

**Lucent Technologies**  
Bell Labs Innovations



# **AnyMedia<sup>®</sup> Access System**

Retrofit of Existing DLC  
Equipment to AnyMedia Access  
System Equipment

Engineering Guidelines

363-211-178  
Issue 1  
June 2001

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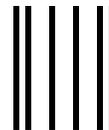
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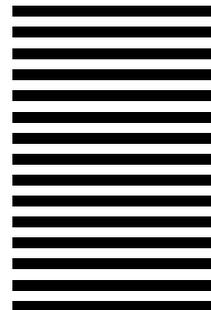
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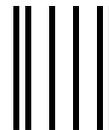
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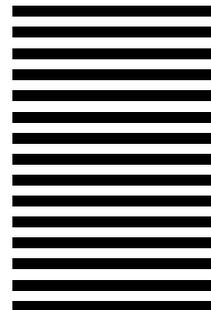
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## About This Document

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### **Purpose and Scope**

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This document contains the engineering guidelines that are used to retrofit existing digital loop carrier (DLC) equipment to Lucent Technologies modern, high performing *AnyMedia*<sup>®</sup> Access System. It also includes the forms that contain the information necessary to conduct a *site survey* for planning purposes.

### **Intended Audience**

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This document is intended for network planners and engineers with the responsibility of planning the retrofit from existing DLC equipment to the *AnyMedia* Access System.

### **Reasons for Reissue**

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When this document is reissued, the reasons for reissue will be listed in this section.

## How This Document is Organized

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This document is organized as follows:

- About This Document

This section contains the purpose, scope, and intended audience for the document. It also provides introductory and support information and includes contacts for documentation orders.

- Chapter 1, Introduction

This chapter explains how to use this document and guides you to the chapter that contains the information for your specific application.

- Chapter 2, 80( ) and 82( ) Type, Bulk-Powered Cabinets

This chapter contains the engineering guidelines to retrofit your existing *SLC*<sup>®</sup> Series 5 Carrier System equipment that is installed in 80( ) and 82( ) type, bulk-powered cabinets to the *AnyMedia* Access System equipment.

- Chapter 3, Controlled Environment Vaults, Huts, and Customer Premises Applications (Using the Adapter Kit Comcode 848578704)

(See Note.) This chapter contains the engineering guidelines to retrofit your existing *SLC*<sup>®</sup> Series 5 Carrier System equipment that is installed in controlled environment vaults (CEVs), huts, and customer premises applications to the *AnyMedia* Access System equipment.



**NOTE:**

Most customers will use the engineering guidelines given in Chapter 4 when they retrofit equipment in CEVs, huts, and customer premises applications. Although the Adapter Kit Comcode 848578704 is in use, this kit is rated discontinued availability (DA) and is no longer orderable.

- Chapter 4, Controlled Environment Vaults, Huts, and Customer Premises Applications (Using Adapter Kit Comcode 848606752)

This chapter contains the engineering guidelines to retrofit your existing *SLC*<sup>®</sup> Series 5 Carrier System equipment that is installed in CEVs, huts, and customer premises applications to the *AnyMedia* Access System equipment.

- Chapter 5, Central Office Terminals and Bays

This chapter contains the engineering guidelines to retrofit your existing *SLC*<sup>®</sup> Series 5 Carrier System COT equipment that is installed in bays to the *AnyMedia* Access System equipment.

- Appendix A, Site Surveys

This appendix contains the site survey forms for specific applications when you retrofit your existing *SLC*<sup>®</sup> Series 5 Carrier System equipment to the *AnyMedia* Access System equipment.

- Abbreviations and Acronyms

This section contains a list of abbreviations and acronyms in this document.

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# Introduction

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# Introduction

# 1

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## Overview

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This document contains the engineering guidelines used to retrofit existing digital loop carrier (DLC) equipment to Lucent Technologies modern, high performing *AnyMedia*<sup>®</sup> Access System. Appendix A of this document also includes the forms containing the information necessary to conduct a *site survey* for planning purposes. After gathering the information during the site survey and applying the engineering guidelines, you should be ready to begin the ordering process and conversion of your existing DLC system to the *AnyMedia* Access System.

See the following Methods Implementation Procedure (MIP) for detailed installation instructions:

- **(See Note)** Document 363-211-190 — *AnyMedia*<sup>®</sup> Access System, Out-Of-Service Replacement of SLC<sup>®</sup> Series 5 Dual Channel Bank with *AnyMedia*<sup>®</sup> Access System Fast<sup>™</sup> Shelf in Controlled Environment Vaults (CEV), Huts or Customer Premise Locations (Using the 848578704 Adapter Kit)



**NOTE:**

This application has been rated Discontinued Availability (DA)

- Document 363-211-192 — *AnyMedia*<sup>®</sup> Access System, Out-Of-Service Replacement of SLC<sup>®</sup> Series 5 Dual Channel Bank with *AnyMedia*<sup>®</sup> Access System Fast<sup>™</sup> Shelf in Controlled Environment Vaults (CEV) Huts or Customer Premise Locations (Using the 848606752 Adapter Kit)

- Document 363-211-109 — *AnyMedia<sup>®</sup> Access System, Out-Of-Service Replacement of SLC<sup>®</sup> Series 5 Dual Channel Bank with AnyMedia<sup>®</sup> Access System Fast<sup>™</sup> Shelf in 80/82 Type Bulk Powered Cabinets (Using the 108818717 Adapter Kit)*
- Document 363-211-191 — *AnyMedia<sup>®</sup> Access System, Out-Of-Service Replacement of SLC<sup>®</sup> Series 5 Central Office Terminal (COT) Dual Channel Bank with an AnyMedia<sup>®</sup> Access System (COT) Fast<sup>™</sup> Shelf in a SLC<sup>®</sup> Series 5 COT Bay (Using the 848613436 Adapter Kit)*

## Site Surveys

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The first step of planning your conversion is to conduct a site survey. Appendix A contains forms that includes most of the information that you will need to make the proper decisions on purchasing and installing the equipment. Appendix A includes site surveys for the following applications:

- Lucent Technologies 80( ) and 82( ) type Cabinets
- Non-Lucent Technologies Cabinets



**NOTE:**

If the site involves a Non-Lucent Technologies cabinet, retrofit must be custom engineered on a site-by-site basis. There are no generic engineering guidelines for this situation.

- Controlled Environment Vaults (CEVs), Huts, and Customer Premise Sites.

## Engineering Guidelines

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Once you have completed the site survey, go to one of the following chapters for the engineering guidelines for your specific application:

- **Chapter 2** — 80( ) and 82( ) Type Bulk Powered Cabinets
- **Chapter 3** — (See Note.) Controlled Environment Vaults (CEVs), Huts, and Customer Premises Applications (Using the Adapter Kit Comcode 848578704)



**NOTE:**

Most customers will use the engineering guidelines given in Chapter 4 when retrofitting equipment in CEVs and huts. Although the Adapter Kit Comcode 848578704 is in use, this kit is rated discontinued availability (DA) and is no longer orderable.

