CA-7®

Personal Scheduling Reference Guide

3.3

Contents

Chapter 1. Using CA-7/PERSONAL SCHEDULING

CA-7/PERSONAL SCHEDULING (CA-7/PS) is designed to extend the functionality of scheduling jobs to virtually anyone within a company who has access to a terminal connected to their mainframe. It is an easy way to set up and monitor jobs without having to spend much time learning to use the various extended functions that are available in CA-7.

Functions provided by CA-7/PS:

- Add a job to CA-7

- Schedule the job to run on a date/time basis

- Run a onetime job without having to add it to CA-7

- Run a job in sequence with another job

- Display the last time a job ran

- Display the next time the job will be scheduled

- Display information about a job that is currently running (or about to run)

- Delete previously defined jobs

1.1 Panel Descriptions

CA-7/PERSONAL SCHEDULING panel

```
------------------------ CA-7 / PERSONAL SCHEDULING ------ yy.ddd / hh:mm:ss

   FUNCTION===>                 (ADD,LIST,UPD,DEL,SUBMIT,STATUS,QUIT)

                    JOBNAME =>
                    JCL ID =>        JCL LIB =>

             WHEN TO SCHEDULE:
                PATTERN     =>
                TIME TO RUN =>            (0001-2400)

             JOB RUNS AFTER =>           (JOBNAME - SUBMIT ONLY)


        - - - - - - - STATUS INFORMATION (DISPLAY ONLY)  - - - - - - -




   MESSAGE:  PS00-00 ENTER THE DESIRED FUNCTION AND JOB INFORMATION.
```

Field	Description
FUNCTION	Determines what action is taken when Enter is pressed. Available FUNCTIONS are:

ADD   Adds the job to CA-7. Note the following defaults (using the CA-7 CPU Job Definition panel for field names): the JOBNET field defaults to the PATTERN name if one is entered, the SYSTEM field defaults to CA7PS, the OWNER field is the USERID of the person adding the job and the UID is the UID of the person adding the job. All other defaults are taken from the Personal Scheduling or regular DEFAULTS job as defined at your installation.

LIST   Lists the information that has previously been defined to CA-7 using the ADD and/or UPD functions.

UPD   Updates the CA-7 information about the job with the information provided in the other fields on this panel. If external security is used, the person updating must have the same USERID as the OWNER field on the JOB panel and the same UID (coids are not honored).

DEL   Deletes all of the job's information from CA-7.

SUBMIT Submits the job listed in the JOBNAME field to the CPU. It runs without waiting for the scheduled date/time. The PATTERN field is not honored with this function. This function can be used to run a job without having to set up a PATTERN and TIME for the job to be scheduled. The TIME field may be used to establish a submission time of day within the next 24 hours. The JOB RUNS AFTER field can be used to cause the job to wait on the execution of another job that runs under CA-7 control. To add the job to the database, the ADD function must be used.

STATUS Displays the current information about the job. This may include information about when the job last ran, when it is scheduled to run next, and current status if the job is executing or waiting to be submitted. The information is displayed on the lower half of the panel, below the STATUS INFORMATION line. These are the possible messages that can be displayed:

- JOB IS NEXT SCHEDULED AT hhmm ON yy.ddd

- JOB LAST RAN AT hhmm ON yy.ddd

- JOB IS WAITING FOR JOB xxxxxxxx

- JOB IS AWAITING EXECUTION

- JOB IS ACTIVE ON CPU

- JOB DOES NOT CURRENTLY HAVE A SCHEDULE

- JOB IS NOT DEFINED IN THE CA-7 DATABASE

QUIT Terminates the current session with CA-7.

JOBNAME Indicates the job on which the indicated function will be performed. The field may be 1-8 alphanumeric characters. Required.

JCL ID Identifies the JCL data set which contains the execution JCL to be submitted. If used, the value must be a numeric INDEX associated with the desired JCL data set (on the JCL statement in the initialization file). The numeric INDEX specified must be a number between 0 and 253. Refer to the *CA-7 Systems Programmer Guide* for further information on the initialization file. This field or the JCL LIB field is required if the job is not defined in the database. JCL ID and JCL LIB are mutually exclusive.

