SHEET INDEX

CONTENTS	SHEET NO.	SHEET ISSUE NO.
SHEET INDEX SUPPORTING INFORMATION OPTION INDEX	A1	10

AS 1   TYPICAL ARRANGEMENT FOR
         SMSI TRANSLATOR
         APPLICATION PROCESSOR
	B1	10

APP FIG. 1	C1	10
CIRCUIT NOTES EQUIPMENT NOTES	D1	10
EQUIPMENT NOTES	D1A	10
INFORMATION NOTES	D2	10

OPTION INDEX

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
L,M	5B		
H	7B		
G	8M		
F	8M		
E	9B		APP FIG. 1, AS 1

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1 APPX –	2B	1 APPX 1B	3AC	1 APPX 2AC
4B	1 APPX 3B	5B	1 APPX 4B	6B	1 APPX 5B
7B	1 APPX 6B	2-5-93			
8M	1 APPX 7M	01-23-98			
9B	1 APPX 8B	04-09-98			
10B	1 APPX 9B	2-5-99			

SUPPORTING INFORMATION

SYSTEM USED ON	DESIGN CONTROL	CATEGORY	NO.
5ESS	IH		
5ESS	IH & COM NET INC.		

SHEET INDEX NOTES

1. ONLY THE LATEST ISSUE, OR ISSUES IF CONCURRENT, ARE SHOWN IN THE INDEX.

2. FOR REISSUES, A CHANGED OR NEW SHEET IS ASSIGNED THE SAME ISSUE NUMBER AS SHEET 1.

3. THE ISSUE NUMBER OF SHEET 1 IS RECOGNIZED AS THE ISSUE NUMBER OF THE WHOLE DRAWING.

BT13

ELECTRONIC SWITCHING SYSTEMS
5ESS ®

3A SIMPLIFIED MESSAGE SYSTEM
