AJS
Technology, Inc.

AJS PC Host Software

Operator's Manual

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OPERATOR'S MANUAL

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START- UP

The PC should be configured with a boot-up AUTOEXEC.BAT file that will execute AJS.EXE when the PC is turned on. Normal PC system configurations such as PATH, PROMPT, TIME SET, etc., should be included in the boot file. This allows an operator to easily restart the AJS program should a lockup or power failure disrupt the program.

The following applies only if you have the AJS Switcher System. As the AJS PC Host Software is initializing, the user is presented with the copyright screen and a prompt to select SWITCHER <S> or DIRECT (D) operation. The selection defaults if any key except (D) is hit or after one minute if no key is hit.

If you do not have the AJS Switcher System, wait for the beep and then hit any key (will time-out after 1 minute if no key is hit and continue on). After a key is pressed the screen will display the header lines and the printer will eject a page, then print the top header line. If an assigned printer is not on-line at this time, a prompt will appear stating which printer is being backed up to disk. The prompt will clear by pressing the "*" key. Check the printer for proper operation, and if necessary restore it to an on-line status after the program begins by selecting Printer Setup from the Supervisory Functions menu.

SIGN-ON

After the prompt selection is made the header will appear with the PASSWORD prompt. Enter your system's password followed by the [ENTER] key; note that the characters will not be displayed on the screen. If the password is correct the next prompt displayed will ask for the operator's IDENTIFICATION. This IDENTIFICATION is an alpha-numeric password (up to 10 characters) that has been preassigned to the operator's initials along with an access level. Correct entry of the operator's IDENTIFICATION followed by the [ENTER] key will place the operator's initials in the header and display the MAIN MENU screen. The PC should now be signed on.

To verify PC start-up and sign-on, observe the following on the printer:

```
PC SYSTEM RESTARTED 04-12-1989 12:33:31
12:22   OPERATOR ABC SIGNED ON
```

2. Data from the Delta(s) can be observed in the lower left corner of the screen, in the "real-time" window.

The initial default Password is HELLO. The initial default Identification is 1234.

MAIN MENU

The AJS program will display the MAIN MENU on start-up. This menu consists of several user functions for setup and operation of the AJS program as shown below:

```
****** MAIN MENU ******
1 Function Code Programming
2 Logs
3 Supervisory Functions
4 Graphic
5 Historical
6 Card Access
7 Convert Trend File
8 Messages
9 Intercom
10 Sign-off
11 Print programs
12 EXIT TO DOS
```

The selections in the MAIN MENU are described elsewhere. Please check the Supervisory Manual for more information.
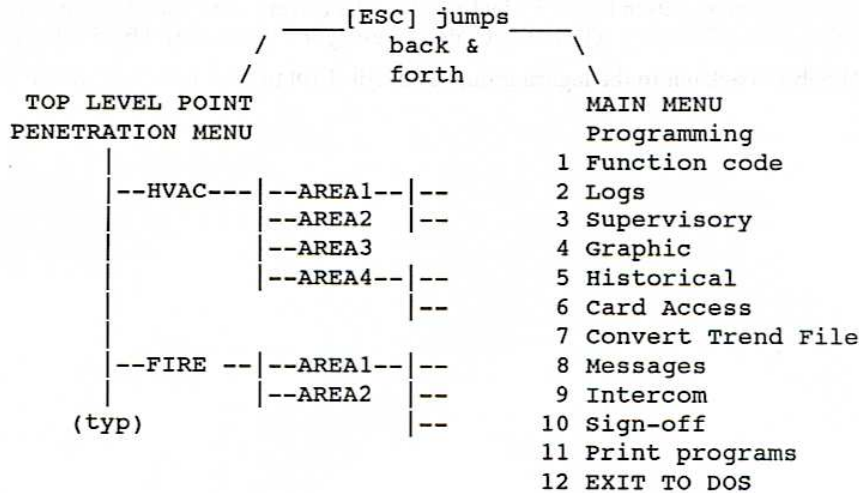
POINT PENETRATION MENU

From the MAIN MENU display, hitting the [ESC] key will present the POINT PENETRATION MENU. This is the user programmable menu for penetration through the points and descriptions specific to your automation systems.

