9 software

Adabas Online System

System Operator Command Functions

Version 7.4.4

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Adabas Online System

This document applies to Adabas Online System Version 7.4.4 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 System Operator Command Functions

09:27:14 ***** A D A B A S BASIC SERVICES ***** 2005-11-24 - Session Opercoms -PACI002 Code Service Code Service - - - -- - - -_ Extended Error RecoverySStop user(s)Force Dual CLOG or PLOG switchTTermination CommandsLock or unlock filesUManage Online Utilities Ε F L Reset ONLINE-DUMP-Status V User Table Maintenance R ? Help Exit . - - - -- - - -Code _ Userid(ETID) ... CLOG/PLOG Ind .. _ Global.. _ Database ID 1955 (WIS1955) NucID .. 1022 Command ==> PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----Help Menu Exit

Selecting Session Opercoms (option "O") displays the following menu:

The Adabas Online System Operator Command Functions documentation is organized in the following topics:

	Code	Function
٢	E	Extended Error Recovery
٩	F	Force Dual/Multiple CLOG/PLOG Switch
٩	L	Lock / Unlock files
٩	R	Reset Online Dump Status
٩	S	Stop User(s)
٩	Т	Termination Commands
٩	U	Manage Online Utilities
٩	V	Maintain the User Table (nucleus cluster environments only)

2 Extended Error Recovery

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Selecting option "E" (Extended Error Recovery) from the Session Opercoms menu displays the Extended Error Recovery menu:

09:31:57	**** A	D A B A S BASIC SERVICES ***** - Extended Error Recovery -	2005-11-24 PACIE02
	Code	Service	
	B D E M P R S ?	Display message buffer Display/modify environment Display/modify Exit routines Add/Delete PIN modules Display/modify PIN routines Refresh threshold and alert exits SNAP a nucleus dump Help Exit	
Code Start Addre Database II Command ==> PF1 PF2 Help	ess D 105	End Address (RD-MPM105) PF4 PF6 PF7 PF8	PF12 Menu

From this menu you can

- display the message buffer
- display or modify the parameters controlling the extended error handling environment;
- display or modify parameters for invoking the error handling exits;
- add or delete PIN modules;
- display, activate, or deactivate specific PIN routines;
- refresh the ADATHRSH and ADALERTX exit modules loaded in memory;
- SNAP a dump image of nucleus memory.

This chapter covers the following topics:

Display Message Buffer

Selecting option "B" (Display Message Buffer) from the Extended Error Recovery menu displays the contents of the message buffer:

```
09:38:27
           ***** A D A B A S BASIC SERVICES ***** 2005-11-24
                      - Display Message Buffer -
DBID 105
                                                          PACIEB2
Select starting message _
 Msg Num Time Msg ID Message
         _____
       2 09:15:11 ADAN5A FILES modified during AUTORESTART:
       3 09:15:11 ADAN5A NONE
       4 09:15:11 ADAN19 BUFFERFLUSH is A S Y N C H R O N O U S
       5 09:15:11 ADAN8Y FILE-LEVEL CACHING INITIALIZED
       6 CWARN-140, FILE CACHING PARAMETER ERROR; Invalid FILE NUMBER
       7 09:15:11 ADAN80 ADABAS DYNAMIC CACHING ENVIRONMENT established.
       8 09:15:11 ADANO1 A D A B A S V7.1.0 is active
       9 09:15:11 ADANO1 MODE = MULTI
      10 09:15:11 ADANO1 Running without RECOVERY-LOG
      11 09:45:23 ADAN8U ESP 64001 (WRK2) Enabled on Demand.
      12 09:45:23 ADAN8U ESP 64002 (WRK3) Enabled on Demand.
       13 09:45:23 ADAN8U FNR 00050 (BOTH) Enabled on Demand.
Command ===>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
                Exit Latest -
                                                 +
Help
                                                         Menu
```

Press PF4 to refresh the screen and show the latest messages added to the buffer.

The Msg Num column contains the sequential record number for each item in the message buffer. Enter a record number in the field Select starting message to position the display to a particular record.