- **Chapter 4** — Controlled Environment Vaults (CEVs), Huts, and Customer Premises Applications (Using the Adapter Kit Comcode 848606752)
- **Chapter 5** — Central Office Terminal (COT) Banks and Bays.

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# 80( ) and 82( ) Type Bulk Powered Cabinets

# 2

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# 80( ) and 82( ) Type Bulk Powered Cabinets

# 2

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## Overview

This chapter provides the engineering guidelines to replace existing *SLC*<sup>®</sup> Series 5 Carrier System equipment with an *AnyMedia*<sup>®</sup> Access System in the following Lucent Technologies factory built and equipped cabinets:

- 80A Cabinets (ED7C711-30, G90)
- 80D-BP Cabinets (ED7C716-30, G90)
- 80E-BP Cabinets (ED7C703-30, G90)
- 80G Cabinets (ED7C755-30, G90)
- 82A Cabinets (ED7T298-30, G290)
- 82D Cabinets (ED7T299-30, G290)
- 82G Cabinets (ED7T300-30, G290).

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## Objective

The objective of these guidelines is to replace one or more existing *SLC* Series 5 dual channel banks (DCBs) (J1C182 AB, or AE) with *AnyMedia*<sup>®</sup> *FAST*<sup>™</sup> shelves (J1C282AC-1 L2) for TR-08\* Mode 1 or GR-303<sup>†</sup> applications in 80( ) and 82( ) Type Bulk Powered Cabinets using the existing *SLC* Series 5 cabling. Each

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\* TR-NWT-008, "Digital Interface Between the *SLC*-96 Digital Loop Carrier System and a Local Digital Switch," Issue 2 (Telcordia Technologies, Inc., August, 1987) plus Revision 1, September 1993

† GR-303-CORE, "Integrated Digital Loop Carrier System Generic Requirements, Objectives and Interface", Issue 1, September, 1995, Revision 3, December, 1997

installed *FAST* shelf supports a maximum capacity of 15 APs that consist of 8X32 asymmetric digital subscriber line / plain old telephone service (ADSL/POTS) application packs (APs) in AP slots 1, 2 and 3 and up to twelve 8X8 ADSL/POTS APs in AP slots 4 to 15 (AP slot 16 is used for the AFM unit). With this arrangement, the shelf provides up to 120 lines of ADSL/POTS plus 72 lines of POTS only. AP slots 1, 2, and 3 are flexible slots in that all 32 tip/ring (T/R) pairs are brought out to the protector field. AP slots 4 to 15 can only be used with 4- or 8-line APs.

## Assumptions

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These guidelines are based on the following assumptions:

- One or more *SLC* Series 5 DCBs are not in service or physically not installed in the cabinet.
- While it is possible to replace a working DCB with an *AnyMedia* shelf, this requires a "Hot Slide" procedure and is not specifically addressed in these guidelines.
- All cabinet local cables (voice frequency [VF], DS1, alarms, power/ringing and direct current [DC] test pair) are in place for the DCBs to be replaced.
- To support the added ADSL services, the cabinet must be equipped with an OC-3 or OC-12 Multiplexer (DDM-2000 or equivalent) with a spare DS3 port for transporting the ADSL services. In addition, up to eight (eight for two TR-08 Mode 1 applications or a minimum of two for GR-303 applications) spare DS1 ports for each *AnyMedia* shelf of 192 POTS lines must be available for each *FAST* shelf installed. (See Note.)



**NOTE:**

ADSL services can also be transported over spare DS1 ports using the AFMDS1 or over a spare pair of fiber optic cables using the AFMO. See "Additional Cabling" section of this chapter.

- A single DS3 can be shared across all ADSL lines supported in three *FAST* shelves.

## Limitations and Considerations

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Observe the following limitations and considerations when you use these guidelines:

- Only one *AnyMedia* shelf can be added to a bay position. This placement restriction does not apply to 82D and 82G cabinets equipped with the Group 10 Heat Exchanger.
- Only one *AnyMedia* shelf can be added to an 80 or 82A cabinet
- Only one *AnyMedia* shelf can be placed on each side of an 80D, 82D, or 80E cabinet. This placement restriction does not apply to the 82D cabinet that is equipped with the Group 10 Heat Exchanger.
- An 80G or 82G cabinet supports up to three *AnyMedia* shelves provided only 2 are placed on any one side and each in different bay positions. This placement restriction does not apply to the 82G cabinet equipped with the Group 10 Heat Exchanger.
- Note that installing one or more *AnyMedia* shelves may necessitate upgrading the power system and batteries in the cabinet.
- Detailed power guidelines for applicable cabinet arrangements are provided later in this chapter.
- A working DCB can remain in the same bay in which the *AnyMedia* shelf is being added.
- Each *AnyMedia* shelf can be equipped with up to 3 8X32 ADSL/POTS APs and 12 8X8 ADSL/POTS APs (this provides up to 120 lines of ADSL/POTS plus 72 lines of POTS).

## Cabling Interfaces

This section contains guidelines for cabling interfaces. Table 2-1 lists the comcodes of the cables along with other hardware provided by the Retrofit Kit.

**Table 2-1. SLC/FAST Retrofit Kit — Comcode 108818717**

Comcode	Description	Quantity
848572343	SLC/FAST PAR Adapter A	1
848572350	SLC/FAST PAR Adapter B	1
848572384	SLC/FAST DS0 Adapter (3 AP)	1
848572368	SLC/FAST DS1 Adapter	1
848584365	111 Fan Control Unit	1
848572376	SLC/FAST DS0 Adapter (ADSL)	2
848282943	Coax Cable (20 ft.)	2
848446415	6CQ Fan Unit	1
848585600	SLC/FAST DS0 Adapter Even	2
—	#12-24 Screws	10
848601878	Label set for application to retrofit site	1
—	Cable Tie	30

Observe the following guidelines for cabling interfaces:

The *AnyMedia* shelf is equipped with front access connectors and danglers that must be interfaced to the existing *SLC* Series 5 DCB customer and cabinet cables. Comcode 108818717 Kit, *SLC/FAST* Retro (Combo) provides this interface. The kit includes the follows:

- CABLE, *SLC/FAST* PAR ADAPTER A (Comcode 848572343) provides an interface between the *SLC* Series 5 system power, ringing, alarm connectors and the *AnyMedia* shelf. It also connects to a 111A Control Unit that is provided in the kit to invert traditional  $-48V$  *SLC* Series 5 alarms to ground closures as required by *AnyMedia* system. This cable also provides DC test pair connections to the *AnyMedia* shelf.
- CABLE, *SLC/FAST* PAR ADAPTER B (Comcode 848572350) provides the miscellaneous alarm interface from *SLC* Series 5 system to the *AnyMedia* shelf. It accepts ground closures from the 111A unit (representing PMN, PSMN, RGMN and fan alarms) and routes them to TLM1 and TLM2 alarm inputs of the *AnyMedia* shelf. It also routes MISC 1 Blue to TLM3. (Note that the MISC alarm connection is supported for only those DCB locations identified as #1 and #2). See alarm mapping table (Table 2-2).