Below is an example of a top level Point Penetration Menu:

```
1 HVAC
2 FIRE
3 SECURITY SYSTEMS
4 MAINTENANCE MANAGEMENT
5 WEATHER
6 PANEL RESETS
```

The following diagram shows the relationship between the MAIN MENU and the POINT PENETRATION MENU. Pressing the [ESC] key will jump between the MAIN MENU and the top level of the POINT PENETRATION MENU.

```
                           ____[ESC] jumps____
                        /        back &        \
                      /          forth           \
        TOP LEVEL POINT                       MAIN MENU
        PENETRATION MENU                      Programming
             |                              1 Function code
             |--HVAC---|--AREA1--|--         2 Logs
             |         |--AREA2  |--         3 Supervisory
             |         |--AREA3              4 Graphic
             |         |--AREA4--|--         5 Historical
             |                   |--         6 Card Access
             |                              7 Convert Trend File
             |--FIRE --|--AREA1--|--         8 Messages
             |         |--AREA2  |--         9 Intercom
           (typ)                 |--        10 Sign-off
                                            11 Print programs
                                            12 EXIT TO DOS
```

PENETRATION THROUGH ANY MENU

Enter your choice (one of the displayed numbers) then hit the ENTER key. Be sure the [Num Lock] key is on if using the keypad. Pressing the [ESC] key will first cancel any keystrokes then back you out. Hitting [ESC] at the top of either menu will put you in the other menu as shown in the above diagram.

If you are in the POINT PENETRATION MENU and a logical group is displayed, the point value windows will begin updating from the Delta. These values are automatically updated periodically if the logical group (or graphic) is left displayed on the screen.

A backtrace message is usually displayed which shows the previous paths taken at any instant of time. The concept is very similar to the DOS prompt which displays the current directory.

SINGLE POINT MODE

The furthest penetration level within the POINT PENETRATION MENU is the single logical point. When a single point is chosen from a list of logical points within a logical group the following items are displayed:

1. Command (if commandable)

2. Display various point information (dependent on point type):
   alarm limits
   point type (automatically updates PC)
   associated relay number
   priority bit
   event initiated program that is initiated directly by this point
   type of initiation performed on the above event initiated program
   view associated action or trouble action message (fully chained message).

To command a point, wait for the Delta to update the PC as to what type of point this is. If this point is commandable, the command choices are displayed. Choose the appropriate number and hit [ENTER] then the [Spacebar] to confirm.

It is possible to see what the associated action messages are for any logical BEFORE it goes into alarm. This also provides a further degree of documentation for individual points. The alarm or trouble message may be viewed by hitting A or T respectively then [ENTER]. The entire chained message (if chained) will be displayed.

Hit [ESC] or [ENTER] only to back out to the logical group level. Hit [F10] to back out to the very top ("fast escape key").

SPECIAL KEYS

EDIT KEYS:

Use [HOME], [END], [ESC], [BACKSPACE], [<-], [->], [INSERT] AND [DELETE]. These keys work for all input screens resulting in easy editing of user input data.

[+] and [-] KEYS:

Hit the [+] or [-] key to advance or backup (either at the logical group or the logical point level).

FUNCTION KEYS (or "hot keys"):

F1 = Help (new alarm overrides help)
F2 = Display last 50 alarms
F3 = Clear display
F4 = Printer - eject new page
F5 = Function code
F6 = Display graphic (toggle)
F7 = Shell to DOS (temporary exit)
F8 = Abort log
F9 = Acknowledge
F10 = Point Penetration Menu (Fast Escape)

ALT-F8 = Toggle screen size between 25 lines and 43 lines

[F1] ACTIVATING HELP:

The AJS program provides on-line help for all menu selected functions. To activate the HELP SCREEN, just press [F1]. If there is more help available than will fit on one screen just press any key to continue to the next part. As you move through different parts of the system, the HELP MENUS will change accordingly.

Press [ESC] or [F1] to cancel the help screen at any time.

You may notice that if a HELP SCREEN is being displayed when a new alarm comes through, the HELP SCREEN will automatically yield to the new alarm. After you view this alarm, just hit [F1] again if desired.

