) APPT CLERK (#13.7) DISPOSITIONED BY (#20) PATIENT CONTACT:ENTERED BY USER (#2) VS AUDIT:EDITED BY (#1)
PATIENT (#2)	PATIENT (#.01)
SDEC APPOINTMENT (#409.84)	MULT APPTS MADE:MULT APPTS MADE (#.01)
SDEC APPT REQUEST (#409.85)	MULT APPTS MADE:PARENT REQUEST (#.02)

File #409.85

Record Indexes:

AC (#1176) 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 (#1175) 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)

Figure 79: Table File

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

Figure 80: Table File

2.8. Internal Relations

There are no documented internal relations in VistA Scheduling GUI.

2.9. External Relations

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

2.10. Published Entry Points

No published entry points exist in VistA Scheduling GUI.

2.11. Exported Option

Table 4: Exported Option and Description

Option Name	Description
CS Dashboard Data Compile [SDEC REPORT DATA]	This option allows Scheduling Administrators to initiate the Clinical Scheduling Resource Management report data compilation. This option is also scheduled to run every 24 hours at 1:00 am to ensure data is collected each day.
Add/Edit CS Resource Management Stop Codes [SDEC ADD CLINIC STOP CODES]	This option allows Clinical Scheduling Administrators to activate or deactivate Clinic Stop Codes related to the Report Types displayed in the Clinical Scheduling 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 Clinical Scheduling Resource Management Report.
CLINICAL SCHEDULING PROCEDURE CALLS [SDECRPC]	This option hosts RPCs in the SDEC namespace. CLINICAL SCHEDULING users must have access to this option in order to use CLINICAL SCHEDULING.
Refresh SDEC Index global	This option prepares the ^XTMP("SDEC","IDX" global and should be scheduled to run daily at 2am.

2.12. Parameter Definitions

Table 5: Parameter Definitions

Parameter Name	Description
SDEC MENTAL HEALTH STOP CODES	This Parameter Definition identifies Stop Codes related to the Mental Health report type for the Resource Management Reporting.
SDEC PRIMARY CARE STOP CODES	This Parameter Definition identifies Stop Codes related to the Primary Care report type for the Resource Management Reporting.
SDEC SPECIALTY CARE STOP CODES	This Parameter Definition identifies Stop Codes related to the Specialty Care report type for the Resource Management Reporting.

2.13. Security Keys

Table 6: Exported Security Keys

Key Name	Description
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 Scheduling Management menu option on the VSE applications System tab.
SDOB	Authorized to overbook in the clinic to maximum allowed, as defined in clinic set up.
SDMOB	Authorized to overbook in the clinic over the maximum allowed, as defined in clinic set up.
SDWL MENU	If 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.

2.14. Archiving and Purging

There is no archiving and purging in this module.

3. Resource Management Reporting Implementation

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.

3.1. System Requirements

- System Requirements to run the executable 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)

3.2. Application Files

SDEC_VSE_ReportConsole.jar: this 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: This file 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: This 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: This 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: This 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: This 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: This file 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.

3.3. Resource Management Reporting Java Application Build Process

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.