**Table 2-2. Alarm Mapping Table**

<b>SLC® Series 5 Alarm</b>	<b>Alarm Condition</b>	<b>AnyMedia® Alarm</b>	<b>Access Identifiers (AIDs)</b>
PMN (Minor) Battery on discharge	-48 V converted to ground	TLM2	mc-1-2
PSMN (Minor) - Fan Fail in bay	-48 V converted to ground	TLM1	mc-1-1
RGMN (Minor) - Rect. Fail, Ring Minor	-48 V converted to ground	TLM1	mc-1-1
RGMJ (Ring Major)	-48 V converted to ground	Not connected, not required	—
MISC-1 BL	Ground	TLM3	mc-1-3
MISC-2 BL	Ground	Not connected	—
MISC-1 WH	Ground	Not connected	—
MISC-2 WH	Ground	Not connected	—

**Note:** Office records as well as labeling on the central interconnect panel (CIP) should be changed to reflect these alarm reassignments. The *AnyMedia* system must also be provisioned to support these alarm inputs.

- CABLE, *SLC/FAST* DS1 ADAPTER (Comcode 848572368) (two cables, transmit and receive) is used to interface the DS1 connections from the *AnyMedia* shelf to the customer DS1 cables from the cabinet's DSX panel. *SLC* Series 5 DS1s are mapped to the *AnyMedia* system as shown in Table 2-3. Office records and DSX designations should be corrected as needed (See "Labeling and Stenciling Changes" section of this chapter for recommended re-labeling).

**Table 2-3. SLC Series 5 DS1 Designations Assigned to AnyMedia System**

<b>SLC® Series 5 Bank</b>	<b>DS1 Designations</b>	<b>AnyMedia® System DS1 Assignments</b>
Blue	A, B, C, D	1, 2, 3, 4
Blue and White	P	Not Used
White	A, B, C, D	5, 6, 7, 8

- Two cables ED7C829-32 G1C Coax cable 20 feet long are provided to connect the DS3 connection from the *AnyMedia* shelf (AFMDS3 unit) to the DDM-2000 or equivalent multiplexer. These cables can also be used to multiple to AFMDS3s on additional *AnyMedia* shelves if more than one shelf is being installed in the cabinet. (See Note.)



**NOTE:**

If the AFMDS1 or the AFMO is being used to transport ADSL services, cabling to support these AFMs must be ordered separately. See the “Additional Cabling” section of this chapter.

- Also included in the kit are the 111A Fan Control Unit, 6CQ Fan Unit, screws, cable ties, and a label decal sheet.
- CABLE, *SLC/FAST* DS0 ADAPTER (3 AP) (Comcode 848572384) is the AP connection cable required for the APs located in AP slots 1, 2, and 3. It provides the interface to the customer VF cables from the *AnyMedia* shelf to the cabinet's protector blocks (32 T/R pair for each slot) (See the “Labeling and Stenciling Changes” section of this chapter for recommended re-labeling).
- CABLE, *SLC/FAST* DS0 ADAPTER (ADSL) (Comcode 848572376) is an AP connection cable used with 3 APs located in AP slots 7, 8, 9, and 13, 14, 15 of the *AnyMedia* shelf (two cable assemblies are required per shelf). It provides the interface to the customer VF cables from the *AnyMedia* shelf to the cabinet's protector blocks (8 T/R pair from each slot).
- CABLE, *SLC/FAST* DS0 ADAPTER (ADSL) EVEN (Comcode 8485885600) is an AP connection cable used with three APs located in AP slots 4, 5, 6, and 10, 11, 12 of the *AnyMedia* shelf (two cable assemblies are required per shelf). It provides the interface to the customer VF cables from the *AnyMedia* shelf to the cabinet's protector blocks (8 T/R pair from each slot).

## **VF Cable Mapping Configuration**

The VF interface adapter cables (DS0 adapter cables) provide different channel assignment mapping between the *AnyMedia* shelf and the associated protector blocks and feeder distribution interface (FDI) than was conventional for a *SLC* Series 5 DCB. One major difference is the use of 24-line groups assigned to each of the 25 positions on a block. This results in dead pair positions 25, 26, 75 and 76 on the protector blocks and FDI interfaces associated with the *AnyMedia* shelf. Detailed mapping of the *AnyMedia* channels (access identifiers — AIDs) is provided in Table 2-4. These assignments should be incorporated into the appropriate office records and if needed with revised stamping on the associated protector blocks and FDI terminals (see “Labeling and Stenciling Changes” section of this chapter for recommended re-labeling).

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping**

AnyMedia <sup>®</sup> AIDs	AP #	AP Pair #	Service Type	SLC <sup>®</sup> Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
drop-1-1-1	1	1	ADSL/POTS	J101 BL	1	1
drop-1-1-2	1	2	ADSL/POTS	J101 BL	2	2
drop-1-1-3	1	3	ADSL/POTS	J101 BL	3	3
drop-1-1-4	1	4	ADSL/POTS	J101 BL	4	4
drop-1-1-5	1	5	ADSL/POTS	J101 BL	5	5
drop-1-1-6	1	6	ADSL/POTS	J101 BL	6	6
drop-1-1-7	1	7	ADSL/POTS	J101 BL	7	7
drop-1-1-8	1	8	ADSL/POTS	J101 BL	8	8
drop-1-2-1	2	1	ADSL/POTS	J101 BL	9	9
drop-1-2-2	2	2	ADSL/POTS	J101 BL	10	10
drop-1-2-3	2	3	ADSL/POTS	J101 BL	11	11
drop-1-2-4	2	4	ADSL/POTS	J101 BL	12	12
drop-1-2-5	2	5	ADSL/POTS	J101 BL	13	13
drop-1-2-6	2	6	ADSL/POTS	J101 BL	14	14
drop-1-2-7	2	7	ADSL/POTS	J101 BL	15	15
drop-1-2-8	2	8	ADSL/POTS	J101 BL	16	16
drop-1-3-1	3	1	ADSL/POTS	J101 BL	17	17
drop-1-3-2	3	2	ADSL/POTS	J101 BL	18	18
drop-1-3-3	3	3	ADSL/POTS	J101 BL	19	19
drop-1-3-4	3	4	ADSL/POTS	J101 BL	20	20
drop-1-3-5	3	5	ADSL/POTS	J101 BL	21	21
drop-1-3-6	3	6	ADSL/POTS	J101 BL	22	22
drop-1-3-7	3	7	ADSL/POTS	J101 BL	23	23
drop-1-3-8	3	8	ADSL/POTS	J101 BL	24	24
				J101 BL	25	25 dead