[F2] DISPLAYING LAST 50 ALARMS:

The [F2] key allows you to view the last 50 alarms. Hit [ENTER] once to jump all the way to the last page of alarms. Hit [ENTER] again to clear out screen. When a new alarm comes in, it will scroll up from the bottom of the screen.

[F3] CLEAR DISPLAY:

The will clear the screen, clearing out the alarm lines. Hit [ESC] to display a menu.

[F4] PRINTER - EJECT NEW PAGE:

Hitting this key will cause your printer to eject a new page. If there are 2 printers, it will prompt for the printer number first.

[F5] FUNCTION CODE:

A function code template will be displayed when this key is hit. If there are more than one Delta, it will prompt for the desired Delta. This key may be hit from anywhere in the AJS PC Host Software except when displaying the last 50 alarms, displaying a graphic, or shelled to DOS. Hit [ESC] to back out and restore the screen to exactly where it was before [F5] was hit.

[F6] DISPLAY GRAPHIC:

After reaching the desired POINT PENETRATION MENU level simply hit the [F6] key to "turn on" the graphics mode. You may now move around the system and stay in graphics mode simultaneously! You may even choose a logical point number and command a point then hit [ESC] again and the graphic will reappear.

If you penetrate to a level where a graphic is not associated, graphic mode will automatically terminate and the menu or logical group will be displayed in normal text mode.

Hit the [F6] key a second time and the graphics mode will be disabled. Graphics will also be disabled if you hit the [ESC] enough times until the MAIN MENU is displayed or if you penetrate to a menu or group that does not have a graphic name associated with it (blank name).

A note to WINDOWS users: If you run the AJS PC Host Software under WINDOWS you should should encounter no problems while in TEXT mode. But if you want to pop up a graphic you must first hit ALT-ENTER so that the program takes over the screen. Then you can hit the F6 key. Terminate graphics (F6 again) before you hit ALT-ENTER again to return to normal WINDOWS mode. Refer to your WINDOWS manual for more detail.

[F7] SHELL TO DOS:

This allows a temporary exit from the AJS PC Host Software so that off-line functions can be performed:
  running a word processor to edit SENDFILES;
  performing hard disk maintenance;
  viewing directories.

An important note is that the AJS PC Host Software is "suspended" and will not process change of states until restarted.

Type EXIT followed by [ENTER] to exit DOS and restart the AJS software.

If you experience problems with the screen display when trying to run a word processor, type MODE CO80 [ENTER] when shelled to DOS. This forces the system to video page 0.

[F8] ABORT LOG TO PRINTER:

When running an all points log or an alarm summary log to the printer, hit [F8] if you want to cancel the report.

[F9] ACKNOWLEDGE:

When the Delta sends an alarm to the PC, it should be acknowledged by pressing the [F9] key. Repeat this process every couple of seconds until you see asterisks at the bottom off the screen followed by the AJS Copyright statement.

[F10] POINT PENETRATION MENU (FAST ESCAPE):

This key performs the same thing as if you kept hitting the [ESC] key until the AJS software reaches the top of the current menu. It will not cross over between the MAIN MENU to the POINT PENETRATION MENU.

[ALT-F8] TOGGLE SCREEN SIZE

It is possible to get more lines of data on the CRT screen (depending on monitor type) by holding the ALTernate key down then pressing the F8 key. This will activate the 43 line mode if your monitor is at least EGA. If this is repeated and your monitor is VGA, then the screen size will become 50 line mode. Hit ALT-F8 again and the screen size returns to 25 lines.

LOGS

Path is Main Menu / Logs.

BACKGROUND:

Any of the following logs may be generated. These LOGS may be sent to the screen or printer. If you want to terminate a log that is going to the screen, just hit [ESC]. If the log is going to a printer, hit the [F8] key (background printing mode).

ALL POINT LOGS:

A report may be generated showing all the points or a subsystem of points. Further segregation by point type may be imposed to force only certain kinds of points to show up on the report. For example, you may want an all point report of all card access points in Building 3. This report may be directed to the screen or a printer.