3.4. Data Flow Diagram

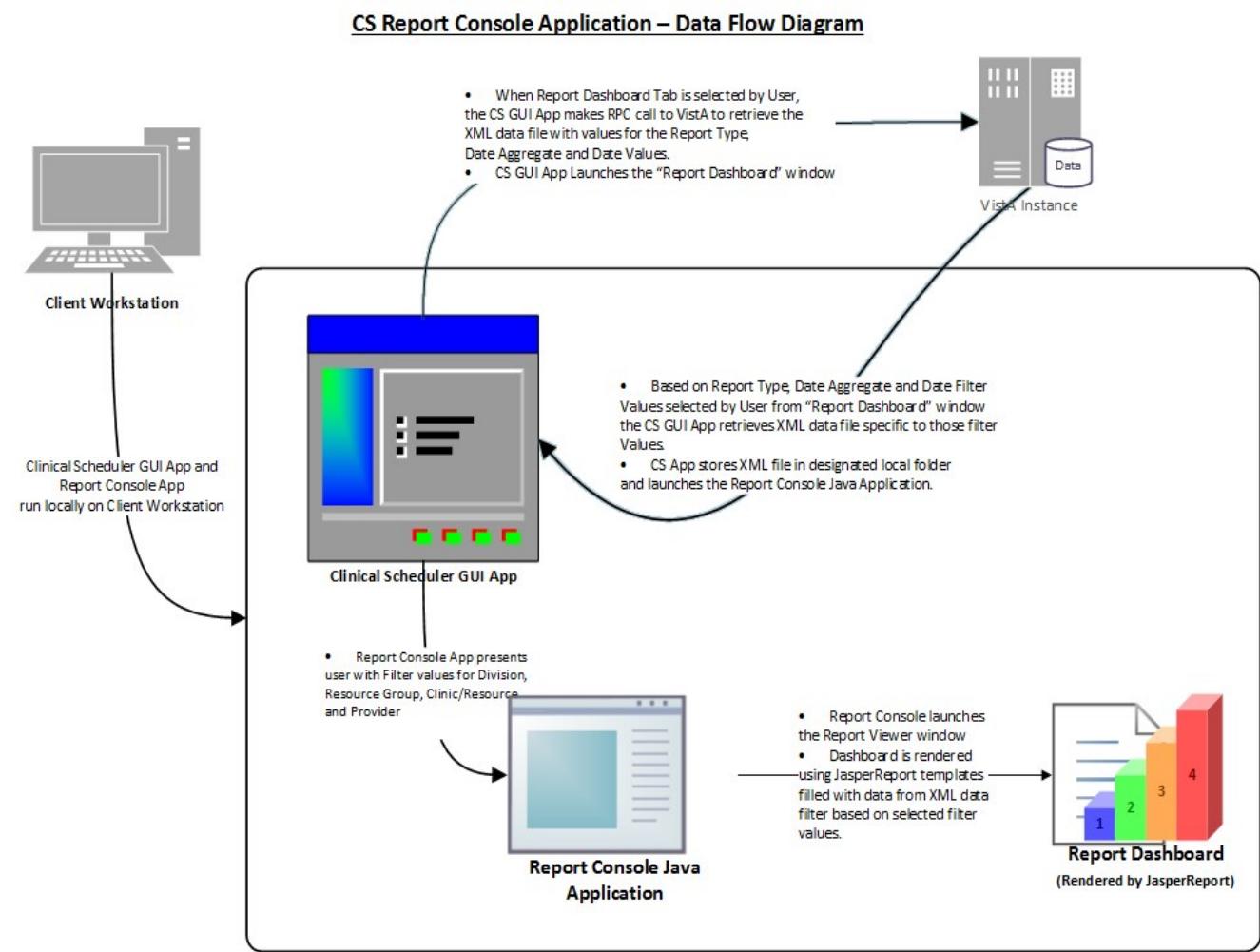


Figure 84: VistA Scheduling GUI Data Flow Diagram

3.5. 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>

```

3.6. Resource Management Reporting Application Functions

3.6.1. 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:** 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:** 