INTERFACE TRANSLATOR
APPLICATION PROCESSOR
APPLICATION SCHEMATIC

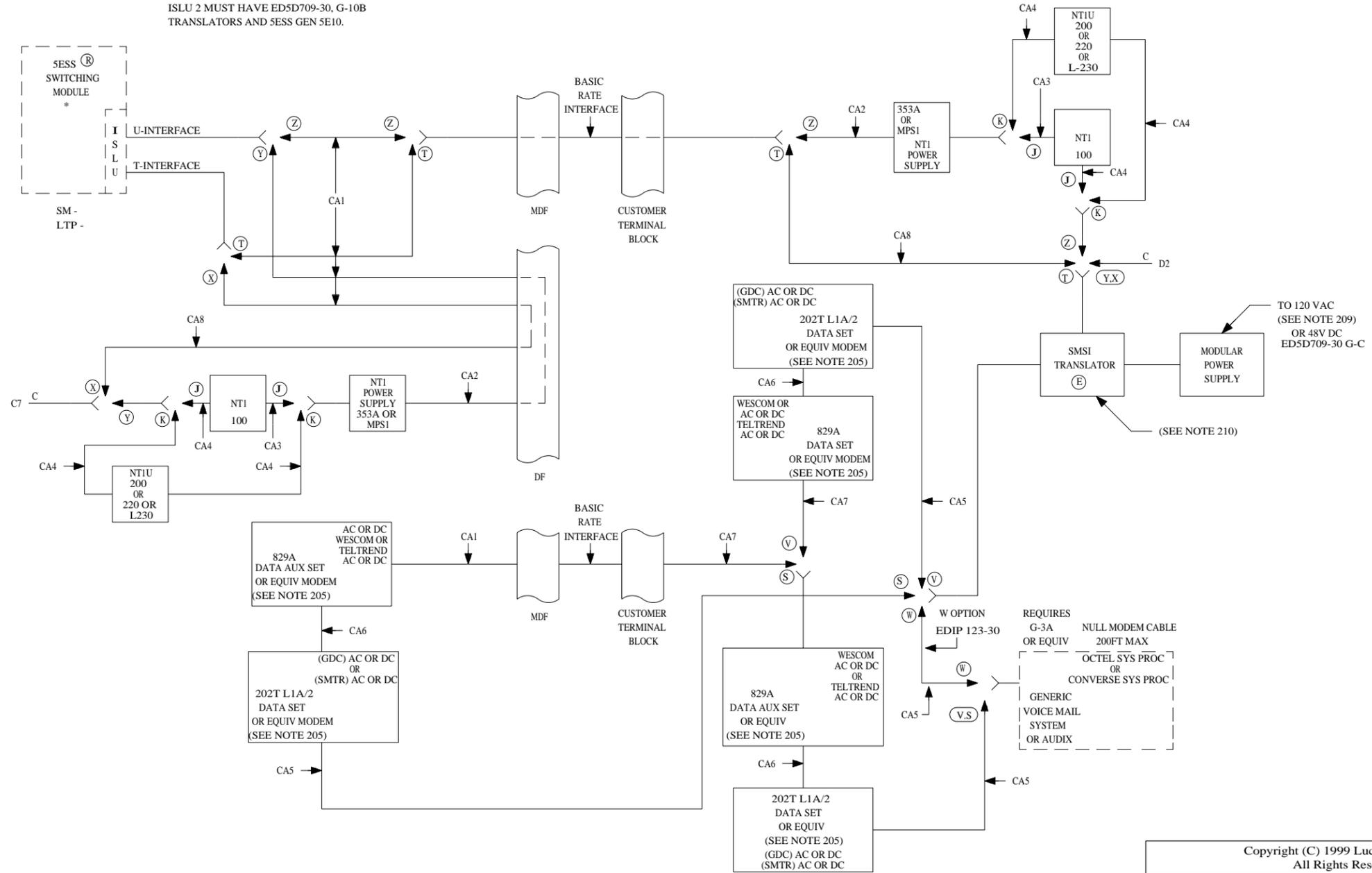| DWG SIZE	ISSUE
C2	10B

Lucent Technologies   SD-5D171-01   SHEET A1 6

AS 1

TYPICAL ARRANGEMENT FOR
SMSI TRANSLATOR APPLICATION PROCESSOR

* ISLU 0 OR ISLU 2 UNITS.
  ISLU 2 MUST HAVE ED5D709-30, G-10B
  TRANSLATORS AND 5ESS GEN 5E10.

5ESS ®
SWITCHING
MODULE
*

I
S   U-INTERFACE
L
U   T-INTERFACE

SM -
LTP -

CA1

BASIC
RATE
INTERFACE

MDF

CUSTOMER
TERMINAL
BLOCK

CA2

353A
OR
MPS1
NT1
POWER
SUPPLY

CA4

NT1U
200
OR
220
OR
L-230

CA3

NT1
100

CA4

CA4

CA8

C   D2

DF

CA8

NT1
100

NT1
POWER
SUPPLY
353A OR
MPS1

CA2

C7   C

CA4   CA4   CA3

NT1U
200
OR
220 OR
L230

CA4   CA4

(GDC) AC OR DC
(SMTR) AC OR DC
202T L1A/2
DATA SET
OR EQUIV MODEM
(SEE NOTE 205)

CA6

WESCOM OR
AC OR DC
TELTREND
AC OR DC
829A
DATA SET
OR EQUIV MODEM
(SEE NOTE 205)

SMSI
TRANSLATOR
Ⓔ

MODULAR
POWER
SUPPLY

TO 120 VAC
(SEE NOTE 209)
OR 48V DC
ED5D709-30 G-C

(SEE NOTE 210)

CA7

CA5

AC OR DC
WESCOM OR
TELTREND
AC OR DC

829A
DATA AUX SET
OR EQUIV MODEM
(SEE NOTE 205)