To execute an ALL POINT LOG, follow the prompts regarding where to send the log as well as segregation (which types of points are desired). The top level penetration menu will then be displayed. You will notice a message at the bottom of the screen asking you to hit the * key. You may penetrate down (as normally done) to any level. When the * is hit, the all point log will yield those points (matching the segregation) that are below this penetration level.

ALARM SUMMARY:

An alarm summary report may be requested showing those points that are currently in alarm. This report is available on one Delta at a time. You may segregate for point type resulting in only those types of points being displayed if in alarm.

To execute an ALARM SUMMARY LOG, follow the prompts regarding where to send the log and segregation (which types of points are desired). Only one alarm summary log is allowed to run at any time.

TREND LOGS:

Under the print program selection of the main menu is where print program files are created. When the Delta sends a print program to the SmartChannel, you have the option whether to save to file and/or send to any printer. These files are used to generate the trend logs. The print program file is reorganized and outputted to the screen or printer in a "trend" arrangement. At the end of this log, you may elect to erase this stored data.

To execute a TREND LOG, follow the prompts regarding where to send the log. Then enter the number of the print program that is desired. If it does not exist, an error will be displayed and you may try again.

At the end of the trend log, you will be asked if you want to erase the print program file. If yes, then the file will be erased and new print program data from the Delta will start at the top of this file. If no, new print program data from the Delta will be appended to the end of the existing file that you just requested. Always consider the total amount of disk space available for storage when allowing large amounts of print program data to be saved.

Hit [ESC] to terminate any trend log (either to screen or printer).

NUMERICAL POINT LOGS:

A report may be generated showing all the PHYSICAL points that are programmed in the Delta 1000. The log format is in point numerical order separated by group addresses. The point descriptors that are attached will be the ones that are displayed when the point goes into alarm. If a point address has no descriptor next to it, then verifiy that it is programmed in a logical group. If so, then simply re-execute the logical point template by doing a change logical point function and just hit [ENTER] until the end. This will allow the PC software to relink its pointers with this physical point address.

PRINTER FAILURE AND RESTORATION:

If a printer fails (runs out of paper, etc.), the printer data is automatically backed up to a file (PTR1.TXT for printer #1 or PTR2.TXT for printer #2). A flashing message warns you of this fact to which you hit the * key to acknowledge it. It will NOT remind you periodically.

When the printer problem is corrected, you may elect to put the printer back on-line.

Penetrate to Main Menu / Supervisory / Printer Setup / Printer On-Line. You will be asked if you want the back-up file to be sent to the printer before going on-line. If yes, all data in the back-up file will be sent to the printer first. If no, the back-up file will be erased and then the printer is restored on-line.

If the backup file is being printed, hit [ESC] to abort this printout.

INTERCOM

Path is Main Menu / Intercom.

Remote intercoms (if applicable to your system) are turned on individually via address of the DGP. All remote intercoms will turn off at the same time (global) when commanded. Follow the prompts.

SIGN-OFF

Path is Main Menu / Sign-off.

For security purposes, it may be required to sign-off of the PC when it is unattended or when changing shifts. Simply choose the Sign-off to accomplish this. The PC will still be running even while it is signed-off. The Display Last 50 Alarms will work even when signed-off.

To sign on, follow the instructions discussed in the SIGN-ON section of this manual.

EXIT TO DOS

Path is Main Menu / Exit to DOS.

Choose this item if complete termination of the AJS PC Host Software is desired.

Always exit to DOS before powering down or rebooting a PC. This gives the software a chance to do its "house-keeping" before terminating.

HISTORICAL LOGS

BACKGROUND:

As data is received from the DELTA (such as alarms, acknowledges, etc.) it is stored in a file on the PC's disk EXACTLY AS IT IS RECEIVED. This data can later be selectively filtered to search for specific occurrences of any condition that is of interest. For example, a log can be generated that show many alarms were received from air handling unit's dirty filter alarm in the last six months.

Logs can be sent to the display, a file on one of the PC's disk drives, or to a printer. Once a record is found that matches the condition that is being searched for, the time of the occurrence, the point number, the condition being searched for (such as alarm, acknowledge, etc.) and the English description of the point (if available) is printed.

