Department of Veterans Affairs

Decision Support System

Technical Manual

Software Version 3.0

Patch DSS*3*144

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Product Development

Revision History

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1 Introduction

1.1 Overview

The Decision Support System (DSS) Extracts Version 3.0 software provides a means of exporting data from selected Veterans Health Information Systems and Technology Architecture (VistA) software modules and transmitting it to a DSS database residing at the Austin Information Technology Center (AITC).

This transfer is accomplished through a set of extract routines, intermediate files, and transmission routines. Data from VistA packages is stored by the extract routines in the intermediate files, where it is temporarily available for local use and auditing. The data is then transmitted to the AITC, where it is formatted and uploaded into commercial software. After the data has been successfully uploaded into the commercial software, the extracts can be deleted.

1.2 Functions of the Software

The DSS Extracts software provides the following functionalities:

- Implements Extracts Processes
- Schedules Extracts
- Verifies Extracts against other VistA Reports Transmits Extracts to Commercial Software
- Verifies Transmission
- Allows Deleting of Extracts
- Allows Purging of Holding Files for IVP and UDP

1.3 Related Manuals

Listed below are the following DSS Extract manuals that are available to view on the following website: http://www.va.gov/vdl/application.asp?appid=35

File Name	Manual Name	Description
DSS_3_FY2014_DD	DSS Extracts V3.0 Data Definitions Guide	Provides detailed information that defines the data terminology
DSS_3_FY2014_UM	DSS Extracts V3.0 Extracts User Manual	Provides an overview of the functionality and enhancements
DSS_3_FY2014_RN	DSS Extracts V3.0 Extracts Release Notes	Provides an overview of the new functionality and enhancements

2 Orientation

This manual is recommended for use as a reference document for technical users (e.g. Automated Data Processing Application Coordinators (ADPACs) or Information Resource Management (IRM)) of the software. You can find information concerning package security in the Security Section of this manual.

2.1 User Responses

User responses in the examples presented in this manual are shown in bold type.

3 General Information

3.1 Namespace Information

The namespace assigned to the DSS Extracts software is ECX.

3.2 Background Job Options

There are no routine background jobs that must be run to maintain normal package operation for DSS Extracts.

However, if you choose to perform a DSS data extract, it must be queued as a background task (through TaskManager). You can stop the extract background task while it is running by using the *TaskMan User* [XUTM USER] option. Data in this incomplete extract should then be deleted using the *Delete Extract Files* [ECXDELEF] option. Data in the holding files for the IVP, UDP, and VBECS files can be purged using the *Purge Extract Holding Files* [ECXPURG] option.

Both SAS and Extract Audit reports can be printed to the screen, printed directly to a print device, or queued to a print device. If queued as a background task, you can stop the background task while it is running by using the *TaskMan User* [XUTM USER] option. All other reports can only be printed as queued background jobs and cannot be stopped through the *TaskMan User* [XUTM USER] option.

The following functions must be queued as background tasks.

Function	Menu Option
Transmission of extract data	Transmit Data from Extract Files [ECXTRANS]. (Can be stopped through the TaskMan User [XUTM USER] option)
Deleting of extract data	Delete Extract Files [ECXDELEF]
Purging of extract holding files	Purge Extract Holding Files [ECXPURG]

3.3   Resource Requirements

Listed below is a table that provides information on extract files. The bytes per record estimates seen in this table below include the file cross-reference.

Extract Name	Bytes per Record (Estimated Mean Size)
ADM Admissions Extract	350
BCM BCMA Extract	450
CLI Clinic Extract	485
ECQ QUASAR Extract	450
ECS Event Capture Extract	450
IVP IV Pharmacy Extract	500
LAB Laboratory Extract	250
LAR Lab Results Extract	200
LBB Blood Bank Extract	200
MOV Transfer and Discharge Extract	225
NUT Nutrition Extract	200
PRE Prescription Extract	425
PRO Prosthetics Extract	400
RAD Radiology Extract	300
SUR Surgery Extract	425
TRT Treating Specialty Change Extract	275
UDP Unit Dose Extract	375

3.3.1 Special Note on Files (#728.113) & (#728.904) – IVP, UDP Extracts

Once the software is installed, IV orders will accumulate in the IV EXTRACT DATA file (#728.113) and Unit Dose orders will begin to accumulate in the UNIT DOSE EXTRACT DATA file (#728.904). These files are loaded dynamically as Pharmacy orders for intravenous and unit dose medicines are processed. Each entry in these files uses approximately 100 bytes.

Extreme caution must be used in maintenance of IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904). If data in either file is purged, the IVP or UDP monthly extract may be incomplete. It is strongly recommended that, at a minimum, sites maintain all data from the *current fiscal year*.