JCL LIB Identifies the JCL data set which contains the execution JCL to be submitted. If used, the value must be a symbolic INDEX associated with the desired JCL data set (on the JCL statement in the initialization file). Refer to the *CA-7 Systems Programmer Guide* for further information on the initialization file. This field or the JCL ID field is required if the job is not defined in the database. JCL ID and JCL LIB are mutually exclusive.

PATTERN   Indicates the days that this job is going to run. Each site has a unique set of PATTERN jobs defined that give you flexibility in scheduling your jobs. Optional.

If PATTERN is input and it is the same as the one already defined, then no changes are made to the job's schedule, even if the schedule of the PATTERN job has changed. To delete a PATTERN, enter =D in the PATTERN field and use the UPD function.

TIME   Indicates the time of the day(s) that this job is submitted. This value may be specified from 0001 (one minute after midnight) through 2400 (midnight). Make sure that you specify the correct hour (3:00 PM is actually specified as 1500). Required if PATTERN is used.

TIME may also be used with the SUBMIT function to demand a job to be submitted in the next 24 hours. If the time of day specified is less than the current time of day, the job is submitted at that time on the following day.

JOB RUNS AFTER

Used to indicate that the job you are submitting must wait for another job to complete before it can run. This allows you to establish sequencing for the job. This field is only valid with the SUBMIT function. Optional.

1.2 Accessing CA-7/PERSONAL SCHEDULING

To access CA-7/PS:

1. Log on to CA-7. This may be accomplished several ways. CA-7 may be accessed directly from your site's VTAM panel, through a session manager, or through TSO/ISPF. When you have logged on to CA-7 successfully, a panel similar to the one below is displayed.

```
   --------------------------CA-7 PRODUCTION SYSTEM--------------------------

 PLEASE ENTER LOGON DATA OR PRESS PF3 TO DISCONNECT



 USERID       :               TERMINAL NAME : TRM001      DATE  : 00.070
 PASSWORD     :               VTAM APPLID    : CA7         TIME  : 12:02:52
 NEW PASSWORD :               LUNAME         : A99L100     LEVEL : V3.3 (yymm)
 UID RESOURCE :
 PARMS        :
                      CCCCCCCCCC  AAAAAAAAAA      77777777777
                     CCCCCCCCCCC  AAAAAAAAAA      77777777777
                     CCC        AAA     AAA            7777
                    CCC          AAAAAAAAAA   0000     7777
                   CCC           AAAAAAAAAA   0000     7777
                  CCC          AAA     AAA            7777
                 CCCCCCCCCC  AAA     AAA            7777
                CCCCCCCCCC  AAA     AAA           7777

                           COPYRIGHT (C) 1988, 2000
                       COMPUTER ASSOCIATES INTERNATIONAL, INC.
```

2. Press Enter to display the following CA-7 Function Menu.

```
-------------------------- CA-7 FUNCTION MENU -----------------------------
FUNCTION ===>

   APA  - AUTOMATED PERFORMANCE ANALYSIS
   AR   - AUTOMATED RECOVERY FACILITY
   DB   - DATA BASE MAINTENANCE
   QM   - QUEUE MAINTENANCE
   RM   - VIRTUAL RESOURCE MANAGEMENT
   UT   - UTILITIES
   PS   - PERSONAL SCHEDULING

   HELP - TUTORIAL






 PROGRAM: MNU0   MSG-INDX: 00   -- MENU     --   00.200 / 09:44:37
 MESSAGE: SPECIFY DESIRED FUNCTION OR ENTER A COMMAND ON THE TOP LINE
```

3. Type PS from the CA-7 Function Menu. Press Enter. The CA-7/PERSONAL
   SCHEDULING panel is now displayed and you are ready to perform any of the
   CA-7/PS functions.

Note: The PS command can also be used at the top line of any panel to display the
CA-7/PS panel.

1.3 Adding a Job

```
----------------------- CA-7 / PERSONAL SCHEDULING ------ yy.ddd / hh:mm:ss

FUNCTION===>  ADD          (ADD,LIST,UPD,DEL,SUBMIT,STATUS,QUIT)

                 JOBNAME => MYJOB
                   JCL ID => 1     JCL LIB =>

              WHEN TO SCHEDULE:
                 PATTERN    => DAILY
                 TIME TO RUN => 0800      (0001-2400)

              JOB RUNS AFTER =>          (JOBNAME - SUBMIT ONLY)


    - - - - - - - STATUS INFORMATION (DISPLAY ONLY) - - - - - - -





  MESSAGE: PS00-00  ENTER THE DESIRED FUNCTION AND JOB INFORMATION.
```

This panel shows the information that is used to schedule a job. The fields that are filled in are:

- FUNCTION

- JOBNAME

- JCL ID or JCL LIB

- PATTERN

- TIME TO RUN

The information supplied will cause the job to be submitted on a daily basis at 8:00 AM. The PATTERN name of DAILY may not be defined at your site, but there is probably an equivalent one set up. When the job is submitted, the JCL will be copied from the JCL library defined at your site with an index of 1.