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
				J102 BL	1	26 dead
drop-1-4-1	4	1	ADSL/POTS	J102 BL	2	27
drop-1-4-2	4	2	ADSL/POTS	J102 BL	3	28
drop-1-4-3	4	3	ADSL/POTS	J102 BL	4	29
drop-1-4-4	4	4	ADSL/POTS	J102 BL	5	30
drop-1-4-5	4	5	ADSL/POTS	J102 BL	6	31
drop-1-4-6	4	6	ADSL/POTS	J102 BL	7	32
drop-1-4-7	4	7	ADSL/POTS	J102 BL	8	33
drop-1-4-8	4	8	ADSL/POTS	J102 BL	9	34
drop-1-5-1	5	1	ADSL/POTS	J102 BL	10	35
drop-1-5-2	5	2	ADSL/POTS	J102 BL	11	36
drop-1-5-3	5	3	ADSL/POTS	J102 BL	12	37
drop-1-5-4	5	4	ADSL/POTS	J102 BL	13	38
drop-1-5-5	5	5	ADSL/POTS	J102 BL	14	39
drop-1-5-6	5	6	ADSL/POTS	J102 BL	15	40
drop-1-5-7	5	7	ADSL/POTS	J102 BL	16	41
drop-1-5-8	5	8	ADSL/POTS	J102 BL	17	42
drop-1-6-1	6	1	ADSL/POTS	J102 BL	18	43
drop-1-6-2	6	2	ADSL/POTS	J102 BL	19	44
drop-1-6-3	6	3	ADSL/POTS	J102 BL	20	45
drop-1-6-4	6	4	ADSL/POTS	J102 BL	21	46
drop-1-6-5	6	5	ADSL/POTS	J102 BL	22	47
drop-1-6-6	6	6	ADSL/POTS	J102 BL	23	48
drop-1-6-7	6	7	ADSL/POTS	J102 BL	24	49
drop-1-6-8	6	8	ADSL/POTS	J102 BL	25	50

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
drop-1-7-1	7	1	ADSL/POTS	J103 BL	1	51
drop-1-7-2	7	2	ADSL/POTS	J103 BL	2	52
drop-1-7-3	7	3	ADSL/POTS	J103 BL	3	53
drop-1-7-4	7	4	ADSL/POTS	J103 BL	4	54
drop-1-7-5	7	5	ADSL/POTS	J103 BL	5	55
drop-1-7-6	7	6	ADSL/POTS	J103 BL	6	56
drop-1-7-7	7	7	ADSL/POTS	J103 BL	7	57
drop-1-7-8	7	8	ADSL/POTS	J103 BL	8	58
drop-1-8-1	8	1	ADSL/POTS	J103 BL	9	59
drop-1-8-2	8	2	ADSL/POTS	J103 BL	10	60
drop-1-8-3	8	3	ADSL/POTS	J103 BL	11	61
drop-1-8-4	8	4	ADSL/POTS	J103 BL	12	62
drop-1-8-5	8	5	ADSL/POTS	J103 BL	13	63
drop-1-8-6	8	6	ADSL/POTS	J103 BL	14	64
drop-1-8-7	8	7	ADSL/POTS	J103 BL	15	65
drop-1-8-8	8	8	ADSL/POTS	J103 BL	16	66
drop-1-9-1	9	1	ADSL/POTS	J103 BL	17	67
drop-1-9-2	9	2	ADSL/POTS	J103 BL	18	68
drop-1-9-3	9	3	ADSL/POTS	J103 BL	19	69
drop-1-9-4	9	4	ADSL/POTS	J103 BL	20	70
drop-1-9-5	9	5	ADSL/POTS	J103 BL	21	71
drop-1-9-6	9	6	ADSL/POTS	J103 BL	22	72
drop-1-9-7	9	7	ADSL/POTS	J103 BL	23	73
drop-1-9-8	9	8	ADSL/POTS	J103 BL	24	74
				J103 BL	25	75 dead

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
				J104 BL	1	76 dead
drop-1-10-1	10	1	ADSL/POTS	J104 BL	2	77
drop-1-10-2	10	2	ADSL/POTS	J104 BL	3	78
drop-1-10-3	10	3	ADSL/POTS	J104 BL	4	79
drop-1-10-4	10	4	ADSL/POTS	J104 BL	5	80
drop-1-10-5	10	5	ADSL/POTS	J104 BL	6	81
drop-1-10-6	10	6	ADSL/POTS	J104 BL	7	82
drop-1-10-7	10	7	ADSL/POTS	J104 BL	8	83
drop-1-10-8	10	8	ADSL/POTS	J104 BL	9	84
drop-1-11-1	11	1	ADSL/POTS	J104 BL	10	85
drop-1-11-2	11	2	ADSL/POTS	J104 BL	11	86
drop-1-11-3	11	3	ADSL/POTS	J104 BL	12	87
drop-1-11-4	11	4	ADSL/POTS	J104 BL	13	88
drop-1-11-5	11	5	ADSL/POTS	J104 BL	14	89
drop-1-11-6	11	6	ADSL/POTS	J104 BL	15	90
drop-1-11-7	11	7	ADSL/POTS	J104 BL	16	91
drop-1-11-8	11	8	ADSL/POTS	J104 BL	17	92
drop-1-12-1	12	1	ADSL/POTS	J104 BL	18	93
drop-1-12-2	12	2	ADSL/POTS	J104 BL	19	94
drop-1-12-3	12	3	ADSL/POTS	J104 BL	20	95
drop-1-12-4	12	4	ADSL/POTS	J104 BL	21	96
drop-1-12-5	12	5	ADSL/POTS	J104 BL	22	97
drop-1-12-6	12	6	ADSL/POTS	J104 BL	23	98
drop-1-12-7	12	7	ADSL/POTS	J104 BL	24	99
drop-1-12-8	12	8	ADSL/POTS	J104 BL	25	100

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
drop-1-13-1	13	1	ADSL/POTS	J101 WH	1	1
drop-1-13-2	13	2	ADSL/POTS	J101 WH	2	2
drop-1-13-3	13	3	ADSL/POTS	J101 WH	3	3
drop-1-13-4	13	4	ADSL/POTS	J101 WH	4	4
drop-1-13-5	13	5	ADSL/POTS	J101 WH	5	5
drop-1-13-6	13	6	ADSL/POTS	J101 WH	6	6
drop-1-13-7	13	7	ADSL/POTS	J101 WH	7	7
drop-1-13-8	13	8	ADSL/POTS	J101 WH	8	8
drop-1-14-1	14	1	ADSL/POTS	J101 WH	9	9
drop-1-14-2	14	2	ADSL/POTS	J101 WH	10	10
drop-1-14-3	14	3	ADSL/POTS	J101 WH	11	11
drop-1-14-4	14	4	ADSL/POTS	J101 WH	12	12
drop-1-14-5	14	5	ADSL/POTS	J101 WH	13	13
drop-1-14-6	14	6	ADSL/POTS	J101 WH	14	14
drop-1-14-7	14	7	ADSL/POTS	J101 WH	15	15
drop-1-14-8	14	8	ADSL/POTS	J101 WH	16	16
drop-1-15-1	15	1	ADSL/POTS	J101 WH	17	17
drop-1-15-2	15	2	ADSL/POTS	J101 WH	18	18
drop-1-15-3	15	3	ADSL/POTS	J101 WH	19	19
drop-1-15-4	15	4	ADSL/POTS	J101 WH	20	20
drop-1-15-5	15	5	ADSL/POTS	J101 WH	21	21
drop-1-15-6	15	6	ADSL/POTS	J101 WH	22	22
drop-1-15-7	15	7	ADSL/POTS	J101 WH	23	23
drop-1-15-8	15	8	ADSL/POTS	J101 WH	24	24
				J101 WH	25	25 dead