The holding files for IVP and UDP can be purged. Two functions were created to regenerate IVP and UDP holding file data that has been purged. These functions are located at:
1. Extract Manager's Options
2. Transmission Management menu
3. Recreate Extract Holding Files

Note: Holding files can become quite large if appropriate purging is not performed. The option *Purge Extract Holding Files* [ECXPURG] will purge holding files from IVP and UDP by date range.

3.3.2 Special Note on Files (#727.81), (#727.809), (# 727.819) – Pharmacy Extracts

The Pharmacy DSS Extract files (#727.81, #727.809, and #727.819) are now being audited when entries are edited with the following menu option Pharmacy Volume Edit [ECX PHA VOL EDIT]. Entries are stored in the AUDIT file (#1.1).

The QUANTITY field will be audited in the PRE, IVP, and UDP extracts. Additionally, the UNIT OF ISSUE field will be audited for the PRE Extract.

3.3.3 Time Estimates for Extracts

Extracts generally require approximately two to four minutes per 1000 records extracted on an Alpha/AXP system, and should be queued to run during a non-peak system usage period.

The following table contains examples of approximate run times for extracts.

Extract Name	Approximate Length of Time
Admission (ADM) Treating Specialty Change (TRT) Physical Movement (MOV)	Less than ten minutes
Clinic (CLI)	5 hours for 48,000 records
Laboratory (LAB)	6 hours for 100,000 records
Prescription (PRE)	3.5 hours for 49,000 records

3.4 Data Transmission

Data is sent to the AITC in VA MailMan mail messages. The first line of each message is a header that identifies the following entities: Site, Extract, Year Month, and SAS version identifier in the following format:

521RAD199710007

Site	Extract	Year and Month	Version ID
521	RAD	199710	007

As a message is sent, its Internal Entry Number (IEN) is entered in the MESSAGE NUMBER field (#301) of the DSS EXTRACT LOG file (#727). There are options that allow the Extract Manager or designee to monitor this file. As confirmation messages are received from AITC, entries in the MESSAGE NUMBER field (#301) multiple are deleted.

4 Implementation and Maintenance

The Maintenance Menu provides a variety of menu options that allow the Extract Manager or designee to:

- Define DSS clinic information
- Define DSS Lab Results Extract information
- Define DSS Inpatient Medications Pharmacy information
- Print a list of feeder keys sorted by feeder system
- Print a list of feeder locations sorted by feeder system
- Define and create DSS Inpatient Census information
- Access DSS Department Management Menu
- Print Lab Results Extract Untranslatable Results Report
- Modify Lab Results Translation Table
- Make CPT Inquiry
- Print SUR Volume Report
- Print LBB Pre-Extract Report
- Enter/Edit Nutrition Division Worksheet
- Enter/Edit Nutrition Product Worksheet
- Edit Pharmacy and Pharmacy Log
- Print UDP/IVP Source Audit Report
- Regenerate UDP/IVP Extract Data
- Export Clinic Review Report for All, Active, Inactive or Unreviewed Clinics
- Export DSS Identifier Non-Conforming Report
- Export Prosthetics Extract Unusual Cost Report
- Export DSS Clinics and Stop Codes Validity Report
- Export DSS LOINC Code Report
- Export Event Capture Extract Audit
- Export Prosthetics Extract Audit
- Export Prosthetics YTD PSAS HCPCS Report
- Export Prosthetics YTD Laboratory Report
- Export Pharmacy Extracts Incomplete Feeder Key Report
- Export Pharmacy Extracts Unusual Reports
- Export PSAS HCPCS Report

Please refer to the DSS Extracts Installation Guide for more information about installing and implementing the software.

5 Routines

5.1 Routine List

Take the following steps to obtain routines contained in the DSS package:
1. Programmer Options menu
2. Routine Tools menu
3. First Line Routine Print option
4. Routine Selector: ECX*

5.2 Callable Routines/Entry Points/Application Programmer Interfaces

The DSS Extracts software has no callable Application Programmer Interfaces (APIs).

5.3 Routines to Map

There are no routines in DSS Extracts that are recommended for mapping.

5.4 External Interfaces

There are no external interfaces used by DSS Extracts.

6 Files

6.1 Global Placement

DSS Extracts uses one global for data storage: **^ECX**. If you are installing DSS Extracts for the first time, global protection and placement should be made as appropriate.

6.2 File List

The DSS Extracts software with all patches installed exports the following files. VHA Directive 10-93-142 prohibits local modification of these files. Use the *List File Attributes* option in VA FileMan to print the DDs.

The file descriptions are noted and listed below.

