

14
Appendix ~~13~~

Customizing Data
for M302-xx
System Diskette 4016-101 ~~M201-xx~~ used in a cluster
configuration.

List of contents

General	2
Addresses within Alfaskop System 41	3
Printer Unit	5
Display Unit 4110	8
Communication Processor 4101	12
Automatic Loading of Emulation Software when Power is Turned On	14
Printer Authorization Matrix	15-15

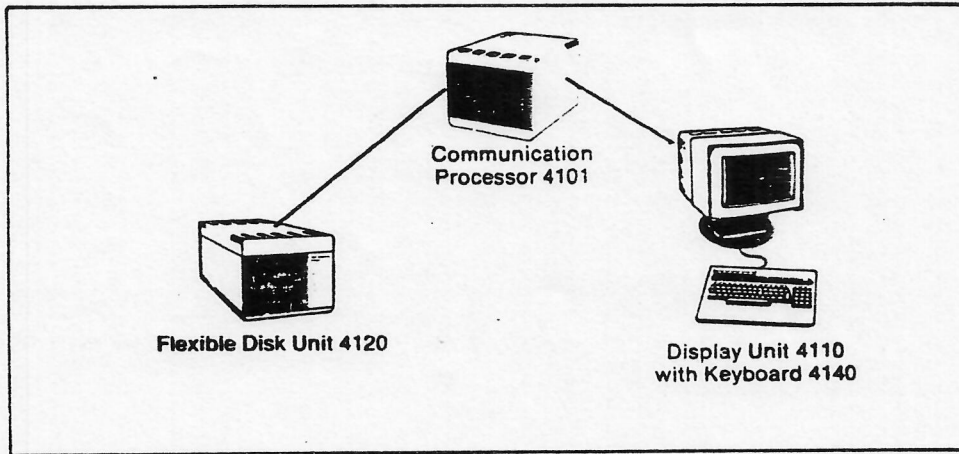
General

This system diskette is designed for the IBM 3274/78 remote BSC emulation used in cluster configurations and *Dual Host configurations*.

Diskette 4016-101 ^{M302-xx,} provides three display unit presentation formats: 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

*1. This appendix (13) only concerns customizing data when the diskette 4016-101, M302-xx (OS V3.2) is used in a single host cluster system.
When used in a Dual Host configuration*

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 4 and 5. Note that one form is needed per cluster.

Communication Processor (CU) polling addresses 41A

Alfaskop port No.	Flexible disk unit	Printer unit	Display unit	Keyboard Typewriter Alt Data Entry Typewriter Monocase Alt Monocase	KETA/E No
00	Log. = 0	Log. = DV =	Log. = 0 DV = 40		2
01	Log. = 1	Log. = 02 DV = -	Log. = 1 DV = 01		2
02	Log. =	Log. = 8 DV = 07	Log. = 02 DV = 02		2
03	Log. =	Log. = 9 DV = 08	Log. = 03 DV = 03		0
04	Log. =	Log. = 10 DV = 09	Log. = 4 DV = 04		0
05	Log. =	Log. = DV =	Log. = 5 DV = 05		0
06	Log. =	Log. = DV =	Log. = 6 DV = 06		1
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 Ericsson the system diskette has the following default addresses.

Communication Processor (CU) polling address 40.

