Alfaskop System 41

Terminal Console Functions and Customizing Instructions IBM 3270 Emulation

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DATASAAB

Preface

This manual presents a general description of the Alfaskop System 41 terminal console functions available to the user and explains how these functions are used. The customizing procedure is also described.

Specifications in this publication are subject to change or supplementation without notice.

Your Datasaab representative will be pleased to provide you with further information about the Alfaskop System 41.

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Contents

General

The software used in Alfaskop System 41 consists of a number of main modules, the operating system, the emulation software and the terminal-console-functions software. The operating system is always resident in the display unit when the terminal system is in operation. The mode in which the system is operating determines which other software is called in (see below).

The display unit can operate in any of the following modes

- *Ready mode*. Only the operating system is loaded into the display unit.
- *Emulation mode*. The operating system and the emulation software are loaded into the display unit.
- *Console mode*. The operating system and the terminal-console-functions software are loaded into the display unit.

The software used in Alfaskop System 41 is stored on a diskette called the system diskette. System diskettes are produced at Datasaab. The system diskette includes all software intended for the user. However, Datasaab cannot, alone, supply all information needed to have the system function as desired by the user. Supplementary information must thus be entered into the terminal system in cooperation with the user. This is called customizing the diskette, and it includes the following

- Assignment of addresses to the display units, printer units, flexible disk units and communication processors.
- Definition of software that is to be loaded when power is turned on
- Definition of emulation-dependent parameters
- Generation of passwords.

Customizing is carried out using a display unit in the console mode. A display unit in the console mode is also used to control a number of other terminal system functions.

Terminal Console Functions

When the Alfaskop System 41 is in the console mode, the terminal system can be controlled using selected displays which, in turn, make it easy to select different functional branches. This type of control embraces customizing, password generation, autologon definition, dumping and diskette copy operations.

Fig. 1 presents the terminal console functions intended for the users, except for the terminal console functions used in connection with Alfaform. These functions are either presented on the screen as menus from which subfunctions can be selected or presented as forms into which the operator has to enter the requested data.

Descriptions of all terminal console functions intended for an Alfaskop System 41 user are presented below, except for those used in connection with Alfaform. Some terminal console functions and associated menus may be excluded or changed in certain configurations such as single-display-unit configurations.

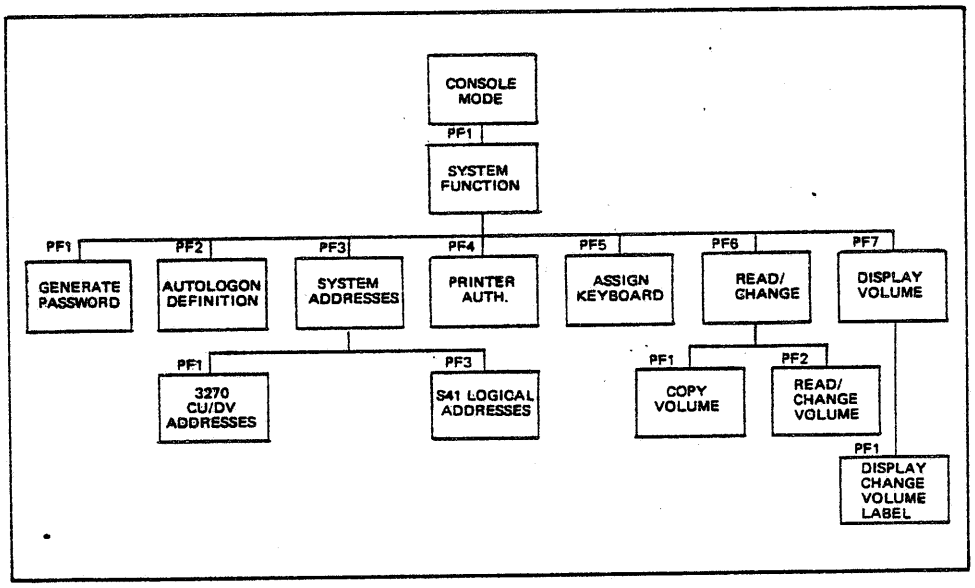


Fig. 1. Diagram of terminal console functions.

To be able to use the terminal console functions, the operator must use a password. This password consists of three characters which can be determined by the user. The system diskette is delivered with a standard password to be used the first time the terminal console mode is selected.

Customizing

Before the customizing procedure can take place the user must define a number of parameters. Information presented in the Appendices entitled Customizing Data can be used as an aid in defining these parameters.

It is recommended that the user appoint a person, who can take responsibility for the Customizing Data forms and other documents needed for maintenance of Alfaskop System 41.

Normally the diskette is customized at the installation site. However, customizing can also be performed anywhere that complete customizing data, the necessary hardware and the system diskette are available.

Follow the instructions below in sequence when customizing system diskettes.

During customizing, data is entered on the system diskette but not loaded into the units. To reload, turn the power off and on or depress the reset button.

Console Mode Logon and Logoff

When power to a display unit is turned on, the following text is presented on the message line

LOAD

After part of the operating system has been loaded, *OS* will replace the word LOAD. When the entire operating system has been loaded, the following LOGON menu will appear.

If autologon of the emulation is defined, the emulation software must be logged off as follows:

- Depress the ROLL ML key.
- Depress the CU TO ML key.
- Write LOGOFF on the *OS* message line.
- Depress the ENTER key.

```
********** L O G O N **********

LOGON NAME:     >■      <
LOAD MAP NO.:   >   <
PASSWORD 1:     >   <
PASSWORD 2:     >   <
CONTROL INFO:   >                   <
                >                   <

*OS*
```

The operator has to enter CONSOLE as the logon name and the security code 3 delivered together with the system diskette (can be changed by the user) as password 1 and then depress the ENTER key. When the logon operation is completed, the logon menu will disappear and be replaced by the first console mode menu. Neither load map nor password 2 is used by the user.

The console mode can be logged off by depressing the PF12 key when the first console mode menu is displayed.

First Menu

```
*********************************************
* ******************************************* *
* *                                         * *
* *   A L F A S K O P   S Y S T E M   41   * *
* *                                         * *
* *         C O N S O L E   M O D E         * *
* *                                         * *
* ******************************************* *
*********************************************

                SYSTEM FUNCTION        PF1

LOGOFF
PF12                ASSIGN LOG. PRINTER >08<          DU 00      M203-00
```

Not all console mode functions are available for Alfaskop System 41 users (some are reserved for service personnel etc.). Some menus therefore seem to be unnecessary since they provide only a single alternative. Console mode functions not intended for users are not displayed on the screen.

If printouts of console mode menus are wanted, the logical address of the printer shall be entered into the field following the text ASSIGN LOG PRINTER. The PF1 key shall then be depressed to assign the printer and obtain the next menu. The straight line at the bottom of the screen and the message line are not printed. Most of the illustrations in this manual are made from printouts.

System Functions

```
********** C O N S O L E   M O D E   **********
          S Y S T E M   F U N C T I O N

          GENERATE PASSWORD                PF1
          AUTOLOGON DEFINITION             PF2
          SYSTEM ADDRESSES                 PF3
          PRINTER AUTH. MATRIX             PF4
          ASSIGN KEYBOARD                  PF5
          READ / CHANGE                    PF6
          DISPLAY VOLUME                   PF7

RETURN
PF12
```

Select desired function by depressing the PF key that appears after the function name.

Passwords

Passwords are used in the logon menu to make certain that the terminal user is authorized to do the logon.

Two different passwords can be used. Password 1 is intended for Alfaskop System 41 users. Password 2 is intended exclusively for Datasaab personnel.

Password 1 is associated with three different security codes: 1, 2 and 3. The terminal-console-functions software is assigned security code 3. The password 1 defined for security code 3 must thus be entered into the logon menu when the display unit is to be put into the console mode. The emulation software is not assigned any security code and no password is needed to put the display unit into the emulation mode.

Password 2 cannot be used alone. It must be used together with password 1. This permits the Alfaskop System 41 user to control usage of terminal console functions by Datasaab personnel while the Alfaskop System 41 is being serviced.

Generation of Passwords

```
********** C O N S O L E   M O D E   **********
        G E N E R A T E   P A S S W O R D


        SECURITY
          CODE        PASSWORD
            1           >   <
            2           >   <
            3           >   <

EXECUTE  RETURN
ENTER     PF12
```

If a new password 1 is to be generated, enter the new password in the input field opposite security code 3. Depress the ENTER key. The new password is now generated and entered into the system, and must be used for the next logon. PF12 must be depressed to obtain the system function menu again.

System Addresses

The peripheral units in Alfaskop System 41 (display units, printer units and flexible disk units) are all assigned logical addresses. These logical addresses are used only within Alfaskop System 41.

However, only logical address 00 is used for single-display-unit configurations.

All display units and printer units are assigned device (DV) addresses. Communication processors and display units used in configurations having only a single display unit are assigned CU polling addresses. The DV and CU addresses are used by the IBM computer system to address the terminals.

```
********** C O N S O L E   M O D E   **********
        S Y S T E M   A D D R E S S E S

        3270 CU-/DV.- ADDR                PF1
        S41 LOGICAL ADDRESSES             PF3

RETURN
PF12
```

CU/DV Addresses

The CU/DV addresses must be selected from the set of addresses specified by IBM. Addresses that can be used are found in Reference Manual – IBM 3270 Emulation FE 411-810.

```
                    ********** C O N S O L E   M O D E **********

                       3 2 7 0   C U / D V   A D D R E S S E S

                              CU-ADDR      >40<

                    INSERT DV-ADDRESSES INTO THE LOG.ADDR. TABLE

LOG.ADDR. 0     1     2     3     4     5     6     7     8     9     10
     DU  >40< >C1< >C2< >C3< >C4< >C5< >C6< >C7< >  < >  < >  <
     PU  >  < >  < >  < >  < >  < >  < >  < >  < >C8< >  < >  <

LOG.ADDR. 11    12    13    14    15    16    17    18    19    20    21
     DU  >  < >  < >  < >  < >  < >  < >  < >  < >  < >  < >  < >  <
     PU  >  < >  < >  < >  < >  < >  < >  < >  < >  < >  < >  < >  <

LOG.ADDR. 22    23    24    25    26    27    28    29    30    31
     DU  >  < >  < >  < >  < >  < >  < >  < >  < >  < >  < >  <
     PU  >  < >  < >  < >  < >  < >  < >  < >  < >  < >  < >  <


EXECUTE          RETURN
ENTER            PF12
```

The following data shall be filled into the above form

CU ADDR >xx<	Enter the communication processor (CU) polling address at xx.
DU >xx< PU >xx<	Enter the DV address beneath the logical address.

When all addresses that are to be used have been filled in, depress the ENTER key to enter them onto the system diskette.

Logical Addresses

Logical addresses permit the user to assign each display unit (DU), printer unit (PU), and flexible disk unit (FD) an identifying number that can be used internally within the Alfaskop System 41. The logical addresses are also used in the software to establish the internal polling list used in the communication processor.

It is advisable to assign each display unit and printer unit the same logical address number as the corresponding IBM control unit port number. This allows IBM generated printer authorization matrices to be used without any changes.

```
                    ********** C O N S O L E   M O D E **********

                          L O G I C A L   A D D R E S S E S

                        INSERT PORT NO. INTO THE LOG.ADDR. TABLE

LOG.ADDR.  0     1     2     3     4     5     6     7     8     9    10
     DU   >00<  >01<  >02<  >03<  >04<  >05<  >06<  >07<  >  <  >  <  >  <
     PU   >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >00<  >  <  >  <
     FD   >00<  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >07<  >  <  >  <  >  <

LOG.ADDR. 11    12    13    14    15    16    17    18    19    20    21
     DU   >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <
     PU   >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <
     FD   >  <  >  <  >  <  >  <  >15<  >  <  >  <  >  <  >  <  >  <  >  <

LOG.ADDR. 22    23    24    25    26    27    28    29    30    31
     DU   >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <
     PU   >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <
     FD   >  <  >23<  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >31<

EXECUTE          RETURN
ENTER            PF12
```

The Alfaskop port No. should be inserted under the assigned logical address. (No Logical Addresses form is used in single-display-unit configurations).