File Number		File Name
727		DSS EXTRACT LOG
727.1		EXTRACT DEFINITIONS
727.29		DSS LOINC CODES
727.3		DSS DIVISION IDENTIFIER
727.4		DSS WARD
727.5		DSS MH TESTS
727.7		LAB RESULTS TRANSLATION
727.802	ADM	ADMISSION EXTRACT
727.804		CLINIC NOSHOW EXTRACT
727.805		NURSING EXTRACT
727.806		DENTAL EXTRACT
727.808	MOV	TRANSFER AND DISCHARGE EXTRACT
727.809	UDP	UNIT DOSE LOCAL EXTRACT
727.81	PRE	PRESCRIPTION EXTRACT
727.811	SUR	SURGERY EXTRACT
727.813	LAB	LABORATORY EXTRACT
727.814	RAD	RADIOLOGY EXTRACT
727.815	ECS	EVENT CAPTURE LOCAL EXTRACT
727.816		CLINIC EXTRACT
727.817	TRT	TREATING SPECIALTY CHANGE EXTRACT

File Number		File Name
727.818		CLINIC EXTRACT II
727.819	IVP	IV DETAIL EXTRACT
727.82		ADMISSION SETUP EXTRACT
727.821		PHYSICAL MOVEMENT SETUP EXTRACT
727.822		TREATING SPECIALTY CHANGE SETUP EXTRACT
727.823		PAI EXTRACT
727.824	LAR	LAB RESULTS EXTRACT
727.825	ECQ	QUASAR EXTRACT
727.826	PRO	PROSTHETICS EXTRACT
727.827	CLI	CLINIC EXTRACT
727.829	LBB	BLOOD BANK EXTRACT
727.831		DSS TREATING SPECIALTY TRANSLATION
727.832	NUT	NUTRITION EXTRACT
727.833	BCM	BCMA EXTRACT
728		DSS EXTRACTS
728.113		IV EXTRACT DATA
728.44		CLINICS AND STOP CODES
728.441		NATIONAL CLINIC
728.45		DSS NUTRITION PRODUCT WORKSHEET
728.46		DSS NUTRITION DIVISION WORKSHEET
728.506		DSS DRUG PRODUCT CODE
728.904		UNIT DOSE EXTRACT DATA
729		DSS PRODUCTION UNIT

6.3 Field List

The DSS FY2014 Extract enhancements associated with the release of Patch ECX*3*144 includes an array of field additions and modifications.

The field descriptions are noted and listed below.

Field Name	Number	File Name	Number
RACE 1	(#65)	ADMISSIONS EXTRACT	(#727.802)
CAMP LEJEUNE STATUS	(#94)	ADMISSIONS EXTRACT	(#727.802)
ENCOUNTER CAMP LEJEUNE	(#95)	ADMISSIONS EXTRACT	(#727.802)
ENCOUNTER SC	(#96)	ADMISSIONS EXTRACT	(#727.802)
COMPONENT DOSE ORDERED	(#30)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
COMPONENT DOSE GIVEN	(#31)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
DEA SPECIAL HDLG	(#44)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
ENCOUNTER NUMBER	(#49)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
RACE 1	(#58)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
ENCOUNTER SC	(#81)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
IV ADDITIVE COST	(#82)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
IV SOLUTION COST	(#83)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
DRUG COST	(#84)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
CAMP LEJEUNE STATUS	(#85)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
ENCOUNTER CAMP LEJEUNE	(#86)	BAR CODE MEDICATION ADMINISTRATION EXTRACT	(#727.833)
ENCOUNTER SC	(#31)	BLOOD BANK EXTRACT	(#727.829)
RACE 1	(#74)	CLINIC EXTRACT	(#727.827)
ENCOUNTER SC	(#117)	CLINIC EXTRACT	(#727.827)
VIETNAM	(#118)	CLINIC EXTRACT	(#727.827)

Field Name	Number	File Name	Number
SECONDARY PROVIDER #6	(#119)	CLINIC EXTRACT	(#727.827)
SECONDARY PROVIDER #6 PC	(#120)	CLINIC EXTRACT	(#727.827)
SECONDARY PROVIDER #6 NPI	(#121)	CLINIC EXTRACT	(#727.827)
SECONDARY PROVIDER #7	(#122)	CLINIC EXTRACT	(#727.827)
SECONDARY PROVIDER #7 PC	(#123)	CLINIC EXTRACT	(#727.827)
SECONDARY PROVIDER #7 NPI	(#124)	CLINIC EXTRACT	(#727.827)
CAMP LEJEUNE STATUS	(#125)	CLINIC EXTRACT	(#727.827)
ENCOUNTER CAMP LEJEUNE	(#126)	CLINIC EXTRACT	(#727.827)
RACE 1	(#73)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
ENCOUNTER SC	(#111)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
VIETNAM	(#112)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
PROVIDER #6	(#113)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
PROVIDER #6 PERSON CLASS	(#114)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
PROVIDER #6 NPI	(#115)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
PROVIDER #7	(#116)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
PROVIDER #7 PERSON CLASS	(#117)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
PROVIDER #7 NPI	(#118)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
4CHAR	(#119)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
CLINIC IEN	(#120)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
CAMP LEJEUNE STATUS	(#121)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)