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
				J102 WH	1	26 dead
drop-1-1-9	1	9	POTS	J102 WH	2	27
drop-1-1-10	1	10	POTS	J102 WH	3	28
drop-1-1-11	1	11	POTS	J102 WH	4	29
drop-1-1-12	1	12	POTS	J102 WH	5	30
drop-1-1-13	1	13	POTS	J102 WH	6	31
drop-1-1-14	1	14	POTS	J102 WH	7	32
drop-1-1-15	1	15	POTS	J102 WH	8	33
drop-1-1-16	1	16	POTS	J102 WH	9	34
drop-1-1-17	1	17	POTS	J102 WH	10	35
drop-1-1-18	1	18	POTS	J102 WH	11	36
drop-1-1-19	1	19	POTS	J102 WH	12	37
drop-1-1-20	1	20	POTS	J102 WH	13	38
drop-1-1-21	1	21	POTS	J102 WH	14	39
drop-1-1-22	1	22	POTS	J102 WH	15	40
drop-1-1-23	1	23	POTS	J102 WH	16	41
drop-1-1-24	1	24	POTS	J102 WH	17	42
drop-1-1-25	1	25	POTS	J102 WH	18	43
drop-1-1-26	1	26	POTS	J102 WH	19	44
drop-1-1-27	1	27	POTS	J102 WH	20	45
drop-1-1-28	1	28	POTS	J102 WH	21	46
drop-1-1-29	1	29	POTS	J102 WH	22	47
drop-1-1-30	1	30	POTS	J102 WH	23	48
drop-1-1-31	1	31	POTS	J102 WH	24	49
drop-1-1-32	1	32	POTS	J102 WH	25	50

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
drop-1-2-9	2	9	POTS	J103 WH	1	51
drop-1-2-10	2	10	POTS	J103 WH	2	52
drop-1-2-11	2	11	POTS	J103 WH	3	53
drop-1-2-12	2	12	POTS	J103 WH	4	54
drop-1-2-13	2	13	POTS	J103 WH	5	55
drop-1-2-14	2	14	POTS	J103 WH	6	56
drop-1-2-15	2	15	POTS	J103 WH	7	57
drop-1-2-16	2	16	POTS	J103 WH	8	58
drop-1-2-17	2	17	POTS	J103 WH	9	59
drop-1-2-18	2	18	POTS	J103 WH	10	60
drop-1-2-19	2	19	POTS	J103 WH	11	61
drop-1-2-20	2	20	POTS	J103 WH	12	62
drop-1-2-21	2	21	POTS	J103 WH	13	63
drop-1-2-22	2	22	POTS	J103 WH	14	64
drop-1-2-23	2	23	POTS	J103 WH	15	65
drop-1-2-24	2	24	POTS	J103 WH	16	66
drop-1-2-25	2	25	POTS	J103 WH	17	67
drop-1-2-26	2	26	POTS	J103 WH	18	68
drop-1-2-27	2	27	POTS	J103 WH	19	69
drop-1-2-28	2	28	POTS	J103 WH	20	70
drop-1-2-29	2	29	POTS	J103 WH	21	71
drop-1-2-30	2	30	POTS	J103 WH	22	72
drop-1-2-31	2	31	POTS	J103 WH	23	73
drop-1-2-32	2	32	POTS	J103 WH	24	74
				J103 WH	25	75 dead

*Continued on next page*

**Table 2-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
				J104 WH	1	76 dead
drop-1-3-9	3	9	POTS	J104 WH	2	77
drop-1-3-10	3	10	POTS	J104 WH	3	78
drop-1-3-11	3	11	POTS	J104 WH	4	79
drop-1-3-12	3	12	POTS	J104 WH	5	80
drop-1-3-13	3	13	POTS	J104 WH	6	81
drop-1-3-14	3	14	POTS	J104 WH	7	82
drop-1-3-15	3	15	POTS	J104 WH	8	83
drop-1-3-16	3	16	POTS	J104 WH	9	84
drop-1-3-17	3	17	POTS	J104 WH	10	85
drop-1-3-18	3	18	POTS	J104 WH	11	86
drop-1-3-19	3	19	POTS	J104 WH	12	87
drop-1-3-20	3	20	POTS	J104 WH	13	88
drop-1-3-21	3	21	POTS	J104 WH	14	89
drop-1-3-22	3	22	POTS	J104 WH	15	90
drop-1-3-23	3	23	POTS	J104 WH	16	91
drop-1-3-24	3	24	POTS	J104 WH	17	92
drop-1-3-25	3	25	POTS	J104 WH	18	93
drop-1-3-26	3	26	POTS	J104 WH	19	94
drop-1-3-27	3	27	POTS	J104 WH	20	95
drop-1-3-28	3	28	POTS	J104 WH	21	96
drop-1-3-29	3	29	POTS	J104 WH	22	97
drop-1-3-30	3	30	POTS	J104 WH	23	98
drop-1-3-31	3	31	POTS	J104 WH	24	99
drop-1-3-32	3	32	POTS	J104 WH	25	100

## **Additional Cabling**

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### **Additional Cables Required When Using the AFMDS1 Unit**

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The AFMDS1 unit requires an ED7C849-30 G10 dangler cable to interface the unit's face plate connector to separate transmit and receive DS1 connectors. This dangler must be connected to spare or additional DSX blocks on the DSX panel using two (transmit and receive) ED7C849-30 G11 cables. These 3 cables and any additional DSX blocks must be ordered separately, if needed. For additional information see Document 363-211-102, *AnyMedia Installation Manual*.

### **Additional Cables Required When Using the AFMO Unit**

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The AFMO unit provides fiber optic port connections which must be connected to OC-3 fiber feeder terminations in the cabinet's fiber tray or other OC-3 interfaces. The AFMO requires two single-mode fiber jumpers equipped with SC connectors. These cables are available in a variety of lengths, as needed for routing in a specific cabinet configuration. A line build out (LBO) unit may also be required on the transmit fiber. See Document 363-211-102, *AnyMedia Installation Manual* for detailed information.

If multiple AFMO units are installed in a cabinet they can be daisy chained using optical cable jumpers and appropriate 15 dB LBOs as described in Document 363-211-102.

Cables and LBOs for AFMO units must be selected to meet specific application requirements and ordered separately.