When the ENTER key is depressed the selected addresses are entered onto the system diskette.

Note that a special care must be given to the definition of FD address. There must be an FD assigned on an existing port. The FDs must also be assigned with the same port No. as logical No. If an incorrect FD address definition is made, it can happen that only part of the software can be loaded into the other Alfaskop units. No communication processor polling will be performed for port numbers (two-wire connection numbers) that are not entered into the Logical Addresses form.

In the example above, the printer having logical address 08 must be connected to the display unit (having logical address 00) which is connected to port 00.

Autologon

Autologon is used when a terminal user wants to have the emulation software loaded automatically into the display unit when power is turned on.

Autologon can only be used for software modules that have not been assigned security codes.

```
                    ********** C O N S O L E   M O D E   **********
                       A U T O L O G O N   D E F I N I T I O N

      DU LOGON NAME  LOADMAP      DU LOGON NAME  LOADMAP
      0  >EM3274  <  >001<        1  >EM3274  <  >001<
      2  >EM3274  <  >001<        3  >EM3274  <  >001<
      4  >EM3274  <  >001<        5  >EM3274  <  >001<
      6  >EM3274  <  >001<        7  >EM3274  <  >001<
      8  >        <  >   <        9  >        <  >   <
      10 >        <  >   <        11 >        <  >   <
      12 >        <  >   <        13 >        <  >   <
      14 >        <  >   <        15 >        <  >   <
      16 >        <  >   <        17 >        <  >   <
      18 >        <  >   <        19 >        <  >   <
      20 >        <  >   <        21 >        <  >   <
      22 >        <  >   <        23 >        <  >   <
      24 >        <  >   <        25 >        <  >   <
      26 >        <  >   <        27 >        <  >   <
      28 >        <  >   <        29 >        <  >   <
      30 >        <  >   <        31 >        <  >   <
READY
EXECUTE RETURN
ENTER   PF12
```

Each item of system software is given a logon name and sometimes a load map number. To specify autologon, the logon name and load map number shall be entered into the input field that corresponds to the logical address of the display unit. Only those logical addresses that are assigned using the logical addresses form will be shown in the autologon definition form. When the ENTER key is depressed, the autologon definition is entered into the system.

Logon names and load map numbers for displays that are to be provided with the autologon function appears in the customizing data in the Appendices.

Printer Authorization

The Printer Authorization Matrix (PAM) defines the printer mode and the printer class for the printers in a cluster. It also specifies which display units have access to the printers.

Further information about PAM is presented in the Reference Manual for the IBM 3270 Emulation (FE 411-810).

In Alfaskop System 41, each display unit can access several printers for local printout. Each such printer must be specified using the form shown below. Any previously entered definitions appear in the form.

```
********** C O N S O L E   M O D E   **********
          P R I N T E R   A U T H . M A T R I X

        PRINTER LOG.ADDR.  >08<

        PRINTER MODE       >J<

PRINTER CLASSES

 70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85
>Y< > < > < > < > < > < > < > < > < > < > < > < > < > < > < > <

SOURCE DEVICE LIST  LOG. ADDR.

 0   1   2   3   4   5   6   7   8   9   10  11  12  13  14  15
>Y< >Y< >Y< >Y< >Y< >Y< >Y< >Y< > < > < > < > < > < > < > < > <

 16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31
> < > < > < > < > < > < > < > < > < > < > < > < > < > < > < > <

EXECUTE  RETURN   NEXT   PREV
ENTER    PF12     PF1    PF2
```

The following data can be filled into the form

PRINTER LOG. ADDR. >xx<	Means that the data in the form is valid for the printer with logical address xx. When this menu is first called up, xx is displayed as 00. xx is incremented by one each time PF1 is depressed and decremented by one each time PF2 is depressed. The desired value of xx can also be obtained by overwriting 00. Any previously entered definitions appear when paging by means of PF1 and PF2.
PRINTER MODE	There are three printer modes S system L local J shared (joint)
PRINTER CLASSES	The class (or classes) assigned to the printer in question, printer 00 in this case, is (are) indicated by Y(s) entered beneath the appropriate class number(s).
SOURCE DEVICE LIST LOG. ADDR.	The display unit(s) that can use the printer for local printout is (are) indicated by Y(s) entered beneath the appropriate display unit number(s).

When the definitions for one printer have been made, depress the ENTER key.

The new PAM is loaded onto the system diskette when the printer auth matrix form is left via PF12.

Assign Keyboard

Three main keyboard versions are used for the IBM 3270 Emulation: the Typewriter Keyboard, the Typewriter Alternate and the Data Entry Keyboard.

Each keyboard version is associated with a keyboard table (KBTAB) within the software. Information about which keyboard version is to be used must be entered into the software. This is accomplished using the Assign Keyboard form.

```
********** C O N S O L E   M O D E **********
          A S S I G N   K E Y B O A R D


PORT NO.   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15
KBTAB NO. >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0<

PORT NO.  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31
KBTAB NO. >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0< >0<


EXECUTE RETURN
ENTER   PF12
```

PORT NO. x — x represents the Alfaskop port number, i.e. the number of the two-wire connection to which the display unit is connected.

KBTAB NO. >x< — x represents the number of the keyboard version that is to be used.

The keyboard version number is determined when the system diskette is adapted to the desired national version by Datasaab.

The following keyboard version numbers are normally used

Version	*KBTAB No.*
Typewriter Alternate	0
Data Entry	1
Typewriter	2
Monocase Alternate	3
Monocase	4

If the above keyboard version numbers are not used, information so stating is included with the system diskette.

When all definitions have been made, depress the ENTER key.

Read/Change

```
********** C O N S O L E   M O D E   **********
           R E A D / C H A N G E

           COPY VOLUME                    PF1
           READ CHANGE VOLUME             PF2

RETURN
PF12
```

Copy Volume

The flexible disk unit must be equipped with two drives if diskettes are to be copied.

Two diskettes cannot have the same volume number within a system. If the diskette on which the copy is to be recorded has the same volume number as the master diskette, the former volume number must be changed. The Display/Change Volume Label function is used for this operation. See section on Display Volume.

Note, however, that the diskette copy is automatically given the same volume number as the master diskette during the copy operation. If a different volume number is wanted on the diskette copy, the new volume number must be specified after the copy operation.

Volume numbering is explained in the section on Display Volume.

```
********** C O N S O L E   M O D E   **********
              C O P Y   V O L U M E


ALL NUMBERS MUST BE HEXADECIMAL

COPY FROM DRIVE 1 START AT BLOCK  >0001<
TO DRIVE 2 START AT BLOCK         >0001<
NUMBER OF BLOCKS                  >07D2<
SELECT COPY AND CHECK             >y<
SELECT CHECK                      > <



BLOCKSIZE=00128  DECIMAL


EXECUTE   BREAK    RETURN
ENTER      PF1      PF12
```

- Fill the requested data into the Copy Volume form.

COPY FROM DRIVE 1 START AT BLOCK	>0001<	0001 specifies the first block stored on the master diskette.
TO DRIVE 2 START AT BLOCK	>0001<	0001 specifies the first block location on the diskette copy.
NUMBER OF BLOCKS	>07D2<	07D2 specifies the number of blocks to be copied. (If the master diskette is full, it contains 07D2 blocks.)
SELECT COPY AND CHECK	>x<	Fill in any character if a copy operation and subsequent verification of the diskette copy are wanted.
SELECT CHECK	>x<	Fill in any character if only a verification is wanted.

- Insert a formatted initiated diskette (can be obtained from Datasaab) into the right-hand drive.
- Insert the master diskette into the left-hand drive.
- Depress the ENTER key to start copying and/or verification.
- The copy and verification operations take about 30 minutes.

Read/Change Volume

The Read/Change Volume form is used to read or change data that is stored on the diskette. The user only has access to the emulation-dependent parameters which are explained below and presented in the customizing data in the Appendices.

```
                    ********** C O N S O L E   M O D E   **********
                              R E A D / C H A N G E   V O L U M E
VOL NAME>          <VERSION >  <LIBRARY >        <FILE /MEMBER >        <TYPE> <
LOGADDR>  <DRIVE> <REC>     <

EXECUTE                RETURN
ENTER                   PF12
```

To define the emulation parameters, proceed as follows for each set of parameters.

- Fill in the following fields in the Read/Change Volume form:

LIBRARY FILE/MEMBER TYPE	According to the illustrations in the customizing data
LOGADDR	Enter the logical address of the flexible disk unit being used (or enter ss, in which case the terminal system itself finds the flexible disk unit).
DRIVE	Enter 1 if left drive is used, 2 if right drive is used.
REC	As shown in the illustration in the customizing data.

Do not pay any attention to the other fields.

- Depress the ENTER key. Data according to the selected illustration in the customizing data will now appear on the screen.

- Enter the table position of the parameter to be changed into AT> <. In the example below (printer unit definitions), the printer connected to port 4 has table position 0023 (i e on the line that is numbered 002 and in the column that is headed 3).

- Enter the new value followed by a period after PUT>. If you wish to change a number of positions you can enter a string of new values followed by a period.
- Depress the ENTER key.
- Check the table on the screen to see that the new values have been entered properly.

```
PU                    ********** C O N S O L E   M O D E   **********                PU
on                          R E A D / C H A N G E   V O L U M E                      on
port  VOL NAME>SYSTM ID<VERSION >02<LIBRARY >SYSLIB  <FILE /MEMBER >BHD00400<TYPE>F<  port
No.   LOGADDR>SS<DRIVE>1<REC>0001<AT >     <PUT>                                  <  No.
          0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
00 — 000  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 01
02 — 001  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 03
04 — 002  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 05
06 — 003  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 07
08 — 004  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 09
10 — 005  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 11
12 — 006  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 13
14 — 007  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 15
16 — 008  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 17
18 — 009  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 19
20 — 00A  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 21
22 — 00B  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 23
24 — 00C  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 25
26 — 00D  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 27
28 — 00E  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 29
30 — 00F  01 12 C0 (04) 46 00 00 00 01 12 C0 (04) 46 00 00 00 ....F.......F... — 31
     NUMB:01600100 BLOCS:00328 RECS:00328 FILES:00001 SEQ:0 LOADP:A000 SIZE:00001
     EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
     ENTER       PF1          PF2                PF3            PF12
```

Display Unit Definitions

It is possible to define ten sets of parameters used within a cluster. These sets of parameters are recorded in members EADEMPA1, EADEMPA2 and so on up to EADEMPAA of library EMLIB1. (The member name may be slightly different. See customizing data in the Appendices).

Each member (EADEMPA) is associated with an emulation logon name and load map No.

	Logon name	Load map No.
EADEMPA1 corresponds to	EM3274	001
EADEMPA2 corresponds to	EM3274	002
.	.	.
.	.	.
.	.	.
EADEMPAA corresponds to	EM3274	010

When the emulation mode is logged on, the operator thus determines (by means of the load map No.) which set of emulation definitions should be used for the display unit.

Note that two parameters (3 and 4) determine the way in which the display unit in question edits local printouts on the connected printer. The editing of local printouts is always carried out in the display unit to which the printer is connected.

Printer Definitions

The only printer parameter defined by the user is the maximum number of characters on a printout line. If it is not defined by the user, a default value of 132 characters is used.