CA1

BASIC
RATE
INTERFACE

MDF

CUSTOMER
TERMINAL
BLOCK

CA7

V

S

W

S   V

W OPTION
EDIP 123-30

W

CA5

V.S

REQUIRES
G-3A
OR EQUIV

NULL MODEM CABLE
200FT MAX
OCTEL SYS PROC
OR
CONVERSE SYS PROC
GENERIC
VOICE MAIL
SYSTEM
OR AUDIX

CA6

(GDC) AC OR DC
OR
(SMTR) AC OR DC
202T L1A/2
DATA SET
OR EQUIV MODEM
(SEE NOTE 205)

CA5

829A
DATA AUX SET
OR EQUIV
(SEE NOTE 205)

WESCOM
AC OR DC
OR
TELTREND
AC OR DC

CA6

CA5

202T L1A/2
DATA SET
OR EQUIV
(SEE NOTE 205)
(GDC) AC OR DC
(SMTR) AC OR DC

3A SIMPLIFIED MESSAGE SYSTEM INTERFACE TRANSLATOR APPLICATION PROCESSOR APPLICATION SCHEMATIC	DWG SIZE	ISSUE
	C2	10B
Lucent Technologies SD-5D171-01		SHEET B1

APP FIG. 1

UNIT

OPTION		CODE
(DA)	H	3A SMSI (601387269)
(DA)	L	3A SMSI-PRIVACY CONTROL (601325350)
(DA)	M	3A SMSI (601325335)
(DA)	N	3A SMSI - PRIVACY CONTROL (601323652)
(DA)	P	3A SMSI (601329089)
(DA)	Q	3A SMSI (106016876)
(DA)	R	3A SMSI (10537927C)
	Y,Z	WT1
(DA)	F,G	3A (601799265), (601791932)
	E	3A SMSI (601864549) & SMSI TRADE UP (601868227)

SET

OPTION	CODE
V,S	829A DATA AUX, WESCOM, TELTREND, 3811
V,S	202T L1A/2 DATA, GDC, SMTR, 3811

POWER SUPPLY

OPTION		CODE
	Y,Z	353A, MPS1, (AC)
(DA)	N,P,Q,R	WM113 (ELPAC POWER SUPPLY) (AC)
	L,M	WM113-S (ELPAC POWER SUPPLY) (AC)
	L,M,G,F	PWP ED5D709-30 G-C (DC)

3A SIMPLIFIED MESSAGE SYSTEM
INTERFACE TRANSLATOR
APPLICATION PROCESSOR
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	10B

Lucent Technologies

SD-5D171-01

SHEET
C1

Grid coordinates: columns 0–9 across top and bottom; rows A–H down both sides.

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER

BATTERY SYMBOL   VOLTAGE RANGE

102.

NETWORK VALUES		
NETWORK	RESISTANCE	CAPACITANCE
NO.	CODE	IN OHMS	IN UF

(Columns: NETWORK NO. | CODE | RESISTANCE IN OHMS | CAPACITANCE IN UF)

(DA) 201. A BASIC SMSI TRANSLATOR APPLICATION PROCESSOR REQUIRES THE USE OF A SMSI 3A TRANSLATOR (601329069) OR (601323652) WITH PRIVACY CONTROL.
THE SMSI TRANSLATOR IS EQUIPPED WITH 15 DIP SWITCHES WHICH MUST BE SET AS INDICATED BELOW:

EQUIPMENT NOTES:

(DA) 201. (CONT.)

