Scheduling 5.3
Automated Service Connected Designation
(ASCD)
Technical Manual

September 2007
## Revision History

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...
# Table of Contents

1. **Introduction** .......................................................................................................................... 1  
   1.1. Purpose ................................................................................................................................. 1  
   1.2. Scope ................................................................................................................................. 1  

2. **Implementation and Maintenance** .......................................................................................... 2  
   2.1. Operating Specifics ............................................................................................................ 2  
   2.2. Sizing Information ............................................................................................................. 2  
   2.3. Global Journaling .............................................................................................................. 2  
   2.4. Translation Tables ............................................................................................................ 2  
   2.5. Bulletins .......................................................................................................................... 2  
   2.6. Mail Groups .................................................................................................................... 2  
      2.6.1. SDSC NIGHTLY TALLY .............................................................................................. 2  
      2.6.2. SDSC NIGHTLY TALLY Example ............................................................................ 2  

3. **Files** .................................................................................................................................... 3  
   3.1. Overview .......................................................................................................................... 3  
   3.2. File List ............................................................................................................................ 3  
      3.2.1. 409.48 SDSC SERVICE CONNECTED CHANGES .................................................. 3  
      3.2.2. 31 DISABILITY CONDITION .................................................................................... 3  
   3.3. File Protection .................................................................................................................. 3  
   3.4. Files with Security Access ............................................................................................... 3  

4. **Routines** ................................................................................................................................ 4  
   4.1. Overview .......................................................................................................................... 4  
   4.2. List of Routines ................................................................................................................ 4  
      4.2.1. DVB458P* ..................................................................................................................... 4  
      4.2.2. PXBAPI21 .................................................................................................................... 4  
      4.2.3. PXBAPI22 .................................................................................................................... 4  
      4.2.4. PXCEVFI1 .................................................................................................................... 4  
      4.2.5. PXCEVFI2 .................................................................................................................... 4  
      4.2.6. SD53P495 .................................................................................................................... 4  
      4.2.7. SD5COM ..................................................................................................................... 5  
      4.2.8. SDSCAPI ...................................................................................................................... 5  
      4.2.9. SDSCCHK ..................................................................................................................... 5  
      4.2.10. SDSCCLM ................................................................................................................... 5  
      4.2.11. SDSCEDT .................................................................................................................... 5  
      4.2.12. SDSCINS .................................................................................................................... 5  
      4.2.13. SDSCINS .................................................................................................................... 5  
      4.2.14. SDSCM ....................................................................................................................... 5  
      4.2.15. SDSCM ....................................................................................................................... 5  
      4.2.16. SDSCMSR ................................................................................................................... 6  
      4.2.17. SDSCNSCP ................................................................................................................ 6  
      4.2.18. SDSCOMP ................................................................................................................ 6  
      4.2.19. SDSPRG .................................................................................................................... 6  
      4.2.20. SDSPRM .................................................................................................................... 6  
      4.2.21. SDSPRV .................................................................................................................... 6  
      4.2.22. SDSCP ....................................................................................................................... 6  
      4.2.23. SDSCP ....................................................................................................................... 6  
      4.2.24. SDSCPT1 .................................................................................................................... 6  
      4.2.25. SDSCPST2 .................................................................................................................. 6  
      4.2.26. SDSCSSD ................................................................................................................... 7  
      4.2.27. SDSCUSR ................................................................................................................... 7  
      4.2.28. SDSCUTL ................................................................................................................... 7  

5. **Exported Options** ................................................................................................................ 7  
   5.1. Menu Diagrams ................................................................................................................ 7  
   5.2. Exported Options ............................................................................................................ 8
5.2.1. SDSC CHECK COMPILE .................................................................8
5.2.2. SDSC COMPILE .................................................................8
5.2.3. SDSC EDIT BY DATE ............................................................9
5.2.4. SDSC EDIT LISTMAN ............................................................9
5.2.5. SDSC ENC REPORT ..............................................................9
5.2.6. SDSC FIRST PARTY REPORT ................................................9
5.2.7. SDSC MANAGER SUMMARY REPORT ...............................9
5.2.8. SDSC MENU .......................................................................10
5.2.9. SDSC NIGHTLY COMPILE ..................................................10
5.2.10. SDSC PROVIDER REPORT .................................................10
5.2.11. SDSC PROVIDER TOTAL REPORT ......................................10
5.2.12. SDSC PURGE NSC ENC ......................................................10
5.2.13. SDSC RECOVERED REPORT ..............................................11
5.2.14. SDSC REPORTS .................................................................11
5.2.15. SDSC SERVICE TOTAL REPORT ........................................11
5.2.16. SDSC SINGLE EDIT ..........................................................11
5.2.17. SDSC SITE PARAMETER ...................................................12
5.2.18. SDSC THIRD PARTY REPORT ............................................12
5.2.19. SDSC UNBILL AMT REPORT .............................................12
5.2.20. SDSC USER REPORT ........................................................12
5.2.21. SDSC USER TOTAL REPORT ............................................12
5.2.22. PXCE ENCOUNTER ENTRY SUPER ....................................12

5.3. Exported Protocols .................................................................13
5.3.1. SDSC ACCEPT .................................................................13
5.3.2. SDSC CHANGE ...............................................................13
5.3.3. SDSC DETAIL .................................................................13
5.3.4. SDSC MENU .................................................................13
5.3.5. SDSC RECORD MENU ....................................................13
5.3.6. SDSC SEND .................................................................14
5.4. Exported List Templates ........................................................14
5.4.1. SDSC DETAIL ...............................................................14
5.4.2. SDSC REVIEW ...............................................................14
5.5. Exported Parameter Definition .............................................14
5.5.1. SDSC SITE PARAMETER ..................................................15
5.6. Exported Mail Group .............................................................15
5.6.1. SDSC NIGHTLY TALLY .....................................................15
5.7. Exported Security Keys ........................................................15
5.7.1. SDSC CLINICAL ............................................................15
5.7.2. SDSC SUPER ...............................................................15

6. Archiving and Purging .............................................................15
6.1. Archiving .................................................................15
6.2. Purging .................................................................16

7. Callable Routines/Entry Points/Application Programmer Interfaces ..................................16
7.1. Overview ...........................................................................16
7.2. Callable Routines ............................................................16

8. External Relationships ..........................................................18
8.1. Overview ...........................................................................18
8.2. Minimum Package Requirement ........................................18
8.3. DBIAs .............................................................................18

9. Internal Relationships ..........................................................19
10. Global Variables .................................................................19
11. Glossary ............................................................................20
11.1. Acronyms .......................................................................20
11.2. Definitions ......................................................................20
12. How to Obtain Technical Information Online .................................................................22
12.1. Overview .................................................................................................................................. 22

13. Cross-References .................................................................................................................. 23
   13.1. Overview .................................................................................................................................. 23
   13.2. Traditional Style Cross-References ..................................................................................... 23
   13.3. New Style Cross-reference ................................................................................................. 25

A. Appendix A – Data Dictionary List of file #409.48 .............................................................. 26
B. Appendix B – Data Dictionary List of file #31 ................................................................ 36
1. Introduction

1.1. Purpose

The purpose of this document is to describe the software enhancements to the VistA Legacy Mumps application that were done in support of a request submitted by Gail Graham, Director, Health Data and Informatics (HD&I) to automate the clinician’s decision-making process when marking a patient encounter either Service Connected (SC) or Non-Service Connected (NSC) within the Patient Care Encounter (PCE) and Scheduling packages.

Outpatient visits for NSC disorders are potentially billable in the Veterans Administration (VA) VistA, but are frequently and incorrectly attributed to service connected conditions. Each incorrect attribution represents lost potential revenue from insurance companies that could be invested in additional medical care to veterans. Providers are required to designate at the point of care if a specific patient care encounter is SC based on available disability rating information. The codes and nomenclature associated with the SC rating are particular to the Veteran Benefits Administration (VBA) and not consistent with industry based medical coding systems such as International Classification of Diseases (ICD) or Current Procedural Terminology (CPT). VA providers find trying to associate these two disparate coding and terminology systems confusing and ambiguous.

Currently, VA providers make SC/NSC determinations by manually selecting SC or NSC based on the conditions treated during the encounter and comparing those conditions to the list of SC conditions shown on the Computerized Patient Record System (CPRS) screen or on the printed encounter form. Both International Classification of Diseases Clinical Modification V.9 (ICD-9-CM) codes and CPT codes are used to populate the encounter form used to describe the services provided to the patient during the encounter. ICD-9-CM is the code set required for use by Health Insurance Portability and Accountability Act (HIPAA) and has been adopted by Veterans Health Administration (VHA) for the coding of all diagnoses, symptoms and conditions for inpatient/outpatient encounters. The VBA list of service connected disabilities is ambiguous and often covers a wide range of conditions making it difficult for providers to easily discern whether or not the treated condition fits the list of SC disabilities specific to the patient. Since the time to examine and treat patients is limited, providers often skip making this determination or select what seems easiest or most helpful to the patient by making an encounter service connected whether or not it is supported by documentation.