Communication Processor Definitions

Some parameters can be defined for the communication processor by means of the read/change volume function.

For the most part, these affect the modem interface or functions common to a complete cluster. See customizing data in the Appendices.

Display Volume

```
********** CONSOLE MODE. **********
        DISPLAY VOLUME

VOLUME NUMBER     >        <
    OR
VOLUME NAME       >        <  VERSION  >  <
    OR
LOGICAL FD        >00<        DRIVE    >1<


DISPLAY /CHANGE VOLUME LABEL      PF1



RETURN
 PF12
```

- Fill the requested data into the form.
- Depress the PF1 key.
  A new form is displayed.

The volume label is a collection of data fields on the first track of the diskette. The volume label contains information about the contents of the diskette. The only item of information presented in this form that can be changed by the user is the volume number. Most of the items presented contain status information that is of interest only to Datasaab personnel, and they are not explained in this document. Those that are of interest to users are explained below.

```
                 ********** C O N S O L E   M O D E   **********
            D I S P L A Y   / C H A N G E   V O L U M E   L A B E L

   TYPE     S
   VOLNO    0160020A                        NEW  VOLNO 016002>  <
   NAME     SYSTM ID                        NEW  NAME  >        <
   VERS     08
   REVDT    M202-01
   USER     2.18  810804
   FLAG     00
   STAT     0000
   VPTR     0002
   VSIZE    0020
   FDBOT    BOTOO2
   NAT                                      NEW  NAT   >                <
   RPQ            -                         NEW  RPQ   >      <->   <

  PRODNAME  IBM 3274/78 BSC,CLUSTER,GTLE 24 LINES


EXECUTE  RETURN
ENTER     PF12
```

Item of information	*Explanation*
TYPE	S = System diskette. D = Data diskette. E = Empty diskette.
VOLNO	The volume number identifies the diskette. The volume number is created by adding two digits at the end of the product number after removing the first digit from the product number. Example 4015-001 Product number 015001xx Volume number
NAME	Volume name.
VERS	Volume version.
NAT	National version of keyboard, printer and line codes.
RPQ	Identification number of RPQ, if any is used.

Input field name	*Explanation*
NEW VOLNO YYYYYY >xx<	The last two digits in the volume number can be changed. Enter the new digits at xx and depress the ENTER key. The volume number is now changed.

System Diskette Backup

When customizing is completed, don't forget to customize the backup diskette. Perform the same customizing procedure as for the first diskette, or use the Copy Volume function. Don't forget to reload the customizing station if it is to be used as a normal terminal. This operation is initiated by turning off and on the power or depressing the reset button on each unit.

Appendix 1

Customizing Data
for
System Diskette 4016-001, M202-XX
System Diskette 4016-002, M202-XX

Contents

General

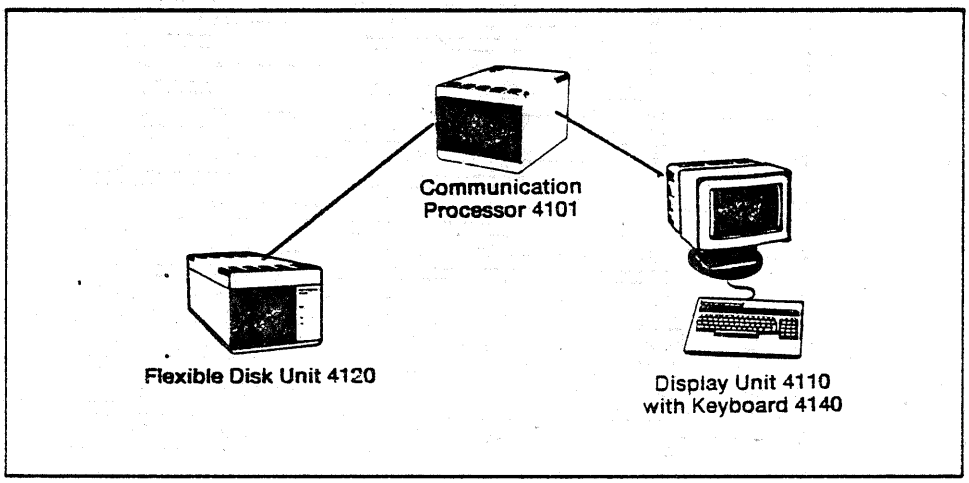
These system diskettes are designed for the IBM 3274/78 remote BSC emulation used in cluster configurations.

Diskette 4016-001 provides two display unit presentation formats: 12 or 24 text lines per full screen.

Diskette 4016-002 provides four display unit presentation formats: 12, 24, 32 or 43 text lines per full screen.

All of the information called for in this Appendix must be submitted before customizing can take place.

The equipment illustrated below is needed for customizing.



Customizing station

Addresses within Alfaskop System 41

Fill the addresses that are to be used into the form below. Permissible addresses appear in table 1 and table 2 on page 3. Note that one form is needed per cluster.

Keyboard	KBTAB No.
Typewriter Alt.	0
Data Entry	1
Typewriter	2
Monocase Alt	3
Monocase	4

Communication Processor (CU) polling address _____

Alfaskop port No.	Flexible disk unit	Printer unit		Display unit		
00	Log. =	Log. =	DV =	Log. =	DV =	.....
01	Log. =	Log. =	DV =	Log. =	DV =	.....
02	Log. =	Log. =	DV =	Log. =	DV =	.....
03	Log. =	Log. =	DV =	Log. =	DV =	.....
04	Log. =	Log. =	DV =	Log. =	DV =	.....
05	Log. =	Log. =	DV =	Log. =	DV =	.....
06	Log. =	Log. =	DV =	Log. =	DV =	.....
07	Log. =	Log. =	DV =	Log. =	DV =	.....
08	Log. =	Log. =	DV =	Log. =	DV =	.....
09	Log. =	Log. =	DV =	Log. =	DV =	.....
10	Log. =	Log. =	DV =	Log. =	DV =	.....
11	Log. =	Log. =	DV =	Log. =	DV =	.....
12	Log. =	Log. =	DV =	Log. =	DV =	.....
13	Log. =	Log. =	DV =	Log. =	DV =	.....
14	Log. =	Log. =	DV =	Log. =	DV =	.....
15	Log. =	Log. =	DV =	Log. =	DV =	.....
16	Log. =	Log. =	DV =	Log. =	DV =	.....
17	Log. =	Log. =	DV =	Log. =	DV =	.....
18	Log. =	Log. =	DV =	Log. =	DV =	.....
19	Log. =	Log. =	DV =	Log. =	DV =	.....
20	Log. =	Log. =	DV =	Log. =	DV =	.....
21	Log. =	Log. =	DV =	Log. =	DV =	.....
22	Log. =	Log. =	DV =	Log. =	DV =	.....
23	Log. =	Log. =	DV =	Log. =	DV =	.....
24	Log. =	Log. =	DV =	Log. =	DV =	.....
25	Log. =	Log. =	DV =	Log. =	DV =	.....
26	Log. =	Log. =	DV =	Log. =	DV =	.....
27	Log. =	Log. =	DV =	Log. =	DV =	.....
28	Log. =	Log. =	DV =	Log. =	DV =	.....
29	Log. =	Log. =	DV =	Log. =	DV =	.....
30	Log. =	Log. =	DV =	Log. =	DV =	.....
31	Log. =	Log. =	DV =	Log. =	DV =	.....

The following menus should be used when entering the above data: 3270 Emulation Addresses, Logical Addresses and Assign Keyboard.

When delivered from Datasaab the system diskette has the following default addresses.

Communication Processor (CU) polling address 40.

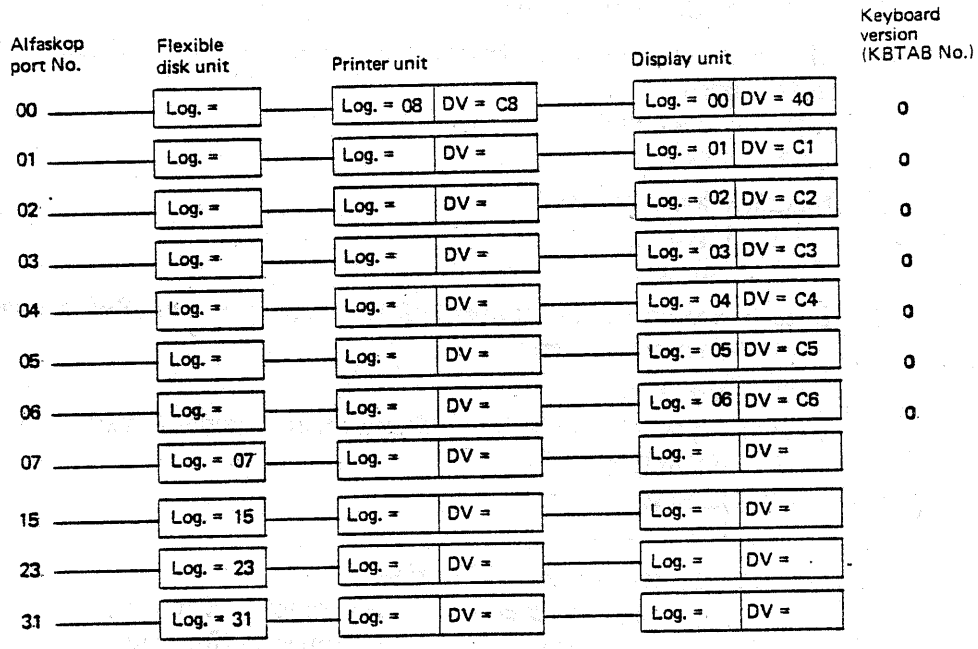


Table 1. Communication processor remote (CU) polling address

Communication processor No.	CU address $EBCDIC_{16}$	Communication processor No.	CU address $EBCDIC_{16}$	Communication processor No.	CU address $EBCDIC_{16}$
0	40	11	4B	22	D6
1	C1	12	4C	23	D7
2	C2	13	4D	24	D8
3	C3	14	4E	25	D9
4	C4	15	4F	26	5A
5	C5	16	50	27	5B
6	C6	17	D1	28	5C
7	C7	18	D2	29	5D
8	C8	19	D3	30	5E
9	C9	20	D4	31	5F
10	4A	21	D5		

Table 2. IBM CU port No. associated with DV addresses

IBM CU port No.	DV address $EBCDIC_{16}$	IBM CU port No.	DV address $EBCDIC_{16}$	IBM CU port No.	DV address $EBCDIC_{16}$
0	40	11	4B	22	D6
1	C1	12	4C	23	D7
2	C2	13	4D	24	D8
3	C3	14	4E	25	D9
4	C4	15	4F	26	5A
5	C5	16	50	27	5B
6	C6	17	D1	28	5C
7	C7	18	D2	29	5D
8	C8	19	D3	30	5E
9	C9	20	D4	31	5F
10	4A	21	D5		

Display Unit 4110.

Logon name >EM3274< Load map No. >0XX<,
XX can vary from 01 to 10 inclusive.