SW	POSITION								
	1	2	3	4	5	6	7	8	
1	0	1	0	1	0	1	0	1	
2	0	1	0	1	0	1	0	1	
3	0	1	0	1	0	0	0	1	1200 BAUD
					0	1	1	0	2400 BAUD
					0	1	1	1	4800 BAUD
					1	0	0	0	9600 BAUD
4	0	1	0	1	0	0	0	1	
5	1	0	0	1	1	0	0	1	OPTION R
	0	0	0	0	0	0	0	1	OPTION Q
6	A				B				
7	B				B				
8	B				B				
9	B				B				
10	0	1	0	1	0	1	0	1	OPTION Q
	0	1	0	0	0	0	0	0	7 DIGIT DN OPTION
	0	1	0	0	0	0	0	1	10 DIGIT DN P.N
11	C				D				
12	D				D				
13	D				E	E	E	E	
14	0	1	0	1	0	1	0	1	
15	0	1	0	1	0	1	0	1	

A = LCEN HOST SIGNIFICANT DIGIT
B = LCEN NEXT HOST SIGNIFICANT DIGIT
C = RCID HOST SIGNIFICANT DIGIT
D = BCID NEXT HOST SIGNIFICANT DIGIT
E = SEE NOTE 207

BCD CODES:
0000 = 0   0101 = 5
0001 = 1   0110 = 6
0010 = 2   0111 = 7
0011 = 3   1000 = 8
0100 = 4   1001 = 9

WITHIN THE DIP SWITCH POSITION 1-4 IS THE FIRST CODED NUMBER AND POSITIONS 5-8 IS THE SECOND CODED NUMBER. ETC.

202. THE FOLLOWING CABLES ARE RECOMMENDED FOR SMSI TRANSLATOR APPLICATION PROCESSOR APPLICATIONS:

CABLE DESIG	EQUIPMENT TO BE CONNECTED		CABLE TYPE
CA1	5ESS® SWITCH MODULE TO MDF OR DF	FOR 711 TYPE CONNECTOR	ED-5D621-11, G21-24
		FOR SWC TYPE CONNECTOR	ED-5D621-11, G21A-24A
		FOR TRW TYPE CONNECTOR	ED-5D621-11, G21B-24B
CA2	DISTRIBUTING FRAME TO NT1 POWER SUPPLY		ED-5D621-11, G61 MPS1 ED5D621-11 G-62
CA3	NT1 POWER SUPPLY TO NT1		D6AP-87 CORD 353A
CA4	NT1 TO SMSI TRANSLATOR		
	NT1U 200 TO NT1 ,220, L-230 POWER SUPPLY		D8W-87 CORD
	NT1U 200 TO SMSI ,220, L-230 TRANSLATOR		
CA5	SMSI TRANSLATOR TO DATA SET 200FT MAX LOW-CAPACITANCE CABLE OR M25A-87 CORD (MALE-FEMALE) OR M25B-87 CORD MALE TO MALE.		ED1P123-30 G-6A
	DATA SET TO VMS OR AUDIX M25B-87 CORD (MALE-MALE) OR M25A-87 CORD MALE TO FEMALE		OR CABLE COM. INC. AC-1091-XXX/FT RS232 DB 25 M/M 1 THRU 25 CORD ASSY
	SMSI TRANSLATOR TO VMS OR AUDIX 200FT MAX LOW-CAPACITANCE CABLE		ED1P123-30 G-3A
CA6	DATA SET TO DATA AUX SET		B25A CABLE
CA7	DATA AUX SET TO MDF OR CUSTOMER TERMINAL BLOCK DATA AUX SET TO DATA AUX SET		812A CABLE
CA8	SMSI TRANSLATOR TO DF OR CUSTOMER TERMINAL BLOCK		ED-5D621-11, G62 OR CABLE COM INC. AC-1093-XXX/FT CA CORD

EQUIPMENT NOTES (CONT):

203. THE MAXIMUM DISTANCE (WIRING LENGTH) BETWEEN THE 5ESS® SWITCH MODULE AND 3A SMSI IS:

FOR 'T' INTERFACE (4 WIRE) = 1 KILOMETER
FOR 'U' INTERFACE (2 WIRE) = 6.5 KILOMETERS

204. THE VOICE MESSAGE SYSTEM CAN BE A PAPER OR VOICE MESSAGE PROCESSOR, SUCH AS VMX OR ACP VERSION 2, OR AUDIX, CONVERSE OR OCTEL.