1.2. Scope

The scope of this document is to define the technical design of the Automated Service Connected Designation (ASCD) project. This project will automate the SC decision for outpatient encounters using the mapped ICD/Rated Disability codes at the time the clinician actually picks the ICD code for the encounter within the Patient Care Encounter (PCE) and Scheduling packages. Thus, when a provider or clinician chooses the diagnosis code for the encounter the system will automatically determine if the diagnosis is related to the veteran's established service connected conditions, and will likewise automatically make the proper SC/NSC determination for that encounter. This software recognizes potentially billable encounters for SC veterans that cannot be automatically matched to Rated Disability codes. These encounters are displayed in reports for coders and/or utilization review staffs who then review the patient visit information, edit incorrect SC designated encounters, and release them to Claims Tracking for billing where appropriate.
2. Implementation and Maintenance

2.1. Operating Specifics
This section addresses specific information that is needed to run the ASCD software.

2.2. Sizing Information
SDSC SERVICE CONNECTED CHANGES[^SDSC/409.48]
Growth of the ASCD global is dependent upon the number of service connected encounters generated by your facility per day. Each encounter saved in this file is estimated at 300 bytes per entry.

DISABILITY CONDITION[^DIC/31, -]
The Disability Condition File is estimated to increase by 86,400 bytes with the installation of patch DVB*4.0*58.

2.3. Global Journaling
There are no recommendations on journaling the ^SDSC( globals.

2.4. Translation Tables
The ^SDSC(409.48 global is created when installing the SD*5.3*495 build at a site with the Class III software upon conversion of file #626140. For sites that do not have the Class III software, the ^SDSC(409.48 global will be created when the first record is added through PCE/SD or the SDSC NIGHTLY COMPILe option. The ^SDSC(409.48 global will be created with the access privileges defined for files at the site.

2.5. Bulletins
Currently there are no bulletins set up for the ASCD (Automated Service Connected Designation) software.

2.6. Mail Groups

2.6.1. SDSC NIGHTLY TALLY
This mail group should be modified to include the personnel who should be receiving a summary e-mail of those encounters found during the nightly compile.

2.6.2. SDSC NIGHTLY TALLY Example
Below is an example of adding user SDSCUSER, FIRST to the mail group SDSC NIGHTLY TALLY.

Option: [XMEDITMG ] Mail Group Edit

Select MAIL GROUP NAME:  SDSC NIGHTLY TALLY
MAIL GROUP NAME: SDSC NIGHTLY TALLY//
Select MEMBER:  SDSCUSER, FIRST
Are you adding 'SDSCUSER, FIRST’ as a new MEMBER (the 3RD for this MAIL GROUP)? N o// Y (Yes)
TYPE: CC
3. Files

3.1. Overview
This section provides a listing of ASCD files with their associated VA FileMan security access, and brief descriptions of the type of data stored.

3.2. File List
WARNING: It is not recommended that you use VA FileMan to edit any of the files directly! Furthermore, editing these files without direction from the programmers may cause the package to become non-functional!

3.2.1. 409.48 SDSC SERVICE CONNECTED CHANGES
This file contains a list of encounters which were selected for review based on a comparison of the encounter’s ICD9 diagnosis codes and the mapped ICD/Rated Disability codes. See Appendix A for a complete data dictionary list of file #409.48.

3.2.2. 31 DISABILITY CONDITION
This file contains a cross-reference between the national standard VBA disability codes and their equivalent ICD9 codes. See Appendix B for a data dictionary list of file #31.

3.3. File Protection
The ASCD package files contain files that are standardized for this module. They carry a higher level of file protection with regard to Delete, Read, Write, and Laygo access and should not be edited locally unless otherwise directed. The data dictionaries for all files should NOT be altered.

The package has one (1) level of VA FileManager file protection enabled on its files.

@ - Programmer access to files

3.4. Files with Security Access

<table>
<thead>
<tr>
<th>FILE NAME</th>
<th>FILE NUMBER</th>
<th>DD ACCESS</th>
<th>RD ACCESS</th>
<th>WR ACCESS</th>
<th>DEL ACCESS</th>
<th>LAYGO ACCESS</th>
</tr>
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<tbody>
<tr>
<td>SDSC SERVICE CONNECTED CHANGES</td>
<td>409.48</td>
<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
</tr>
<tr>
<td>DISABILITY CONDITION</td>
<td>31</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
4. Routines

4.1. Overview
ASCD uses SDSC as its namespace. The routines are exported via a host file.

4.2. List of Routines
The routines below are exported as part of the ASCD project. They are listed with brief functional summaries.

4.2.1. DVB458P*
Six routines namely DVB458P, DVB458P1, DVB458P2, DVB458P3, DVB458P4, DVB458P5, DVB458P6 were exported as part of the ASCD project in the DVB*4.0*58 patch. These routines introduce modifications to the DISABILITY CONDITION file (#31). They provide the mapping of the Veteran Benefits Administration (VBA) 4 digit RATED DISABILITIES (VA) code terminology to the ICD-9-CM codes.

4.2.2. PXBAPI21
This routine was modified to add a new subroutine OPCHK and additional code to perform checks on a standalone encounter entered with the PCE package.

4.2.3. PXBAPI22
This routine was modified to call the $$SC^SDSCAPI API to automate the response "Was treatment for SC Condition?" for each diagnosis code entered in the PCE and Scheduling package.

4.2.4. PXCEVFI1
This routine was modified to capture the IEN of the diagnosis code that the user entered in PCE to facilitate the automation of the "Was treatment for SC Condition?" response.

4.2.5. PXCEVFI2
This routine was modified to add the VBA DX CODE number to the display of the Rated Disabilities (VA) names.

4.2.6. SD53P495
This post install routine is released with SD*5.3*495 patch. It performs the conversion of the Class III ANU SERVICE CONNECTED CHANGES File (#626140) to the new Class I SDSC SERVICE CONNECTED CHANGES file (#409.48). It also sets the default value of 30 days in the Site PARAMETERS file (#8989.5) used by the SDSC NIGHTLY COMPILE option.
4.2.7. **SDSCOM**
This routine was modified to call $ST^SDSCAPI API to review the encounter diagnosis codes against the patient rated disabilities codes and then make a determination as to whether the encounter should be send to the ASCD file (#409.48) for review.

4.2.8. **SDSCAPI**
This routine determines the service connected value for a specific diagnosis code or the overall encounter diagnosis code. This determination is based on the mapping of a patient’s rated disability codes and ICD-9-CM codes. The entry point “SC” is called to automate the SC value. The entry point “ST” is generally called at “check out” when deciding whether the encounter should be sent for review.

4.2.9. **SDSCCHK**
This routine goes through the Outpatient Encounter File, (#409.68) to determine those encounters that have not been reviewed based on a user specified date range. The results are compiled in the “Compile Results Report” and displays a number of reasons why encounters were not compiled.

4.2.10. **SDSCCLM**
This routine calls IB API routine IBRSUTL to update the claims tracking file.

4.2.11. **SDSCEDT**
This routine handles the logic to review and edit encounters entered in the ASCD file. It contains the entry point for editing encounters by date and also for editing a single encounter.

4.2.12. **SDSCINS**
This routine checks the Audit File (#1.1) for any newly identified insurance policies. It is used during the nightly compile to re-check previous encounters to see if any may have become reviewable by the addition of an insurance policy.

4.2.13. **SDSCLM**
This routine contains ListMan logic for the SDSC EDIT LISTMAN option to review and edit encounters entered in the ASCD file.

4.2.14. **SDSCLM1**
This routine contains additional ListMan logic for the SDSC EDIT LISTMAN option to review encounters selected by the SCOUT compile.

4.2.15. **SDSCLST**
This routine contains the main entry point for the SDSC EDIT LISTMAN option. It also builds the list of encounter entries to be reviewed for the date range specified.
4.2.16. SDSCMSR
This routine is used to generate the Manager Summary Report and is available only to users with the SDSC SUPER key.

4.2.17. SDSCNSCP
This routine is used to purge encounters with a status of NEW where the Visit SC value equals the ASCD value of "NO" for a specified division(s) and a user defined date range. Users must have the SDSC SUPER key to run this option.

4.2.18. SDSCOMP
This routine contains the entry points for manually and automatically (TaskMan) compiling a list of encounters to be used by the ASCD review options.

4.2.19. SDSCPRG
This routine will purge any encounters in the SDSC SERVICE CONNECTED CHANGES FILE (#409.48) that have been deleted from the OUTPATIENT ENCOUNTER File (#409.68).

4.2.20. SDSCPRM
This routine will allow a user with the SDSC SUPER key to change the number of days in the Site PARAMETERS File (#8989.5).

4.2.21. SDSCPRV
This routine is used to generate the Provider Total Summary Report.

4.2.22. SDSCRP1
This routine is used to generate the Unbilled/Billable Amount Report.

4.2.23. SDSCRP2
This routine contains the logic for the Estimated Recovered Costs Report for ASCD.

4.2.24. SDSCRPT1
This routine contains the entry points for several of the ASCD reports. These reports are
1) Service Connected Encounters Report [SDSC ENC REPORT]
2) First Party Billable Service Connected Report [SDSC FIRST PARTY REPORT]
3) Third Party Billable Service Connected Report [SDSC THIRD PARTY REPORT]
4) Provider Service Connected Encounters Report [SDSC PROVIDER REPORT]
5) User Service Connected Encounters Report [SDSC USER REPORT]

4.2.25. SDSCRPT2
This routine contains additional logic for the ASCD reports listed in 4.2.24.
4.2.26. SDSCSSD
This routine is used to generate the Clinic Service Total Summary Report.