0. ID handling principle.
   - 01 IMS or the like
   - 00 CICS, TSO or the like

1. Magnetic Identification Device 4131 connected to the display unit (MID conn)
   - 01 Connected
   - 00 Not connected

2. Numeric lock feature
   - 01 Used
   - 00 Not used

3. Byte to be sent to the printer before a local printout (Before print)
   - 0D Carriage return
   - 0C Form feed

4. Byte to be sent to the printer after a local printout (After print)
   - 0C Form feed (FF)
   - 0A Line feed (LF)
   - 00 No byte sent

5, 6 Screen size and printer buffer size

	Default screen size	Alternate screen size/ Printer buffer size	
01	12×40	12×80	960
02	24×80	24×80	1920
03	24×80	32×80	2560
04	24×80	43×80	3440

7. NL, DUP and NL, FM replacement (NL repl)
   - 01 The two byte sequences NL, DUP and NL, FM shall be replaced by VT and FF orders respectively
   - 00 No replacement

8. Reserved, must be 00

9. Keyboard type connected to the display unit (Data Entry)
   - 00 Typewriter or Typewriter Alternate
   - 01 Data Entry

A. Keyboard repetition frequency (KB rep.)
   - 00 25 Hz
   - 01 12.5 Hz

B. Display functions (Disp. func.)
   - 00 Covering cursor, underlined space
   - 10 Transparent cursor, underlined space
   - 20 Covering cursor, underlined word
   - 30 Transparent cursor, underlined word

C. Reserved, must be 80

D. Reserved for service engineers only

E. Reserved, must be 20

F. Reserved, must be 00

```
                    ********** C O N S O L E   M O D E   **********
                              R E A D / C H A N G E   V O L U M E
VOL NAME>SYSTM ID<VERSION >08<LIBRARY >EMLIB1  <FILE /MEMBER >EADEMPA1<TYPE>A<
LOGADDR>ss<DRIVE>2<REC>0001<AT >     <PUT>                                   <
          0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000       00 00 01 0D 0C 02 02 00 00 00 01 30 80 00 20 00        ............0.. .
001       80 00 00 00 AA                                         .....

NUMB:0160020A BLOCS:00128 RECS:00128 FILES:00001 SEQ:0 LOADP:3ACF SIZE:00001
EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
ENTER        PF1           PF2                PF3            PF12
```

Fill in the functions that are to be used into the form below. Compare with the default values on next page before entering new values into the form on the screen.

Load map number	1	2	3	4	5	6	7	8	9	10
EADEMPA	1	2	3	4	5	6	7	8	9	A
Byte Parameter										
0 IMS used										
1 MID conn										
2 Numeric lock										
3 Before print										
4 After print										
5 Screen size										
6 Print buff size										
7 NL repl										
9 Data Entry										
A KB rep										
B Disp func										

The following table presents the default values used on delivered diskettes.

Load map number		1	2	3	4	5	6	7	8	9	10
EADEMPA		1	2	3	4	5	6	7	8	9	A
Byte	Parameter										
0	IMS used	00	00	00	00	00	00	01	00	00	00
1	MID conn	00	01	00	00	00	00	01	00	00	00
2	Numeric lock	01	01	01	01	01	01	01	01	01	01
3	Before print	0D	0D	0D	0D	0D	0D	0D	0D	0C	0D
4	After print	0C	0C	0C	0C	0C	0C	0C	0C	00	0C
5	Screen size	02	02	02	02	03	04	02	02	02	01
6	Print buff size	02	02	02	02	03	04	02	02	02	01
7	NL repl.	00	00	00	00	00	00	00	01	00	00
9	Data Entry	00	00	01	00	00	00	00	00	00	00
A	KB rep	01	01	01	01	01	01	01	01	01	01
B	Disp func	30	30	30	30	10	10	30	30	30	30

Printer Unit 4153/4154

1. What is the maximum number of characters per printout line?
   $(50)_{16}$ max 80 char/line
   $(84)_{16}$ max 132 char/line
   $(9A)_{16}$ max 154 char/line

Printer unit connected to Alfaskop port No.	Number of characters (dec)	Hexadec

Printer Unit 4153 imposes a limit of 154 characters/line. Printer Unit 4154 imposes a limit of 132 characters/line. Any number up to and including these limits can be selected.

The default value is 132 characters/line.

```
                          ********** C O N S O L E   M O D E   **********
PU                                  R E A D / C H A N G E   V O L U M E                                  PU
on                                                                                                       on
port  VOL NAME>SYSTM ID<VERSION >02<LIBRARY >SYSLIB  <FILE /MEMBER >BH0004 00<TYPE>F<                    port
No.   LOGADDR>SS<DRIVE>1<REC>0001<AT >     <PUT>                                                   <     No.
            0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
00 ---- 000  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  01
02 ---- 001  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  03
04 ---- 002  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  05
06 ---- 003  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  07
08 ---- 004  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  09
10 ---- 005  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  11
12 ---- 006  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  13
14 ---- 007  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  15
16 ---- 008  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  17
18 ---- 009  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  19
20 ---- 00A  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  21
22 ---- 00B  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  23
24 ---- 00C  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  25
26 ---- 00D  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  27
28 ---- 00E  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  29
30 ---- 00F  01 12 C0 (M) 46 00 00 00 01 12 CD (M) 46 00 00 00 ....F........F...  31
     NUMB:01600100 BLOCS:00328 RECS:00328 FILES:00001 SEQ:0 LOADP:A000 SIZE:00001
     EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
     ENTER       PF1          PF2                PF3            PF12
```

Communication Processor 4101

1 00C3 Timing signals in modem interface (V24)

- $(18)_{16}$ The modem provides both timing signals, i.e. receiver signal element timing (RSET) and transmitter signal element timing (TSET)
- $(17)_{16}$ Communication processor provides TSET (1200 bits/sec)
- $(16)_{16}$,, ,, ,, (2400 bits/sec)
- $(15)_{16}$,, ,, ,, (4800 bits/sec)
- $(14)_{16}$,, ,, ,, (9600 bits/sec)

2 00C4 Diskette type (buffer size)

- 00 4016-001
- 01 4016-002

The default values are presented below.

```
                    ********** C O N S O L E   M O D E   **********
                              R E A D / C H A N G E   V O L U M E
VOL NAME>SYSTM ID<VERSION >08<LIBRARY >EMLIB1  <FILE /MEMBER >EACEMPAC<TYPE>A<
LOGADDR>ss<DRIVE>2<REC>0001<AT >     <PUT>                                   <
      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000   40 00 00 00 04 08 0C 10 14 18 FF 21 FF FF FF FF        £..........!....
001   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
002   FF FF FF 40 FF FF FF C1 FF FF FF C2 FF FF FF C3        ...£............
003   FF FF FF C4 FF FF FF C5 FF FF FF C6 FF FF FF C7        ................
004   FF FF FF FF C8 FF FF FF FF FF FF FF FF FF FF FF        ................
005   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
006   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
007   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
008   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
009   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00A   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00B   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00C   FF FF FF 18 01 55 32 32 01                             .....U22.
(1)
(2)
NUMB:0160020A BLOCS:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:5B47 SIZE:00001
EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
ENTER       PF1           PF2                PF3            PF12
```

Automatic Loading of Emulation Software when Power is Turned On

DU logical address	Logon name	Load map No.
00	EM 3274	
01	EM 3274	
02	EM 3274	
03	EM 3274	
04	EM 3274	
05	EM 3274	
06	EM 3274	
07	EM 3274	
08	EM 3274	
09	EM 3274	
10	EM 3274	
11	EM 3274	
12	EM 3274	
13	EM 3274	
14	EM 3274	
15	EM 3274	
16	EM 3274	
17	EM 3274	
18	EM 3274	
19	EM 3274	
20	EM 3274	
21	EM 3274	
21	EM 3274	
22	EM 3274	
23	EM 3274	
24	EM 3274	
25	EM 3274	
26	EM 3274	
27	EM 3274	
28	EM 3274	
29	EM 3274	
30	EM 3274	
31	EM 3274	

As default, all display units are loaded automatically with EM 3274, load map 001.

If autologon is defined, both logon name and load map No. must be defined. If no autologon is wanted, *neither* logon name nor load map No. must be defined.

Printer Authorization Matrix

Use the form below to define the printer authorization matrix.

Printer log. addr.	Printer mode	Printer classes																																Source device (DU) log. addr.																			
		70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

When delivered from Datasaab, the system diskette has the following default Printer Authorization Matrix.

Printer log. addr.	Printer mode	Printer classes																																Source device (DU) log. addr.																			
		70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
08	J																	Y	Y	Y	Y	Y	Y																												

Enter the logical address of the printer and enter the printer mode (S, L or J).
Define class(es) by entering a "Y" under the class number.
Indicate which display unit(s) (log. addr.) can use the printer for local printout by entering Y(s) under DU log. addr.

Appendix 2

Customizing Data
for
System Diskette 4016-031, M202-XX
System Diskette 4016-071, M202-XX

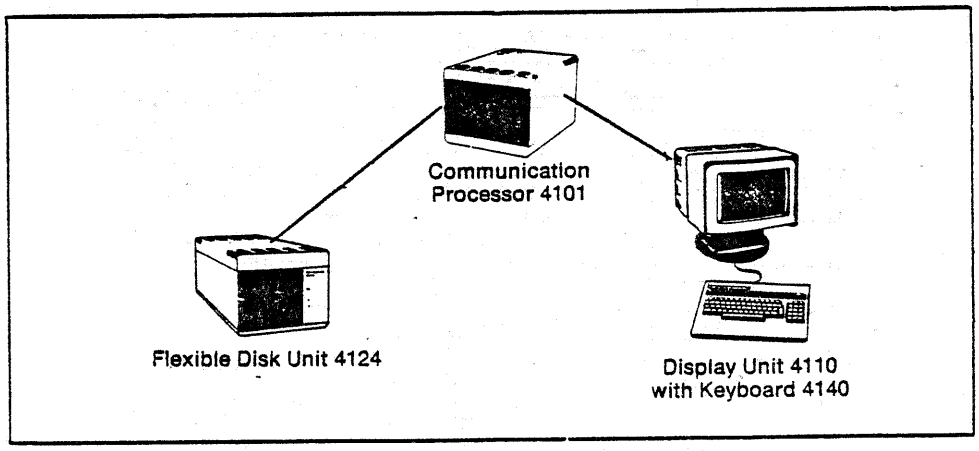
Contents

General

These system diskettes, which are designed for the IBM 3274/78 remote SNA/SDLC emulation used in cluster configurations, provide 24 text lines per full screen.

All of the information called for in this Appendix must be submitted before customizing can take place.

The equipment illustrated below is needed for customizing.



Addresses within Alfaskop System 41

Fill the addresses that are to be used into the form below. Permissible addresses appear in table 1 on page 3. Note that one form is needed per cluster.

Communication Processor (CU) polling address (SDLC address) ———

Keyboard	KBTAB No.
Typewriter Alt.	0
Data Entry	1
Typewriter	2
Monocase Alt.	3
Monocase	4

Alfaskop port No.	Flexible disk unit	Printer unit		Display unit		
00	Log. =	Log. =	DV =	Log. =	DV =	.....
01	Log. =	Log. =	DV =	Log. =	DV =	.....
02	Log. =	Log. =	DV =	Log. =	DV =	.....
03	Log. =	Log. =	DV =	Log. =	DV =	.....
04	Log. =	Log. =	DV =	Log. =	DV =	.....
05	Log. =	Log. =	DV =	Log. =	DV =	.....
06	Log. =	Log. =	DV =	Log. =	DV =	.....
07	Log. =	Log. =	DV =	Log. =	DV =	.....
08	Log. =	Log. =	DV =	Log. =	DV =	.....
09	Log. =	Log. =	DV =	Log. =	DV =	.....
10	Log. =	Log. =	DV =	Log. =	DV =	.....
11	Log. =	Log. =	DV =	Log. =	DV =	.....
12	Log. =	Log. =	DV =	Log. =	DV =	.....
13	Log. =	Log. =	DV =	Log. =	DV =	.....
14	Log. =	Log. =	DV =	Log. =	DV =	.....
15	Log. =	Log. =	DV =	Log. =	DV =	.....
16	Log. =	Log. =	DV =	Log. =	DV =	.....
17	Log. =	Log. =	DV =	Log. =	DV =	.....
18	Log. =	Log. =	DV =	Log. =	DV =	.....
19	Log. =	Log. =	DV =	Log. =	DV =	.....
20	Log. =	Log. =	DV =	Log. =	DV =	.....
21	Log. =	Log. =	DV =	Log. =	DV =	.....
22	Log. =	Log. =	DV =	Log. =	DV =	.....
23	Log. =	Log. =	DV =	Log. =	DV =	.....
24	Log. =	Log. =	DV =	Log. =	DV =	.....
25	Log. =	Log. =	DV =	Log. =	DV =	.....
26	Log. =	Log. =	DV =	Log. =	DV =	.....
27	Log. =	Log. =	DV =	Log. =	DV =	.....
28	Log. =	Log. =	DV =	Log. =	DV =	.....
29	Log. =	Log. =	DV =	Log. =	DV =	.....
30	Log. =	Log. =	DV =	Log. =	DV =	.....
31	Log. =	Log. =	DV =	Log. =	DV =	.....