205. A DATA SET MOUNTING IS REQUIRED FOR USE WITH THE DATA SET/DATA AUXILIARY SET AS FOLLOWS:

DATA SET OR DATA AUX SET	DATA MOUNTING	RATING	
202T	47B1	(DA)	GDC 202T OR 596V MODEM
829A	44A2	(DA)	SMTR (202T) MODEM AJ2443-PB1
			WESCOM 829A 7306-45 MODEM
			TELTREND (829A) SDS5487

- GDC MTG UNITS COM CODE 407085307.
        DS6R 16 POS RACK MOUNT (DC) 23"
        DSI 16 POS RACK MOUNT (AC) 23"
  OR 1 POS STANDALONE UNITS (AC OR DC)
  CALL GDC FOR NUMBERS & LUCENT FOR COM CODE.

- SMTR (CXR CO.) MTG UNITS COM CODE 406670000.
        SMTR - PB1 16 POS RACK MOUNT (DC) 23"

- TELTREND MTG UNIT COM CODE 406666818 (DDA23-120).
        12 POS RACK MOUNT (DC) 23"

- WESCOM MTG UNIT.
        12 POS RACK MOUNT (DC,AC) 23"
        8 POS RACK MOUNT (AC,DC) 23"
  OR 1 POS STANDALONE UNITS (AC OR DC).

206. WHEN THE 3A SMSI TRANSLATOR IS LOCATED IN THE CENTRAL OFFICE. THE RECOMMENDED LOCATION IS THE DATA SET CABINET, ED-5D522-31, -35 G-40 (PROTECTED AC) OR DC CAB SPECIAL MTGS 23" OTHER VENDOR J5D005C L-60C (DC PROTECTION) (AC PROTECTION INVERTER FOR DATA DET CAB CAN BE ORDERED FROM J5D005C-1 L-85 SECOND DSC IN OFFICE).

209. IF CUSTOMER REQUIRES UNITERRUPTIBLE SERVICE PROTECTED AC IS RECOMMENDED. ED5D522-35 G-40 WITH AC-DC INVERTER OR J5D005C-1 L-60 & CU (DC CAB).

210. A BASIC TRANSLATOR APPLICATION PROCESSOR REQUIRES THE USE OF A SMSI 3A TRANSLATOR.
THE PHYSICAL SIZE OT THE UNIT IS 2.5''HT X 10.25''WD X 9.8''LG.

THE CURRENT AVAILABLE TRANSLATOR IS:

OPTION M ED-5D709-30 G1,(DA) OR
OPTION L ED-5D709-30 G2 WITH
        PRIVACY CONTROL.   (DA)
OPTION H ED-5D709-30,G10 (DA)
OPTION F ED5D709-30 G-10B (DA)
OPTION E, ED-5D709-30, G20 OR G21 (FOR TRADEUUP)
SEE USER'S GUIDE LT 533-620-110

3A SIMPLIFIED MESSAGE SYSTEM INTERFACE TRANSLATOR APPLICATION PROCESSOR APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	10B

Lucent Technologies

SD-5D171-01

SHEET D1

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS,
VALUES PRECEDED BY THE SYMBOL + (PLUS)
OR - (MINUS) ARE IN VOLTS.

302.