Sample Printout:

14:10 MAINTENANCE ALARM X10101 AHU 1 FILTER ... 1ST FLOOR

EXAMPLES OF USES OF HISTORICAL LOGS:

1. Finding occurrences of digital or analog alarms, acknowledgement of alarms, returns to normal, and command failure.

2. Finding occurrences of fire alarms, trouble alarms, acknowledgement of alarms, and returns to normal.

3. Finding occurrences of security alarms, acknowledgement of alarms, returns to normal, and door secure/access commands.

4. Finding occurrences of card access reader intrusion alarms, tamper alarms, acknowledgement of alarms, returns to normal, and door secure commands.

5. Tracking card access activity such as normal activation, invalid card number, unauthorized access level, passback attempt, invalid time slot, lost card in use, reader locked out, deleted card in use, and duress alarm.

6. Tracking patrol tour activity such as normal activation, start of tour, active patrol, end of tour, sequence alarms, delinquent alarms, and premature activation alarms.

7. Finding occurrences of system alarms such as no response, ground fault, AC power loss, transmission fault, and returns to normal. 8. Tracing the commanding of points by manual command, EIP's, CIL, duty cycle programs, and power demand programs.

9. Finding all activity for a specific point or points, even if the point type and engineering unit is unknown.

10. Searching for a specific string of data that is defined by the user. This can be used to find occurrences of operator sign or sign off, or to find the occurrence if conditions such as "AL" for finding any alarm occurrence.

CREATING A HISTORICAL LOG:

In order to create a historical log, the following steps must be taken:

1. Select the CATEGORY to be searched for, such as DIGITAL (DG), ANALOG (AN), CARD ACCESS - READER (CR), CARD ACCESS - CARD (CC), PATROL TOUR (PT), SYSTEM (SY), COMMAND TRACE (CT), POINT ONLY (PO), and USER DEFINED STRING (US).

2. Select the CONDITIONS to be searched for such as ALARM, TROUBLE, RETURN TO NORMAL, ACKNOW-LEDGE, etc. If the CATEGORY is USER DEFINED STRING, then the matching string is entered instead of the CONDITION.

3. Select the ENGINEERING UNITS to be searched for, such as ON/OFF, MNT, DEG, FIR, TBL, etc. If the CATEGORY is CARD ACCESS - CARD then instead of selecting ENGINEER UNIT, the STARTING and ENDING CARD NUMBERS are entered.

4. Select the ADDRESS of the points to be searched for.

5. Select the Starting Date / Time to begin the search and the Ending Time / Date to end the search.

REPEAT LAST HISTORICAL LOG:

Allows the user to repeat the last Historical Log used without having to recreate a new Historical Log.

CREATE NEW HISTORICAL LOG:

Allows the user to define the type of data to be searched for. This includes selecting the CATEGORIES, ADDRESSES, CONDITIONS, ENGINEERING UNITS, and STARTING and ENDING DATES and TIMES.

RUN PREVIOUSLY DEFINED LOG:

Allows a Historical Log Format, once it has been created and saved, to be retrieved from the system disk drive. This can used when the same Historical Log format is used on a regular basis. For example, if a daily Historical Log is run to display Access Control activity, then the log can be saved to the system disk by a unique file name, such as "ACCESS", and can be retrieved on a daily basis without having to CREATE the same Historical Log every day.

CONTINUE INTERRUPTED HISTORICAL LOG:

If a Historical Log is aborted before it is completed, then this function will allow the user to resume the log at the Date/Time where the log was interrupted. If a new Historical Log is created, or a previously defined Historical Log is retrieved after the log was interrupted, but before it can be resumed, then the log cannot be continued.

DISPLAY AVAILABLE ARCHIVE FILES:

Displays a list of Archive files stored on a selected Drive\path. Archive data is stored on the PC's disk in a file containing one day's worth of data. If more than one DELTA is connected to the system, then each DELTA will have its own set of daily activity files. Files are stored on the disk with the following filename format:

MM-DD-YY.X

where MM is the month of the year (01 through 12). DD is the day of the month (01 through 31). YY is the last two digits of the year (i.e. 89 for 1989). X is the letter assigned to represent the logical DELTA.