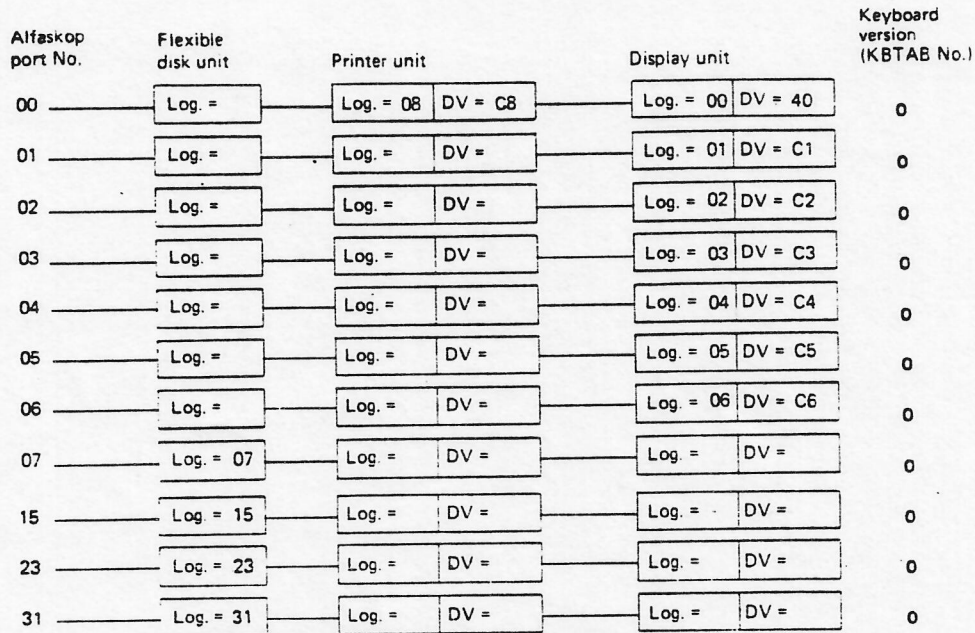


Table 1. Communication processor remote (CU) polling address

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		

Printer Unit

Library Member Type
 SYSLIB BHD00400 F

- Byte No. 0. (Table pos's 0000, 0008 etc) Printer type.

Byte value	Meaning	Selected value:
01 ₁₆	Printer type PU 4153/54 (default)	
03 ₁₆	Printer type PU 4155	
04 ₁₆	Printer type PU 4151/52	
06 ₁₆	" " PU 4156 without sheet feed	
08 ₁₆	" " PU 4156 with sheet feed	

- Byte No. 1. Transmission speed.

Byte value	Meaning	Selected value:
00	Recommended speed for selected printer type	
(default)	(=4800 bps if printer type = 01 or 03; 1200 bps if = 04)	
03	300 bps	
06	600 bps	
12	1200 bps	
24	2400 bps	
48	4800 bps	
96	9600 bps	

- Byte No. 2. Extra CR after every print job. *See Note*

Byte value	Meaning	Selected value:
01	Extra CR	
02 (default)	No extra CR	

- Byte No. 3. What is the maximum number of characters per printout line for host printouts, transparent format?

Byte value	Meaning	Selected value:
(50) ₁₆	Max 80 char/line	(hex)
(84) ₁₆	Max 132 char/line	
(96) ₁₆	Max 150 char/line	
(9A) ₁₆	Max 154 char/line	

Printer Unit 4153 imposes a limit of 154 characters/line.

Printer Unit 4154/55/51 imposes a limit of 132

characters/line. Printer Unit 4152 imposes a limit of 80 characters/line. Printer Unit 4153-002: max 150 chars/line.

Any number up to and including these limits can be selected.

Printer unit 4156 imposes a limit of 136 characters/line at 10 CPI

The default value is 132 characters/line. *and 163 characters/line at 12 CPI (changed typewheel)*

- Byte No. 4. ^{Reserved} ~~Spare function for future use.~~

Byte value	Meaning	Selected value:
46 (default)		46

- Byte No. 5. Number of extra form feeds (FF) after each print job. *See Note*

Byte value	Meaning	Selected value:
00 (default)	No extra FFs	

- Byte No. 6. Number of extra FFs after last print job in queue. *See Note.*

Byte value	Meaning	Selected value:
00 (default)	No extra FFs	

- Byte No. 7. PU inoperable warning. (Function not used).

Byte value	Meaning	Selected value:
00 (default)		

Note: Be aware that the use of non-default values for bytes 2, 5 and 6 may cause an unwanted splitting of computer-initiated printouts if a printout is sent as more than one print job (write-type commands).

Byte no	Printer connected to port No.	01	02	03	04			
0	Printer type	4152 04	4155 03	4152 04	4155 03			
1	Transmission speed	12	48	12	48			
2	Extra CR	02	02	02	02			
3	Max. char/line	50	50	50	50			
4	(Reserved)	46	46	46	46	46	46	46
5	No. of FF each print	00	00	00	00			
6	No. of FF last print	00	00	00	00			
7	(Reserved)	00	00	00	00	00	00	00

```

*****  CONSOLE MODE  *****
                READ / CHANGE VOLUME
VOL NAME>HELGE 1 <VERSION >12<LIBRARY >SYSLIE <FILE /MEMBER >BH000400<TYPE>F<
LOGADDR>=s<DRIVE>1<REC>0001<AT > <PUT>
D 1 2 3 4 5 6 7 8 9 A B C D E F
000 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
001 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
002 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
003 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
004 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
005 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
006 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
007 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
008 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
009 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
00A 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
00B 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
00C 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
00D 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
00E 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
00F 01 00 02 84 46 00 00 00 01 00 02 84 46 00 00 00 .....F.....F.....
NUMB:01610103 BLOCS:00512 RECS:00512 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
  