FEATURE OR OPTION				PROVIDE		
				APP FIG	APP OR WRG	QUANTITY
U-INTERFACE (SEE NOTE 203)	SMSI TRANSLATOR					
	SMSI TRANSLATOR AND VMS ARE	ON CUSTOMER PREMISE	SMSI IS WITHIN 50 FT OR VMS OR AUDIX		Z,W	
			SMSI IS FARTHER THAN 50 FT FROM VMS OR AUDIX		Z,V	
		IN CENTRAL OFFICE SW	SMSI IS WITHIN 50 FT OF VMS OR AUDIX		Y,W	
			SMSI IS FARTHER THAN 50 FT FROM VMS OR AUDIX		Y,V	
	SMSI TRANSLATOR IS IN CENTRAL OFFICE AND VMS IS ON CUSTOMER PREMISE.				Y,S	
T-INTERFACE (SEE NOTE 203)	SMSI TRANSLATOR AND VMS ARE	ON CUSTOMER PREMISE	SMSI IS WITHIN 50 FT OR VMS OR AUDIX	1	T,W	1 PER SYSTEM
			SMSI IS FARTHER THAN 50 FT FROM VMS OR AUDIX		T,V	
		IN CENTRAL OFFICE SW	SMSI IS WITHIN 50 FT OF VMS OR AUDIX		X,W	
			SMSI IS FARTHER THAN 50 FT FROM VMS OR AUDIX		X,V	
	SMSI TRANSLATOR IS IN CENTRAL OFFICE AND VMS IS ON CUSTOMER PREMISE.				X,S	
WHEN	NT1,100	IS PROVIDED			J	
	NT1U 200,220,L-230				K	
WHEN	ED5D709-30,G1	IS PROVIDED			M	
	ED5D709-30,G2				L	
WHEN	ED5D709-30,G10	IS PROVIDED			H	
	ED5D709-30,G10A				G	
	ED5D709-30,G10B				F	
WHEN	SMSI IS PROVIDED ED5D709-30, G20 & G21 (FOR TRADE UP)	IS PROVIDED			E	

INFORMATION NOTES (CONT):

303.

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES					
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT	
				AVAIL	DA
2B	Q	R	306	Q	R
3AC	P	Q	306	P	Q
4B	N,P	Q	306	N	Q
5B	L,M	N,P	306	L,M	N,P
7B	H	L,M	306	H	L,M
8M					H,F,G
9B	E	F	306	E	F

304. THE FOLLOWING IS A LIST OF ASSOCIATED CIRCUITS:

SD-5D001-01 5ESS ® FLOOR PLAN DATA
SD-5D014-02 5ESS ® SYSTEM APPLICATION SCHEMATIC
SD-5D091-01 ISLU
SD-5D118-01 SWITCHING MODULE

305. GLOSSARY:

SMSI   SIMPLIFIED MESSAGE SERVICE INTERFACE
LCEM   LINE CARD EQUIPMENT NUMBER
BCID   BUSINESS CUSTOMER IDENTIFICATION
BCD   BINARY CODED DECIMAL

306. 3A SMSI TRANSLATORS PER OPTION ''R'' ARE FOR GENERIC
5E4(2) ONLY. TRANSLATORS PER OPTION ''Q'' ARE FOR   (DA)
GENERIC 5E5 ONLY.

TRANSLATORS PER OPTION ''P'' OR ''N'' ARE FOR SOFTWARE
RELEASE 5E6 AND ARE COMPATIBLE WITH EARLIER GENERICS. (DA)

TRANSLATORS PER OPTION ''L'' OR ''M'' ARE FOR SOFTWARE (DA)
RELEASE 5E4(2) OR LATER.

TRANSLATORS PER OPTION "H" ARE FOR
SOFTWARE RELEASE 5E4(2) OR LATER.   (DA)

TRANSLATORS PER OPTION "G" ARE FOR
SOFTWARE RELEASE 5E9(1) OR LATER.   (DA)

TRANSLATORS PER OPTION "F" ARE FOR
SOFTWARE RELEASE 5E10.1 OR LATER.   (DA)

TRANSLATORS PER OPTION "E" ARE FOR
SOFTWARE RELEASE 5E11 OR 5E12 OR LATER

3A SIMPLIFIED MESSAGE SYSTEM
INTERFACE TRANSLATOR
APPLICATION PROCESSOR
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	10B

Lucent Technologies | SD-5D171-01 | SHEET D2

EQUIPMENT NOTES (CONT):

(DA) 207. SWITCH SETTINGS FOR CUSTOMER PRIVACY CONTROL OPTION 'N'.