1.4 Submitting a Job

```
----------------------- CA-7 / PERSONAL SCHEDULING ------ yy.ddd / hh:mm:ss

FUNCTION===>  SUBMIT        (ADD,LIST,UPD,DEL,SUBMIT,STATUS,QUIT)

                 JOBNAME => MYJOB2
                   JCL ID => 1     JCL LIB =>

           WHEN TO SCHEDULE:
             PATTERN     =>
             TIME TO RUN =>           (0001-2400)

           JOB RUNS AFTER => MYJOB    (JOBNAME - SUBMIT ONLY)


    - - - - - - - STATUS INFORMATION (DISPLAY ONLY) - - - - - - -




   MESSAGE: PS00-00  THE SUBMIT WAS SUCCESSFUL.
```

This panel shows the information that is used to run a job. The fields that are filled in are:

- FUNCTION
- JOBNAME
- JCL ID or JCL LIB
- JOB RUNS AFTER

The information supplied will cause the job to be submitted by CA-7 without having to wait for scheduling by date/time criteria. The JOB RUNS AFTER field causes CA-7 to verify that MYJOB runs before MYJOB2 will be submitted to the CPU.

1.5 Displaying a Job's Status

```
----------------------- CA-7 / PERSONAL SCHEDULING ------ yy.ddd / hh:mm:ss

FUNCTION===>  STATUS        (ADD,LIST,UPD,DEL,SUBMIT,STATUS,QUIT)

                  JOBNAME => MYJOB
                   JCL ID =>       JCL LIB =>

            WHEN TO SCHEDULE:
               PATTERN    =>
               TIME TO RUN =>           (0001-2400)

            JOB RUNS AFTER =>           (JOBNAME - SUBMIT ONLY)


     - - - - - - - STATUS INFORMATION (DISPLAY ONLY) - - - - - - -

                  - JOB IS NEXT SCHEDULED AT hhmm ON yy.ddd
                  - JOB LAST RAN AT hhmm ON yy.ddd
                  - JOB IS ACTIVE ON CPU




   MESSAGE: PS00-00  STATUS SUCCESSFUL.
```

This panel is an example of the STATUS function. The fields that are entered are:

- FUNCTION
- JOBNAME

The status indicates the next date/time that the job is going to be scheduled to run, the
last date/time that it ran, and any current information if the job is in the process of being
run.

Note: If the job was not added through the Personal Scheduling panel, the time on the
JOB IS NEXT SCHEDULED AT will be all zeros.

1.6 Implementing CA-7/PS

The steps required to implement CA-7/PERSONAL SCHEDULING are:

1. Define the USERIDs to CA-7 that will be using CA-7/PS.

   If CA-7 internal security is being used, the current Security module must be modified to allow access to the PS00 application. The access levels required are shown below. See the *CA-7 Security Guide* for more information about the internal security module.

   If command and panel access is being controlled using the CA-7 External Security Interface, the resource for the new panel may need to be defined to the security package. The USERIDs that will be accessing CA-7/PS must be given access to the CA-7 application as well as the resource listed below, with the appropriate access level.

Panel ID	Resource Name	Access Level	Functions
PS	L2PS	READ(5)	STATUS,LIST
		ADD (10)	ADD
	UPD (10)	UPD	
	DEL (10)	DEL	
		SUBM (10)	SUBMIT
		None	QUIT

2. Set up the PATTERN jobs.

   The CA7PSBTI member of SAMPJCL contains sample Batch Terminal commands to define several PATTERN jobs to CA-7. The sample commands will add them to the CA-7 database, define their schedules, and RESOLV the schedules. The following is a list of the PATTERN jobs that are defined in the SAMPJCL member CA7PSBTI:

   DAILY Every available processing day of the calendar used.