These functions are the same as the error handling operator commands

SMGT,DISPLAY=MSGBUF

Display/Modify Environment

Selecting option "D" (Display/Modify Environment) from the Extended Error Recovery menu displays the current setting of several extended error handling parameters:

```
09:46:13
                  *****
                         A D A B A S BASIC SERVICES *****
                                                                        2005-11-24
 DBID 105
                          - Display/Modify Environment -
                                                                         PACIED2
----- Alert Limits ------
                                    --- Parameters ----- Status - Executions -
User Queue ..... 85
                                    Smart Management (SMGT) ON
                                                                                 3
                                    Message Buffering .....
Command Queue ..... 80
                                                               ΟN

        Threads
        75%

        Hold Queue
        500

        Data Blocks
        80%

                                    Abnormal Term. Handler.
                                                                                 0
                                                               ΟN
                                    Response Code Handler .
                                                               ΟN
                                                                                 0
                                    Heartbeat Subtask .....
                                                               ΟN
Asso Blocks ..... 90%
                                    Full System Dump (DUMP)
                                                               OFF
Flushes/Interval ... 40
                                    Threshold Interval ....
                                                               30
Format Overwrites ...
                       1
            ----- Most Recent Recovery Action ------
             Last error occurred on 2005-11-24 09:11:45
              Condition: Rsp 017 Location: * N/A *
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
         MsgBuf
                    Exit
                                                                       Menu
```

If the heartbeat subtask is inactive or if the ADATHRSH module is not installed, the Alert Limits and the threshold interval values are blank.

The parameters with "ON"/"OFF" values in the Status column can be activated and deactivated by changing the value. The threshold interval parameter and the threshold levels displayed in the Alert Limits column cannot be changed in Adabas Online System. See the *Adabas DBA Reference* documentation for more information.

The functions on this screen mirror the error handling operator commands

```
SMGT,{ON | OFF}
SMGT,ABNORMALTERM={ON | OFF}
SMGT,DUMP={ON | OFF}
SMGT,HEARTBEAT={ON | OFF}
SMGT,MSGBUF={ON | OFF}
SMGT,DISPLAY=THRESHOLD
SMGT,DISPLAY=LAST
```

Display/Modify Exits

Selecting option "E" (Display/Modify Exits) from the Extended Error Recovery menu displays the status of the exits currently loaded:

09	9:58:48 DBID 10	***)5	*** A D A - Li	B A S BA st/Modify	SIC SERV Exit Rout	ICES *** ines -	** 2	005-11-24 PACIEE2	
	Mark wit M Exit	ch 'A' Acti : Program	ivate, 'D' Status	Deactivate Critical	, 'L' Loa M Exit	d, 'C' Cr [.] Program	itical, 'N Status	' Not Crit Critical	1
	SX00) ADASMXIT	Γ Active	Critical	-				
	PF1 Help	PF2	- PF3 Exit	PF4 Refr	PF6	PF7	PF8+	PF12 Menu	

The exit code, the name of the program invoked by the exit, the current status, and the criticality are listed for each exit. You can change the status and criticality of the exit from this screen.

To change the status and criticality of the exit, enter In the M column next to the selected exit

A	to activate the exit
D	to deactivate the exit
L	to reload the exit program in memory or to load a new exit
С	to make the exit critical
Ν	to make the exit noncritical

After changes have been made, use PF4 to refresh this screen.