AUTOMATIC ARCHIVING OF HISTORICAL DATA:

If this function is selected then all CHANGE OF STATE data is automatically stored in a file on the PC's disk AS IT IS RECEIVED FROM THE DELTA. Also, other data is stored in the file, such as operator sign on, telephone in use, etc. If this function is not selected, then Archive data will have to be retrieved from the SmartChannel's buffer by use of a separate off-line program.

EXPLANATION OF THE HISTORICAL LOG TABLE:

```
                    HISTORICAL LOG SUMMARY - FOR DELTA X
 CAT | ADDR  | CONDITION / STRING              | ENG UNIT / CARD NUMBER
=======================================================================
 1.  |       |                                 |
 2.  |       |                                 |
 .   |       |                                 |
 .   |       |                                 |
 .   |       |                                 |
10.  |       |                                 |
```

CAT:

Category of the type of activity we are searching for, such as DG DIGITAL), AN (ANALOG), etc.

ADDR:

DELTA address of the point(s) we are searching for. The * character can be used as a "wildcard" character to replace any digit. Ex. 201** means any point in group 2.01.

CONDITION / STRING:

The CONDITION is the type of activity that is being searched for, such as ALARM (AL), RETURN TO NORMAL (R), etc. The STRING is the group of characters being searched for when the CATEGORY is USER DEFINED STRING (US).

ENG UNIT / CARD NUMBER:

The ENG UNIT is the Engineering Unit assigned to the points that are being searched for, such as MNT, DEG, SEC, etc. Up to 8 engineering units can be listed per line. ALL means any engineering unit that is listed per category will be searched for. CARD NUMBER is used with "Card Access - CARD ACTIVITY" to show what range of card numbers are being searched for.

EXAMPLE OF HISTORICAL LOG SUMMARY:

```
                    HISTORICAL LOG SUMMARY - FOR DELTA X
 CAT | ADDR  | CONDITION / STRING              | ENG UNIT / CARD NUMBER
=======================================================================
 1.DG| 10101 | AL, X, R                        | MNT
 2.AN| 101** | HA,LA                           | DEG
 .   |       |                                 |
 .   |       |                                 |
 .   |       |                                 |
10.  |       |                                 |
```

Line ONE defines a search for DIGITAL (DG) activity on point 10101 for ALARM (AL), ACKNOWLEDGE (X), and RETURN TO NORMAL (R) and the point is assigned an engineering unit of MNT.

Line TWO defines a search for ANALOG (AN) activity on any point in group 101 (i.e. 10101,10102, etc.) for HIGH ALARM (HA) or LOW ALARM (LA) and an engineering unit of DEG.

EXAMPLE OF HISTORICAL LOG SUMMARY:

```
                        HISTORICAL LOG SUMMARY - FOR DELTA X
  CAT |  ADDR  | CONDITION / STRING               | ENG UNIT / CARD NUMBER
  ===============================================================================
  1.PT | ***** | __,AL, X                         | SPT,APT,EPT,SEQ,DLQ,PSA, PT
  2.CC | ***** | __,CN,CA,CE,CT,CX,CL,DL,CD,DA    |  ID / FROM:3000  TO:3999
   .
   .
   .
  10.  |        |                                 |
```

Line ONE defines a search for PATROL TOUR (PT) activity on any address (*****). Conditions searched for are NORMAL activity (__), ALARM (AL), and ACKNOWLEDGE (X). See PATROL TOUR activity for descriptions of the ENGINEERING UNITS.

Line TWO defines a search for Card Access - CARD ACTIVITY (CC) on any address (*****), for any condition (__,CN,CA,CE,CT, etc.) on all cards between 3000 and 3999.

CREATE NEW HISTORICAL LOG:

ALL ALARMS ON ALL POINTS: This is a quick way to create a log of all ALARM conditions on all points Archived for a particular DELTA. It does not include ACKNOWLEDGE, RETURN TO NORMAL, and all normal activity, such as valid access, door secure/access, command trace, normal patrol tour activity, etc. (DG) DIGITAL POINT ACTIVITY: This is used when searching for all digital point activity, such as HVAC and MAINTenance activity, FIRE alarm activity, and SECURITY (NOT CARD ACCESS) alarm activity.