   MON Mondays.

   TUES Tuesdays.

   WED Wednesdays.

   THU Thursdays.

   FRI Fridays.

   FIRST First day of the month (actual or relative based on calendar used).

   LAST Last day of the month (actual or relative based on calendar used).

Before using the CA7PSBTI member as input to the CA-7 batch terminal, do the following:

- Verify that there are no jobs already defined to the CA-7 database with the above names. If there are, simply change the job names in the sample CA7PSBTI member. Note that the jobs are not going to be scheduled by CA-7 because their schedules are turned off with the DONT SCHEDULE BEFORE field set to 99999.

- Supply valid SCAL values where SCAL is specified. The calendar (SCAL) specified will determine whether the FIRST and LAST will be actual or relative days (based on the specification of the OPTIONS=SCHDYONLY value) and whether DAILY will include Saturdays and Sundays or only weekdays.

After running a batch terminal with the sample member, verify that the commands were processed correctly without errors by examining the job's output. After this verification is complete, the installation is complete and the implementation is well under way.

3. Define Personal Scheduling Defaults Job (optional).

You may establish a DEFAULTS job specifically for personal scheduling. If you choose not to, defaults are taken from the regular CA-7 defaults job. For example, you may want all Personal Scheduling jobs to be MAINT=Y while your production work is normally MAINT=N. To establish a Personal Scheduling defaults job:

- Define the job to the CA-7 database using the DB.1 panel. Remember that some information (such as SYSTEM, OWNER, and UID) are always overridden when a Personal Scheduling job is ADDed.

- In your CA-7 initialization file, add the following keyword to the DBASE statement:

  DEFAULTPS=jobname

4. Code Personal Scheduling Verification Exit (optional).

Refer to the *CA-7 Systems Programmer Guide* for information on adding and implementing an exit to allow you to enforce local standards and conventions.

1.6.1 Defining Additional PATTERN Jobs

If any other PATTERN streams are desired, simply define them using the batch terminal or using the CA-7 online system. When defining any additional jobs, the following items should be considered:

- Add the jobs with EXEC=N and DONT SCHEDULE BEFORE=99999.

- Schedule the PATTERN job as desired using the CA-7 CPU JOB SCHEDULING panel. A PATTERN job may have up to 2 SCHIDs defined.

- Ensure that the schedules are RESOLVed.

Note: The PATTERN jobs should have no more than two SCHIDs defined.

1.7 CA-7/PS Messages

PS00-00   **ENTER THE DESIRED FUNCTION AND JOB INFORMATION.**

Explanation: This is the prompt to request input information.

User Response: Self-explanatory.

PS00-00   **THE xxxxxx WAS SUCCESSFUL.**
[nnn DATASET(S) DELETED]
['DEFAULTS' JOB USED]

Explanation: The requested function was successful. The xxxxxx indicates the function that was performed. If the DELete function was entered, the number of related data sets that were deleted is denoted by nnn. 'DEFAULTS' JOB USED will be appended to the message, if an ADD function was done and a DEFAULTS job was found in the database.

User Response: None.

PS00-01   **A SERIOUS ERROR OCCURRED. ERROR CODES: WIP - xx RC - yy**

Explanation: An error has occurred attempting to process the requested function.

User Response: Report this error, with the diagnostic information, to your site's CA-7 technical staff.

PS00-02   **THE JOB WAS NOT FOUND.**

Explanation: The requested job was not found on the CA-7 database.

User Response: Check for correct input. If in error, correct and retry.

PS00-03   **FUNCTION NOT SUCCESSFUL - DATABASE IS OUT OF SPACE.**

Explanation: Part of the database is full and the attempted function could not be completed successfully.

User Response: Report this error to your site's personnel responsible for CA-7 maintenance.

PS00-05   **THE xxxxxxxxxxxxx DATA WAS INVALID OR OMITTED.**

Explanation: The xxxxxxxxxxxxx will indicate which field on the panel is causing the error.

User Response: Check for correct input. Ensure that all of the necessary fields were filled in with valid information. If JOBNAME, then check to see if the first seven characters of the jobname match the CA-7 log dump jobname.

PS00-07   **THE JOB ALREADY EXISTS.**

Explanation: An ADD function was requested for a job that is already defined in the CA-7 database.