4.2.27. SDSCUSR
This routine is used to generate the User Total Summary Report.

4.2.28. SDSCUTL
This routine contains several utility functions used by the ASCD software.

5. Exported Options

5.1. Menu Diagrams
The following is a diagram of menus exported with the ASCD project.

Automated Service Connected Designation Menu (SDSC MENU)
|
|-------------------------------|-------------------|
| ASCD Compile Parameter [SDSC SITE PARAMETER] |
| **LOCKED: SDSC SUPER** |

----- ASCD Reports [SDSC REPORTS] ------
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinic Service Total Summary Report [SDSC SERVICE TOTAL REPORT]</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Compile Results Report [SDSC CHECK COMPILE]</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Estimated Recovered Costs Report [SDSC RECOVERED REPORT]</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>First Party Billable Service Connected Report [SDSC FIRST PARTY REPORT]</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Manager Summary Report [SDSC MANAGER SUMMARY REPORT]</td>
</tr>
<tr>
<td><strong>LOCKED: SDSC SUPER</strong></td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Provider Service Connected Encounters Report [SDSC PROVIDER REPORT]</td>
</tr>
</tbody>
</table>
5.2. Exported Options

The following options are exported with ASCD and are listed below with brief functional summaries.

5.2.1. SDSC CHECK COMPILE

| MENU TEXT: | Compile Results Report |
| TYPE: run routine | PACKAGE: SCHEDULING |
| DESCRIPTION: | This report prints out why encounters were not compiled into ASCD. |
| ROUTINE: | EN^SDSCCHK |

5.2.2. SDSC COMPILE

| MENU TEXT: | Compile ASCD Encounters by Date Range |
| TYPE: run routine | PACKAGE: SCHEDULING |
DESCRIPTION: This option compares POVs of visits/encounters with the rated disabilities of a patient to verify if the visit is service connected. If the visit cannot be verified as service connected, the encounter will be stored for review and reporting. This option is interactive. It will ask the users for a date range. It is suggested that this be run at least once a month to update any records not completed at the time of the nightly compile.

ROUTINE: COMPILE^SDSCOMP

5.2.3. SDSC EDIT BY DATE

MENU TEXT: Edit ASCD Encounters by Date Range
TYPE: run routine PACKAGE: SCHEDULING
DESCRIPTION: This option allows the user to edit the service connected information for a set of previously compiled encounters for a specific date range.

ROUTINE: START^SDSCEDT

5.2.4. SDSC EDIT LISTMAN

MENU TEXT: Edit ASCD Encounters by ListMan
TYPE: run routine PACKAGE: SCHEDULING
DESCRIPTION: This option allows the user to review and edit Automated Service Connected Designation encounters via a ListMan screen.

ROUTINE: EN^SDSCLST

5.2.5. SDSC ENC REPORT

MENU TEXT: Service Connected Encounters Report
TYPE: run routine PACKAGE: SCHEDULING
DESCRIPTION: This report displays details of the current status of each encounter found by the Automated Service Connected Designation compile.

ROUTINE: RDPOV^SDSCRPT1

5.2.6. SDSC FIRST PARTY REPORT

MENU TEXT: First Party Billable Service Connected Report
TYPE: run routine PACKAGE: SCHEDULING
DESCRIPTION: This report displays information on any encounters found by the ASCD compile that are potentially billable to first party (means test).

ROUTINE: NSCCOP^SDSCRPT1

5.2.7. SDSC MANAGER SUMMARY REPORT

MENU TEXT: Manager Summary Report
TYPE: run routine
LOCK: SDSC SUPER PACKAGE: SCHEDULING
DESCRIPTION: This option compiles and prints the ASCD Managers Summary Report.

ROUTINE: EN^SDSCMSR
5.2.8. **SDSC MENU**

**MENU TEXT:** Automated Service Connected Designation Menu  
**TYPE:** menu  
**PACKAGE:** SCHEDULING  
**DESCRIPTION:** This menu contains all the options related to the Automated Service Connected Designation module.  
**ITEM:**  
SDSC COMPILE  
SDSC EDIT BY DATE  
SDSC SINGLE EDIT  
SDSC EDIT LISTMAN  
SDSC REPORTS  
SDSC PURGE NSC ENC  
SDSC SITE PARAMETER

5.2.9. **SDSC NIGHTLY COMPILE**

**MENU TEXT:** Compile ASCD Encounters on a Nightly Basis  
**TYPE:** run routine  
**PACKAGE:** SCHEDULING  
**DESCRIPTION:** This option compares POVs of visits/encounters with the rated disabilities of a patient to verify if the visit is service connected. If the visit cannot be verified as service connected, the encounter will be stored for review and reporting.  
This option is not interactive. It compiles data for the previous day. It is suggested that this option be scheduled in TaskMan to run daily.  
**ROUTINE:** AUTODT^SDSCOMP

5.2.10. **SDSC PROVIDER REPORT**

**MENU TEXT:** Provider Service Connected Encounters Report  
**TYPE:** run routine  
**PACKAGE:** SCHEDULING  
**DESCRIPTION:** This report can either display details or a summary of the encounters found by the ASCD compile sorted by the primary provider from the encounter/visit.  
**ROUTINE:** SCPRV^SDSCRPT1

5.2.11. **SDSC PROVIDER TOTAL REPORT**

**MENU TEXT:** Provider Total Summary Report  
**TYPE:** run routine  
**PACKAGE:** SCHEDULING  
**DESCRIPTION:** This option displays provider totals by division for the VBA okay codes, changed service connected encounters and encounters where the service connection was not changed.  
**ROUTINE:** EN^SDSCPRV

5.2.12. **SDSC PURGE NSC ENC**

**MENU TEXT:** Purge ASCD NSC Encounters  
**TYPE:** run routine  
**LOCK:** SDSC SUPER  
**DESCRIPTION:** This option will purge encounters with a status of NEW where the Encounter SC value equals the ASCD value of "NO" for a specified
division(s) within a user defined date range. Users must have the SDSC SUPER key to run this option.

ROUTINE: EN^SDSCNSCP
PACKAGE: Scheduling

5.2.13. SDSC RECOVERED REPORT

MENU TEXT: Estimated Recovered Costs Report
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This is a report which will look for bills and payments for encounters that have had their Service Connected status changed by ASCD options.
ROUTINE: EN^SDSCRP2

5.2.14. SDSC REPORTS

MENU TEXT: ASCD Reports
TYPE: menu
PACKAGE: SCHEDULING
DESCRIPTION: This menu contains all the reports related to the Automated Service Connected Designation module.
ITEM:
- SDSC MANAGER SUMMARY REPORT
- SDSC PROVIDER TOTAL REPORT
- SDSC SERVICE TOTAL REPORT
- SDSC USER TOTAL REPORT
- SDSC CHECK COMPILE
- SDSC ENC REPORT
- SDSC FIRST PARTY REPORT
- SDSC PROVIDER REPORT
- SDSC RECOVERED REPORT
- SDSC UNBILL AMT REPORT
- SDSC THIRD PARTY REPORT
- SDSC USER REPORT

5.2.15. SDSC SERVICE TOTAL REPORT

MENU TEXT: Clinic Service Total Summary Report
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This report displays the Service Connected changes by clinical service M:MEDICINE;S:SURGERY;P:PSYCHIATRY;R:REHAB MEDICINE;N:NEUROLOGY;0:NONE and by the clinic with that service.
ROUTINE: EN^SDSCSSD

5.2.16. SDSC SINGLE EDIT

MENU TEXT: Edit Single ASCD Encounter
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This option allows the user to edit the service connected information for any specific encounter previously selected by a compile.
ROUTINE: START1^SDSCEDT
5.2.17. SDSC SITE PARAMETER

MENU TEXT: ASCD Compile Parameter
TYPE: run routine
LOCK: SDSC SUPER
PACKAGE: SCHEDULING
DESCRIPTION: This option allows the supervisor to adjust the number of days the compile uses to check for completed outpatient encounters.
ROUTINE: EN^SDSCPRM

5.2.18. SDSC THIRD PARTY REPORT

MENU TEXT: Third Party Billable Service Connected Report
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This report displays information on any encounters found by the ASCD compile that are potentially billable to third party (insurance).
ROUTINE: NSCINS^SDSCRPT1

5.2.19. SDSC UNBILL AMT REPORT

MENU TEXT: Unbilled/Billable Amount Report
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This option prints a report of those encounters whose service connection was changed and not yet billed. If a user has the supervisor key they will also be able to run the supervisor option which contains the names of the last two editors.
ROUTINE: START^SDSCRPI

5.2.20. SDSC USER REPORT

MENU TEXT: User Service Connected Encounters Report
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This report can either display details or a summary of the encounters found by the ASCD compile sorted by the user who last edited the service connection information for the encounter.
ROUTINE: SCUSR^SDSCRPT1

5.2.21. SDSC USER TOTAL REPORT

MENU TEXT: User Total Summary Report
TYPE: run routine
PACKAGE: SCHEDULING
DESCRIPTION: This report will print user information.
ROUTINE: EN^SDSCUSR

5.2.22. PXCE ENCOUNTER ENTRY SUPER

MENU TEXT: PCE Encounter Data Entry - Supervisor
TYPE: action
PACKAGE: PCE PATIENT CARE ENCOUNTER
DESCRIPTION: This option allows for the add/edit/deleting of information on certain encounters that most users should not be changing and the other PCE options will not allow to be changed. This option also does not conditionally not ask some fields, i.e. it always asks all of the fields. In addition this option allows users to document a clinical encounter in the
V-files (visit related files), and can also delete any V-File encounter entries, even though they are not the creator of the entries. The data entered via this option includes visit information (where and when), and the following clinical data related to the visit: providers of care, problems treated, procedures and treatments done, and immunizations, skin tests, and patient education given.

