

2.0 Implementation and Maintenance

2.1 General Information

Refer to the *Distribution Management (ADS) Installation Guide and Release Notes* for maintenance and implementation information, specifically, information on the set up of the TaskMan task and where to locate the option in the menus.

2.2 System Requirements

- Distribution Management (ADS) Version 1.0 Patch 3
- VA FileMan (DI) Version 22.0 Patch 1020 or higher
- VA Kernel (XU) Version 8.0 Patch 1020 or higher
- IHS Standard Terminology Version 2.0 Patch 1 or later

2.3 Package-wide Variables

There are no package-wide variables in the ADS package.

2.4 Security Keys

Table 2-1 lists security key names and their associated descriptions.

Table 2-1: Security Key Names and descriptions

Key Name	Description
ADSZMENU	Assigned to any IT staff that needs access to the ADS Reports.

3.0 Routine Descriptions

Table 3-1 lists routines and their associated descriptions.

Table 3-1: ADS routines and descriptions

Routine	Description
ADS1P01	ADS Version 1.0 Patch 1 Post Install
ADS1P02	ADS Version 1.0 Patch 2 Environmental Checking/Post Install
ADS1P03	ADS Version 1.0 Patch 3 Environmental Checking/Post Install
ADS1P04	ADS Version 1.0 Patch 4 Environmental Checking/Post Install
ADSFAC	ADS Package ASUFAC Report
ADSIZPR	ADS IZ Parameter Export
ADSLRPT	ADS Log Report
ADSMON	ADS "BSTSPROCQ" Log Monitor
ADSPKG	ADS Package PKG Report
ADSPST	InterSystems License Report – Post Install Routine
ADSRPT	InterSystems License Report – Main Compile Routine
ADSRTNCS	Compares checksum values and sends results to DTS
ADSRTNCD	Sends Gold checksum values to DTS
ADSRTNRP	Prints routine checksum reports
ADSSOL	ADS Sign-on Log Export
ADSUTL	ADS Package utility routine

4.0 Files and Tables

The following tables include information regarding file lists and file access.

4.1 File List

Table 4-1 details file numbers and names.

Table 4-1: ADS file numbers and names

File #	Filename
9002290	ADS LICENSE CONFIGURATION
9002291	ADS LICENSE REPORT HISTORY
9002292	ADS PARAMETERS
9002293.1	ADS ROUTINES

4.2 File Access

Table 4-2 lists file access information.

Table 4-2: File access information

File #	Filename	GL	RD	WR	LYG	DD	DEL
9002290	ADS LICENSE CONFIGURATION	^ADS(9002290,	@	@	@	@	@
9002291	ADS LICENSE REPORT HISTORY	^ADSRPT(9002291,	@	@	@	@	@
9002292	ADS PARAMETERS	^ADSPARM(@	@	@	@	@
9002293.1	ADS ROUTINES	^ADSROU(@	@	@	@	@

4.3 Cross References

Figure 4-1 displays the ADS files that all use the standard B cross reference as defined by FileMan.

```

FILE: ADS LICENSE CONFIGURATION FILE
GLOBAL: ^ADS(9002290,
FILE #: 9002290

FIELD #      FIELD NAME                SUBSCRIPT                PIECE TYPE
=====
.01          ID                            D0,0                      1          N
              X: B
              1) S ^ADS(9002290,"B",$(X,1,30),DA)="
.02          INSTALL DATE                    "                          2          D
.03          LAST RESET DATE/TIME                "                          3          D
    
```


.04	TASK NUMBER	"	4	N
.05	SYSTEM TYPE	"	5	S
.06	LAST PACKAGE VERSION DATE	"	6	D
FILE: ADS LICENSE REPORT HISTORY FILE GLOBAL: ^ADSRPT(9002291, FILE #: 9002291				
FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
=====				
.01	REPORT DATE/TIME X: B 1) S ^ADSRPT(9002291,"B",%E(X,1,30),DA)=""	D0,0	1	D
.02	FACILITY	"	2	F
.03	KEY CUSTOMER NAME	"	3	F
.04	LUMX CONSUMED	"	4	N
.05	LUMAX DATE/TIME	"	5	F
.06	LUMAX RESET DATE/TIME	"	6	F
.07	STAR DATE/TIME	"	7	F
.08	FULL VERSION	"	8	F
.09	OS VERSION	"	9	F
1.01	SERVER FQDN	D0,1	1	F
1.02	SERVER IP	"	2	F
1.03	NAMESPACE	"	3	F
1.04	AUTO OR MANUAL	"	4	S
2	KEY LICENSE CAPACITY	D0,2	E1,250	F
3.01	LICENSE KEY	D0,3	1	F
3.02	KEY EXPIRATION DATE	"	2	D
3.03	HS4	"	3	F
3.04	HLU	"	4	F
3.05	LICENSE KEY ORDER NUMBER	"	5	N
FILE: ADS PARAMETERS GLOBAL: ^ADSPARM(FILE #: 9002292				
FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
=====				
.01	NAME X: B 1) S ^ADSPARM("B",%E(X,1,30),DA)=""	D0,0	1	N
11.1	SO EARLIEST DATE EXPORTED	D0,11	1	D
11.2	SO LATEST DATE EXPORTED	"	2	D
11.3	SO EXPORT SWITCH	"	3	S
11.4	DOW TO RUN SO EXTRACT	"	4	S
FILE: ADS ROUTINES GLOBAL: ^ADSRou(FILE #: 9002293.1				
FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
=====				
.01	NAME X: B 1) S ^ADSRou("B",%E(X,1,30),DA)=""	D0,0	1	F