## Detailed Power Guidelines for Applicable Cabinet Configurations

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### Overview

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All of the following information is based on Lucent Technologies factory built and equipped cabinets with the *FAST* shelf AP equipage as previously described along with the following assumptions:

1. Each remaining *SLC* Series 5 DCB is equipped for a maximum of 192 POTS lines.
2. *SLC* Series 5 system and *AnyMedia* system telephony is configured in an unconcentrated mode: 8 DS1s per shelf (except the 80G Group 90 which, if fully equipped with 8 Dual Channel Banks, would require 64 DS1s but is limited to 56 DS1s from the DDM-2000 system).
3. DDM-2000 OC-3 synchronous optical network (SONET) multiplexer is configured for 1 DS3 and 56 DS1s.
4. Spare DS1s in 80D-BP are all being used for T1 extensions, average of 981 ohms each.
5. TR-57 traffic assumptions for determining required battery reserve (18 CCS [hundred call seconds] for 3 hours; 6 CCS for the remainder). Eight (8) hours minimum unless otherwise indicated.
6. There is N+1 redundancy on rectifiers at 6 CCS traffic.
7. Lucent 4VR125 batteries may be used as an equivalent to Lucent 12IR125 batteries unless otherwise indicated.



#### **WARNING:**

*In 80A, 80D, and 80G cabinets equipped with the CPS-4000 power systems, the circuit breaker feeding the bay containing the SLC Series 5 Dual Channel Bank and the AnyMedia Access System must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. There will be a service outage on the SLC Series 5 DCB that remains in the bay during the change out of the circuit breaker.*

### 80A Cabinets Equipped With CPS-4000 Only (ED7C711-30)

The following guidelines allow you to add one *AnyMedia FAST* shelf:



**NOTE:**

This does not apply to 80A-BP cabinets equipped with J1C182BD-1 Power shelf.

- Requires one Comcode 108818717 Kit, *SLC/FAST* Retro (Combo).
- The circuit breaker feeding the bay containing the *SLC* Series 5 Dual Channel Bank and the *AnyMedia* Access System must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. One breaker upgrade is required for this application.
- Table 2-5 shows the allowed/required equipage for the cabinet.

**Table 2-5. 80A Cabinet Power Equipment**

Power System	CPS-4000 (12.5-amp Rectifier)	CPS-4000 (15-amp Rectifier)
Number of <i>SLC</i> Series 5 DCB	1	1
Number of <i>AnyMedia FAST</i> Selves	1	1
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	3	3
Battery Type	12IR125, 4VR125 or equivalent	12IR125, 4VR125 or equivalent
Number of Strings Required	2 (240 amp-hours)	2 (240 amp-hours)
Battery Cable Ordering Code *	ED7C711-30, G63	ED7C711-30, G63

\* A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

**80D - BP Cabinet (ED7C716-30)****Adding One AnyMedia FAST Shelf**

The following guidelines allow you to add one *AnyMedia FAST* shelf:

- Requires one Comcode 108818717 Kit, SLC/FAST Retro (Combo).
- In cabinets equipped with the CPS-4000 power systems, the circuit breaker feeding the bay containing the SLC Series 5 Dual Channel Bank and the *AnyMedia* Access System must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. One breaker upgrade is required for this application.
- Table 2-6 shows the allowed/required equipage for the cabinet.

**Table 2-6. 80D - BP Cabinet Power Equipment — One FAST Shelf**

Power System	RT-60	CPS-4000
Number of SLC Series 5 DCB	4	4
Number of <i>AnyMedia FAST</i> Selves	1	1
Rectifier Type	CS787B540	ES660
Rectifier Size (amps)	25	12.5
Number of Rectifiers required	3	4
Battery Type	12IR125, 4VR125 or equivalent	12IR125, 4VR125 or equivalent
Number of Strings Required	3 (360 amp-hours)	3 (360 amp-hours)
Battery Cable Ordering Code *	ED7C711-30, G63 for each string (except order ED7C711-30, G163 for string 3 of 4VR125)	ED7C711-30, G63 for each string (except order ED7C711-30, G163 for string 3 of 4VR125)

\* A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

## Adding Two AnyMedia FAST Shelves

The following guidelines allow you to add two *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay, one per cabinet side.
- Requires two Comcode 108818717 Kits, *SLC/FAST Retro (Combo)*.
- In cabinets equipped with the CPS-4000 power systems, the circuit breaker feeding the bay containing the *SLC Series 5 Dual Channel Bank* and the *AnyMedia Access System* must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. Two breaker upgrades are required for this application.
- Table 2-7 shows the allowed/required equipage for the cabinet.

**Table 2-7. 80D - BP Cabinet Power Equipment — Two FAST Shelves**

Power System	RT-60	CPS-4000
Number of <i>SLC Series 5 DCB</i>	3	3
Number of <i>AnyMedia FAST Selves</i>	2	2
Rectifier Type	CS787B540	ES660C
Rectifier Size (amps)	25	15
Number of Rectifiers required	3	4
Battery Type	12IR125* or equivalent	12IR125* or equivalent
Number of Strings Required	3 (360 amp-hours) provides 6½ hours reserve. Four (480 amp-hours) are required for at least 8 hours reserve†	4 (480 amp-hours)
Battery Cable Ordering Code‡	ED7C711-30, G63 for each string (except order ED7C711-30, G163 for string 3 of 4VR125)	ED7C711-30, G63 for each string (except order ED7C711-30, G163 for string 3 of 4VR125)

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† Additional battery cabling and fusing is required to support the fourth string of batteries. The procedure to install the fourth string cabling and fuses (to be developed) involves disconnecting all battery strings from the power system and modifying the battery fuse panel. The following parts are required:

- ED7C711-30, G63
- 846278133 battery cable
- 846278174 battery cable
- 846278216 battery cable
- Fuse, Bussman, DA125 (125-amp).

‡ A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

**80E - BP Cabinet (ED7C703-30)**

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**Adding One AnyMedia FAST Shelf**

The following guidelines allow you to add one *AnyMedia FAST* shelf:

- Requires one Comcode 108818717 Kit, *SLC/FAST* Retro (Combo).
- Table 2-8 shows the allowed/required equipage for the cabinet.

**Table 2-8. 80E - BP Cabinet Power Equipment — One FAST Shelf**

<b>Power System</b>	<b>RT-60</b>
Number of <i>SLC</i> Series 5 DCB	6
Number of <i>AnyMedia FAST</i> Selves	1
Rectifier Type	CS787B540
Rectifier Size (amps)	25
Number of Rectifiers required	3
Battery Type	4VR125
Number of Strings Required	4 (480 amp-hours)
Battery Cable Ordering Code *	ED7C711-30, G63

\* A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

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### Adding Two AnyMedia FAST Shelves

The following guidelines allow you to add two *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay, one per cabinet side.
- Requires two Comcode 108818717 Kits, *SLC/FAST Retro (Combo)*.
- Table 2-9 shows the allowed/required equipage for the cabinet.