Field Name	Number	File Name	Number
ENCOUNTER CAMP LEJEUNE	(#122)	EVENT CAPTURE LOCAL EXTRACT	(#727.815)
ENCOUNTER SC	(#48)	LABORATORY EXTRACT	(#727.813)
CAMP LEJEUNE STATUS	(#49)	LABORATORY EXTRACT	(#727.813)
ENCOUNTER SC	(#33)	LAB RESULTS EXTRACT	(#727.824)
CAMP LEJEUNE STATUS	(#34)	LAB RESULTS EXTRACT	(#727.824)
ENCOUNTER CAMP LEJEUNE	(#35)	LAB RESULTS EXTRACT	(#727.824)
RACE 1	(#19)	NUTRITION EXTRACT	(#727.832)
RACE 1	(#66)	IV DETAIL EXTRACT	(#727.819)
PLACEHOLDER	(#67)	IV DETAIL EXTRACT	(#727.819)
PLACEHOLDER	(#68)	IV DETAIL EXTRACT	(#727.819)
PLACEHOLDER	(#69)	IV DETAIL EXTRACT	(#727.819)
PLACEHOLDER	(#70)	IV DETAIL EXTRACT	(#727.819)
ENCOUNTER SC	(#89)	IV DETAIL EXTRACT	(#727.819)
CAMP LEJEUNE STATUS	(#90)	IV DETAIL EXTRACT	(#727.819)
ENCOUNTER CAMP LEJEUNE	(#91)	IV DETAIL EXTRACT	(#727.819)
RACE 1	(#72)	PRESCRIPTION EXTRACT	(#727.81)
ENCOUNTER SC	(#99)	PRESCRIPTION EXTRACT	(#727.81)
VIETNAM	(#100)	PRESCRIPTION EXTRACT	(#727.81)
CAMP LEJEUNE STATUS	(#101)	PRESCRIPTION EXTRACT	(#727.81)
ENCOUNTER CAMP LEJEUNE	(#102)	PRESCRIPTION EXTRACT	(#727.81)
RACE 1	(#66)	PROSTHETICS EXTRACT	(#727.826)
ENCOUNTER SC	(#97)	PROSTHETICS EXTRACT	(#727.826)
VIETNAM	(#98)	PROSTHETICS EXTRACT	(#727.826)
CAMP LEJEUNE STATUS	(#99)	PROSTHETICS EXTRACT	(#727.826)
ENCOUNTER CAMP LEJEUNE	(#100)	PROSTHETICS EXTRACT	(#727.826)
RACE 1	(#73)	QUASAR EXTRACT	(#727.825)
ENCOUNTER SC	(#111)	QUASAR EXTRACT	(#727.825)
VIETNAM	(#112)	QUASAR EXTRACT	(#727.825)
PROVIDER #6	(#113)	QUASAR EXTRACT	(#727.825)