These functions are the same as the error handling operator commands

```
SMGT,DISPLAY=EXITS
SMGT,{XACTIVATE | XDEACTIVATE}=exit-code
```

```
SMGT,XLOAD=exit-code
SMGT,XLOAD=(exit-code,module-name)
SMGT,{XCRITICAL | XNOTCRITICAL}=exit-code
```

Add/Delete PIN Modules

Selecting option "M" (Add/Delete PIN Modules) from the Extended Error Recovery menu displays a list of currently available PIN modules:

```
***** A D A B A S BASIC SERVICES *****
10:02:45
                                                                     2005-11-24
  DBID 105
                            - Add/Delete PIN Modules -
                                                                       PACIEM2
 Mark entries with 'A' to Add or 'D' to Delete:
           М
              Module Description
                                                            Message
                                     _ _ _ _ _ _ _ _ _
               ADAMXY Standard Nucleus PIN Routines
PINAAF SAF Security
               PINAFP Adabas Fastpath
               PINATM
                         Adabas Transaction Manager
               PINAVI Adabas Vista
PINRSP Adabas Response Code Handler
                         Universal Encoding Support
               PINUES
```

To load a PIN module into memory

Enter "A" in the M column next to the module name.

This command is successful only if the exit module exists in a library accessible to the Adabas nucleus.

To remove a PIN module from memory

Enter a "D" in the M column next to the module name.

When deleting a PIN module from memory, all related PIN routines are also removed.

These functions are the same as the error handling operator commands

SMGT,{ADDPIN | DELPIN}=module-name

Display/Modify PIN Routines

Selecting option "P" (Display/Modify PIN Routines) from the Extended Error Recovery menu displays a list of PINs currently loaded in memory:

10:08 DB:	3:49 ID 105	**	***	AD-	A B A S List/Mod	BAS lify P	IC IN F	SERVI Routir	CES nes	**: -	***	2005-11-24 PACIEP2
Marl	< entries	with	'A'	Activ	ate, or	'D' D	eact	tivate	:		Total	Pins: 012
M	Condition		E	rror	Location			Status	5 U	ses	Module	Message
_	000C1000	A11	Loca	tions			ļ	Active	j	0	ADAMXY	
_	000C2000	A11	Loca	tions			A	Active	ć	0	ADAMXY	
_	000C3000	A11	Loca	tions			ſ	Not Ac	ct	0	ADAMXY	
_	000C4000	A11	Loca	tions			A	Active	ć	0	ADAMXY	
_	000C5000	A11	Loca	tions			A	Active	ć	0	ADAMXY	
_	00006000	A11	Loca	tions			A	Active	ć	0	ADAMXY	
_	000C7000	A11	Loca	tions			ſ	Not Ac	ct	0	ADAMXY	
_	0008000	A11	Loca	tions			ŀ	Active	j	0	ADAMXY	
_	000C9000	A11	Loca	tions			ŀ	Active	j	0	ADAMXY	
_	000CB000	A11	Loca	tions			A	Active	ć	0	ADAMXY	
_	000CF000	A11	Loca	tions			ŀ	Active	j	0	ADAMXY	
_	00047000	A11	Loca	tions			ŀ	Active	j	0	ADAMXY	
PF1	PF2-		PF3		- PF4	P	F6-	F	PF7-		PF8	PF12
Help)		Exi	t	Refr				-		+	Menu

For all PIN routines on the list, the screen indicatess the conditions that cause them to be executed, the current status, the number of times they have been used, and the module in which they are located.

To change the status of the PINs from this screen, enter in the M column next to the PIN number

А	to activate a PIN
D	to deactivate a PIN

After changes have been made, use PF4 to refresh the screen.

These functions are the same as the error handling operator commands

```
SMGT,DISPLAY=PINS
SMGT,{ACTPIN | DEACTPIN}=pin-number
```

Refresh Threshold and Alert Exits

Selecting option "R" (Refresh Threshold and Alert Exits) from the Extended Error Recovery menu loads the ADATHRSH and ADALERTX modules into memory.