This option is intended for the Coordinator for PCE and/or supervisor of the encounter data entry staff.

Short Menu Text: SUP EXIT ACTION: K SDSCEDIT
ENTRY ACTION: S SDSCEDIT=1 D EN^PXCE("S")
Setting variable SDSCEDIT=1 allows for the edit of the automated question “Was treatment for SC Condition?”.

5.3. Exported Protocols
The following protocols were exported with the ASCD project.

5.3.1. SDSC ACCEPT
ITEM TEXT: Retain SvcConnected Status
TYPE: action PACKAGE: SCHEDULING
ENTRY ACTION: D ACC^SDSCLST

5.3.2. SDSC CHANGE
ITEM TEXT: Modify SvcConnected Status
TYPE: action PACKAGE: SCHEDULING
ENTRY ACTION: D EDT^SDSCLST

5.3.3. SDSC DETAIL
ITEM TEXT: Review Encounter
TYPE: action PACKAGE: SCHEDULING
ENTRY ACTION: D SEL^SDSCLST

5.3.4. SDSC MENU
TYPE: menu PACKAGE: SCHEDULING
ITEM: SDSC DETAIL
SCREEN: I $G(VALMCNT)

5.3.5. SDSC RECORD MENU
ITEM TEXT: Edit Detail Record Menu
TYPE: menu PACKAGE: SCHEDULING
ITEM: SDSC ACCEPT
SDSC CHANGE
SDSC SEND
5.3.6. SDSC SEND

ITEM TEXT: Flag for Clinical Review
TYPE: action
PACKAGE: SCHEDULING
ENTRY ACTION: D REV^SDSCLST

5.4. Exported List Templates

The following list templates were exported with the ASCD project.

5.4.1. SDSC DETAIL

TYPE OF LIST: PROTOCOL
RIGHT MARGIN: 80
BOTTOM MARGIN: 18
USE CURSOR CONTROL: YES
SCREEN TITLE: Encounter Detail
AUTOMATIC DEFAULTS: YES
ARRAY NAME: ^TMP("SDSCLST",$J)
ENTRY CODE: D INIT^SDSCLM1

5.4.2. SDSC REVIEW

TYPE OF LIST: PROTOCOL
RIGHT MARGIN: 80
BOTTOM MARGIN: 18
USE CURSOR CONTROL: YES
SCREEN TITLE: ASCD
AUTOMATIC DEFAULTS: YES
ITEM NAME: ENCDT
ITEM NAME: ENCNO
ITEM NAME: PAT
ITEM NAME: STAT
ITEM NAME: LINENUM
EXIT CODE: D EXIT^SDSCLM
HEADER CODE: D HDR^SDSCLM
HELP CODE: D HELP^SDSCLM
ENTRY CODE: D INIT^SDSCLM

5.5. Exported Parameter Definition

The following parameter definition was exported with the ASCD project.
5.5.1. SDSC SITE PARAMETER

DISPLAY TEXT: SDSC SITE PARAMETER
MULTIPLE VALUED: No       INSTANCE TERM: CHECK DAYS
VALUE TERM: DAYS           VALUE DATA TYPE: numeric
VALUE HELP: Enter a number between 1-99999.
VALUE VALIDATION CODE: K:((X<1)!((X>99999)) X
INSTANCE DATA TYPE: numeric
INSTANCE HELP: Enter a number between 1-99999.
INSTANCE VALIDATION CODE: K:((X<1)!((X>99999)) X
PRECEDENCE: 1       ENTITY FILE: DIVISION

5.6. Exported Mail Group

The following mail group was exported with the ASCD project.

5.6.1. SDSC NIGHTLY TALLY

TYPE: public
ALLOW SELF ENROLLMENT?: No
DESCRIPTION: This mail group is for ASCD (Automated Service Connected Designation) software. A breakdown of records reviewed during the nightly process will be sent to this mail group.

5.7. Exported Security Keys

The following security keys were exported with the ASCD project.

5.7.1. SDSC CLINICAL

DESCRIPTIVE NAME: SC Clinical User
DESCRIPTION: This key should be assigned to any clinical reviewer of encounters that are part of the Automated Service Connected Designation (ASCD) system.

5.7.2. SDSC SUPER

DESCRIPTIVE NAME: SC Supervisor
DESCRIPTION: This key should be assigned to a supervisor reviewer of encounters that are part of the Automated Service Connected Designation (ASCD) system.

6. Archiving and Purging

6.1. Archiving

There is no archiving currently defined for this package.
6.2. Purging

Occasionally, encounters are deleted from the OUTPATIENT ENCOUNTER File (#409.68). However, when the encounter is deleted from file #409.68 it is not removed from the SDSC SERVICE CONNECTED CHANGES File (#409.48) automatically. The SDSC NIGHTLY COMPILe option runs a purge utility that removes encounters from the ASCD file (#409.48) if the encounter has been deleted from the Outpatient Encounter File (#409.68). A MailMan message is also sent to the mail group SDSC NIGHTLY TALLY showing how many encounters were purged.

The ‘Encounters with No Action Taken’ section lists the visit date/time, patient name, and ASCD status.

The ‘Encounters with Actions Taken’ section lists the visit date/time, patient name, and ASCD status as well as detail lines concerning each user who took some action on the encounter, the date the action was taken and the action.

<table>
<thead>
<tr>
<th>Subj: ASCD PURGE REPORT [#8675] 10/03/06@17:59 13 lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>From: ASCD PURGE CHECK In 'IN' basket. Page 1</td>
</tr>
<tr>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>Encounters with No Action Taken: 1</td>
</tr>
<tr>
<td>JAN 14, 2006@13:15-PATIENT,ONE M-NEW</td>
</tr>
<tr>
<td>Encounters with Actions Taken: 3</td>
</tr>
<tr>
<td>JAN 06, 2006@14:30-PATIENT, TWO L-COMPLETED</td>
</tr>
<tr>
<td>USER,ONE-JAN 09, 2006-USER-REVIEW</td>
</tr>
<tr>
<td>USER,SUPERVISOR-JAN 09, 2005-SUPERVISOR-SC CHNG</td>
</tr>
<tr>
<td>SEP 14, 2006@10:30-PATIENT, THREE N-COMPLETED</td>
</tr>
<tr>
<td>USER,KONE-OCT 03, 2006-USER-REVIEW</td>
</tr>
<tr>
<td>USER,SUPERVISOR-OCT 03, 2006-SUPERVISOR-SC KEPT</td>
</tr>
<tr>
<td>USER,SUPERVISOR L-OCT 03, 2005-SUPERVISOR-SC CHNG</td>
</tr>
<tr>
<td>AUG 28, 2005@04:47-PATIENT,FOUR F-COMPLETED</td>
</tr>
<tr>
<td>USER, TWO-OCT 03, 2005-USER-REVIEW</td>
</tr>
<tr>
<td>USER, SUPERVISOR-OCT 03, 2005-SUPERVISOR-SC CHNG</td>
</tr>
<tr>
<td>Enter message action (in IN basket): Ignore//</td>
</tr>
</tbody>
</table>

7. Callable Routines/Entry Points/Application Programmer Interfaces

7.1. Overview

This section contains a list of callable routines, entry points and application program interfaces used by the ASCD project.

7.2. Callable Routines

The routines listed below are called by ASCD software. A brief functional summary is provided for each.

$BIL^DGMTUB Determine if patient is pending adjudication or category C and has agreed to pay the deductible.
Returns patient rated disabilities.

Patient security look-up.

Checks if patient is insured.

Return claims tracking record for outpatient encounter.

Checks if an outpatient encounter is billable for first party.

Return first party bill number for an outpatient encounter.

Update claims tracking record reason not billable for an outpatient encounter.

Checks if an outpatient encounter is billable for third party.

Returns a list of third party bill numbers for an outpatient encounter.

Return outpatient encounters third party charges, based on encounters procedures.

Returns ICD9 code information.

Returns basic info on CPT/HCPCS code.

Returns AR bill information.

Prompts a user for visit and related data.

Returns a visit primary provider.

Check Hospital Location file (#44) for non-count clinic and occasion of service.

Set-up Classification Array for Outpatient Encounter.

Gets encounter/visit procedure codes.

Gets encounter/visit diagnosis codes.

Gets the zero node from the Outpatient Encounter file (#409.68).

Get primary diagnosis code for an encounter.

Display the version of the Scheduling package.

Adds a number to a FileMan date

Converts Filename date to an external date.

Converts a $H value to an external date.

Converts a string to uppercase.

Used to generate bulletins.

Returns a parameter value.

Allows for editing a value in the Parameter file.

Checks if a user has a particular key.

Returns the full name from the NEW PERSON file (#200).

Gets patient eligibility information.

Gets patient demographic information.

Kills patient variables.

Gets patient admission information.

Returns medical center division of primary medical center division.