1.1	LOCAL CHECKSUM VALUE	D0,1	1	F
1.2	LOCAL CHECKSUM DATE	"	2	D
1.3	LOCAL PREVIOUS CHECKSUM VALUE	"	3	F
1.4	LOCAL PREVIOUS CHECKSUM DATE	"	4	D
2.1	DTS CHECKSUM VALUE	D0,2	1	F
2.2	DTS CHECKSUM DATE	"	2	D
2.3	DTS PREVIOUS CHECKSUM VALUE	"	3	F
2.4	DTS PREVIOUS CHECKSUM DATE	"	4	D

Figure 4-1: Example ADS files FileMan B cross-reference

4.4 Parameters

ADS Patch 3 introduces a new ADS Parameters file. This is a FileMan file that holds the various parameters used by the ADS package. There should only be one entry in this file, and it is named the number 1.

Table 4-3 lists the parameter information.

Table 4-3: Parameter Information

Field	Value(s)	Description
.01 NAME	1	The name of the parameter, must be 1
11.1 SO EARLIEST DATE EXPORTED	Date	The earliest Sign-On Log date that has been exported to the DTS central server. Set by system
11.2 SO LATEST DATE EXPORTED	Date	The latest Sign-On Log date that has been exported to the DTS central server. Set by system
11.3 SO EXPORT SWITCH	0=OFF 1=ON	On/Off switch. Set to 1 ON to turn on the Sign-On Log exports to the DTS central server.
11.4 DOW TO RUN EXTRACT	SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY	The day of the week that the Sign-On log data should be exported to the DTS central server. ADS patch 3 sets this parameter to THURSDAY. Setting to FRIDAY or SATURDAY could impact the DTS Server's data processing.

5.0 External Relations

5.1 Callable Routines

Table 5-1 displays the available list of callable routines.

Table 5-1: Callable routines

Routine Called	Description
\$\$FIND^ADSPST	Find an entry in the option file.
\$\$FMTMDY^ADSRPT	Convert \$H DATE/TIME format to MM/DD/YY HH:MM:SS format (NOTE: time portion is optional)
\$\$SITE^VASITE()	Returns the Institution file pointer^Institution name^station number with suffix

5.2 Published Entry Points

There are no published entry points in the ADS package.

5.3 Exported Options

Table 5-2 displays the available option names and descriptions.

Table 5-2: Options names and descriptions

Option Name	Description
ADS LICENSE REPORT	<p>This option runs the InterSystems License Report and sends the current maximum number of License Units used (and other associated information) to a central server for aggregation with other licensing info. This option is normally scheduled to be checked on a daily basis and sends the report every 30 days.</p> <p>This option may be run manually to reset the license counts if an unusual circumstance such as a runaway process has occurred, which artificially inflated the counts.</p> <p>This option may also be run at any time without resetting the counts to keep tabs on the current license counts for the system.</p>
ADS ASUFAC REPORT	This option will display site location and institution file information sent to the DTS server.
ADS LOG REPORT	This option will display a log of information that has been sent to the DTS server. Users select from a list; ASU, IZP, License, and PKG events.

Option Name	Description
ADS PACKAGE REPORT	This option will display a list of installed package history which will be sent to the DTS server. It displays the packages, their version, patch and date installed in an RPMS system.
ADSRTNRP PRT CHECKSUM REPORT	This option prints a list of routines and their checksums.
ADSMENU	Main menu for ADS reports
ADSLICRPT	This option runs the Intersystems License Report and sends the current maximum number of License Units used (and other associated information) to a central server for aggregation with other licensing info. This option is normally scheduled to be checked on a daily basis and sends the report every 30 days.
ADSSITEEXPORT	This option will compile and export information to the IHS Central Repository database.
ADSRTNCS REC/SEND RSUMS AUTO	This option will pull down the routine checksum values from DTS and compare them with the ones in the local database. It will then send the mismatch values back to DTS. It will update the checksum values in the ADS Routines file.
ADSRTNGD SEND GLD DATA	This routine gathers and sends routine data from the HQ SQA Gold Database to the DTS Central server. It should be auto queued to run in the background. It should only run on the HQ SQA Gold database and nowhere else.

6.0 Internal Relations

There are no internal relations in the ADS package.

7.0 Archiving and Purging

No archiving or purging is necessary with the ADS package.