(AN) ANALOG POINT ACTIVITY: Used to search for activity on analog points such as HIGH and LOW alarms.

(CR) CARD ACCESS - READER ACTIVITY: This is used for all CARD ACCESS activity relating to the CARD READER, such as INTRUSION ALARMS, READER TAMPER, DOOR SECURE / ACCESS, etc.

(CC) CARD ACCESS - CARD ACTIVITY: This is used for all CARD ACCESS activity relating to the CARD itself, such as VALID ACCESS, INVALID CARD NUMBER, UNAUTHORIZED LEVEL, PASSBACK, INVALID TIME, INVALID KEYCODE, LOST CARD, READER LOCKED OUT, DELETED CARD, and DURESS ALARM. All activity in this category will display the card number causing the alarm.

(PT) PATROL TOUR ACTIVITY: This is used to create a log of all PATROL TOUR activity. This includes NORMAL START and END OF PATROL TOUR, as well as NORMAL ACTIVATION of patrol tour stations and SEQUENCE, DELINQUENT, AND PREMATURE STATION ACTIVATION ALARMS.

(SY) SYSTEM ACTIVITY: System activity includes GROUND FAULT, AC POWER LOSS, JJJTRANSMISSION FAULT, and NO RESPONSE ALARMS.

(CT) COMMAND TRACE ACTIVITY: If COMMAND TRACE has been enabled AND activity is being sent to the SmartChannel, then this category can be used to track commands being sent manually, or by EIP, CIL, Power Demand, or Duty Cycle programs.

(PO) POINT ONLY: If ALL activity on a particular point (or points) is wanted, without regard to CONDITION, or ENGINEERING UNIT, then this category can be used.

(US) USER DEFINED STRING: Allows the searching of data by seeing if part or all of each Archive record matches a string of characters predefined by the user. For example, entering a MATCH STRING of "AL" would search each record in the Historical file to see if it contained that string.

DEFINE RECORD MATCH:

HIT "Y" to select a particular CONDITION or ENGINEERING UNIT.

HIT "N" to NOT select a particular CONDITION or ENGINEERING UNIT.

HIT [ENTER] for no change to each CONDITION or ENGINEERING UNIT.

The MAXIMUM number of ENGINEERING UNITS that may be INDIVIDUALLY selected is 8.

Selecting ALL ENGINEERING UNITS will allow a search for all the ENGINEERING UNITS available to a particular CATEGORY.

When entering ENGINEERING UNITS hit ACE when no more are wanted.

Next enter the 5 digit DELTA ADDRESS of the point to be searched for. By using the "*" character, more than one address can be searched for at a time. The "*" replaces a particular digit in the address and will match any number representing that digit.

EXAMPLES:

201** will search for any point on channel 2, group 01.
2**** will search for any point on channel 2.
2**01 will search for the first point in any group on channel 2.
***** will match any point in the system.

NOTE: If only part of an ADDRESS is entered, the remaining digits will be padded with asterisks. For instance entering 201 [ENTER] will return as 201**.

STARTING OR ENDING CARD NUMBERS:

This is used when it is desirable to find Access activity for a particular card or a range of cards. Enter the starting and ending card numbers for the desired range of cards.

If all cards are desired hit [ENTER] only for STARTING CARD NUMBER.

If only one card number is desired, then enter that number for STARTING CARD NUMBER, and hit [ENTER] only for ENDING CARD NUMBER.

Also, note that "Wildcard" characters ("*") may be entered in the card number. For example, to select all cards between 3000 and 3999, then "3***" may be entered as STARTING CARD NUMBER, and hit [ENTER] only for ENDING CARD NUMBER.

USER DEFINED STRING:

Allows the searching of data by seeing if part or all of each Archive record matches a string of character predefined by the user. For example, entering a MATCH STRING of "AL" would search each record in the Historical file to see if it contained that string.

ENTER STRING TO SEARCH FOR:

String must be limited to 23 characters, and can be any combination of letters, numbers, and punctuation marks.