```

Display Unit 4110

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

Byte

0. MID:IMS/AID

1. MID:Type

Byte values, bytes 0 and 1

Type of ID	AIDs Card in:	S37 comp non-IMS		S37 comp IMS			
		E6	AID of send init key	E6	E7	7D	7D
	Card out:	E6	Not sent	Not sent	Not sent	6D	Not sent
No MID connected		00 00					
S37 compatible MID function		00 01	—	02 01	—	01 01	03 01
IBM 3278 compatible MID, No Auto Send		—	XX 02	—	—	—	(XX 02)
IBM 3278 compatible MID, Auto Send		—	—	*E6 03	*E7 03	—	7D 03*
IBM 3277 compatible MID, Auto Send		—	—	E6 04	E7 04	—	—

• Only if ENTER key pressed after card inserted.

* Card in AID for Nonsecure data cards is always 7D irrespective of byte 0 in EADEMPAX.

2. Numeric lock feature

01 Used
 00 Not used

3. Byte to be sent to the printer before a local printout (before print).

00 *No operation*
 0D *Carriage return, line feed*
 0C Form feed

4. Byte to be sent to printer after a local printout (after print).

0C Form feed (FF)
 0A Line feed (LF)
 00 No byte sent

5. Screen size

	Default screen size	Alternate screen size
02	24x80	24x80
03	24x80	32x80
04	24x80	43x80

6. Printer device buffer size, host prints. (Print buff. size).

	Default size	alternate size
02	1920	1920
03	1920	2560
04	1920	3440

7. NL, DUP and NL, FM replacement (NL repl)

- 01 The two 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 *Non - Data Entry*
~~Typewriter, Typewriter Alternate, APL, APL Alt, TW Monocase.~~
- 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.~~

- 80 *single host*

D. Execution of printer orders (Print orders).

7	6	5	4	3	2	1	0
0	0	0	0	0	0	0	0

- = 0 Form feed (FF) always carried out if 0C₁₆ encountered in printer buffer during printout.
- = 1 0C₁₆ results in FF (and a space in pos 1 of the following printed line) only when appearing at the first position of a textline.
- = 0 Lines with only NULs*) cause no printer action.
- = 1 Line with only NULs*) result in CR LF (carriage return-line feed).

*) NULs refer to attribute characters, NUL characters (00₁₆) and text in non-displayed, non-printable fields.

00 = System 37 compatible printouts
 03 = IBM compatible printouts.

2042

E. Reserved, must be ⁰⁰20

F. APL function.

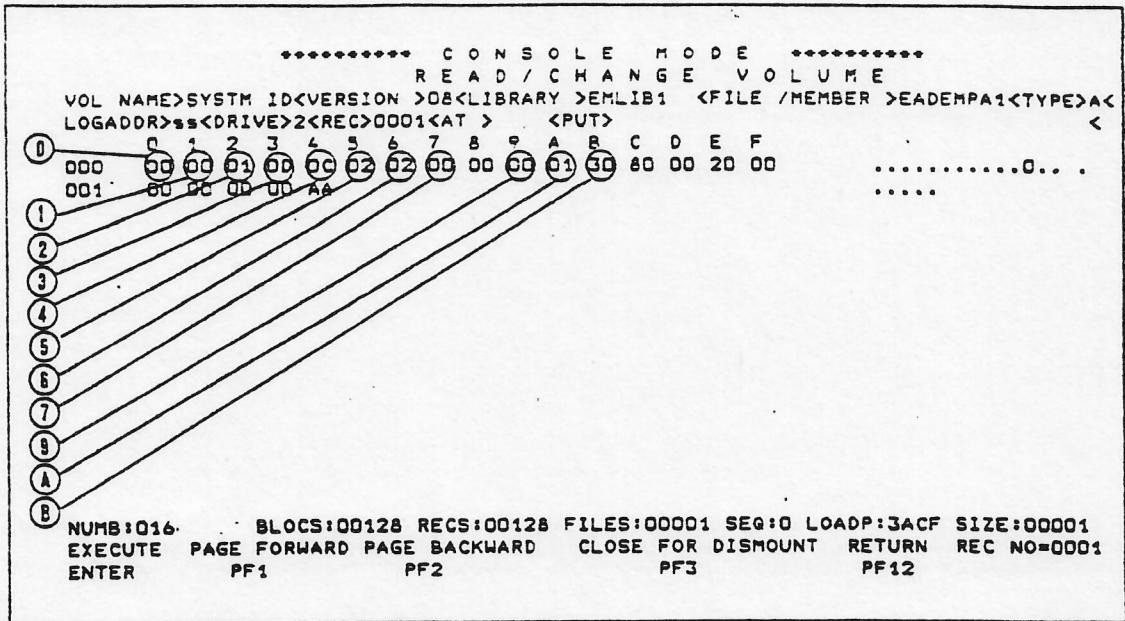
- 00 No APL function in DU or connected PU.
- 01 ~~APL function in DU and connected PU for SE/FI, GB or US.~~
- 02 ~~APL function in DU and connected PU for DK, NO, DE/AT, BE, FR or ES.~~