**Table 2-9. 80E - BP Cabinet Power Equipment — Two FAST Shelves**

Power System	RT-60
Number of <i>SLC</i> Series 5 DCB	5
Number of <i>AnyMedia FAST</i> Selves	2
Rectifier Type	CS787B540
Rectifier Size (amps)	25
Number of Rectifiers required	3
Battery Type	4VR125
Number of Strings Required	4 (480 amp-hours) 7.2 hours reserve: 8 hours or greater reserve requires adjunct battery cabinet*
Battery Cable Ordering Code†	ED7C711-30, G63

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

**80G Cabinet (ED7C755-30)****Adding One AnyMedia FAST Shelf**

The following guidelines allow you to add one *AnyMedia FAST* shelf:

- Requires one Comcode 108818717 Kit, *SLC/FAST* Retro (Combo).
- The circuit breaker feeding the bay containing the *SLC* Series 5 Dual Channel Bank and the *AnyMedia* Access System must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. One breaker upgrade is required for this application.
- Table 2-10 shows the allowed/required equipment for the cabinet.

**Table 2-10. 80G Cabinet Power Equipment - One FAST Shelf**

<b>Power System</b>	<b>(2) CPS-4000 (12.5-amp Rectifier)</b>	<b>(2) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	7	7
Number of <i>AnyMedia FAST</i> Selves	1	1
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	5	4
Battery Type	12IR125, 4VR125 or equivalent	12IR125, 4VR125 or equivalent
Number of Strings Required	4 (480 amp-hours)	4 (480 amp-hours)
Battery Cable Ordering Code*	ED7C711-30, G63	ED7C711-30, G63

\* A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

### Adding Two AnyMedia FAST Shelves

The following guidelines allow you to add two *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay.
- Requires two Comcode 108818717 Kits, *SLC/FAST Retro (Combo)*.
- The circuit breaker feeding the bay containing the *SLC Series 5 Dual Channel Bank* and the *AnyMedia Access System* must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. Two breaker upgrades are required for this application.
- Table 2-11 shows the allowed/required equipage for the cabinet.

**Table 2-11. 80G Cabinet Power Equipment — Two FAST Shelves**

<b>Power System</b>	<b>(2) CPS-4000 (12.5-amp Rectifier)</b>	<b>(2) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC Series 5 DCB</i>	6	6
Number of <i>AnyMedia FAST Selves</i>	2	2
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	6	5
Battery Type	12IR125 or equivalent	12IR125 or equivalent
Number of Strings Required	5 (600 amp-hours) of 12IR125; 4 maximum (480 amp-hours) of 4VR125 for 5.5 hours reserve*	5 (600 amp-hours) of 12IR125; 4 maximum (480 amp-hours) of 4VR125 for 5.5 hours reserve*
Battery Cable Ordering Code <sup>†</sup>	ED7C711-30, G63	ED7C711-30, G63

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

### Adding Three AnyMedia FAST Shelves

The following guidelines allow you to add three *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay, no more than two per cabinet side.
- Requires three Comcode 108818717 Kits, *SLC/FAST* Retro (Combo).
- The circuit breaker feeding the bay containing the *SLC* Series 5 Dual Channel Bank and the *AnyMedia* Access System must be upgraded from a 20-amp breaker to a 30-amp breaker, using a KS-23136 L38 (Comcode 407098490) breaker. Three breaker upgrades are required for this application.
- Table 2-12 shows the allowed/required equipage for the cabinet.

**Table 2-12. 80G Cabinet Power Equipment — Three FAST Shelves**

Power System	(2) CPS-4000 (12.5-amp Rectifier)	(2) CPS-4000 (15-amp Rectifier)
Number of <i>SLC</i> Series 5 DCB	5	5
Number of <i>AnyMedia FAST</i> Selves	3	3
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	6	5
Battery Type	12IR125 or equivalent	12IR125 or equivalent
Number of Strings Required	6 (720 amp-hours) of 12IR125; 4 maximum (480 amp-hours) of 4VR125 for 4.5 hours reserve*	6 (720 amp-hours) of 12IR125; 4 maximum (480 amp-hours) of 4VR125 for 4.5 hours reserve*
Battery Cable Ordering Code <sup>†</sup>	ED7C711-30, G63	ED7C711-30, G63

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

**82A Cabinet (ED1T298-30)**

The following guidelines allow you to add one *AnyMedia FAST* shelf:

- Requires one Comcode 108818717 Kit, *SLC/FAST* Retro (Combo).
- Table 2-13 shows the allowed/required equipage for the cabinet.

**Table 2-13. 82A Cabinet Power Equipment**

<b>Power System</b>	<b>(1) CPS-4000 (12.5-amp Rectifier)</b>	<b>(1) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	2	2
Number of <i>AnyMedia FAST</i> Selves	1	1
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	3	3
Battery Type	12IR125 or equivalent	12IR125 or equivalent
Number of Strings Required	3 (360 amp-hours)*	3 (360 amp-hours)*
Battery Cable Ordering Code <sup>†</sup>	ED1T298-30, G63 for string 2; ED1T298-30, G64 for string 3	ED1T298-30, G63 for string 2; ED1T298-30, G64 for string 3

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

**82D Cabinets (ED1T299-30)****Adding One AnyMedia FAST Shelf**

The following guidelines allow you to add one *AnyMedia FAST* shelf:

- Requires one Comcode 108818717 Kit, *SLC/FAST* Retro (Combo).
- Table 2-14 shows the allowed/required equipment for the cabinet.

**Table 2-14. 82D Cabinet Power Equipment — One FAST Shelf**

<b>Power System</b>	<b>(1) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	6
Number of <i>AnyMedia FAST</i> Selves	1
Rectifier Type	ES660C
Rectifier Size (amps)	15
Number of Rectifiers required	4
Battery Type	12IR125 or equivalent
Number of Strings Required	4 (480 amp-hours)*
Battery Cable Ordering Code†	ED1T299-30, G63

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

### Adding Two AnyMedia FAST Shelves

The following guidelines allow you to add two *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay, one per cabinet side.
- No shelf placement restrictions for cabinets with Group 10 Heat Exchanger.
- Requires two Comcode 108818717 Kits, SLC/*FAST* Retro (Combo).
- Table 2-15 shows the allowed/required equipage for the cabinet.

**Table 2-15. 82D Cabinet Power Equipment — Two FAST Shelves**

<b>Power System</b>	<b>(2) CPS-4000 (12.5-amp Rectifier)</b>	<b>(2) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	5	5
Number of <i>AnyMedia FAST</i> Selves	2	2
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	5	5
Battery Type	12IR125 or equivalent	12IR125 or equivalent
Number of Strings Required	4 (480 amp-hours) 7.1 hours reserve: 8 hours or greater reserve requires adjunct battery cabinet*	4 (480 amp-hours) 7.1 hours reserve: 8 hours or greater reserve requires adjunct battery cabinet*
Battery Cable Ordering Code <sup>†</sup>	ED1T299-30, G63	ED1T299-30, G63

\* The required quantity of 12IR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. Due to space constraints, the use of 4VR125 batteries is not recommended for this application.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

**82G Cabinets (ED7T300-30)****Adding One AnyMedia FAST Shelf**

The following guidelines allow you to add one *AnyMedia FAST* shelf:

- Requires one Comcode 108818717 Kit, SLC/FAST Retro (Combo).
- Table 2-16 shows the allowed/required equipage for the cabinet.