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:** This 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:** This 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:** This 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:** This 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:

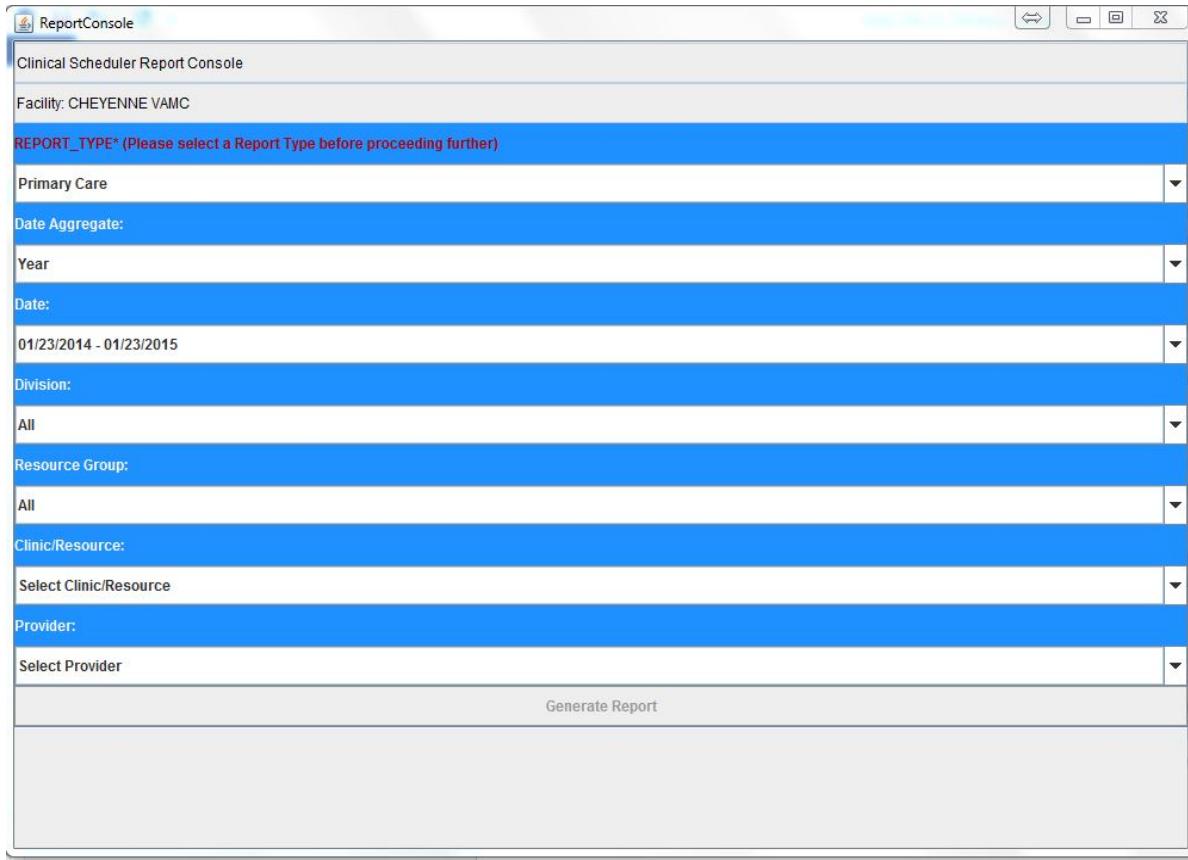


Figure 85: VistA Scheduling GUI Report Console