Field Name	Number	File Name	Number
PROVIDER #6 PERSON CLASS	(#114)	QUASAR EXTRACT	(#727.825)
PROVIDER #6 NPI	(#115)	QUASAR EXTRACT	(#727.825)
PROVIDER #7	(#116)	QUASAR EXTRACT	(#727.825)
PROVIDER #7 PERSON CLASS	(#117)	QUASAR EXTRACT	(#727.825)
PROVIDER #7 NPI	(#118)	QUASAR EXTRACT	(#727.825)
4CHAR	(#119)	QUASAR EXTRACT	(#727.825)
CLINIC IEN	(#120)	QUASAR EXTRACT	(#727.825)
CAMP LEJEUNE STATUS	(#121)	QUASAR EXTRACT	(#727.825)
ENCOUNTER CAMP LEJEUNE	(#122)	QUASAR EXTRACT	(#727.825)
ENCOUNTER SC	(#50)	RADIOLOGY EXTRACT	(#727.814)
CAMP LEJEUNE STATUS	(#51)	RADIOLOGY EXTRACT	(#727.814)
ENCOUNTER CAMP LEJEUNE	(#52)	RADIOLOGY EXTRACT	(#727.814)
RACE 1	(#60)	SURGERY EXTRACT	(#727.811)
ENCOUNTER SC	(#100)	SURGERY EXTRACT	(#727.811)
DATE OF BIRTH	(#121)	SURGERY EXTRACT	(#727.811)
VIETNAM	(#122)	SURGERY EXTRACT	(#727.811)
CAMP LEJEUNE STATUS	(#123)	SURGERY EXTRACT	(#727.811)
ENCOUNTER CAMP LEJEUNE	(#124)	SURGERY EXTRACT	(#727.811)
CONCURRENT CASE	(#125)	SURGERY EXTRACT	(#727.811)
PRINCIPLE POSTOP ICD-10 CODE	(#126)	SURGERY EXTRACT	(#727.811)
OTHER POSTOP ICD-10 CODE #1	(#127)	SURGERY EXTRACT	(#727.811)
OTHER POSTOP ICD-10 CODE #2	(#128)	SURGERY EXTRACT	(#727.811)
OTHER POSTOP ICD-10 CODE #3	(#129)	SURGERY EXTRACT	(#727.811)
OTHER POSTOP ICD-10 CODE #4	(#130)	SURGERY EXTRACT	(#727.811)
OTHER POSTOP ICD-10 CODE #5	(#131)	SURGERY EXTRACT	(#727.811)

Field Name	Number	File Name	Number
DEA SPECIAL HDLG	(#18)	UNIT DOSE LOCAL EXTRACT	(#727.809)
RACE 1	(#61)	UNIT DOSE LOCAL EXTRACT	(#727.809)
PLACEHOLDER	(#62)	UNIT DOSE LOCAL EXTRACT	(#727.809)
PLACEHOLDER	(#63)	UNIT DOSE LOCAL EXTRACT	(#727.809)
PLACEHOLDER	(#64)	UNIT DOSE LOCAL EXTRACT	(#727.809)
PLACEHOLDER	(#65)	UNIT DOSE LOCAL EXTRACT	(#727.809)
ENCOUNTER SC	(#84)	UNIT DOSE LOCAL EXTRACT	(#727.809)
CAMP LEJEUNE STATUS	(#85)	UNIT DOSE LOCAL EXTRACT	(#727.809)
ENCOUNTER CAMP LEJEUNE	(#86)	UNIT DOSE LOCAL EXTRACT	(#727.809)
NATIONAL CODE	(#7)	CLINICS AND STOP CODES	(#728.44)
RECORD LAST SYNCHED	(#12)	CLINICS AND STOP CODES	(#728.44)
LONG DESCRIPTION	(#2)	NATIONAL CLINIC	(#728.441)
INACTIVATION DATE	(#3)	NATIONAL CLINIC	(#728.441)

6.3.1 Templates and File Flow

Take the following steps to obtain information about the templates and map the file flow relationships for DSS Extracts with all patches installed.

Templates	File Flow (Relationships Between Files)

1. VA FileMan Menu
2. Print File Entries option
3. Output from what File:
   Print Template
   Sort Template
4. Sort by: **Name**
5. Start with name: ECX
6. Go to name: ECXZ
7. Within name, sort by: **<RET>**
8. First print field: **Name**
	1. VA FileMan Menu
	2. Data Dictionary Utilities menu
	3. Map Pointer Relations
	4. Select PACKAGE NAME: **DSS**
	5. Remove FILE: **<RET>**
	6. Add FILE: (Enter name or number for files you want to include in the output. This prompt will repeat.)
	7. Enter name of file group for optional graph header: DSS EXTRACTS//**<RET>**

7 Exported Options

7.1 Menu Outline

The DSS Extracts software contains one primary menu option, *Extract Manager's Options* [ECXMGR], which contains the following five submenus. They are fixed, and are not subject to modification, except by the software developers.

    M   Maintenance

    P   Package Extracts

    S   SAS Extract Audit Reports

    E   Extract Source Audit Menu

    T   Transmission Management

7.2 Menu Diagrams

Take the following steps to obtain information concerning the menus exported with the DSS Extracts software:

1. Programmers Options
2. Menu Management menu
3. Display Menus and Options menu
4. Diagram Menus
5. Select User or Option Name: **ECXMGR**

7.3 Standalone Options

All of the DSS Extracts options are designed to stand-alone.

7.4 VA FileMan Access Codes

The following table lists the recommended VA FileMan access codes files for the DSS Extract Software.