The following confirmation screen is displayed:

```
***** A D A B A S BASIC SERVICES ***** 2005-11-24
10:10:02
                           - Extended Error Recovery -
                                                                   PACIE02
                    Code
                           Service
                     - - - -
                             D Display/modify environment
E Display/modify Exit routine
                            Display/modify Exit routines
                        Add/Delete PIN modules
Display/modify PIN routines
Refresh threshold and alert exits
SNAP a nucl
                      М
                      Р
                      R
                      S
                            SNAP a nucl
                      ?
                            Help | Refreshing will delete and reload
                                          the modules in memory.
                            Exit
                                          Enter PF3 to cancel or YES to
     Code ..... r
                                          confirm the refreshing of:
     Start Address .. ____
                                        Thresholds (ADATHRSH)...
     End Address ....
                                          Alert Exit (ADALERTX)... ____
     Database ID .... 105 (RD-MPM105)
  EACIEP1 : Display/Modify PINs functio
  Command ==>
  PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
 Help
                     Exit
                                                                   Menu
```

These modules can be refreshed only if the heartbeat subtask is active and the module being refreshed exists in a library accessible to the Adabas nucleus. Both modules can be refreshed at one time.

Note: Option "R" is only valid for pre-741 versions of Adabas. When running against an Adabas version 741 database, you will receive a message stating that it cannot be accessed.

To refresh a module

• Enter "YES" in the input field following the module name.

This deletes the module from memory and reloads a new copy.

These functions are the same as the error handling operator commands

SMGT,REFRESHTHRESHOLDS SMGT,REFRESHALERTEXIT

SNAP a Nucleus Dump

Selecting option "S" (SNAP a Nucleus Dump) from the Extended Error Recovery menu generates a formatted dump of the nucleus without error diagnostics.

To generate a dump of the whole nucleus

• Leave the Start Address and End Address fields on the menu blank.

To generate a SNAP dump of only a range of addresses, enter hexadecimal addresses in the Start Address and End Address fields on the menu.

The formatted dump is written to the DDPRINT dataset specified in the nucleus.

This function is the same as the error handling operator command

SMGT,SNAP[=(start,end)]

3 Force Dual/Multiple CLOG/PLOG Switch

Using this option, you can immediately switch (by forcing an end-of-file) between dual or multiple command log (CLOG) or protection log (PLOG) files. Switching (that is, "toggling") changes from one CLOG or PLOG file to another.

Equivalent direct commands are

<u>FO</u>RCE <u>CLO</u>GSWITCH

<u>FO</u>RCE <u>PLOGSW</u>ITCH

4 Lock / Unlock Files

This option is used to lock, unlock, or display locked files.

Files can be locked or unlocked for all users or for all but utility/EXF users. Once locked for all users, a file cannot be unlocked for utility users only.

Locking is immediate: a transaction in process whose file becomes locked will be backed out.

Unlocking makes the file available again for normal use.

Equivalent direct commands are

<u>lo</u>ck <u>file</u>

<u>UNL</u>OCK <u>FILE</u>

Selecting option "L" (Lock/Unlock Files) from the Session Opercoms menu displays the following:

10:12:10	****	A D A B A S BASIC SERVICES ***** 200 - Lock / Unlock Files - PA	5-11-24 CILO2
	Code	Service	
	D	Display locked files	
	F	Lock file for all users	
	К	Advance lock file	
	L	Lock file except for UTI/EXF users	
	Ν	Unlock file from general lock	
	R	Release an advance lock	
	U	Unlock file from UTI/EXF lock	
	?	Help	
		Exit	
Code			
File Number	30		

```
UTI/EXF Ind .. U
Database ID .. 105 (RD-105)
Command ==>
PF1---- PF2----- PF3----- PF4----- PF6----- PF7---- PF8----- PF12-----
Help Exit Menu
```

To list and modify the files that are locked

- Enter "D" in the Code field and press ENTER.
 - **Note:** You can unlock a file directly from the Lock / Unlock Files menu by entering an "N" or "U" function.

The Display Locked Files screen is displayed:

```
10:17:45
                 ***** A D A B A S BASIC SERVICES ***** 2005-11-24
 DBID 105
                        - Display Locked Files -
                                                                  PACID02
 Mark entries with 'U' to unlock:
 M Fnr. Lock Status
                                       M Fnr. Lock Status
   - - - - -
                                          - - - - -
   1
          Locked for ALL users
       Locked for ALL users
Locked except for UTI
  35
 _
   50 Locked except for EXU/EXF
 _
  55 Locked for ALL users60 Locked for ALL users
 _
 _
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
                   Exit
                                      - -
                                                         +
                                                                  Menu
                                               -
```

To unlock files

■ Enter a "U" in the M column to the left of the file number on this screen.