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.

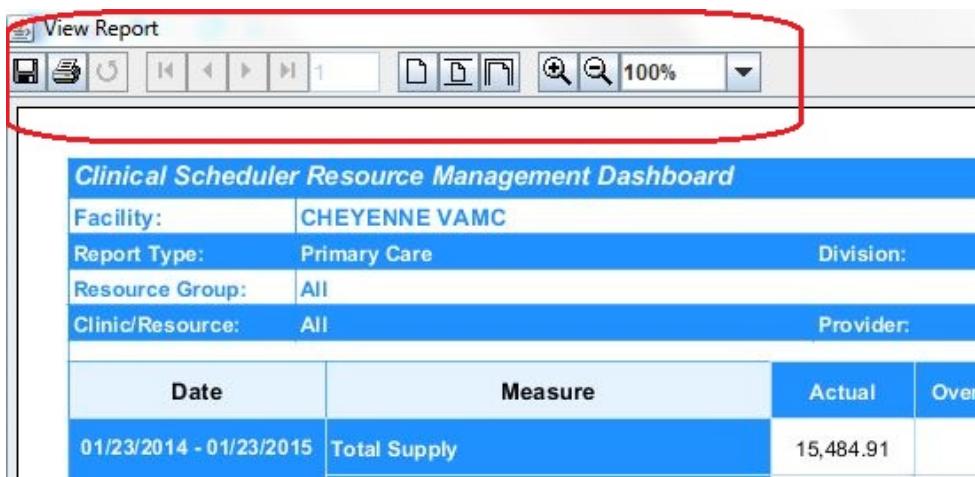


Figure 86: Save/Export/Print Features

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.

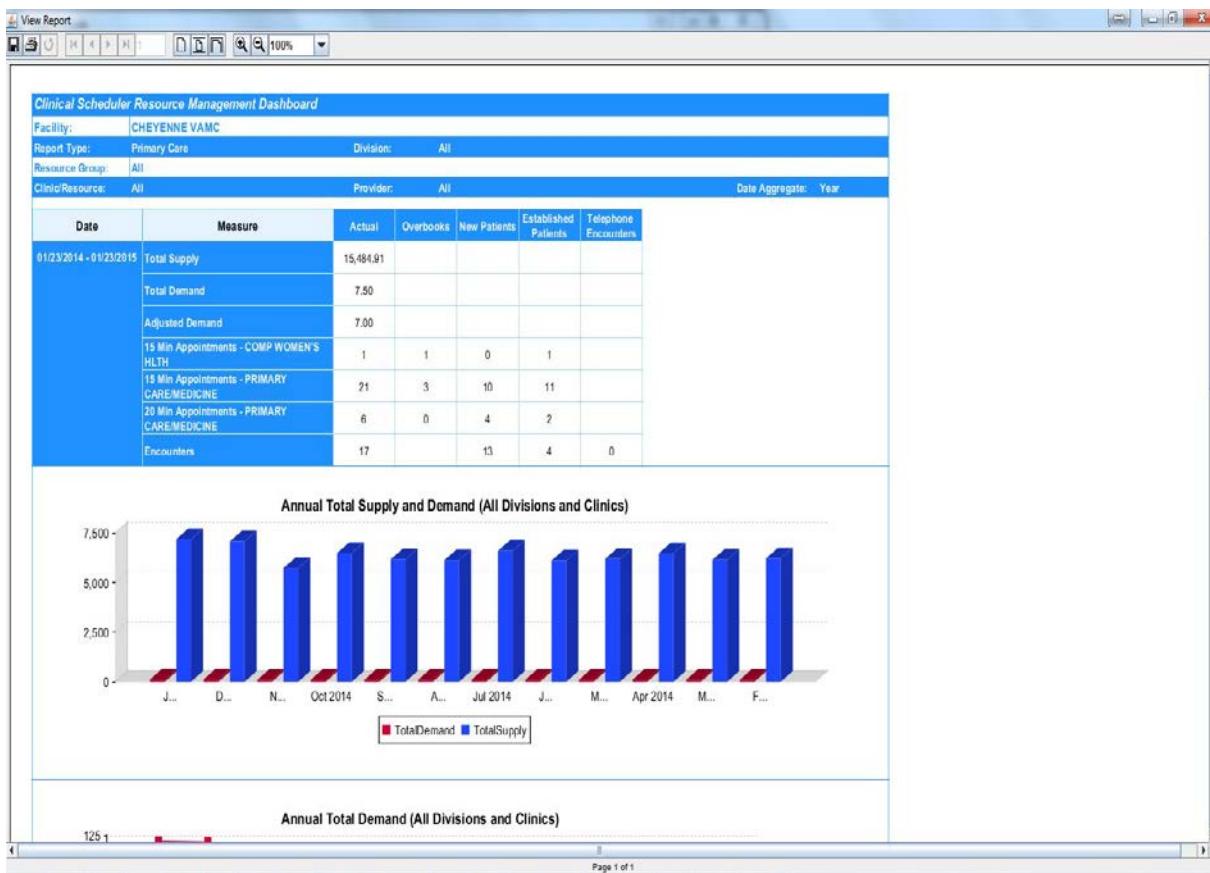


Figure 87: Report Viewer

3.6.2. 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 7: 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.