File Name	File Number	DD Access	RD Access	WR Access	DEL Access	LAYGO Access
DSS EXTRACT LOG	727	@		@	@	@
EXTRACT DEFINITIONS	727.1	^		^	^	^
DSS LOINC CODES	727.29	^		^	^	^
DSS DIVISION IDENTIFIER	727.3	^		^	^	^

File Name	File Number	DD Access	RD Access	WR Access	DEL Access	LAYGO Access
DSS WARD	727.4	^		^	^	^
DSS MH TESTS	727.5	^		^	^	^
LAB RESULTS TRANSLATION	727.7	@				
ADMISSION EXTRACT	727.802	@	@	@	@	@
CLINIC NOSHOW EXTRACT	727.804					
NURSING EXTRACT	727.805					
DENTAL EXTRACT	727.806					
PHYSICAL MOVEMENT EXTRACT	727.808	@	@	@	@	@
UNIT DOSE LOCAL EXTRACT	727.809	@	@	@	@	@
PRESCRIPTION EXTRACT	727.81	@	@	@	@	@
SURGERY EXTRACT	727.811	@	@	@	@	@
LABORATORY EXTRACT	727.813	@	@	@	@	@
RADIOLOGY EXTRACT	727.814	@	@	@	@	@
EVENT CAPTURE LOCAL EXTRACT	727.815	@	@	@	@	@
CLINIC I EXTRACT	727.816	@	@	@	@	@
TREATING SPECIALTY CHANGE EXTRACT	727.817	@	@	@	@	@
CLINIC II	727.818	@	@	@	@	@
IV DETAIL EXTRACT	727.819	@	@	@	@	@
ADMISSION SETUP EXTRACT	727.82	@	@	@	@	@
PHYSICAL MOVEMENT SETUP EXTRACT	727.821	@	@	@	@	@
TREATING SPECIALTY CHANGE SETUP	727.822	@	@	@	@	@
PAI EXTRACT	727.823					
LAB RESULTS EXTRACT	727.824	@	@	@	@	@
QUASAR EXTRACT	727.825	@	@	@	@	@
PROSTHETICS EXTRACT	727.826	@	@	@	@	@
CLINIC EXTRACT	727.827	@	@	@	@	@
BLOOD BANK EXTRACT	727.829	@	@	@	@	@
DSS TREATING SPECIALTY TRANSLATION	727.831	@	@	@	@	@
NUTRITION EXTRACT	727.832	@	@	@	@	@
BCMA EXTRACT	727.833	@	@	@	@	@
DSS EXTRACTS	728	@		@	@	@

File Name	File Number	DD Access	RD Access	WR Access	DEL Access	LAYGO Access
IV EXTRACT DATA	728.113	@	@	@	@	@
CLINICS AND STOP CODES	728.44	@		@	@	@
NATIONAL CLINIC	728.441	@		@	@	@
DSS NUTRITION PRODUCT WORKSHEET	728.45	@	@	@	@	@
DSS NUTRITION DIVISION WORKSHEET	728.46	@	@	@	@	@
DSS DRUG PRODUCT CODE	728.506					
UNIT DOSE EXTRACT DATA	728.904	@	@	@	@	@
DSS PRODUCTION UNIT	729	^		^	^	^

7.5 Security Management

The DSS Extracts software does not impose any additional legal requirements on the user, nor does it relieve the user of any legal requirements.

7.6 Security Keys

Take the following steps to obtain information about the security keys contained in the DSS Extracts package:

1. VA FileMan Menu
2. Print File Entries option
3. Output from what File: **SECURITY KEY**
4. Sort by: NAME**//** **<RET>**
5. START WITH NAME: FIRST// **ECX**
6. Go to name: last// **ECXZ**
7. Within name, sort by: **<RET>**
8. First print field: **NAME**
9. Then print field: **DESCRIPTION**   (word-processing)
10. Then print field: **<RET>**
11. Heading (S/C): SECURITY KEY LIST// **<RET>**
12. Start at page: 1// **<RET>**
13. Device: **PRINTER NAME**

7.7   Mail Groups and Alerts

DSS Extracts utilize a number of mail groups. The name of each mail group is prefaced with the letters "DSS". There is a mail group for each type of data extract (e.g., DSS-BCM, DSS-NUT, etc.) for the purpose of receiving messages when extracts are run and when data is transmitted to the AITC. DSS also utilizes mail groups DMS, DMV, and DMU for the purpose of receiving confirmation messages from the AITC. DSS Extracts does not utilize alerts.

7.8   Remote Systems

DSS Extracts transmit messages containing extracted data to a specified queue located at the AITC. Data is transmitted via VA MailMan at the site's discretion. Confirmation messages are received from the AITC indicating that the extract messages were successfully transmitted.

7.9   Contingency Planning

Technical users of the software should insure that a local contingency plan is used in the event of application problems in a live environment. The plan should identify the procedure(s) for maintaining the functionality provided by the DSS Extracts software in the event of system outage. Field station Information Security Officers (ISOs) can get assistance from the Regional ISO (RISO).