Returns the institution and station number.
8. **External Relationships**

8.1. **Overview**

The section provides a list of external relationships required between the ASCD software and other packages.

8.2. **Minimum Package Requirement**

At a minimum ASCD will require the packages listed below. Sites should verify that all patches for these packages have been installed.

- DVB V. 4.0
- IB V. 2.0
- ICD V. 18.0
- ICPT V. 6.0
- Kernel V. 8.0
- Kernel Toolkit V. 7.3
- PCE V. 1.0
- PRCA V. 4.5
- SD V. 5.3
- VA FileMan V. 22.0
- VA MailMan V. 7.1

8.3. **DBIAs**

The following DBIAs exist between the ASCD software and the other packages.

- **DBIA427** Grants permission to read \(^{\text{DIC}(8,\text{D0,0})}\).
- **DBIA643** Determine if a patient was Category C on a specified date. Calls API $\text{SBI}L^{\text{DGMTUB}}$.
- **DBIA733** Grants access to disability codes and associated ICD9 codes.
- **DBIA767** This DBIA allows access to the DG SECURITY LOG file to determine whether a patient is considered sensitive. Needed so as to read the 2nd piece of the 0 node in global ^DGSL(38.1.
- **DBIA2028** Grants access to read PCE global ^AUPNVSIT(..
- **DBIA2295** Grants direct global read to file #40.8. Reads field .01.
- **DBIA2315** Grants access to read the Visit VPOV file ^AUPNVPOV.
- **DBIA2336** Part of the Parameter Tools component of Toolkit. Call made to allow access to EDIT^XPAREDIT.
- **DBIA2343** Returns the full name of the specified user in a mixed case displayable format. Calls $\text{NAME}^\text{XUSER}$.
- **DBIA2602** Reads the Audit file #1.1. Access to the “C” x-reference and fields 1, .03, 2 and 3. Need to order through ^DIA for a date range to determine new insurance.
- **DBIA2992** Provides access to read file 8989.51.
9. Internal Relationships

Any ASCD option in File 19 which is a menu option should be able to run independently provided the user has the appropriate keys and FileMan access.

10. Global Variables

The ASCD software does not make use of any global variables.
11. Glossary

The following is a list of acronyms/definitions related to the ASCD software.

11.1. Acronyms

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AO</td>
<td>Agent Orange</td>
</tr>
<tr>
<td>ASCD</td>
<td>Automated Service Connected Designation</td>
</tr>
<tr>
<td>CPRS</td>
<td>Computerized Patient Record System</td>
</tr>
<tr>
<td>CPT</td>
<td>Current Procedural Terminology</td>
</tr>
<tr>
<td>EPS</td>
<td>Enterprise Product Support</td>
</tr>
<tr>
<td>HINQ</td>
<td>Hospital Inquiry</td>
</tr>
<tr>
<td>HIPAA</td>
<td>Health Insurance Portability and Accountability Act</td>
</tr>
<tr>
<td>HSD&amp;D</td>
<td>Health Systems Design &amp; Development</td>
</tr>
<tr>
<td>ICD</td>
<td>International Classification of Diseases</td>
</tr>
<tr>
<td>ICD-9-CM</td>
<td>International Classification of Diseases Clinical Modification V.9</td>
</tr>
<tr>
<td>NPCD</td>
<td>National Patient Care Database</td>
</tr>
<tr>
<td>NSC</td>
<td>Non-Service Connected</td>
</tr>
<tr>
<td>PCE</td>
<td>Patient Care Encounter</td>
</tr>
<tr>
<td>SC</td>
<td>Service Connected</td>
</tr>
<tr>
<td>VA</td>
<td>Department of Veterans Affairs</td>
</tr>
<tr>
<td>VBA</td>
<td>Veterans Benefits Administration</td>
</tr>
<tr>
<td>VHA</td>
<td>Veterans Health Administration</td>
</tr>
<tr>
<td>VISN</td>
<td>Veterans Integrated Service Network</td>
</tr>
<tr>
<td>VistA</td>
<td>Veterans Health Information Systems and Technology Architecture</td>
</tr>
</tbody>
</table>

11.2. Definitions

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPRS</td>
<td>CPRS is the patient’s electronic medical record. It is a compilation of information entered directly into CPRS and information gathered from ancillary services, including but not limited to, orders, progress notes, discharge summaries, medications, problems, imaging impressions, and laboratory results.</td>
</tr>
<tr>
<td>Term</td>
<td>Definition</td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
</tr>
<tr>
<td>Encounter</td>
<td>A contact between a patient and a provider who has primary responsibility for assessing and treating the patient at a given contact, exercising independent judgment. A patient may have multiple encounters per visit. Outpatient encounters include scheduled appointments and walk-in unscheduled visits. A clinician’s telephone communications with a patient may be represented by a separate visit entry. If the patient is seen in an outpatient clinic while an inpatient, this is treated as a separate encounter.</td>
</tr>
<tr>
<td>Enterprise Product Support</td>
<td>Enterprise Product Support is the central agency responsible for distributing VistA software patches nationally.</td>
</tr>
<tr>
<td>National Patient Care Database (NPCD)</td>
<td>The National Patient Care Database is maintained in Austin and receives selected demographic and encounter-based clinical and diagnostic data from VAMCs. This data enables a detailed analysis of VHA inpatient and outpatient health care activity.</td>
</tr>
<tr>
<td>Non-Count Clinic</td>
<td>A clinic whose visits do not affect AMIS statistics.</td>
</tr>
<tr>
<td>PCE</td>
<td>PCE is a VistA program that is part of the Ambulatory Data Capture Project (ADCP) and provides clinical reminders, which appear on Health Summaries. PCE helps sites collect, manage and display outpatient encounter data (including providers, procedure codes, and diagnostic codes) in compliance with the 10/1/96 Ambulatory Care Data Capture mandate from the Undersecretary of Health. It helps sites document patient education, examinations, treatments, skin tests, and immunizations, and collect and manage other clinically significant data, such as defining Health Factors and Health Maintenance reminders.</td>
</tr>
<tr>
<td>Provider</td>
<td>The entity which furnishes health care to a consumer. This definition includes an individual or defined group of individuals who provide a defined unit of health care services (defined=codable) to one or more individuals at a single session.</td>
</tr>
<tr>
<td>Requirements</td>
<td>User needs that trigger the development of a program, system, or project. Requirements may be business, functional, and/or system needs. They are documented in detail in the Software Requirements Specifications (SRS) document.</td>
</tr>
<tr>
<td>Stakeholders</td>
<td>Individuals and organizations that are actively involved in the project, or whose interests may be positively or negatively affected as a result of project execution or project completion. They may also exert influence over the project and its results.</td>
</tr>
<tr>
<td>Software Requirement Specifications</td>
<td>Document that outlines the functionality requirements for a project.</td>
</tr>
<tr>
<td>Stop Code</td>
<td>A three digit number corresponding to an additional stop/service a patient received in conjunction with a clinic visit. Stop code entries are used so that medical facilities may receive credit for the services rendered during a patient visit.</td>
</tr>
<tr>
<td>Veterans Health Information System and Technology Architecture</td>
<td>Veterans Health Information Systems and Technology Architecture, formerly known as Decentralized Hospital Computer Program (DHCP), encompasses the complete information environment at VA medical facilities.</td>
</tr>
</tbody>
</table>
12. How to Obtain Technical Information Online

12.1. Overview
This section describes some of the various methods by which users may secure ASCD documentation. On-line technical documentation pertaining to the ASCD software, in addition to that which is located in the help prompts and on the help screens which are found throughout the package, may be generated through utilization of KERNEL options. These include but are not limited to: XINDEX, Menu Management, Inquire Option File, Print Option File, and FileMan List File Attributes.

Automated SC Designation Draft IAB:
http://tspr.vista.med.va.gov/warboard/ProjectDocs/Automated_Service_Connection/Automated_SC_Designation_Draft_IAB_2005070510145.doc

ASCD Release Notes:
http://www.va.gov/vdl/application.asp?appid=174

ASCD Technical Manual:
http://www.va.gov/vdl/application.asp?appid=174

ASCD User Manual:
http://www.va.gov/vdl/application.asp?appid=174

ASCD Patches
SD*5.3*495, PX*1.0*184 and DVB*4.0*58.