Utilities.class	This is another utility method which stores all required utility methods.

Class Name	Purpose
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.

3.6.3. 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:

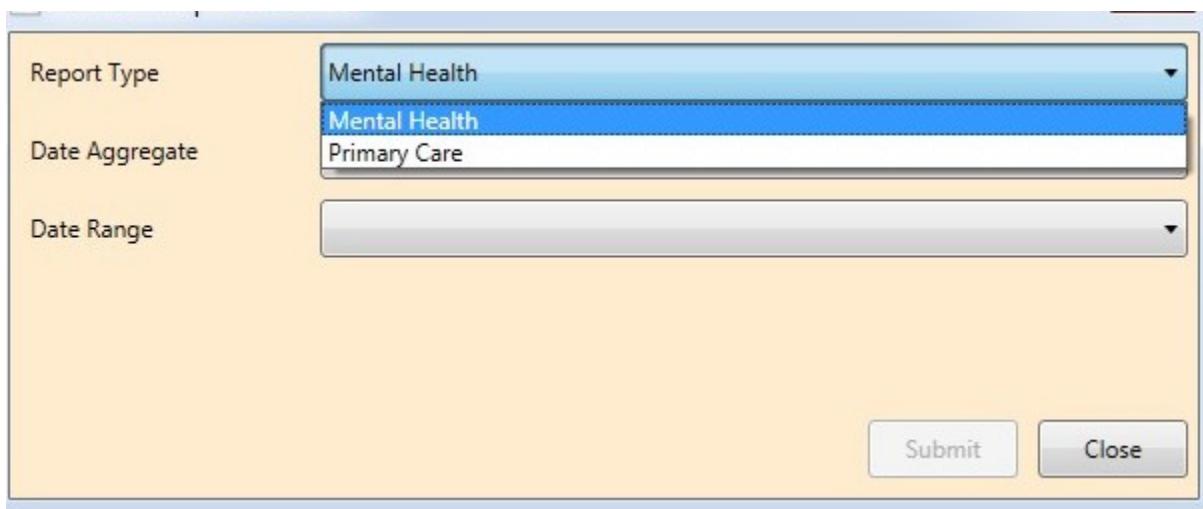


Figure 88: Report Viewer Functionality

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.

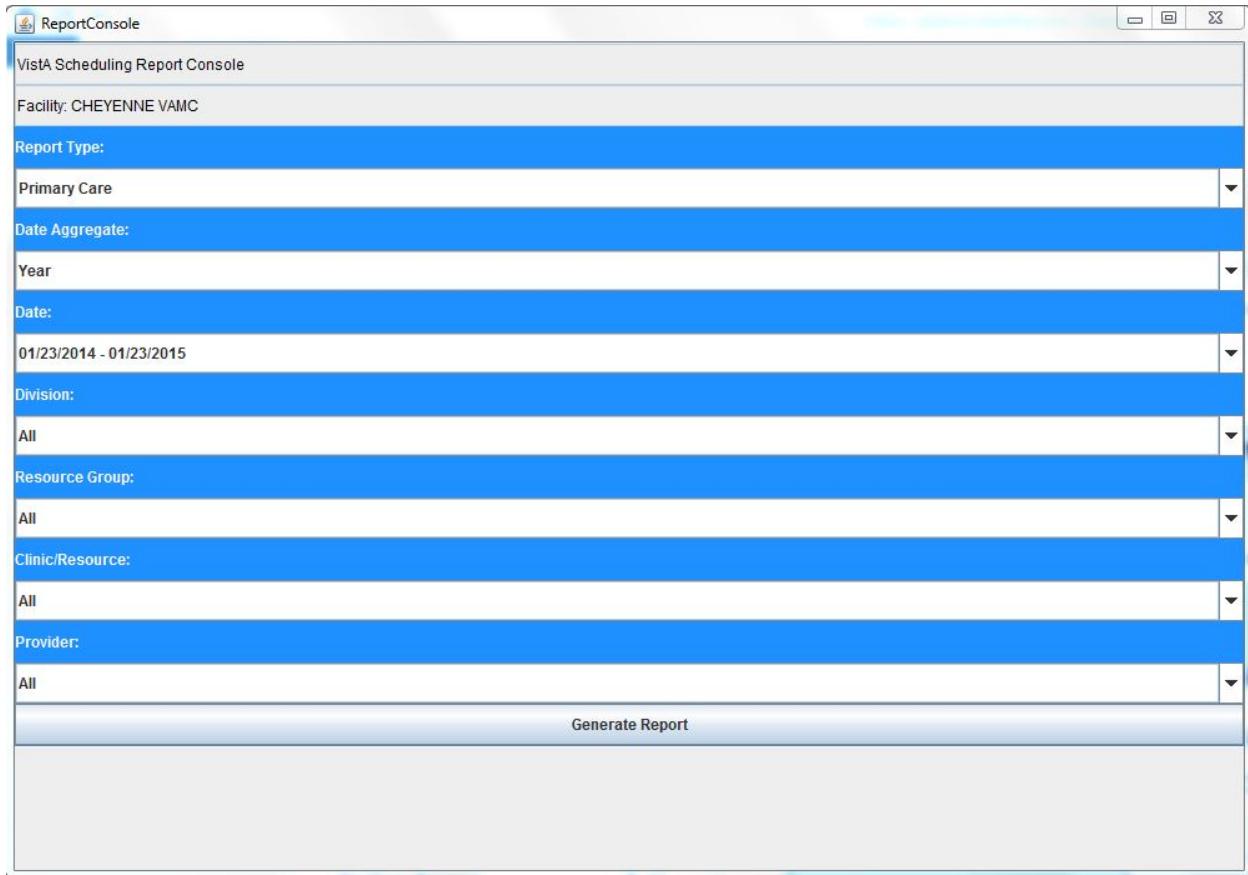


Figure 89: Report Console