7.10 Interfacing

There is no special interfacing required for the VistA DSS Extracts software.

7.11 Electronic Signatures

The DSS Extracts software does not use electronic signatures.

8 Archiving, Deleting or Purging

8.1 Archiving

DSS Extracts has no archiving capability. There is an option to delete the local extract files after transmission to the commercial software.

8.2 Deleting or Purging

DSS Extracts exports the *Delete Extract Files* [ECXDELEF] option which can be used to delete individual extracts residing in files (#727.802) through (#727.833) or a range of extracts.

Data that resides in the holding files for VBECS, IVP (IV EXTRACT DATA file, (#728.113)) and UDP (UNIT DOSE EXTRACT DATA file, (#728.904)) extracts can be purged using the *Purge Extract Holding* Files [ECXPURG]..

You should exercise extreme caution when purging or deleting data for the following reasons:

- *Any* existing extract may be deleted (including transmitted and untransmitted) and extracts that did not run to completion due to errors or system problems.

- Choosing a range of extracts or holding files could mean an excessively large number of records to be deleted or purged and it may be very resource intensive. Please be sure to queue this for non-peak hours and limit the number of extracts to be deleted or holding files to be purged in a single queued session.

- Extreme caution must be used in maintenance of IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904). If data in either file is purged, the IVP or UDP monthly extract may be incomplete. It is strongly recommended that, at a minimum, sites maintain all data from the *current fiscal year*.

- Two functions were created to regenerate IVP and UDP holding file data that has been purged. These functions are located at:
    1. Extract Manager's Options
    2. Transmission Management menu
    3. Recreate Extract Holding Files

- You may only delete extracts that are associated with a division assigned to you in the NEW PERSON file (#200).

8.2.1 Recommendations

Purging of any local VistA extract data or VistA source of extract data (i.e., lab data, etc.) is not recommended until your facility has successfully created extracts, transmitted them to the AITC, audited the counts, loaded the data into DSS, <u>and is content with the results</u>.

The IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904) can become quite large if appropriate purging is not performed. The file purge option, *Purge Extract Holding Files* [ECXPURG], will purge the data from these files by date range. It is recommended that records over two fiscal years old be purged from IV EXTRACT DATA file (#728.113) and UNIT DOSE EXTRACT DATA file (#728.904).

VBECS holding files can also be purged. The VBECS holding file cannot be regenerated so extreme care must be used if purging it.

9 External Relations

9.1 Minimum Software Versions Required

The DSS Extracts package relies on the following external packages based upon the minimum software versions depicted in the table listed below.

Software Product Name	Minimum Version Required
Admission Discharge Transfer (ADT)	5.3
Bar Code Medication Administration (BCMA)	3.0
Decision Support System (DSS) Extracts	3.0
Event Capture	2.0
FileMan	22.0
Health Level Seven (HL7)	1.6
Kernel	8.0
Laboratory	5.2
Lab: Blood Bank	5.2
MailMan	8.0
Mental Health	5.01
Nutrition and Food Service (N&FS)	5.5
Order Entry/Results Reporting (OE/RR)	3.0
Patient Care Encounter (PCE)	1.0
Pharmacy: Data Management (PDM)	1.0
Pharmacy: Inpatient Medications	5.0
Pharmacy: National Drug File (NDF)	4.0
Pharmacy: Outpatient Pharmacy	7.0
Prosthetics	3.0
Quality: Audiology and Speech Pathology Audit & Review (QUASAR)	3.0
Radiology	5.0
Registration	5.3
Scheduling	5.3
Surgery	3.0

9.2 Database Integration Agreements (DBIAs)

Take the following steps to obtain the DBIAs for DSS Extracts 3.0:

Custodial Package	Subscriber Package
1. FORUM 2. DBA Menu 3. Integration Agreement Menu 4. Custodial Package Menu 5. Active by Custodial Package Option 6. Select Package Name: **DSS**	1. FORUM 2. DBA Menu 3. Integration Agreement Menu 4. Subscriber Package Menu 5. Print Active Subscriber Package Option 6. Start with subscriber package: **DSS** 7. Go to Subscriber package: **DSS**

10 Internal Relations

All of the DSS Extracts options have been designed to stand-alone. Each option may be independently invoked.

11   Package-Wide Variables

The DSS Extracts software does not contain any package-wide variables that must be defined or required for the package to run.