8.0 Documentation Resources

This section describes a few of the methods used to generate online technical documentation.

8.1 System Documentation

Online ADS package system documentation can be generated through the use of several Kernel options, including, but not limited to:

- %INDEX
- Menu Management
- Inquire Option
- Print Option File
- VA FileMan
- Data Dictionary Utilities
- List File Attributes

For more option listings and further information about other utilities that supply online technical information, refer to the *Decentralized Hospital Computer Program (DHCP) Kernel Reference Manual*.

8.1.1 %INDEX

The %INDEX option analyzes the structure of a routine to determine in part, if the routine adheres to RPMS programming standards. The output can include the following components:

- Compiled list of errors and warnings
- Routine listing
- Local variables
- Global variables
- Naked globals
- Label references
- External references
- Running %INDEX for a specified set of routines allows users to discover any deviations from RPMS programming standards that exist, and to see how routines interact with one another (i.e., which routines call or are called by other routines).
- To run %INDEX for the ADS package:
- At the “Routine(s)?” prompt, type the **ADS** namespace.

8.1.2 Inquire Options

The Inquire menu management option provides the following information about a specified option:

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

In addition, all items on the menu are listed for each menu option. To secure information about ADS package options, specify the ADS namespace.

8.1.3 Print Option File

The Print Option File utility generates a listing of options from the Option file (#19). Users can print all of the entries or a single option or range of options.

8.1.4 List File Attributes

This VA FileMan option allows users to generate documentation pertaining to files and file structure. The standard format of this option provides the following data dictionary information for a specified file:

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

In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description
- Global location
- Help prompt
- Cross-references
- Input transform
- Date last edited
- Notes

Using the Global Map format of this option generates an output that lists the following information:

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

For a comprehensive listing of ADS files, refer to Section 4.0.

8.2 Online Help

In addition to system documentation, RPMS includes special help displays for most menu options and data entry prompts. Typing one or more question marks (?) at the “Select . . . Option” prompt displays information related to the current option, as shown in Table 8-1.

Table 8-1: Online help prompts and displays

Typing:	Displays:
One question mark (?)	A list of all options accessible from the current option.
Two question marks (??)	A list of all accessible options and their formal names.
Three question marks (???)	A brief description for each option in a menu.
One question mark (?), followed by an option name (?option)	Extended help, if available, for that option.

9.0 SAC Requirements and Exemptions

Applicable standards are listed in Table 9-1.

Table 9-1: Table of standards and descriptions

Standard Number	Description
2.2.3.3.2	Intrinsic Variables direct use is prohibited

Reasons for Exemption

The code for ADS version 1.0 is collecting system data, including InterSystems license and version information and the IP address and FQDN (fully qualified domain name) for the RPMS server. This information can only be obtained from methods found in the \$SYSTEM objects and methods provided by InterSystems. These are listed by the SAC Checker as Intrinsic Variables under \$SYSTEM.

SAC Exemption Approval list

Table 9-2 lists specific code updates that have been approved for a SAC exemption in addition to any generic approvals listed above.

Table 9-2: Table of SAC Exemption Approvals

Patch	Program	Line	Exception	Date Approved
ADSV1.0	ADSRPT	+184	Use of \$SYSTEM.InetInfo.LocalHostName()	1/14/2021
ADSV1.0	ADSRPT	+185	Use of \$SYSTEM.InetInfo.HostNameToAddr()	1/14/2021
ADSV1.0	ADSRPT	+186	Use of \$SYSTEM.InetInfo.AddrToHostName()	1/14/2021
ADSV1.0	ADSRPT	+189	Use of \$SYSTEM.License.KeyCustomerName()	1/14/2021
ADSV1.0	ADSRPT	+190	Use of \$SYSTEM.License.KeyLicenseCapacity()	1/14/2021
ADSV1.0	ADSRPT	+209	Use of \$SYSTEM.Version.GetISCPProduct()	1/14/2021
ADSV1.0	ADSRPT	+218	Use of \$SYSTEM.License.LUMaxConsumed()	1/14/2021
ADSV1.0	ADSRPT	+232	Use of \$SYSTEM.License.LUMaxConsumedReset("")	1/14/2021
ADS*1.0*2	ADSRPT	+193	Use of \$SYSTEM.License.KeyAuthorizationKey()	1/14/2021
ADS*1.0*2	ADSRPT	+194	Use of \$SYSTEM.License.KeyExpirationDate()	1/14/2021
ADS*1.0*3	ADSRPT	+205	Use of \$SYSTEM.License.KeyOrderNumber()	1/14/2021

Acronym List

Acronym	Term Meaning
DHCP	Decentralized Hospital Computer Program
FQDN	Fully Qualified Domain Name
IHS	Indian Health Service
IT	Information Technology
IP	Internet Protocol
PIMS	Patient Information Management System
RPMS	Resource and Patient Management System
SAC	Standards and Conventions

Contact Information

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

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

Web: <https://www.ihs.gov/itsupport/>

Email: itsupport@ihs.gov