| PRIVACY CONTROL | | | | | |
IF CUSTOMER'S NEEDS ARE	ROCKER 5	ROCKER 6	ROCKER 7	ROCKER 8	BCID
CALLING ID ALWAYS SET. *	0	0	0	0	<65.034
CALLING ID SENT IF CALL WAS FORWARDED. CALLING ID BLOCKED IF CALL WAS DIRECT.	0	0	0	1	<65.034
CALLING ID SENT IF CALL WAS DIRECT. CALLING ID SENT IF CALL WAS FORWARDED AND INTRA-GROUP. CALLING ID BLOCKED IF CALL WAS FORWARDED AND INTER-GROUP.	0	0	1	0	<65.034
CALLING ID BLOCKED IF CALL WAS DIRECT. CALLING ID SENT IF CALL WAS FORWARDED AND INTRA-GROUP. CALLING ID BLOCKED IF CALL WAS FORWARDED AND INTER-GROUP.	0	0	1	1	<65.034
CALLING ID IS ALWAYS SENT. *	0	0	0	0	<65.034
CALLING ID SENT IF CALL WAS FORWARDED. CALLING ID BLOCKED IF CALL WAS DIRECT.	0	0	0	1	<65.034
CALLING ID BLOCKED IF CALL WAS FORWARDED. CALLING ID SENT IF CALL WAS DIRECT.	0	0	1	0	<65.034
CALLING ID ALWAYS BLOCKED.	0	0	1	1	<65.034

* EFFECTIVELY MEANS THAT PRIVACY CONTROL IS TURNED OFF/DISABLED.

208. PROGRAMMING THE 3A SMSI TRANSLATOR THE FOLLOWING PROCEDURES
      ARE RECOMMENDED. (FOR OPTIONS ''L & M'' ONLY).

● TO ENTER PROGRAM MODE:
   1. POWER CYCLE THE UNIT.
   2. AS SOON AS ATP IS DISPLAYED, PRESS AND HOLD SWITCH S1.
   3. ONCE PROGMODE IS DISPLAYED, RELEASE SWITCH S1.

● WHILE IN PROGRAM MODE:
   1. PRESS SWITCH S1 TO SELECT DESIRED OPTION (SEE OPTIONS BELOW).
   2. THEN PRESS SWITCH S2 TO ENTER CHANGE MODE.
   3. OR PRESS SWITCH S3 TO DISPLAY THE CURRENT SETTINGS.
   4. SWITCH S4 ENDS PROGRAM MODE AND STARTS SMSI SOFTWARE.

● WHILE IN CHANGE MODE:
   1. PRESS SWITCH S2 TO STEP THRU AVAILABLE SETTINGS OR VAULES.
   2. FOLLOWED BY SWITCH S1 TO SAVE CHANGES AND END CHANGE MODE.
   3. OR SWITCH S4 TO END CHANGE MODE WITHOUT SAVING ANY CHANGES.
   4. WHILE SETTING LCEN, BCID OT TEI, SWITCH S3 MOVES RIGHT 1 DIGIT.

● OPTIONS:
   SMSIBAUD   SMSIPRTY   LCEN   BCID
   TEI   DN SIZE   DIAGBAUD   DIAGPRTY
   DIAGMODE   PRIVMODE*   PRIVCHAR*   RUN MODE

   *SMSI WITH PRIVACY CONTROL ONLY.

209. IF CUSTOMER REQUIRES UNINTERRUPTIBLE SERVICE, PROTECTED AC IS RECOMMENDED.
      OR 23" UPRIGHT J5D005C-1 5ESS MISC CABINET (DC) L-60C, CU AND OTHER REQUIRED LISTS.

3A SIMPLIFIED MESSAGE SYSTEM
INTERFACE TRANSLATOR
APPLICATION PROCESSOR
APPLICATION SCHEMATIC

DWG SIZE	ISSUE
C2	10B

| Lucent Technologies | SD-5D171-01 | SHEET D1A |