Multiple files may be unlocked at the same time.

5 Reset Online Dump Status

Use this option to reset the online dump status for use when an ADASAV online dump operation has ABENDed.

An equivalent direct command is

<u>RESET ONL</u>INESTATUS

6 Stop User(s)

Selecting option "S" (Stop Users) from the Session Opercoms menu displays the Stop Users menu:

***** A D A B A S BASIC SERVICES ***** 10:22:02 2005-11-24 - Stop Users PACIS02 Code Service - - - -F Stop users using file Stop inactive users Ι Stop users by jobname J U Stop a selected user ? Help Exit . Code_ File Number Last Activity (elapsed time in seconds) Job Name Purge UQE(s) N Selected Userid .. Database ID 105 (RD-105) Command ==> PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----Help Disp UQ Exit Clear UID Menu

You can stop a specific user, all users of a specific file or job, or all inactive users. The current transactions of those users being stopped are backed out.

Press PF2 (Disp UQ) to display the current user queue.

Press PF4 (Clear UID) to clear the selected user ID.

An equivalent direct command is

Stop User(s)

<u>STO</u>P <u>US</u>ERS

7 Termination Commands

Selecting option "T" (Termination Commands) from the Session Opercoms menu invokes the Session Termination menu from which you can choose to terminate a session normally (ADAEND), cancel a session immediately (CANCEL), or stop a session (HALT).

```
11:24:00
                **** A D A B A S
                                     BASIC SERVICES *****
                                                                 2005-11-24
                            - Session Termination
                                                                    PACT002
                     Code
                             Service
                     - - - -
                             Normal session termination (ADAEND)
                      А
                      С
                             Cancel session immediately (CANCEL)
                             Stop session
                      Н
                                                       (HALT)
                      ?
                             Help
                             Exit
       Code .....
       Database ID .. 105
                             (RD-MPM105)
        Current nr. of users in User Queue ... 9
        Nr. of users with open transactions .. 0
 Command ==>
 PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
 Help
                    Exit
                                                                  Menu
```

In all cases, you are prompted to confirm your termination request before the action is taken.

An equivalent direct command is

<u>TERMINATE</u> <u>SE</u>SSION

8 Manage Online Utilities

Selecting option "U" (Manage Online Utilities) from the Session Opercoms menu displays the following screen:

10:28:	33		*****	А	DA	B	AS BA	ASIC	SER	VICES	7	****		2005-11-24	ļ
DBID	105				- Ma	na	ge Onlir	ne Pr	oces	ses -				PACIP02	
Total	Proce	200	202												
Mark	entrie	23. 25	with 'S' (Sι	uspen	d)	, 'R' (F	Resum	ie), (or 'X'	((Stop):			
Ι		Ι	Process	Ι	Sort	Ι	Current	t I	Th	row-	Ι	Process	Ι		Ι
ΜI	FNR	Ι	Туре	Ι	Seq	Ι	RABN/IS	SN I	Ba	cks	Ι	ΙD	Ι	Status	Ι
_ I	50	I	Reor Data	I	Phy	I	334	45 I		6	I	000003FC	I	Active	I
_ I	61	Ι	Invert DE	Ι	AA	Ι	28	36 I		1	Ι	000003FF	Ι	Suspended	Ι
_ I	101	Ι	Reor Asso	Ι	ΒJ	Ι		Ι		1	Ι	000000C2	Ι	Active	Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
_ I		Ι		Ι		Ι		Ι			Ι		Ι		Ι
PF1	PI	-2	PF3-			PF4	4	PF6-		PF7		PF8		PF12	
Help			Exit	-		Re	fresh			-		+		Menu	

From this screen, you can manage (that is, monitor, suspend, resume, and stop) online utility processes.