ASCD Associated Patches
IB*2.0*369 and PRCA*4.5*250.
13. Cross-References

13.1. Overview
ASCD uses SDSC as its namespace. The routines are exported via a host file

13.2. Traditional Style Cross-References

AC REGULAR
Field: DATE LAST EDITED (409.48,.02)
Description: This cross reference is by DATE LAST EDITED and is used for several reports that track changes the user made to the encounter.
1) S ^SDSC(409.48,"AC",$E(X,1,30),DA)="
2) K ^SDSC(409.48,"AC",$E(X,1,30),DA)

AD REGULAR
Field: DATE CREATED (409.48,.04)
Description: This cross reference is by DATE CREATED and is used for several reports that track what happened when an encounter was added to this file.
1) S ^SDSC(409.48,"AD",$E(X,1,30),DA)="
2) K ^SDSC(409.48,"AD",$E(X,1,30),DA)

AE REGULAR
Field: DATE OF ENCOUNTER (409.48,.07)
Description: This cross reference is by DATE OF ENCOUNTER and is used by several reports.
1) S ^SDSC(409.48,"AE",$E(X,1,30),DA)="
2) K ^SDSC(409.48,"AE",$E(X,1,30),DA)

B REGULAR
Field: OUTPATIENT ENCOUNTER (409.48,.01)
1) S ^SDSC(409.48,"B",$E(X,1,30),DA)="
2) K ^SDSC(409.48,"B",$E(X,1,30),DA)

D REGULAR
Field: PATIENT (409.48,.11)
Description: Patient IEN cross-reference
1) S ^SDSC(409.48,"D",$E(X,1,30),DA)="
2) K ^SDSC(409.48,"D",$E(X,1,30),DA)

TRIGGER
Field: SERV. CONNECT (OK BY USER?) (409.48,.06)
Triggered Field: STATUS (409.48,.05)
1) K DIV S DIV=X,D0=DA,DIV(0)=D0 S
   Y(1)=SS($D(^SDSC(409.48,D0,0)),"(0),1:"") S X=$P(Y(1),U,5),X=X S DIU=X
   K Y S X=DIV S X="C" S DIH=$G(^SDSC(409.48,DIU(0),0)),DIV=X S
   $P("(0),U,5)=DIV,DIH=409.48,DIG=.05 D ^DICR
2) Q
CREATE VALUE)= "C"
DELETE VALUE)= NO EFFECT
FIELD)= #.05

Sub-File #409.481 - Traditional Cross-References:

B REGULAR
Field: EDIT NUMBER (409.481,.01)
1)= S ^SDSC(409.48,DA(1),1,"B",SE(X,1,30),DA)=""
2)= K ^SDSC(409.48,DA(1),1,"B",SE(X,1,30),DA)

TRIGGER
Field: DATE EDITED (409.481,.02)
Triggered Field: DATE LAST EDITED (409.48,.02)
1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S
   Y(1)=SS($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(Y(1),U,2),X=X S DIU=X
   K Y S X=DIV S X=X S DIH=$G(^SDSC(409.48,DIV(0),0)),DIV=X S $P
   (^0,3)=DIV,DIH=409.48,DIG=.02 D ^DICR
2)= Q
CREATE VALUE)= S X=X
DELETE VALUE)= NO EFFECT
FIELD)= #.02

TRIGGER
Field: EDITED BY (409.481,.03)
Triggered Field: LAST EDITED BY (409.48,.03)
1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S
   Y(1)=SS($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(Y(1),U,3),X=X S DIU=X
   K Y S X=DIV S X=X S DIH=$G(^SDSC(409.48,DIV(0),0)),DIV=X S $P
   (^0,3)=DIV,DIH=409.48,DIG=.03 D ^DICR
2)= Q
CREATE VALUE)= S X=X
DELETE VALUE)= NO EFFECT
FIELD)= #.03

TRIGGER
Field: SERV. CONNECT (OK BY USER?) (409.481,.05)
Triggered Field: SERV. CONNECT (OK BY USER?) (409.48,.06)
1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S
   Y(1)=SS($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(Y(1),U,6),X=X S DIU=X
   K Y S X=DIV S X=X S DIH=$G(^SDSC(409.48,DIV(0),0)),DIV=X S $P
   (^0,6)=DIV,DIH=409.48,DIG=.06 D ^DICR
2)= Q
CREATE VALUE)= S X=X
DELETE VALUE)= NO EFFECT
FIELD)= #.06

TRIGGER
Field: REVIEW REQUIRED? (409.481,.06)
Triggered Field: STATUS (409.48,.05)
13.3. New Style Cross-reference

AF (#699) RECORD REGULAR IR SORTING ONLY
Short Descr: Cross reference by PROVIDER and DATE OF ENCOUNTER
Description: This cross reference (by PROVIDER and DATE OF ENCOUNTER) is used by a report of the providers who have had encounters reviewed through the ASCD options.
Set Logic: S ^SDSC(409.48,"AF",X(1),X(2),DA)=""
Kill Logic: K ^SDSC(409.48,"AF",X(1),X(2),DA)
Whole Kill: K ^SDSC(409.48,"AF")
X(1): PRIMARY PROVIDER (409.48,.08) (Subscr 1) (forwards)
X(2): DATE OF ENCOUNTER (409.48,.07) (Subscr 2) (forwards)

AG (#700) RECORD REGULAR IR SORTING ONLY
Short Descr: Cross reference by LAST EDITED BY and DATE OF ENCOUNTER
Description: This cross reference (by LAST EDITED BY and DATE OF ENCOUNTER) is used by a report of the users who reviewed encounters and what they did to each through the ASCD options.
Set Logic: S ^SDSC(409.48,"AG",X(1),X(2),DA)=""
Kill Logic: K ^SDSC(409.48,"AG",X(1),X(2),DA)
Whole Kill: K ^SDSC(409.48,"AG")
X(1): LAST EDITED BY (409.48,.03) (Subscr 1) (forwards)
X(2): DATE OF ENCOUNTER (409.48,.07) (Subscr 2) (forwards)

C (#701) RECORD REGULAR IR LOOKUP & SORTING
Short Descr: Cross Reference by STATUS and DATE OF ENCOUNTER
Description: This cross reference (by STATUS and DATE OF ENCOUNTER) is used by a summary report of the status of encounters found on a particular day and also by a loop that runs through the NEW or REVIEW statuses for a date range.
Set Logic: S ^SDSC(409.48,"C",X(1),X(2),DA)=""
Kill Logic: K ^SDSC(409.48,"C",X(1),X(2),DA)
Whole Kill: K ^SDSC(409.48,"C")
X(1): STATUS (409.48,.05) (Subscr 1) (forwards)
X(2): DATE OF ENCOUNTER (409.48,.07) (Subscr 2) (forwards)
A. Appendix A – Data Dictionary List of file #409.48

STANDARD DATA DICTIONARY #409.48 -- SDSC SERVICE CONNECTED CHANGES FILE
MAR 19,2007@12:58:45 PAGE 1
STORED IN `SDSC(409.48, (51 ENTRIES) SITE: Albany IRM Field Office UCI: DEVVJJDENVVJ

DATA NAME GLOBAL DATA
ELEMENT TITLE LOCATION TYPE

This file contains a list of encounters which were selected for review based on a comparison of the ICD9 diagnosis codes from the encounter and the VBA rated disabilities (VA) codes from the patient. Entries will be edited as necessary per the review criteria established for determining if an encounter is service-connected (SC) or non-service connected (NSC).

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

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

CROSS REFERENCED BY:
DATE LAST EDITED(AC), DATE CREATED(AD), DATE OF ENCOUNTER(AE), OUTPATIENT ENCOUNTER(B), PATIENT(D)

INDEXED BY:
PRIMARY PROVIDER & DATE OF ENCOUNTER (AF), LAST EDITED BY & DATE OF ENCOUNTER (AG), STATUS & DATE OF ENCOUNTER (C)

409.48,.01 OUTPATIENT ENCOUNTER 0;1 POINTER TO OUTPATIENT ENCOUNTER FILE (#409.68) (Required)
INPUT TRANSFORM: S DINUM=X
LAST EDITED: MAR 05, 2007
DESCRIPTION: This is the Encounter Number from file #409.68 (Outpatient Encounter) which was determined needs to be reviewed.

TECHNICAL DESCR: A pointer to the OUTPATIENT ENCOUNTER File #409.68.

NOTES: XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

CROSS-REFERENCE: 409.48^B

1)= S ^SDSC(409.48,"B",$E(X,1,30),DA)="
2)= K ^SDSC(409.48,"B",$E(X,1,30),DA)

409.48,.02 DATE LAST EDITED 0;2 DATE

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

LAST EDITED: SEP 16, 2004

DESCRIPTION: This field contains the date that this encounter was last edited through the ASCD options.

NOTES: TRIGGERED by the DATE EDITED field of the TRACK EDITS sub-field of the SDSC SERVICE CONNECTED CHANGES File

CROSS-REFERENCE: 409.48^AC

1)= S ^SDSC(409.48,"AC",$E(X,1,30),DA)="
2)= K ^SDSC(409.48,"AC",$E(X,1,30),DA)

This cross reference is by DATE LAST EDITED and is used for several reports that track changes the user made to the encounter.

409.48,.03 LAST EDITED BY 0;3 POINTER TO NEW PERSON FILE (#200)

LAST EDITED: SEP 22, 2004

DESCRIPTION: This field contains the user who last edited this encounter through the ASCD options.

TECHNICAL DESCR: A pointer to the NEW PERSON File #200.

NOTES: TRIGGERED by the EDITED BY field of the TRACK EDITS sub-field of the SDSC SERVICE CONNECTED CHANGES File

RECORD INDEXES: AG (#700)

409.48,.04 DATE CREATED 0;4 DATE (Required)

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

LAST EDITED: SEP 23, 2004

DESCRIPTION: This field contains the date that this encounter was added to this file.

CROSS-REFERENCE: 409.48^AD

1)= S ^SDSC(409.48,"AD",$E(X,1,30),DA)="
This cross reference is by DATE CREATED and is used for several reports that track what happened when an encounter was added to this file.

409.48,.05  STATUS  0;5 SET (Required)

'N' FOR NEW;
'R' FOR REVIEW;
'C' FOR COMPLETED;

LAST EDITED: SEP 23, 2004

DESCRIPTION: This field contains the status of this encounter.