12   How to Generate Online Documentation

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

Entering question marks at the "Select ... Option:" prompt may also provide users with valuable technical information. For example, a single question mark (?) lists all options, which can be accessed from the current option. Entering two question marks (??) lists all options accessible from the current one, showing the formal name and lock for each. Three question marks (???) displays a brief description for each option in a menu while an option name proceeded by a question mark (?) shows extended help, if available, for that option.

To obtain a listing of the options and further information about other utilities that supply on-line technical information, please consult the VistA Kernel Reference Manual.

12.1 XINDEX

This option analyzes the structure of a routine(s) to determine in part if the routine(s) adheres to VistA Programming Standards. The XINDEX output may include the following components: compiled list of errors and warnings, routine listing, local variables, global variables, naked globals, label references, and external references. Running XINDEX for a specified set of routines, the user is afforded the opportunity to discover any deviations from VistA Programming Standards which exist in the selected routine(s) and to see how routines interact with one another, that is, which routines call or are called by other routines.

To run XINDEX for the DSS software, specify the following namespaces at the "routine(s)? >" prompt: ECX*.

DSS initialization routines that reside in the UCI in which XINDEX is being run, compiled template routines, and local routines found within the ECX namespace should be omitted at the "routine(s) ?>" prompt. To omit routines from selection, preface the namespace with a minus sign (-) is required.

12.2 Inquire To Option File

To secure information about DSS options, you must specify the name or namespace of the option(s) desired. This Menu Manager option provides the following information about user-specified option(s):

- Option name
- Menu text
- Option description
- Type of option
- Lock (if any)

12.3 Print Options File

Use this utility to generate a listing of options from the OPTION file. You can choose to print all of the entries in this file, or specify a single option or range of options. To obtain a list of DSS options, specify the ECX option namespace.

12.4 List File Attributes

Use this FileMan option to generate documentation pertaining to files and file structure. Use the Standard format to obtain the following data dictionary information for a specified file(s):

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified
- Files which point to the file specified
- Input, print and sort templates

Additionally, the following information is supplied for each field in the file:

- Field name and number
- Global location
- Description
- Help prompt
- Cross-reference(s)
- Input transform
- Date last edited
- Notes

Use the Global Map format of this option to generate an output that lists:

- All cross-references for the selected file
- Global location of each field in the file
- Input, print and sort templates

13 Glossary

Term	Definition
ADM	Abbreviation for Admission Extract
ADPAC	Acronym for Automated Data Processing Application Coordinator
ADT	Acronym for Admission Discharge Transfer
AITC	Acronym for Austin Information Technology Center, previously the Austin Automation Center
API	Acronym for Application Programmer Interfaces
BCM	Abbreviation for BCMA Extract
BCMA	Acronym for Bar Code Medication Administration
CBOC	Acronym for Community Based Outpatient Clinic
CLI	Abbreviation for Clinic Extract
CPT	Acronym for Common Procedure Terminology
DBIA	Acronym for Database Integration Agreement
DD	Acronym for Data Definitions
DEL Access	Abbreviation for Delete Access
DSS	Acronym for Decision Support System
ECS	Abbreviation for Event Capture Extract
ECQ	Abbreviation for QUASAR Extract
Extract	Management tool used to track and account for procedures and delivered services that are not handled in any existing VistA package.
HL7	Acronym for Health Level 7
IEN	Acronym for Internal Entry Number
IRM	Acronym for Information Resource Management
ISO	Acronym for Information Security Officer
IVP	Abbreviation for IV Detail Extract
LAB	Abbreviation for Laboratory Extract
LAR	Abbreviation for Lab Results Extract
LAYGO Access	Abbreviation for Learn-As-You-Go Access
LBB	Abbreviation for Blood Bank Extract
MOV	Abbreviation for Transfer and Discharge Extract
N&SF	Acronym for Nutrition and Food Service
NDF	Acronym for National Drug File
NUT	Abbreviation for Nutrition Extract
OE/RR	Acronym for Order Entry/Results Reporting

PCE	Acronym for Patient Care Encounter
PDM	Acronym for Pharmacy Data Management
PRE	Abbreviation for Prescription Extract
PRO	Abbreviation for Prosthetics Extract
QUASAR	Acronym for Quality: Audiology and Speech Pathology Audit & Review
RAD	Abbreviation for Radiology Extract
RD	Abbreviation for Read Access
RISO	Acronym for Regional Information Security Officer
SUR	Abbreviation for Surgery Extract
TRT	Abbreviation for Treating Specialty Change Extract
UDP	Abbreviation for Unit Dose Local Extract
VA	Acronym for Department of Veterans Affairs
VHA	Acronym for Veterans Health Administration
VistA	Acronym for Veterans Health Information Systems and Technology Architecture
WR Access	Abbreviation for Write Access
YTD	Acronym for Year-to-Date