The following menus should be used when entering the above data: 3270 Emulation Addresses, Logical Addresses and Assign Keyboard.

When delivered from Datasaab the system diskette has the following default addresses.

Communication Processor (CU) polling address (SDLC address) C1.

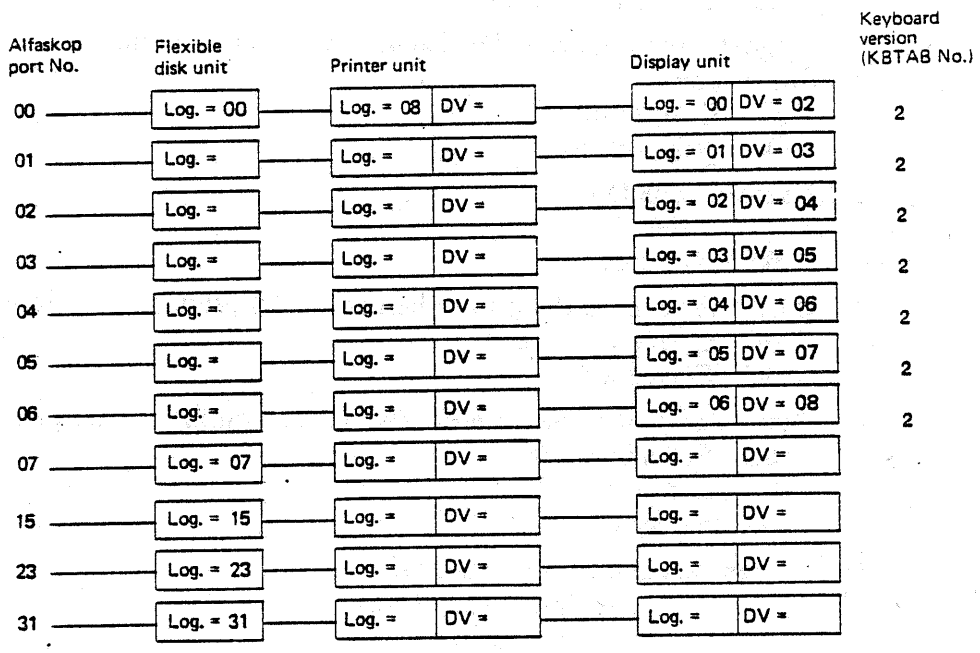


Table 1. IBM CU port numbers associated with DV adresses

IBM CU Port No.	DV address (hex)	IBM CU Port No.	DV address (hex)
0	02	16	12
1	03	17	13
2	04	18	14
3	05	19	15
4	06	20	16
5	07	21	17
6	08	22	18
7	09	23	19
8	0A	24	1A
9	0B	25	1B
10	0C	26	1C
11	0D	27	1D
12	0E	28	1E
13	0F	29	1F
14	10	30	20
15	11	31	21

Note that any hexadecimal number except 00 and FF can be used as a CU address on an SDLC link.

Display Unit 4110.

Logon name >EM3274< Load map No. >0XX<,
XX can vary from 01 to 10 inclusive.

0. ID handling principle.
   - 01 IMS or the like
   - 00 CICS, TSO or the like
1. Magnetic Identification Device 4131 connected to the display unit (MID conn)
   - 01 Connected
   - 00 Not connected
2. Numeric lock feature
   - 01 Used
   - 00 Not used
3. Byte to be sent to the printer before a local printout (Before print)
   - 0D Carriage return
   - 0C Form feed
4. Byte to be sent to the printer after a local printout (After print)
   - 0C Form feed (FF)
   - 0A Line feed (LF)
   - 00 No byte sent

5, 6 Screen size and printer buffer size

	Maximum screen size/	Printer buffer size
02	24×80	1920
03	32×80	2560
04	43×80	3440

7. NL, DUP and NL, FM replacement (NL repl)
   - 01 The two byte sequences NL, DUP and NL, FM shall be replaced by VT and FF orders respectively
   - 00 No replacement
8. Reserved, must be 00
9. Keyboard type connected to the display unit (Data Entry)
   - 00 Typewriter or Typewriter Alternate
   - 01 Data Entry

A. Keyboard repetition frequency (KB rep.)
   - 00 25 Hz
   - 01 12.5 Hz

B. Display functions (Disp. func.)
   - 00 Covering cursor, underlined space
   - 10 Transparent cursor, underlined space
   - 20 Covering cursor, underlined word
   - 30 Transparent cursor, underlined word

C. Reserved, must be 80

D. Reserved for service engineers only

E. Reserved, must be 20

F. Reserved, must be 00

```
                    *********  C O N S O L E   M O D E   **********
                               R E A D / C H A N G E   V O L U M E
VOL NAME>SNALE    <VERSION >21<LIBRARY >EMLIB1  <FILE /MEMBER  >EADEMPA1<TYPE>A
LOGADDR>ss<DRIVE>1<REC>0001<AT >     <PUT>                                   <
      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000   00 00 01 00 0C 02 02 00 00 00 01 30 80 00 20 00        ............0.. .
001   00 00 00 00 AA                                         .....

NUMB:SNA21216 BLOCS:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:A6D7 SIZE:00001
EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
ENTER       PF1           PF2                PF3            PF12
```

Fill in the functions that are to be used into the form below. Compare with the default values on next page before entering new values into the form on the screen.

Load map number	1	2	3	4	5	6	7	8	9	10
EADEMPA	1	2	3	4	5	6	7	8	9	A
Byte Parameter										
0 IMS used										
1 MID conn										
2 Numeric lock										
3 Before print										
4 After print										
5 Screen size										
6 Print buff size										
7 NL repl										
9 Data Entry										
A KB rep										
B Disp func										

The following table presents the default values used on delivered diskettes.

Load map number		1	2	3	4	5*	6*	7	8	9	10
EADEMPA		1	2	3	4	5	6	7	8	9	A
Byte	Parameter										
0	IMS used	00	00	00	00	00	00	01	00	00	00
1	MID conn	00	01	00	00	00	00	01	00	00	00
2	Numeric lock	01	01	01	01	01	01	01	01	01	01
3	Before print	0D	0D	0D	0D	0D	0D	0D	0D	0C	0D
4	After print	0C	0C	0C	0C	0C	0C	0C	0C	00	0C
5	Screen size	02	02	02	02	03*	04*	02	02	02	02
6	Print buff size	02	02	02	02	03*	04*	02	02	02	02
7	NL repl.	00	00	00	00	00	00	00	01	00	00
9	Data Entry	00	00	01	00	00	00	00	00	00	00
A	KB rep	01	01	01	01	01	01	01	01	01	01
B	Disp func	30	30	30	30	10	10	30	30	30	30

* These load maps are not used at present.

Printer Unit 4153/4154

1. What is the maximum number of characters per printout line?
   $(50)_{16}$ max 80 char/line
   $(84)_{16}$ max 132 char/line
   $(9A)_{16}$ max 154 char/line

Printer unit connected to Alfaskop port No.	Number of characters (dec)	Hexadec

Printer Unit 4153 imposes a limit of 154 characters/line. Printer Unit 4154 imposes a limit of 132 characters/line. Any number up to and including these limits can be selected.

The default value is 132 characters/line.

```
PU                    ********** C O N S O L E   M O D E   **********                PU
on                              R E A D / C H A N G E   V O L U M E                  on
port  VOL NAME>SNALE   <VERSION >21<LIBRARY >SYSLIB  <FILE /MEMBER >8HD00400<TYPE>F<  port
No.   LOGADDR>ss<DRIVE>1<REC>0001<AT >     <PUT>                                  <   No.
            0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
00 ---- 080  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 01
02 ---- 081  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 03
04 ---- 082  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 05
06 ---- 083  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 07
08 ---- 084  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 09
10 ---- 085  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 11
12 ---- 086  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 13
14 ---- 087  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 15
16 ---- 088  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 17
18 ---- 089  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 19
20 ---- 08A  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 21
22 ---- 08B  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 23
24 ---- 08C  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 25
26 ---- 08D  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 27
28 ---- 08E  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 29
30 ---- 08F  01 12 00 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ....F.......F.... -- 31
   NUMB:SNA21216 BLOCS:00328 RECS:00328 FILES:00001 SEQ:3 LOADP:A000 SIZE:00001
   EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
   ENTER       PF1          PF2                 PF3           PF12
```

Communication Processor 4101

1 00C3 Maximum number of frames that will be sent before an acknowledgement is needed (possible values 01–07)

2 00C6 Idle state for transmitted data
   00 Logical 1 (mark)
   01 Flags

3 00C7 Transmitted data encoding
- 00 NRZ
- 01 NRZI

4 00C8 Transmission after abort
- 00 No additional ones
- 01 One extra FF (all ones) byte

5 00C9 Number of flags between two frames
- 00 One flag
- 01 Two flags

6 00CA Modern interface type and timing signal source
- 00 X21 Communication processor provides timing
- 01 X21 Modem provides timing
- 02 V24 Communication processor provides timing
- 03 V24 Modem provides timing

7 00CB Frequency of timing signal from communication processor
- 04 9 600 bits/s
- 05 4 800 bits/s
- 06 2 400 bits/s
- 07 1 200 bits/s

8 00D0-00D2 Terminal ID field of XID response
- D0 D1 D2
- 7X XX XX where X XX XX are bits 28-47
- (terminal ID) of the additional data in XID response.

9 00E0-00FE Printer sharing
- 00 The printer is shared between session
- 80 The printer is shared between brackets
- 00E0 Printer with logical address 00
- 00E1 Printer with logical address 01
- 00FE Printer with logical address 31

```
                    ********** C O N S O L E   M O D E   **********
                              R E A D / C H A N G E   V O L U M E
VOL NAME>SNALE   <VERSION >21<LIBRARY >EMLIB1  <FILE /MEMBER >EACEMPAC<TYPE>A<
LOGADDR>SS<DRIVE>1<REC>0001<AT >     <PUT>                                  <
      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000   C1 00 FF 00 04 08 0C 10 14 18 FF 21 FF FF FF FF        ...........!....
001   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
002   FF FF FF 02 FF FF FF 03 FF FF FF 04 FF FF FF 05        ................
003   FF FF FF 06 FF FF FF 07 FF FF FF 08 FF FF FF FF        ................
004   FF FF FF FF 0A FF FF FF FF FF FF FF FF FF FF FF        ................
005   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
006   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
007   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
008   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
009   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00A   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00B   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00C   FF FF FF 07 14 14 00 00 00 00 03 07 00 00 00 00        ................
00D   70 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        p...............
00E   80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80        ................
00F   80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80        ................
NUMB:SNA21216 BLOCS:00256 RECS:00256 FILES:00002 SEQ:3 LOADP:C712 SIZE:00001
EXECUTE   PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT   RETURN   REC NO=0001
ENTER        PF1          PF2            PF3                PF12
```

Automatic Loading of Emulation Software when Power is Turned On

DU logical address	Logon name	Load map No.
00	EM 3274	
01	EM 3274	
02	EM 3274	
03	EM 3274	
04	EM 3274	
05	EM 3274	
06	EM 3274	
07	EM 3274	
08	EM 3274	
09	EM 3274	
10	EM 3274	
11	EM 3274	
12	EM 3274	
13	EM 3274	
14	EM 3274	
15	EM 3274	
16	EM 3274	
17	EM 3274	
18	EM 3274	
19	EM 3274	
20	EM 3274	
21	EM 3274	
21	EM 3274	
22	EM 3274	
23	EM 3274	
24	EM 3274	
25	EM 3274	
26	EM 3274	
27	EM 3274	
28	EM 3274	
29	EM 3274	
30	EM 3274	
31	EM 3274	

As default, all display units are loaded automatically with EM 3274, load map 001.