"NEW" - this encounter was recently added to this file.
"REVIEW" - this encounter was forwarded for clinical review.
"COMPLETED" - edits to this encounter are complete and only a supervisor may make further modifications.

NOTES: TRIGGERED by the SERV. CONNECT (OK BY USER?) field of the SDSC SERVICE CONNECTED CHANGES File
TRIGGERED by the REVIEW REQUIRED? field of the TRACK EDITS sub-field of the SDSC SERVICE CONNECTED CHANGES File

RECORD INDEXES: C (#701)

409.48,.06  SERV. CONNECT (OK BY USER?) 0;6 SET

'0' FOR NO;
'1' FOR YES;

LAST EDITED: SEP 22, 2004

DESCRIPTION: This field will contain 1 ('YES') or 0 ('NO') based on the user determination of the encounter's service connected value.

NOTES: TRIGGERED by the SERV. CONNECT (OK BY USER?) field of the TRACK EDITS sub-field of the SDSC SERVICE CONNECTED CHANGES File

CROSS-REFERENCE: ^^TRIGGER^409.48^.05

1)= K ^SDSC(409.48,"AD",$E(X,1,30),DA)

2)= K ^SDSC(409.48,"AD",$E(X,1,30),DA)

DELETE VALUE)= NO EFFECT
FIELD)= .05

409.48,.07 DATE OF ENCOUNTER  0;7 DATE
INPUT TRANSFORM: S %DT="ESTX" D ^%DT S X=Y K:Y<1 X
LAST EDITED: SEP 23, 2004
DESCRIPTION: This is the actual date of the encounter copied from the OUTPATIENT ENCOUNTER file #409.68 at the time of the compile.
CROSS-REFERENCE: 409.48^AE
  1)= S ^SDSC(409.48,"AE",SE(X,1,30),DA)=""
  2)= K ^SDSC(409.48,"AE",SE(X,1,30),DA)
This cross reference is by DATE OF ENCOUNTER and is used by several reports.
RECORD INDEXES:  AF (#699),  AG (#700),  C (#701)

409.48,.08 PRIMARY PROVIDER  0;8 POINTER TO NEW PERSON FILE (#200)
LAST EDITED: SEP 22, 2004
DESCRIPTION: This field contains the primary provider for the encounter determined at the time of the compile.
TECHNICAL DESCR: A pointer to the NEW PERSON FILE #200.
RECORD INDEXES: AF (#699)

409.48,.09 SERV. CONNECT (OK BY VBA/ICD?) 0;9 SET
  '0' FOR NO
  '1' FOR YES;
LAST EDITED: MAR 05, 2007
DESCRIPTION: This field will contain 1 ('YES') or 0 ('NO') depending on whether the automation or compile determined that the VBA/ICD codes found for this patient and encounter provided a match.

409.48,.1 CLAIMS TRACKING ENTRY 0;10 NUMBER
INPUT TRANSFORM: K:+X'=X!(X>99999999999)! (X<1)! (X?.E1".1N.N) X
LAST EDITED: MAR 05, 2007
HELP-PROMPT: Type a Number between 1 and 99999999999, 0 Decimal Digits
DESCRIPTION: This field will contain the Claims Tracking Entry for a record which may have been modified.
TECHNICAL DESCR: Contains the pointer value to the CLAIMS TRACKING file #356.
409.48,11 PATIENT 0;11 POINTER TO 2447 FILE (#2) (Required)

LAST EDITED: MAR 02, 2007
DESCRIPTION: This field contains the patient's DFN for the encounter.
TECHNICAL DESCR: A pointer to the PATIENT file #2.
CROSS-REFERENCE: 409.48^D
1) = S ^SDSC(409.48,"D",$E(X,1,30),DA)="
2) = K ^SDSC(409.48,"D",$E(X,1,30),DA)
Patient IEN cross-reference

409.48,12 DIVISION 0;12 POINTER TO MEDICAL CENTER DIVISION FILE (#40.8)
LAST EDITED: AUG 11, 2005
DESCRIPTION: This field is the medical center division assigned to the encounter.
TECHNICAL DESCR: A pointer to the MEDICAL CENTER DIVISION File #40.8.

409.48,13 SERV. CONNECT (ORIGINAL VALUE) 0;13 SET
'0' FOR NO;
'1' FOR YES;
LAST EDITED: MAR 08, 2007
DESCRIPTION: This field will contain 1 ('YES') or 0 ('NO') based on the original
encounter's service connected value.

409.48,1 TRACK EDITS 1;0 Multiple #409.481
(Add New Entry without Asking)
DESCRIPTION: This multiple field tracks each edit made to this encounter through the
ASCD options.

409.481,01 EDIT NUMBER 0;1 NUMBER
INPUT TRANSFORM: K:+X'=X!(X>99)!(X<1)!(X?.E1".1N.N) X
LAST EDITED: NOV 07, 2006
HELP-PROMPT: Type a Number between 1 and 99, 0 Decimal Digits
DESCRIPTION: This field contains a unique entry for each edit. The edits are stored in
order beginning at 1. Under ordinary circumstances there will usually
only be between 1 and 3 edits for any record although there is no specific
maximum.
CROSS-REFERENCE: 409.481^B

1)= S ^SDSC(409.48,DA(1),1,"B",SE(X,1,30),DA)="

2)= K ^SDSC(409.48,DA(1),1,"B",SE(X,1,30),DA)

409.481,.02 DATE EDITED 0;2 DATE
INPUT TRANSFORM: S %DT="EX" D ^=%DT S X=Y K Y<1 X
LAST EDITED: NOV 07, 2006
DESCRIPTION: This is the date that the user edited this encounter. A trigger on this field will also update the DATE LAST EDITED field in the main file.
CROSS-REFERENCE: ^^TRIGGER^409.48^.02

1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=S($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(Y(1),U,2),X=X S DIU=X K Y S X=DIV S X=X S DIH=$G(^SDSC(409.48,DIV(0),0)),DIV=X S $P(^(0),U,2)=DIV,DIH=409.48,DIG=.02 D ^DICR

2)= Q
CREATE VALUE)= S X=X
DELETE VALUE)= NO EFFECT
FIELD)= #.02

409.481,.03 EDITED BY 0;3 POINTER TO NEW PERSON FILE (#200)
LAST EDITED: NOV 07, 2006
DESCRIPTION: This is the user who edited this encounter. A trigger on this field will also update the LAST EDITED BY field in the main file.
TECHNICAL DESCR: A pointer to the NEW PERSON file #200.
CROSS-REFERENCE: ^^TRIGGER^409.48^.03

1)= K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=S($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(Y(1),U,3),X=X S DIU=X K Y S X=DIV S X=X S DIH=$G(^SDSC(409.48,DIV(0),0)),DIV=X S $P(^(0),U,3)=DIV,DIH=409.48,DIG=.03 D ^DICR

2)= Q
CREATE VALUE)= S X=X
DELETE VALUE)= NO EFFECT

409.481,.04 TYPE OF ENTRY 0;4 SET
'U' FOR USER;
'C' FOR CLINICAL;
'S' FOR SUPERVISOR;

**DESCRIPTION:**
This is the type of user who edited this encounter.

"USER" any standard user of this package.

"CLINICAL" a clinical reviewer with the appropriate security key.

"SUPERVISOR" a supervisor with the appropriate security key.

---

409.481,.05

*SERV. CONNECT (OK BY USER?) 0;5 SET*

'0' FOR NO;

'1' FOR YES;

**LAST EDITED:** Dec 08, 2006

**DESCRIPTION:**
This field will contain 1 ('YES') or 0 ('NO') based on the user determination of the encounter's service connected value. A trigger on this field will also update the SERV. CONNECT (OK BY USER?) field in the main file.

**CROSS-REFERENCE:** ^^TRIGGER^409.48^.06

1) = K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=$S($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(Y(1),U,6),X=X S DIU=X K Y S X=DIV S X=X S DIH=$ G(^SDSC(409.48,DIV(0),0)),DIV=X S $P(^0,U,6)=DIV,DIH=409.48,DIG=.06 D ^DICR

2) = Q

CREATE VALUE)= S X=X

DELETE VALUE)= NO EFFECT

FIELD)= #.06

---

409.481,.06

*REVIEW REQUIRED? 0;6 SET*

'0' FOR NO;

'1' FOR YES;

**LAST EDITED:** Dec 08, 2006

**DESCRIPTION:**
This field will be set to 1 ('YES') if a regular user determines that this record requires further review by a clinical reviewer. A trigger will also set the STATUS field in the main file to 'REVIEW'.