Fill in the functions that are to be used into the form below. Compare with the default values 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	MID: IMS/AID									
1	MID: type									
2	Numeric lock									
3	Before print									
4	After									
5	Screen size									
6	Print buff size									
7	NL repl									
8	00	00	00	00	00	00	00	00	00	00
9	Data Entry									
A	KB rep									
B	Disp func									
C	80	80	80	80	80	80	80	80	80	80
D	Print orders									
E	20	20	20	20	20	20	20	20	20	20
F	APL									

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	00	00	00	00	00	00	01	00	00	00
1	00	01	00	00	00	00	01	00	00	00
2	01	01	01	01	01	01	01	01	01	01
3	0D	0D	0D	0D	0D	0D	0D	0D	0C	0D
4	0C	0C	0C	0C	0C	0C	0C	0C	00	0C
5	02	02	02	02	03	04	02	02	02	02
6	02	02	02	02	03	04	02	02	02	02
7	00	00	00	00	00	00	00	01	00	00
8	00	00	00	00	00	00	00	00	00	00
9	00	00	01	00	00	00	00	00	00	00
A	01	01	01	01	01	01	01	01	01	01
B	30	30	30	30	10	10	30	30	30	30
C	80	80	80	80	80	80	80	80	80	80
D	00	00	00	03	00	00	00	00	00	00
E	20	20	20	20	20	20	20	20	20	20
F	00	00	00	00	00	00	00	00	00	00



Communication Processor 4101

1. 00C3 Timing signals in modem interface (V24)

18₁₆ *default* The modem provides both timing signals, i.e. receiver signal element timing (RSET) and transmitter signal element timing (TSET).

17₁₆ Communication processor provides TSET (1200 bits/sec).

16₁₆ Communication processor provides TSET (2400 bits/sec).

15₁₆ Communication processor provides TSET (4800 bits/sec).

14₁₆ Communication processor provides TSET (9600 bits/sec).

2. 00C4 01₁₆ Always = 01.

3. Table positions 00C5-00C8. Leading header for messages transmitted to the host computer.

Table pos	Default value	Meaning	Selected value:
00C5	55 ₁₆	First character	
00C6	32 ₁₆	Second character	
00C7	32 ₁₆	Third character	
00C8	01 ₁₆	Number of SYNs after header character.	

4. Request to send function

Table pos

00C9 = Normal Request to send (default).
01₁₆ = Continuous Request to send.

```

*****  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>SYSTEMID<VERSION >22<LIBRARY >EMLIB1. <FILE /MEMBER >EACENPAC<TYPE><
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 FF FF FF FF FF FF FF FF 01 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 FF 40 C8 FF FF FF FF FF FF FF FF FF FF FF      .....
003  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF      .....
004  FF FF FF FF FF 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      .....
00E  FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF      .....
00C  FF FF FF 1A 01 55 32 32 01 00 4
-----
①-----②-----③-----④
NUMB:01610100 BLOCs:00256 RECS:00256 FILES:00001 SEQ:0 LOADP:9F25 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	
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.