All online processes currently in the database nucleus are listed, up to a maximum of 40. You can use PF6 (back to the start of the list), PF7 (back one screen), and PF8 (forward one screen) to scroll among the processes.

The equivalent direct command is

<u>DI</u>SPLAY <u>PROC</u>ESS

To maintain the processes, enter one of the following maintenance codes in the M column to the left of the process named in the Process Type column:

S	suspend an active process
R	resume a suspended process
Р	stop a process

You can maintain multiple processes at the same time.

The equivalent direct command is

<u>MAN</u>AGE <u>PROC</u>ESS

The sort sequence being used by a process is indicated in the Sort Seq column:

For process type	Sort Seq. contains the descriptor currently being
reorder Data Storage	reordered*
invert descriptor	inverted
reorder Associator	reordered

* When reordering Data Storage for a file, the default sort sequence is physical sequence or "PHY". Other possible options include "ISN" if the file is to be sorted in ISN order, or the two character descriptor name to sort the file according to the value of the specified descriptor.

The Current RABN/ISN column shows the progress of work:

For process type	Current RABN/ISN displays the current
reorder Data Storage	RABN being processed
invert descriptor	ISN, as this function works in ISN sequence
reorder Associator	(left blank)

9 Maintain the User Table

Note: This option is available in Adabas nucleus cluster environments only.

When option "V" (User Table Maintenance) is selected, the following screen is displayed:

```
***** A D A B A S BASIC SERVICES *****
10:39:29
                                                       2005-11-24
                    - User Table Maintenance -
                                                       PACIV02
                  Code Service
                   - - - -
                         С
                         Begin CLUFREEUSER process
                   ?
                         Help
                         Exit
                   .
                         Code .....
       TNA ..... 0_
       UID .....
       Force ..... _
       Global ..... _
       Database ID .. 1955 (WIS1955)
                                           NucID .. 1022
Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
               Exit
                                                      Menu
```

The CLUFREEUSER command is only valid in cluster environments. It can be issued against the local nucleus only or, with the Global option, against all active and inactive nuclei in the cluster.

The command is used to delete leftover user table elements (UTEs) in common storage that are no longer associated with user queue elements (UQEs) in a nucleus where:

TNA	is a decimal number specifying the timeout value in seconds. UTEs that are not used during the time specified may be deleted if other conditions are fulfilled. If TNA is not specified, UTEs may be deleted without regard to their recent use.		
UID	is a character string or hexadecimal byte string as follows:		
	сссссссс	where the argument is 1-8 letters, digits, or embedded '-' signs without surrounding apostrophes.	
	'ccccccc'	where the argument is 1-8 characters with surrounding apostrophes.	
	X'xxxxxxxxxxxxxx	where the argument is an even number of 2-16 hexadecimal digits enclosed by apostrophes and preceded by an X.	
	A character string must be enclosed in apostrophes if it contains characters other than ledigits, or embedded '-' signs. If a specified character string is less than 8 characters long, implicitly padded with blanks. If a specified hexadecimal string is shorter than 16 hexaded digits, it is implicitly padded with binary zeros. If the last 8 bytes of a user's 28-byte communication ID match a specific user ID or user ID prefix, that user's UTE may be de other conditions are fulfilled. If UID not specified, UTEs may be deleted regardless of the IDs.		
FORCE	Delete leftover UTEs even if the users are due a response code 9, subcode 20. If FORCE is not specified, such UTEs are not deleted. Before using the FORCE parameter, ensure that the users owning the UTEs to be deleted will not expect any of their transactions to remain open. Specify FORCE on this screen by marking the Force field with any character.		
GLOBAL	Delete leftover UTEs t and are eligible accord rules, delete leftover U is not specified, only U elibigle for deletion. S character.	throughout the Adabas cluster if they are no longer associated with UQEs ling to the other specified parameters. Additionally and subject to the other JTEs if their assigned nuclei have terminated since their last use. If GLOBAL UTEs assigned to the local nucleus and used since the nucleus start are Specify GLOBAL on this screen by marking the Global field with any	

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