If autologon is defined, both logon name and load map No. must be defined. If no autologon is wanted, *neither* logon name nor load map No. must be defined.

Printer Authorization Matrix

Use the form below to define the printer authorization matrix.

Printer log. addr.	Printer mode	Printer classes																														Source device (DU) log. addr.																							
		70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

When delivered from Datasaab, the system diskette has the following default Printer Authorization Matrix.

Printer log. addr.	Printer mode	Printer classes																														Source device (DU) log. addr.																							
		70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
08	L																	Y	Y	Y	Y	Y	Y																												

Enter the logical address of the printer and enter the printer mod (S, L or J).
Define class(es) by entering "Y" under the class number.
Indicate which display unit(s) (log. addr.) can use the printer for local printout by entering Y(s) under DU log. addr.

Appendix 3

Customizing Data
for
System Diskette 4016-021, M201-XX
System Diskette 4016-022, M201-XX

Contents

General

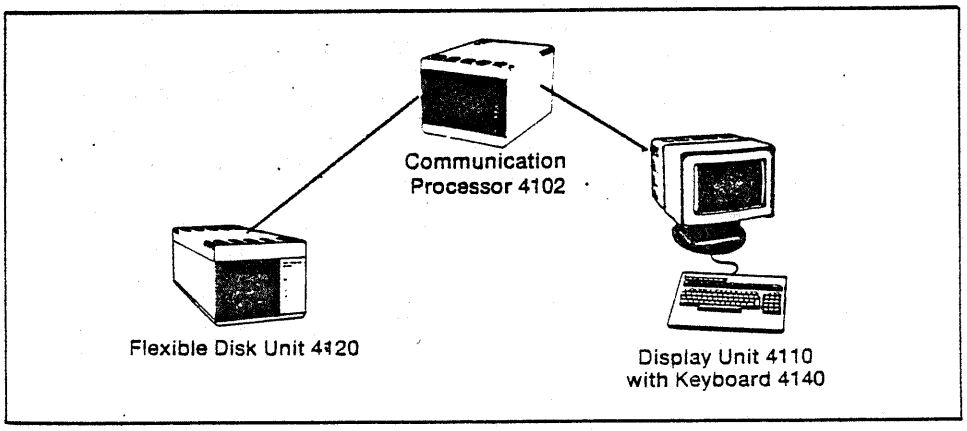
These system diskettes are designed for the IBM 3274/78 1B and 1D (local non SNA) emulation used in cluster configurations.

Diskette 4016-021 provides two display unit presentation formats: 12 or 24 text lines per full screen.

Diskette 4016-022 provides four display unit presentation formats: 12, 24, 32 or 43 text lines per full screen.

All of the information called for in this Appendix must be submitted before customizing can take place.

The equipment illustrated below is needed for customizing.



Customizing station

Addresses within Alfaskop System 41

Fill the addresses that are to be used into the form below. Permissible addresses appear in table 1, 2 and 3 on pages 3 and 4. Note that one form is needed per cluster.

Keyboard	KBTAB No.
Typewriter Alt.	0
Data Entry	1
Typewriter	2
Monocase Alt	3
Monocase	4

Alfaskop port No.	Flexible disk unit	Printer unit		Display unit		
00	Log. =	Log. =	DV =	Log. =	DV =	.....
01	Log. =	Log. =	DV =	Log. =	DV =	.....
02	Log. =	Log. =	DV =	Log. =	DV =	.....
03	Log. =	Log. =	DV =	Log. =	DV =	.....
04	Log. =	Log. =	DV =	Log. =	DV =	.....
05	Log. =	Log. =	DV =	Log. =	DV =	.....
06	Log. =	Log. =	DV =	Log. =	DV =	.....
07	Log. =	Log. =	DV =	Log. =	DV =	.....
08	Log. =	Log. =	DV =	Log. =	DV =	.....
09	Log. =	Log. =	DV =	Log. =	DV =	.....
10	Log. =	Log. =	DV =	Log. =	DV =	.....
11	Log. =	Log. =	DV =	Log. =	DV =	.....
12	Log. =	Log. =	DV =	Log. =	DV =	.....
13	Log. =	Log. =	DV =	Log. =	DV =	.....
14	Log. =	Log. =	DV =	Log. =	DV =	.....
15	Log. =	Log. =	DV =	Log. =	DV =	.....
16	Log. =	Log. =	DV =	Log. =	DV =	.....
17	Log. =	Log. =	DV =	Log. =	DV =	.....
18	Log. =	Log. =	DV =	Log. =	DV =	.....
19	Log. =	Log. =	DV =	Log. =	DV =	.....
20	Log. =	Log. =	DV =	Log. =	DV =	.....
21	Log. =	Log. =	DV =	Log. =	DV =	.....
22	Log. =	Log. =	DV =	Log. =	DV =	.....
23	Log. =	Log. =	DV =	Log. =	DV =	.....
24	Log. =	Log. =	DV =	Log. =	DV =	.....
25	Log. =	Log. =	DV =	Log. =	DV =	.....
26	Log. =	Log. =	DV =	Log. =	DV =	.....
27	Log. =	Log. =	DV =	Log. =	DV =	.....
28	Log. =	Log. =	DV =	Log. =	DV =	.....
29	Log. =	Log. =	DV =	Log. =	DV =	.....
30	Log. =	Log. =	DV =	Log. =	DV =	.....
31	Log. =	Log. =	DV =	Log. =	DV =	.....

The following menus should be used when entering the above data: 3270 Emulation Addresses, Logical Addresses and Assign Keyboard.

Table 1. Standard addressing format for max. 32 terminals connected to one communication processor (CPL).

Internal Device Addr.	COMMUNICATION PROCESSOR							
	CU0	CU1	CU2	CU3	CU4	CU5	CU6	CU7
0	00	20	40	60	80	A0	C0	E0
1	01	21	41	61	81	A1	C1	E1
2	02	22	42	62	82	A2	C2	E2
3	03	23	43	63	83	A3	C3	E3
4	04	24	44	64	84	A4	C4	E4
5	05	25	45	65	85	A5	C5	E5
6	06	26	46	66	86	A6	C6	E6
7	07	27	47	67	87	A7	C7	E7
8	08	28	48	68	88	A8	C8	E8
9	09	29	49	69	89	A9	C9	E9
10	0A	2A	4A	6A	8A	AA	CA	EA
11	0B	2B	4B	6B	8B	AB	CB	EB
12	0C	2C	4C	6C	8C	AC	CC	EC
13	0D	2D	4D	6D	8D	AD	CD	ED
14	0E	2E	4E	6E	8E	AE	CE	EE
15	0F	2F	4F	6F	8F	AF	CF	EF
16	10	30	50	70	90	B0	D0	F0
17	11	31	51	71	91	B1	D1	F1
18	12	32	52	72	92	B2	D2	F2
19	13	33	53	73	93	B3	D3	F3
20	14	34	54	74	94	B4	D4	F4
21	15	35	55	75	95	B5	D5	F5
22	16	36	56	76	96	B6	D6	F6
23	17	37	57	77	97	B7	D7	F7
24	18	38	58	78	98	B8	D8	F8
25	19	39	59	79	99	B9	D9	F9
26	1A	3A	5A	7A	9A	BA	DA	FA
27	1B	3B	5B	7B	9B	BB	DB	FB
28	1C	3C	5C	7C	9C	BC	DC	FC
29	1D	3D	5D	7D	9D	BD	DD	FD
30	1E	3E	5E	7E	9E	BE	DE	FE
31	1F	3F	5F	7F	9F	BF	DF	FF

Note that only one address byte is used in local emulation. The address of the first device (lowest DV addr) is also called CU-address.

Table 2. Standard addressing format for max. 16 terminals connected to one communication processor (CPL).

Internal Device Addr.	COMMUNICATION PROCESSOR															
	CU0	CU1	CU2	CU3	CU4	CU5	CU6	CU7	CU8	CU9	CU10	CU11	CU12	CU13	CU14	CU15
0	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
1	01	11	21	31	41	51	61	71	81	91	A1	B1	C1	D1	E1	F1
2	02	12	22	32	42	52	62	72	82	92	A2	B2	C2	D2	E2	F2
3	03	13	23	33	43	53	63	73	83	93	A3	B3	C3	D3	E3	F3
4	04	14	24	34	44	54	64	74	84	94	A4	B4	C4	D4	E4	F4
5	05	15	25	35	45	55	65	75	85	95	A5	B5	C5	D5	E5	F5
6	06	16	26	36	46	56	66	76	86	96	A6	B6	C6	D6	E6	F6
7	07	17	27	37	47	57	67	77	87	97	A7	B7	C7	D7	E7	F7
8	08	18	28	38	48	58	68	78	88	98	A8	B8	C8	D8	E8	F8
9	09	19	29	39	49	59	69	79	89	99	A9	B9	C9	D9	E9	F9
10	0A	1A	2A	3A	4A	5A	6A	7A	8A	9A	AA	BA	CA	DA	EA	FA
11	0B	1B	2B	3B	4B	5B	6B	7B	8B	9B	AB	BB	CB	DB	EB	FB
12	0C	1C	2C	3C	4C	5C	6C	7C	8C	9C	AC	BC	CC	DC	EC	FC
13	0D	1D	2D	3D	4D	5D	6D	7D	8D	9D	AD	BD	CD	DD	ED	FD
14	0E	1E	2E	3E	4E	5E	6E	7E	8E	9E	AE	BE	CE	DE	EE	FE
15	0F	1F	2F	3F	4F	5F	6F	7F	8F	9F	AF	BF	CF	DF	EF	FF

Table 3. Standard addressing format for max. 8 terminals connected to one communication processor (CPL).