Application Hints: To find all the times operators have signed on or off the PC, enter the string "SIGNED". To find all the times the telephone modem was used, enter the string "PHONE".

CHANGES TO HISTORICAL LOG SUMMARY

REMOVE ADDRESS:

Allows the removal of DELTA POINT ADDRESS from the Historical Log Summary. If the ADDRESS that is selected for removal is the only ADDRESS assigned to a particular CATEGORY, then the entire line that contains that ADDRESS and associated CATEGORY is REMOVED. If more than ONE ADDRESS assigned to a CATEGORY, then the ADDRESS selected for removal is removed and all subsequent lines are moved up.

CHANGE LINE INFORMATION:

Allows the user to edit a particular line on the Historical Log Summary so that CONDITIONS, ENGINEERING UNITS, or ADDRESSES can be added or removed from the Summary.

ADD NEW LINE:

Allows the user to add additional CATEGORIES to the Historical Log Summary.

STARTING AND ENDING DATES:

Entered date must be of the form MM/DD/YY or MM-DD-YY where:

MM is the month of the year, a number between 1 and 12

DD is the day of the month, a number between 1 and 31

YY is the last two digits of the year (such as 89 for 1989).

STARTING AND ENDING TIMES:

Entered time must be in 24 HOUR format (i.e 15:00 for 3:00 PM). The Starting Date/Time cannot be greater than the Ending Date/Time.

SAVE HISTORICAL LOG:

Allows a Historical Log Format, once it has been created, to be saved on the system disk drive for later retrieval. This can be used when the same Historical Log format is used on a regular basis. For example, if a daily Historical Log is run to display Access Control activity, then the log can be saved to the system disk by a unique file name, such as "ACCESS", and can be retrieved on a daily basis without having to CREATE the same Historical Log every day.

ENTER LOG NAME:

The log name must be of the form FILENAME.HL where FILENAME be up to 8 characters (must meet MSDOS / PCDOS file naming conventions). The ".HL" extension is assumed if omitted.

HISTORICAL DATA DRIVE\PATH:

If the Archive data is stored on a different drive or in a different path than the \AJS\ARCHIVE directory, then the proper drive\path must be entered.

If the drive\path is to remain the same as the one displayed, then hit [ENTER].

Enter the DRIVE\PATH according to MSDOS\PCDOS convention: DRIVE:Pathname (i.e. C:\AJS\ARCHIVE\ or A:\).

VIEW RECORDS:

If you select "View Records" then the Archive data that is being searched through is displayed in the Archive Window located on line 5 of the display. Since displaying this activity takes a significant amount of time, answering "N" will speed up the Historical log output.

ENTER ADDRESS TO REMOVE:

Enter the 5 digit POINT ADDRESS to be removed exactly as it appears in the Historical Log Summary (including wild card characters [*]). REMOVE ADDRESS allows the removal of a DELTA POINT ADDRESS from the Historical Log Summary. If the ADDRESS that is selected for removal is the only ADDRESS assigned to a particular CATEGORY, then the entire line that contains that ADDRESS and associated CATEGORY is REMOVED. If more than ONE ADDRESS assigned to a CATEGORY, then the ADDRESS selected for removal is removed and all subsequent lines are moved up.

RUN PREVIOUSLY DEFINED LOG:

BACKGROUND:

Run Previously Defined Log allows a Historical Log Format, once it has been created and saved, to be retrieved from the system disk drive. This can used when the same Historical Log format is used on a regular basis. For example, if a daily Historical Log is run to display Access Control activity, then the log can be saved to the system disk by a unique file name, such as "ACCESS", and can be retrieved on a daily basis without having to CREATE the same Historical Log every day.

ENTER LOG NAME:

The log name must be of the form FILENAME.HL where FILENAME can be up to 8 characters (must meet MSDOS / PCDOS file naming conventions). The ".HL" extension is assumed if omitted.

AUTOMATIC ARCHIVING OF HISTORICAL DATA:

If this function is selected then all CHANGE OF STATE data is automatically stored in a file on the PC's disk AS IT IS RECEIVED FROM THE DELTA. Also, other data is stored in the file, such as operator sign on, telephone in use, etc.