User Response: If changes need to be made to an existing job, use the UPD function.

PS00-08   **YOU ARE NOT AUTHORIZED TO ACCESS THAT JOB.**

Explanation: A function was requested for a job with a USERID (OWNER on the CPU JOB DEFINITION panel) or a UID that does not match yours.

User Response: If you should have access to the job, then update the OWNER field on the CPU JOB DEFINITION panel with your USERID.

PS00-09   **YOU ARE NOT AUTHORIZED TO DO THAT FUNCTION.**

Explanation: You do not have the level of authority required to enter the desired function.

User Response: If you should be able to enter the function, contact your security administrator.

PS00-11   **THE JOB IS NOT IN THE JCL LIBRARY SPECIFIED.**

Explanation: The JCL member was not in the JCL library referenced.

User Response: Verify the location of the JCL and enter the correct JCL index. A /DISPLAY,ST=JCL topline command in CA-7 will show the JCL data sets and the index number associated with them.

PS00-12   **THE SPECIFIED PATTERN IS NOT FOUND.**

Explanation: The PATTERN that was entered is not defined to CA-7.

User Response: Perform the function with a valid PATTERN name.

PS00-13   **THE PATTERN SCHEDULE IS INVALID.**

Explanation: The PATTERN that was entered is either not RESOLVed or has more than 2 SCHIDs associated with it.

User Response: Perform the function with a valid PATTERN name.

PS00-15   **PATTERN AND TIME MUST BOTH BE SPECIFIED.**

Explanation: These fields are both required if either one is entered.

User Response: Perform the function again with valid data in both PATTERN and TIME fields.

PS00-16   **REQUEST REJECTED BY SASSXX14 USER EXIT**

Explanation: Your installation user exit has rejected the request.

User Response: The line following this message contains a message from the installation user exit indicating why the request was rejected. Correct the problem(s) indicated and reissue the request.

PS00-20   **JOB IS NOT DEFINED AND NO JCL ID OR JCL LIB WAS SUPPLIED.**

Explanation: A SUBMIT function was entered for a job that is not defined to CA-7 and no JCL ID or JCL LIB was specified.

User Response: If the job is not defined in the CA-7 database, then the JCL ID or the JCL LIB must be entered.

PS00-21   **THE JOB CAN NOT BE SUBMITTED.**

Explanation: A SUBMIT function was entered for a job that cannot be brought into the CA-7 Request queue.

User Response: Contact your CA-7 administrator, who may try a DEMAND command to produce other messages.

PS00-22   **CAN NOT RETRIEVE THE JCL FOR THE JOB.**

Explanation: A SUBMIT function was entered for a job and there was a problem accessing the JCL.

User Response: Contact your CA-7 administrator, who may try a DEMAND command to produce other messages.

PS00-23   **CAN NOT RETRIEVE THE JCL FROM THE OVERRIDE LIBRARY.**

Explanation: A SUBMIT function was entered for a job that is set up to execute from the override library and there was a problem submitting that JCL.

User Response: Verify that the member exists in the override library (index 254). If the JCL should not be in the override library, then the CPU JOB DEFINITION panel should be updated changing the USE-OVRD LIBRARY from Y to N and resubmit. You may need to contact your CA-7 administrator to do a DEMAND command to produce different diagnostic messages.

PS00-24   **A JOB IS ALREADY SCHEDULED WITH THE SAME DUE OUT TIME.**

Explanation: A SUBMIT function was entered for a job while the same job is in the CA-7 queues with the same due-out date and time.

User Response: If duplicate job entries are desired in the CA-7 queues, wait a few minutes and perform the SUBMIT function again.

PS00-25   **AN ERROR OCCURRED RETRIEVING THE SCHEDULE FOR THE JOB.**

Explanation: The PATTERN job's schedule is in error.

User Response: Contact your CA-7 administrator to determine the problem with the PATTERN job's schedule.

PS00-26   **CONFLICT IN JCLID AND JCLLIB FIELDS**

Explanation: The JCL library for a job can only be specified by a JCLID or a JCLLIB, not both.

User Response: Specify either a JCLID or a JCLLIB and reenter.

PS00-99   **AN INVALID MESSAGE NUMBER WAS SPECIFIED.**

Explanation: An undefined message index number has been produced.

User Response: Contact your CA-7 administrator who may need to contact CA-7 Technical Support.

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