Internal Device Addr.	COMMUNICATION PROCESSOR															
	CU0	CU2	CU4	CU6	CU8	CU10	CU12	CU14	CU16	CU18	CU20	CU22	CU24	CU26	CU28	CU30
0	00	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
1	01	11	21	31	41	51	61	71	81	91	A1	B1	C1	D1	E1	F1
2	02	12	22	32	42	52	62	72	82	92	A2	B2	C2	D2	E2	F2
3	03	13	23	33	43	53	63	73	83	93	A3	B3	C3	D3	E3	F3
4	04	14	24	34	44	54	64	74	84	94	A4	B4	C4	D4	E4	F4
5	05	15	25	35	45	55	65	75	85	95	A5	B5	C5	D5	E5	F5
6	06	16	26	36	46	56	66	76	86	96	A6	B6	C6	D6	E6	F6
7	07	17	27	37	47	57	67	77	87	97	A7	B7	C7	D7	E7	F7
	CU1	CU3	CU5	CU7	CU9	CU11	CU13	CU15	CU17	CU19	CU21	CU23	CU25	CU27	CU29	CU31
0	08	18	28	38	48	58	68	78	88	98	A8	B8	C8	D8	E8	F8
1	09	19	29	39	49	59	69	79	89	99	A9	B9	C9	D9	E9	F9
2	0A	1A	2A	3A	4A	5A	6A	7A	8A	9A	AA	BA	CA	DA	EA	FA
3	0B	1B	2B	3B	4B	5B	6B	7B	8B	9B	AB	BB	CB	DB	EB	FB
4	0C	1C	2C	3C	4C	5C	6C	7C	8C	9C	AC	BC	CC	DC	EC	FC
5	0D	1D	2D	3D	4D	5D	6D	7D	8D	9D	AD	BD	CD	DD	ED	FD
6	0E	1E	2E	3E	4E	5E	6E	7E	8E	9E	AE	BE	CE	DE	EE	FE
7	0F	1F	2F	3F	4F	5F	6F	7F	8F	9F	AF	BF	CF	DF	EF	FF

```
********** C O N S O L E   M O D E **********

        3270 EMULATION ADDRESSES

            CU-ADDR     >40<

INSERT DV-ADDRESSES INTO THE LOG.ADDR. TABLE

LOG.ADDR. 0     1     2     3     4     5     6     7     8     9     10
     DU  >40<  >41<  >42<  >43<  >44<  >45<  >46<  >47<  >48<  >49<  >4A<
     PU  >  <  >  <  >5E<  >  <  >  <  >  <  >  <  >  <  >5F<  >  <  >  <

LOG.ADDR. 11    12    13    14    15    16    17    18    19    20    21
     DU  >4B<  >4C<  >4D<  >4E<  >4F<  >50<  >51<  >52<  >53<  >54<  >55<
     PU  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <

LOG.ADDR. 22    23    24    25    26    27    28    29    30    31
     DU  >56<  >57<  >58<  >59<  >5A<  >5B<  >5C<  >5D<  >  <  >  <
     PU  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <  >  <

EXECUTE        RETURN
ENTER          PF12
```

An example of local addresses is illustrated above. Note that no default addresses are used on delivered diskettes.

Display Unit 4110.

Logon name >EM3274< Load map No. >0XX<,
XX can vary from 01 to 10 inclusive.

0. ID handling principle.
   - 01 IMS or the like
   - 00 CICS, TSO or the like

1. Magnetic Identification Device 4131 connected to the display unit (MID conn)
   - 01 Connected
   - 00 Not connected

2. Numeric lock feature
   - 01 Used
   - 00 Not used

3. Byte to be sent to the printer before a local printout (Before print)
   - 0D Carriage return
   - 0C Form feed

4. Byte to be sent to the printer after a local printout (After print)
   - 0C Form feed (FF)
   - 0A Line feed (LF)
   - 00 No byte sent

5, 6 Screen size and printer buffer size

	Default screen size	Alternate screen size/ Printer buffer size	
01	12×40	12×80	960
02	24×80	24×80	1920
03	24×80	32×80	2560
04	24×80	43×80	3440

7. NL, DUP and NL, FM replacement (NL repl)
   - 01 The two byte sequences NL, DUP and NL, FM shall be replaced by VT and FF orders respectively
   - 00 No replacement

8. Reserved, must be 00

9. Keyboard type connected to the display unit (Data Entry)
   - 00 Typewriter or Typewriter Alternate
   - 01 Data Entry

A. Keyboard repetition frequency (KB rep.)
   - 00 25 Hz
   - 01 12.5 Hz

B. Display functions (Disp. func.)
   - 00 Covering cursor, underlined space
   - 10 Transparent cursor, underlined space
   - 20 Covering cursor, underlined word
   - 30 Transparent cursor, underlined word

C. Reserved, must be 80

D. Reserved for service engineers only

E. Reserved, must be 20

F. Reserved, must be 00

```
                    **********  C O N S O L E   M O D E   **********
                                R E A D / C H A N G E   V O L U M E
VOL NAME>LOCAL    <VERSION >__<LIBRARY >EMLIB1  <FILE /MEMBER  >EADEMPA1<TYPE>A<
LOGADDR>SS<DRIVE>1<REC>0001<AT >     <PUT>                                    <
          0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000       00 00 01 00 0C 02 02 00 00 00 01 30 80 00 20 00        ............0.. .
001       80 00 00 00 AA                                         .....
NUMB:30062400 BLOCS:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:3A0C SIZE:00001
EXECUTE   PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT   RETURN   REC NO=0001
ENTER        PF1           PF2                PF3            PF12
```

Fill in the functions that are to be used into the form below. Compare with the default values on next page before entering new values into the form on the screen.

Load map number	1	2	3	4	5	6	7	8	9	10
EADEMPA	1	2	3	4	5	6	7	8	9	A
Byte Parameter										
0 IMS used										
1 MID conn										
2 Numeric lock										
3 Before print										
4 After print										
5 Screen size										
6 Print buff size										
7 NL repl										
9 Data Entry										
A KB rep										
B Disp func										

The following table presents the default values used on delivered diskettes.

Load map number		1	2	3	4	5	6	7	8	9	10
EADEMPA		1	2	3	4	5	6	7	8	9	A
Byte	Parameter										
0	IMS used	00	00	00	00	00	00	01	00	00	00
1	MID conn	00	01	00	00	00	00	01	00	00	00
2	Numeric lock	01	01	01	01	01	01	01	01	01	01
3	Before print	0D	0D	0D	0D	0D	0D	0D	0D	0C	0D
4	After print	0C	0C	0C	0C	0C	0C	0C	0C	00	0C
5	Screen size	02	02	02	02	03*	04*	02	02	02	01
6	Print buff size	02	02	02	02	03*	04*	02	02	02	01
7	NL repl.	00	00	00	00	00	00	00	01	00	00
9	Data Entry	00	00	01	00	00	00	00	00	00	00
A	KB rep	01	01	01	01	01	01	01	01	01	01
B	Disp func	30	30	30	30	10	10	30	30	30	30

* These default values are 02 on diskette 4016-021.

Printer Unit 4153/4154

1. What is the maximum number of characters per printout line?
   $(50)_{16}$ max 80 char/line
   $(84)_{16}$ max 132 char/line
   $(9A)_{16}$ max 154 char/line

Printer unit connected to Alfaskop port No.	Number of characters (dec)	Hexadec

Printer Unit 4153 imposes a limit of 154 characters/line. Printer Unit 4154 imposes a limit of 132 characters/line. Any number up to and including these limits can be selected.

The default value is 132 characters/line.

```
PU                    ********** C O N S O L E   M O D E   **********                PU
on                              R E A D / C H A N G E   V O L U M E                  on
port  VOL NAME>LOCAL   <VERSION >__<LIBRARY >SYSLIB  <FILE /MEMBER >BHD00400<TYPE>F<  port
No.   LOGADDR>ss<DRIVE>1<REC>0001<AT >    <PUT>                                  <   No.
            0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
00 ---- 000  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  01
02 ---- 001  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  03
04 ---- 002  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  05
06 ---- 003  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  07
08 ---- 004  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  09
10 ---- 005  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  11
12 ---- 006  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  13
14 ---- 007  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  15
16 ---- 008  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  17
18 ---- 009  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  19
20 ---- 00A  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  21
22 ---- 00B  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  23
24 ---- 00C  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  25
26 ---- 00D  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  27
28 ---- 00E  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  29
30 ---- 00F  84 12 08 (84) 46 00 00 00 01 12 C0 (84) 46 00 00 00 ----  ....F........F...  31
     NUMB:30062400 BLOCS:00328 RECS:00328 FILES:00001 SEQ:5 LOADP:A000 SIZE:00001
     EXECUTE   PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT   RETURN   REC NO=0001
     ENTER        PF1           PF2                PF3            PF12
```

Communication Processor 4102

1 00C3 Size of cluster
- $(07)_{16}$ up to 8 terminals
- $(0F)_{16}$ up to 16 terminals
- $(1F)_{16}$ up to 32 terminals

2 00C4 Type of emulation
- $(1B)_{16}$ 3274-1B is emulated
- $(1D)_{16}$ 3274-1D is emulated

```
                    **********  C O N S O L E   M O D E   **********
                                R E A D / C H A N G E   V O L U M E
VOL NAME>LOCAL   <VERSION >__<LIBRARY >EMLIB1  <FILE /MEMBER >EACEMPAC<TYPE>A<
LOGADDR>SS<DRIVE>1<REC>0001<AT >     <PUT>                                  <
      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000   D0 00 00 00 04 08 0C 10 14 18 1C 20 24 28 2C 30        ........... $(;0
001   34 38 FF FF FF FF FF FF FF FF FF FF FF FF FF FF        48..............
002   FF FF FF 00 FF FF FF 01 FF FF FF 02 FF FF FF 03        ................
003   FF FF FF 04 FF FF FF 05 FF FF FF 06 FF FF FF 07        ................
004   FF FF FF 08 FF FF FF 09 FF FF FF 0A FF FF FF 0B        ................
005   FF FF FF 0C FF FF FF 0D FF FF FF 0E FF FF FF FF        ................
006   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
007   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
008   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
009   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00A   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00B   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00C   FF FF FF 0F 1B                                        .......£££££££££
                                                            £££££££££££££££££
                                                            £££££££££££££££££
                                                            £££££££££££££££££
NUMB:30062400 BLOCS:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:435F SIZE:00001
EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
ENTER        PF1          PF2                PF3            PF12
                 1  2
```

Automatic Loading of Emulation Software when Power is Turned On

DU logical address	Logon name	Load map No.
00	EM 3274	
01	EM 3274	
02	EM 3274	
03	EM 3274	
04	EM 3274	
05	EM 3274	
06	EM 3274	
07	EM 3274	
08	EM 3274	
09	EM 3274	
10	EM 3274	
11	EM 3274	
12	EM 3274	
13	EM 3274	
14	EM 3274	
15	EM 3274	
16	EM 3274	
17	EM 3274	
18	EM 3274	
19	EM 3274	
20	EM 3274	
21	EM 3274	
21	EM 3274	
22	EM 3274	
23	EM 3274	
24	EM 3274	
25	EM 3274	
26	EM 3274	
27	EM 3274	
28	EM 3274	
29	EM 3274	
30	EM 3274	
31	EM 3274	

As default, all display units are loaded automatically with EM 3274, load map No. 001.

If autologon is defined, both logon name and load map No. must be defined. If no autologon is wanted, *neither* logon name nor load map No. must be defined.

Printer Authorization Matrix

Use the form below to define the printer authorization matrix.

Printer log. addr.	Printer mode	Printer classes																														Source device (DU) log. addr.																							
		70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

When delivered from Datasaab, the system diskette has the following default Printer Authorization Matrix.

Printer log. addr.	Printer mode	Printer classes																														Source device (DU) log. addr.																							
		70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
08	L																	Y	Y	Y	Y	Y	Y																												

Enter the logical address of the printer and enter the printer mod (S or L, note that J must not be used).
Define class(es) by entering "Y" under the class number.
Indicate which display unit(s) (log. addr.) can use the printer for local printout by entering Y(s) under DU log. addr.