3.6.4. 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.

3.6.4.1. 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.

3.6.4.2. 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:

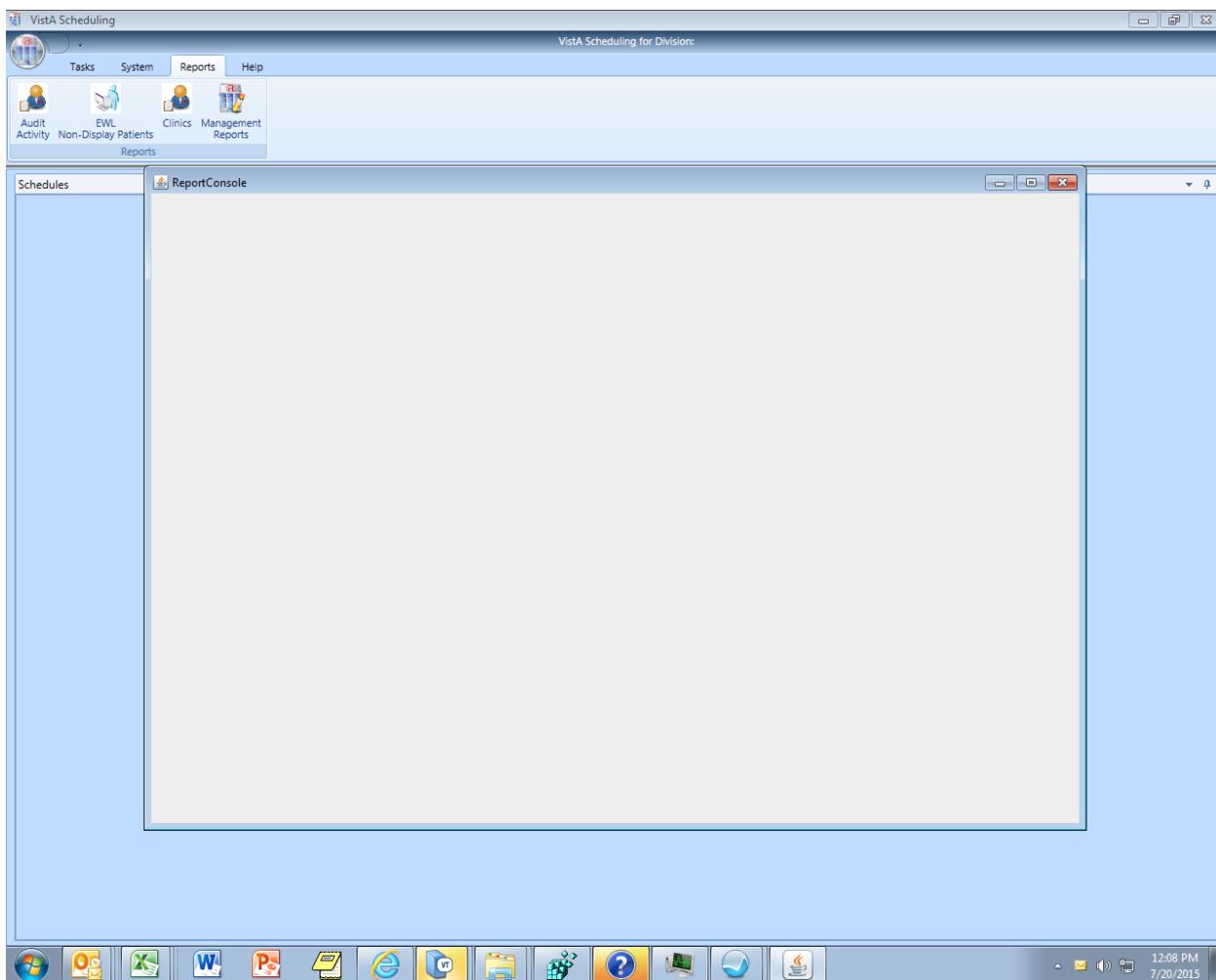


Figure 90: Report Viewer

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.

3.6.4.3. 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)
```