**CROSS-REFERENCE:** ^^TRIGGER^409.48^.05

1) = K DIV S DIV=X,D0=DA(1),DIV(0)=D0,D1=DA S Y(1)=$S($D(^SDSC(409.48,D0,0)):^(0),1:"") S X=$P(
CREATE VALUE) = "R"
DELETE VALUE) = NO EFFECT
FIELD) = .05

FILES POINTED TO
2447 (#2)
MEDICAL CENTER DIVISION (#40.8)
NEW PERSON (#200)
OUTPATIENT ENCOUNTER (#409.68)
SDSC SERVICE CONNECTED CHANGES (#409.48)

FIELDS
PATIENT (#.11)
DIVISION (#.12)
LAST EDITED BY (#.03)
PRIMARY PROVIDER (#.08)
TRACK EDITS:EDITED BY (#.03)
OUTPATIENT ENCOUNTER (#.01)

INDEX AND CROSS-REFERENCE LIST -- FILE #409.48
File #409.48
Record Indexes:
AF (#699) RECORD REGULAR IR SORTING ONLY
Short Descr: Cross reference by PROVIDER and DATE OF ENCOUNTER
Description: This cross reference (by PROVIDER and DATE OF ENCOUNTER) is used by a report of the providers who have had encounters reviewed through the ASCD options.
Set Logic: S ^SDSC(409.48,"AF",X(1),X(2),DA)="
Kill Logic: K ^SDSC(409.48,"AF",X(1),X(2),DA)
Whole Kill: K ^SDSC(409.48,"AF")
X(1): PRIMARY PROVIDER (409.48,.08) (Subscr 1) (forwards)
X(2): DATE OF ENCOUNTER (409.48,.07) (Subscr 2) (forwards)

AG (#700) RECORD REGULAR IR SORTING ONLY
Short Descr: Cross reference by LAST EDITED BY and DATE OF ENCOUNTER

Description: This cross reference (by LAST EDITED BY and DATE OF ENCOUNTER) is used by a report of the users who reviewed encounters and what they did to each through the ASCD options.

Set Logic: S ^SDSC(409.48,"AG",X(1),X(2),DA)="

Kill Logic: K ^SDSC(409.48,"AG",X(1),X(2),DA)

Whole Kill: K ^SDSC(409.48,"AG")

X(1): LAST EDITED BY (409.48,.03) (Subscr 1) (forwards)

X(2): DATE OF ENCOUNTER (409.48,.07) (Subscr 2) (forwards)

C (#701) RECORD REGULAR IR LOOKUP & SORTING

Short Descr: Cross Reference by STATUS and DATE OF ENCOUNTER

Description: This cross reference (by STATUS and DATE OF ENCOUNTER) is used by a summary report of the status of encounters found on a particular day and also by a loop that runs through the NEW or REVIEW statuses for a date range.

Set Logic: S ^SDSC(409.48,"C",X(1),X(2),DA)="

Kill Logic: K ^SDSC(409.48,"C",X(1),X(2),DA)

Whole Kill: K ^SDSC(409.48,"C")

X(1): STATUS (409.48,.05) (Subscr 1) (forwards)

X(2): DATE OF ENCOUNTER (409.48,.07) (Subscr 2) (forwards)
B. Appendix B – Data Dictionary List of file #31

STANDARD DATA DICTIONARY #31 -- DISABILITY CONDITION FILE  
OCT 9,2007@12:14:01 PAGE 1
STORED IN ^DIC(31, (1037 ENTRIES) SITE: Albany IRM Field Office  UCI: DEVVJJ,DEVVJJ (VERSION 4.0)

<table>
<thead>
<tr>
<th>DATA ELEMENT</th>
<th>NAME</th>
<th>GLOBAL DATA</th>
<th>LOCATION</th>
<th>TYPE</th>
</tr>
</thead>
</table>

This file contains the VA recognized Disability conditions as used when rating for compensation/pension.

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

IDENTIFIED BY: DX CODE (#2)

POINTED TO BY: RATED DISABILITIES (VA) field (#.01) of the RATED DISABILITIES (VA) sub-field (#2.04) of the 2447 File (#2)
*RELATED DISABILITIES field (#.01) of the *RELATED DISABILITIES sub-field (#396.61) of the AMIE EXAM File (#396.6)
*RELATED DISABILITIES field (#.01) of the *RELATED DISABILITIES sub-field (#396.701) of the 2507 BODY SYSTEM File (#396.7)
CORRESPONDING MAS DISABILITY field (#.01) of the CORRESPONDING MAS DISABILITY sub-field (#662.06) of the PROS DISABILITY CODE File (#662)
ENTRY field (#.02) of the LOCAL KEYWORD File (#8984.1)
ENTRY field (#.02) of the LOCAL SHORTCUT File (#8984.2)

CROSS REFERENCED BY: LONG DESCRIPTION(AC), LONG DESCRIPTION(ADVB), NAME(B), DX CODE(C)

31,.001 NUMBER NUMBER

INPUT TRANSFORM: K:+X'=X!(X>9999)!((X<0)!((X?."1N.N") X
LAST EDITED: MAR 20, 1986
HELP-PROMPT: TYPE A WHOLE NUMBER BETWEEN 0 AND 9999
DESCRIPTION: This field contains the internal entry number for this disability condition. This number may be used by various software packages. This must not be edited and entries must not be added or deleted unless done through a software upgrade of the MAS package.
31.01  NAME  0;1 FREE TEXT (Required)

INPUT TRANSFORM:  K:X""""!(SA(X)=45) X I SD(X) K:SL(X)>45!(SL(X)<4)!(X'?1.P.E) X
LAST EDITED:  OCT 31, 2006
HELP-PROMPT:  ANSWER MUST BE 4-45 CHARACTERS IN LENGTH
DESCRIPTION:  VBA DISABILITY CODES MP-6, PART IV Supp 4.1  401.02f
NOTES:  XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER
CROSS-REFERENCE:  31^B
1)= S ^DIC(31,"B",SE(X,1,30),DA)=""
2)= K ^DIC(31,"B",SE(X,1,30),DA)

31,1  ABBREVIATION  0;2 FREE TEXT

INPUT TRANSFORM:  K:SL(X)>30!(SL(X)<4) X
HELP-PROMPT:  ANSWER MUST BE 4-30 CHARACTERS IN LENGTH
DESCRIPTION:  Enter an abbreviation, 4-30 characters.

31,2  DX CODE  0;3 NUMBER

INPUT TRANSFORM:  K:+X'=X!(X>9999)!(X<0)!(X?.E1".1N.N) X
LAST EDITED:  OCT 29, 2004
HELP-PROMPT:  TYPE A WHOLE NUMBER BETWEEN 0 AND 9999
DESCRIPTION:  This field contains a numeric 0-9999. It is the diagnosis code number.
CROSS-REFERENCE:  31^C
1)= S ^DIC(31,"C",X,DA)=""
2)= K ^DIC(31,"C",X,DA)

31,3  SENSITIVE CONDITION PRINT NAME  0;4 FREE TEXT

INPUT TRANSFORM:  K:SL(X)>32!(SL(X)<4)!(X'?1.P.E) X
LAST EDITED:  JUL 03, 1991
HELP-PROMPT:  Answer must be 4-32 characters in length.
DESCRIPTION:  In order to maintain sensitivity for certain diagnosis this field has been added. If it is filled in, the .01 field for the diagnosis is not printed, but the SENSITIVE CONDITION PRINT NAME is, instead.

31,10  LONG DESCRIPTION  1;1 FREE TEXT

INPUT TRANSFORM:  K:X""""!(SA(X)=45) X I SD(X) K:SL(X)>200!(SL(X)<1) X
LAST EDITED:  MAR 07, 1994
HELP-PROMPT: Answer must be 1-200 characters in length.
DESCRIPTION: This is the long description per the VBA Rating Schedule.

CROSS-REFERENCE: 31^ADVB^MUMPS
1)= S %="^DIC(31,""ADVB"",I,DA)" D S^XTLKWIC
2)= S %="^DIC(31,""ADVB"",I,DA)" D K^XTLKWIC
This is the MTLU cross reference lookup for the AMIE application.

CROSS-REFERENCE: 31^AC^MUMPS
1)= S ^DIC(31,"AC","E(X,1,80),DA)=""
2)= K ^DIC(31,"AC","E(X,1,80),DA)
This cross reference was created so that a lookup could be performed on it using IX or MIX. It was created so that interactive FM could not use it. As a result users will not get confused at a selection prompt.

31,20 RELATED ICD9 CODES ICD;0 POINTER Multiple #31.01
(Add New Entry without Asking)

DESCRIPTION: The Veterans Health Administration (VHA) has mapped the Veteran Benefits Administration (VBA) 4 digit RATED DISABILITIES (VA) code terminology to the ICD-9-CM codes used for billing and reporting purposes within VistA. This mapping will help automate the Service Connected (SC) decision for outpatient encounters.

31.01,.01 RELATED ICD9 CODES 0;1 POINTER TO ICD DIAGNOSIS FILE (#80)

LAST EDITED: JAN 18, 2007
DESCRIPTION: ICD9 code associated with the VBA code.
TECHNICAL DESCR: A pointer to the ICD DIAGNOSIS file #80. UNEDITABLE
CROSS-REFERENCE: 31.01^B
1)= S ^DIC(31,DA(1),"ICD","B","E(X,1,30),DA)=""
2)= K ^DIC(31,DA(1),"ICD","B","E(X,1,30),DA)

31.01,.02 ICD9 MATCH 0;2 SET

'0' FOR PARTIAL MATCH;
'1' FOR MATCH;
LAST EDITED: JAN 18, 2007
HELP-PROMPT: Enter 1 for a match or 0 for a partial match.
DESCRIPTION: If this ICD9 code is a true match for the VBA
code then the value will be a 1. Otherwise it is a 0 indicating a partial match.

FILES POINTED TO

ICD DIAGNOSIS (#80) RELATED ICD9 CODES:RELATED ICD9 CODES (#.01)

INPUT TEMPLATE(S):
PRINT TEMPLATE(S):
SORT TEMPLATE(S):

FORM(S)/BLOCK(S):