Appendix 4

Customizing Data
for
System Diskette 4015-001, M201-XX
System Diskette 4015-002, M201-XX

Contents

General

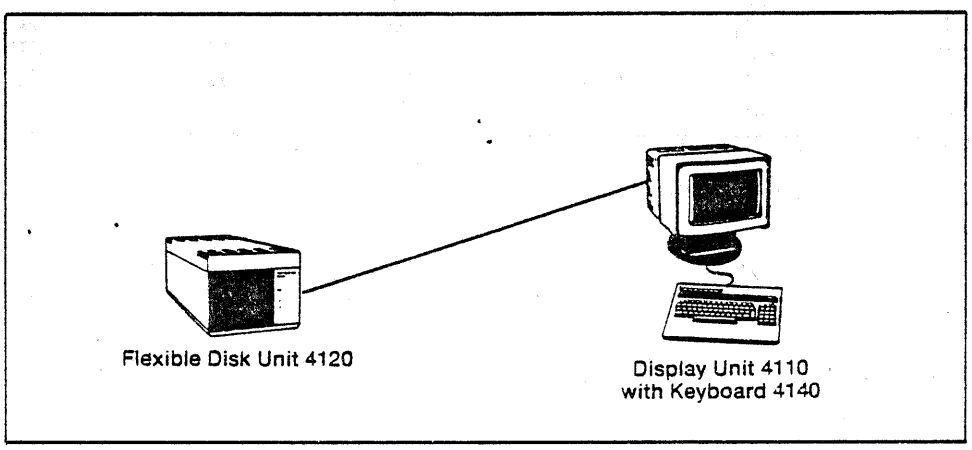
These system diskettes are designed for the IBM 3274/78 remote BSC emulation used in single-display-unit configurations.

Diskette 4015-001 provides two display unit presentation formats: 12 or 24 text lines per full screen.

Diskette 4016-002 provides four display unit presentation formats: 12, 24, 32 or 43 text lines per full screen.

All of the information called for in this Appendix must be submitted before customizing can take place.

The equipment illustrated below is needed for customizing.



Customizing station

Addresses within Alfaskop System 41

Fill in the addresses that are to be used below. Permissible addresses appear in table 1 and table 2.

Single display unit (CU) polling address _____
Display unit DV address _____
Keyboard version (KB TAB No.)_____
Printer unit DV address _____

Keyboard	KBTAB No.
Typewriter Alt	0
Data Entry	1
Typewriter	2
Monocase Alt	3
Monocase	4

The following menus should be used when entering the above data: 3270 Emulation Addresses, Logical Addresses and Assign Keyboard.

Table 1. Communication processor remote (CU) polling address

Communication processor No.	CU address $EBCDIC_{16}$	Communication processor No.	CU address $EBCDIC_{16}$	Communication processor No.	CU address $EBCDIC_{16}$
0	40	11	4B	22	D6
1	C1	12	4C	23	D7
2	C2	13	4D	24	D8
3	C3	14	4E	25	D9
4	C4	15	4F	26	5A
5	C5	16	50	27	5B
6	C6	17	D1	28	5C
7	C7	18	D2	29	5D
8	C8	19	D3	30	5E
9	C9	20	D4	31	5F
10	4A	21	D5		

Table 2. IBM CU port No. associated with DV addresses

IBM CU port No.	DV address $EBCDIC_{16}$	IBM CU port No.	DV address $EBCDIC_{16}$	IBM CU port No.	DV address $EBCDIC_{16}$
0	40	11	4B	22	D6
1	C1	12	4C	23	D7
2	C2	13	4D	24	D8
3	C3	14	4E	25	D9
4	C4	15	4F	26	5A
5	C5	16	50	27	5B
6	C6	17	D1	28	5C
7	C7	18	D2	29	5D
8	C8	19	D3	30	5E
9	C9	20	D4	31	5F
10	4A	21	D5		

When delivered from Datasaab the system diskette has the following default addresses.

```
********** C O N S O L E   M O D E **********
      3 2 7 0   C U / D V   A D D R E S S E S

              CU-ADDR      >40<

             DEVICE        ADDR.
               DU          >40<
               PU          >C8<

EXECUTE        RETURN
ENTER          PF12
```

Printer Unit 4153/4154

1. What is the maximum number of characters per printout line?
   $(50)_{16}$ max 80 char/line
   $(84)_{16}$ max 132 char/line
   $(9A)_{16}$ max 154 char/line

Printer Unit 4153 imposes a limit of 154 characters/line. Printer Unit 4154 imposes a limit of 132 characters/line. Any number up to and including these limits can be selected.

The default value is 132 characters/line.

```
                 ********** C O N S O L E   M O D E **********
                 ①          R E A D / C H A N G E   V O L U M E
VOL NAME>SYSTM ID<VERSION >02<LIBRARY >SYSLIB  <FILE /MEMBER >BHD00400<TYPE>F<
LOGADDR>ss<DRIVE>1<REC>0001<AT >    <PUT>                                    <
      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000   01 00 02 84 46 00 00 00 00 00 00 00 00 00 00 00        ....F...........
001   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
002   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
003   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
004   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
005   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
006   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
007   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
008   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
009   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
00A   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
00B   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
00C   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
00D   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
00E   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
00F   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00        ................
NUMB:01500100 BLOCS:00512 RECS:00512 FILES:00001 SEQ:0 LOADP:A000 SIZE:00001
EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
ENTER       PF1          PF2              PF3             PF12
```

Display Unit 4110, display and printer part.

Logon name >EM3274< Load map No. >0XX<,
XX can vary from 01 to 10 inclusive.

0. ID handling principle.
   - 01 IMS or the like
   - 00 CICS, TSO or the like
1. Magnetic Identification Device 4131 connected to the display unit (MID conn)
   - 01 Connected
   - 00 Not connected
2. Numeric lock feature
   - 01 Used
   - 00 Not used
3. Byte to be sent to the printer before a local printout (Before print)
   - 0D Carriage return
   - 0C Form feed
4. Byte to be sent to the printer after a local printout (After print)
   - 0C Form feed (FF)
   - 0A Line feed (LF)
   - 00 No byte sent

5, 6 Screen size and printer buffer size

	Default screen size	Alternate screen size/ Printer buffer size	
01	12×40	12×80	960
02	24×80	24×80	1920
03	24×80	32×80	2560
04	24×80	43×80	3440

7. NL, DUP and NL, FM replacement (NL repl)
   - 01 The two byte sequences NL, DUP and NL, FM shall be replaced by VT and FF orders respectively
   - 00 No replacement
8. Reserved, must be 00
9. Keyboard type connected to the display unit (Data Entry)
   - 00 Typewriter or Typewriter Alternate
   - 01 Data Entry

A. Keyboard repetition frequency (KB rep.)
   - 00 25 Hz
   - 01 12.5 Hz

B. Display functions (Disp. func.)
   - 00 Covering cursor, underlined space
   - 10 Transparent cursor, underlined space
   - 20 Covering cursor, underlined word
   - 30 Transparent cursor, underlined word

C. Reserved, must be 80

D. Reserved for service engineers only

E. Reserved, must be 20

F. Reserved, must be 00

```
                    ********** C O N S O L E   M O D E   **********
                              R E A D / C H A N G E   V O L U M E
VOL NAME>SYSTM ID<VERSION >02<LIBRARY >EMLIB1  <FILE /MEMBER  >EADEMPA1<TYPE>A<
LOGADDR>ss<DRIVE>1<REC>0001<AT >    <PUT>                                    <
(0)      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
 000    00 00 01 0D 0C 02 02 00 00 00 01 30 80 00 20 00        ...........0.. .
 001    80 00 00 00 AA                                         .....
(1)
(2)
(3)
(4)
(5)
(6)
(7)
(9)
(A)
(B)
NUMB:01500100 BLOCS:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:BA36 SIZE:00001
EXECUTE  PAGE FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT  RETURN  REC NO=0001
ENTER       PF1           PF2                PF3            PF12
```

Fill in the functions that are to be used into the form below. Compare with the default values on next page before entering new values into the form on the screen.

Load map number	1	2	3	4	5	6	7	8	9	10
EADEMPA	1	2	3	4	5	6	7	8	9	A
Byte Parameter										
0 IMS used										
1 MID conn										
2 Numeric lock										
3 Before print										
4 After print										
5 Screen size										
6 Print buff size										
7 NL repl										
9 Data Entry										
A KB rep										
B Disp func										

The following table presents the default values used on delivered diskettes.

Load map number		1	2	3	4	5	6	7	8	9	10
EADEMPA		1	2	3	4	5	6	7	8	9	A
Byte	Parameter										
0	IMS used	00	00	00	00	00	00	01	00	00	00
1	MID conn	00	01	00	00	00	00	01	00	00	00
2	Numeric lock	01	01	01	01	01	01	01	01	01	01
3	Before print	0D	0D	0D	0D	0D	0D	0D	0D	0C	0D
4	After print	0C	0C	0C	0C	0C	0C	0C	0C	00	0C
5	Screen size	02	02	02	02	03*	04*	02	02	02	01
6	Print buff size	02	02	02	02	03*	04*	02	02	02	01
7	NL repl.	00	00	00	00	00	00	00	01	00	00
9	Data Entry	00	00	01	00	00	00	00	00	00	00
A	KB rep	01	01	.01	01	01	01	01	01	01	01
B	Disp func	30	30	30	30	10	10	30	30	30	30

*These default values are 02 on diskette 4015-001

Display Unit 4110, Communication Part

1 00C1 Timing signals in modem interface (V24)

- $(18)_{16}$ The modem provides both timing signals, i.e. receiver signal element timing (RSET) and transmitter signal element timing (TSET)
- $(17)_{16}$ Communication processor provides TSET (1200 bits/sec)
- $(16)_{16}$ " " " (2400 bits/sec)
- $(15)_{16}$ (4800 bits/sec)
- $(14)_{16}$ " " " (9600 bits/sec)

2 00C2 Diskette type (buffer size)

- 00 4015-001
- 01 4015-002

The default values are presented below.

```
                    **********  C O N S O L E   M O D E   **********
                                R E A D / C H A N G E   V O L U M E
VOL NAME>SYSTM ID<VERSION >02<LIBRARY >EMLIB1  <FILE /MEMBER >EACEMPAC<TYPE>A<
LOGADDR>ss<DRIVE>1<REC>0001<AT >     <PUT>                                   <
      0  1  2  3  4  5  6  7  8  9  A  B  C  D  E  F
000   40 00 00 00 04 08 0C 10 14 18 FF 21 FF FF FF FF        @...........!....
001   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
002   FF FF FF 40 FF FF FF C1 FF FF FF C2 FF FF FF C3        ...@............
003   FF FF FF C4 FF FF FF C5 FF FF FF C6 FF FF FF C7        ................
004   FF FF FF FF C8 FF FF FF FF FF FF FF FF FF FF FF        ................
005   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
006   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
007   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
008   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
009   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00A   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00B   FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF        ................
00C   FF FF FF 18 01 55 32 32 01                             .....U22.
1
2
                                                             ----
NUMB:01500100 BLOCS:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:8A48 SIZE:00001
EXECUTE   PAGE\FORWARD PAGE BACKWARD   CLOSE FOR DISMOUNT   RETURN   REC NO=0001
ENTER        PF1           PF2                PF3            PF12
```

Automatic Loading of Emulation Software when Power is Turned On

As default, the display unit is loaded automatically with EM 3274 load map 001.

If autologon is defined, both logon name and load map No. must be defined. If no autologon is wanted, *neither* logon name nor load map No. must be defined.

```
********** C O N S O L E   M O D E   **********
     A U T O L O G O N   D E F I N I T I O N


   LOGON NAME  LOADMAP

   >EM3274<  >001<



EXECUTE  RETURN
ENTER    PF12
```

Printer Authorization Matrix

```
********** C O N S O L E   M O D E   **********
          R E A D   / C H A N G E     P A M

     PRINTER LOG.ADDR.  >00<

     PRINTER MODE       >J<

PRINTER CLASSES

 70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85
> < > < > < > < > < > < > < > < > < > < > < > < > < > < > < > <

SOURCE DEVICE LIST  LOG. ADDR.

 0
>Y<


EXECUTE  RETURN   NEXT   PREV
ENTER    PF12     PF1    PF2
```

Enter the printer mode (S, L or J).
Define class(es) by entering "Y" under the class number.
Indicate if the display unit can use the printer for local printout by entering Y under DU log. addr.