4. Generating Online Documentation

This section describes a few methods to generate VistA Scheduling GUI system technical documentation. VistA Scheduling GUI software technical documentation, in addition to that which is located in the Help prompts throughout the VistA Scheduling GUI module, can be generated through the use of several Kernel options. These 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

Table 8: Terms and Definitions

Term	Definition
Archiving	The storing of historical or little used data off-line (often on tape)
Banner	A line of text with a user's name and domain
Browser	An interactive application that displays ASCII text on a terminal that supports a scroll region. The text can be in the form of a word-processing field or sequential local or global array. 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
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.
Default Facility	A user selects a facility identification to work with patients registered to that facility
DHCP	Dynamic Host Configuration Protocol. A standardized network protocol used on Internet Protocol (IP) networks for dynamically distributing network configuration parameters, such as IP addresses for interfaces and services.
Entry Point	Entry point within a routine that is referenced by a "DO" or "GOTO" command from a routine internal to a package
File	A set of related records or entries treated as a single unit
FileMan	The database management system for VistA
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)
HHS	Health and Human Services
INDEX (%INDEX)	A Kernel utility used to verify routines and other MUMPS code associated with a package. Checking is done according to current 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). Init is a shortened form of initialization.

Term	Definition
Internal Entry Number (IEN)	The number used to identify an entry within a file. Every record has a unique Internal Entry Number.
Information Resource Management (IRM)	VA personnel responsible for Information Systems Management and security
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. The 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 & 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-type options are preceded by the word "Select" and followed by the word "option" as in Select Menu Management option: (the menu's select prompt).
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 Option 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.
Queuing	Requesting that a job be processed at a later time rather than within the current session
PIMS	Patient Information Management System
Remote Procedure Call (RPC)	An RPC is 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.
RPC	Remote Procedure Calls
User Class Identification (UCI)	A computing area
SAC	Standards and Conventions
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 Shift + 6 on the keyboard.

Term	Definition
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 3 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. Global variables 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