**Table 2-16. 82G Cabinet Power Equipment — One FAST Shelf**

<b>Power System</b>	<b>(2) CPS-4000 (12.5-amp Rectifier)</b>	<b>(2) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	9	9
Number of <i>AnyMedia FAST</i> Selves	1	1
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	6	5
Battery Type	12IR125 or equivalent	12IR125 or equivalent
Number of Strings Required	6 (720 amp-hours)*	6 (720 amp-hours)*
Battery Cable Ordering Code <sup>†</sup>	ED1T300-30, G63	ED1T300-30, G63

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

### Adding Two AnyMedia FAST Shelves

The following guidelines allow you to add two *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay.
- No shelf placement restrictions for cabinets with Group 10 Heat Exchanger.
- Requires two Comcode 108818717 Kits, *SLC/FAST Retro (Combo)*.
- Table 2-17 shows the allowed/required equipage for the cabinet.

**Table 2-17. 82G Cabinet Power Equipment — Two FAST Shelves**

<b>Power System</b>	<b>(2) CPS-4000 (12.5-amp Rectifier)</b>	<b>(2) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	8	8
Number of <i>AnyMedia FAST</i> Selves	2	2
Rectifier Type	ES660	ES660C
Rectifier Size (amps)	12.5	15
Number of Rectifiers required	6	5
Battery Type	12IR125 or equivalent	12IR125 or equivalent
Number of Strings Required	6 (720 amp-hours)*	6 (720 amp-hours)*
Battery Cable Ordering Code <sup>†</sup>	ED1T300-30, G63	ED1T300-30, G63

\* The required quantity of 4VR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. An adjunct battery cabinet is not required for 12IR125 batteries.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

### Adding Three AnyMedia FAST Shelves

The following guidelines allow you to add three *AnyMedia FAST* shelves:

- One *FAST* shelf per equipment bay, no more than two per cabinet side.
- No shelf placement restrictions for cabinets with Group 10 Heat Exchanger.
- Requires three Comcode 108818717 Kits, *SLC/FAST* Retro (Combo).
- Table 2-18 shows the allowed/required equipage for the cabinet.

**Table 2-18. 82G Cabinet Power Equipment — Three FAST Shelves**

<b>Power System</b>	<b>(2) CPS-4000 (15-amp Rectifier)</b>
Number of <i>SLC</i> Series 5 DCB	7
Number of <i>AnyMedia FAST</i> Selves	3
Rectifier Type	ES660C
Rectifier Size (amps)	15
Number of Rectifiers required	6
Battery Type	12IR125 or equivalent
Number of Strings Required	6 (720 amp-hours)7.4 hours reserve: 8 hours or greater reserve requires adjunct battery cabinet*
Battery Cable Ordering Code <sup>†</sup>	ED1T300-30, G63

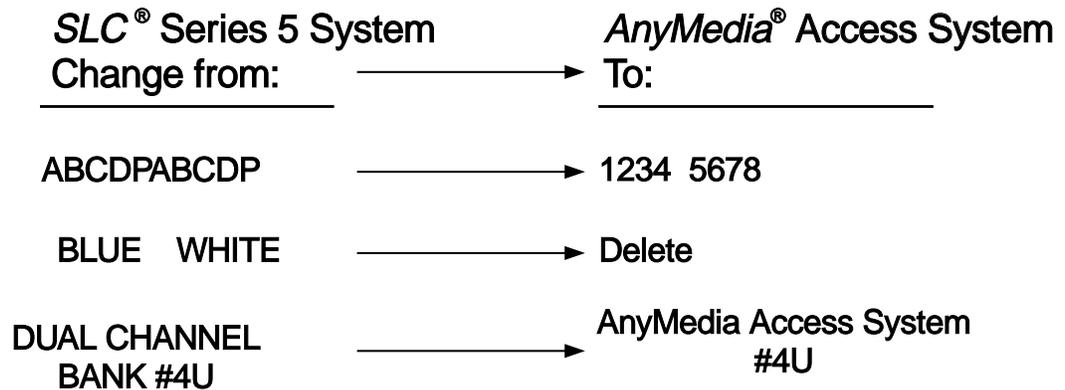
\* The required quantity of 12IR125 batteries for eight hours of reserve will not fit in this cabinet. An adjunct battery cabinet will be required, however, ordering information and installation procedures for adding an adjunct battery cabinet are yet to be developed. Due to space constraints, the use of 4VR125 batteries is not recommended for this application.

† A battery cable kit must be ordered for each battery string that is added as part of the upgrade.

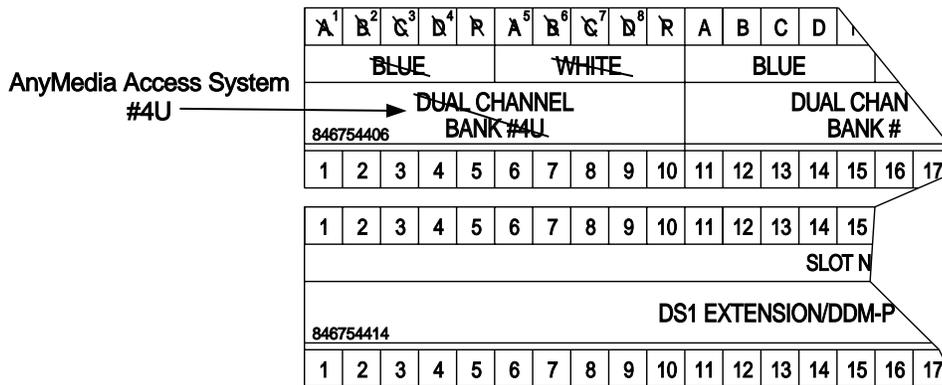
## Labeling and Stenciling Changes

You must make the following labeling and stenciling changes when retrofitting from *SLC Series 5 DCB* to an *AnyMedia Access System*:

1. On the **DSX Panel** decal, change the label from the **SLC Series 5 Carrier System** designations to the **AnyMedia Access System** designations for the systems being substituted as show in the example in Figure 2-1.



See Below:



slc5label1

Figure 2-1. Changes to DSX Label for an AnyMedia System Located in Position 4 Upper

- On the **DSX REAR TERMINATIONS** decal located on the cabinet door near the DSX panel, under the **SYSTEM** column, change the designations from **BL & WH** to **AMAS** for the system(s) being substituted. Under the **DSX POSITION** column, change the number of positions. See examples in Figure 2-2:

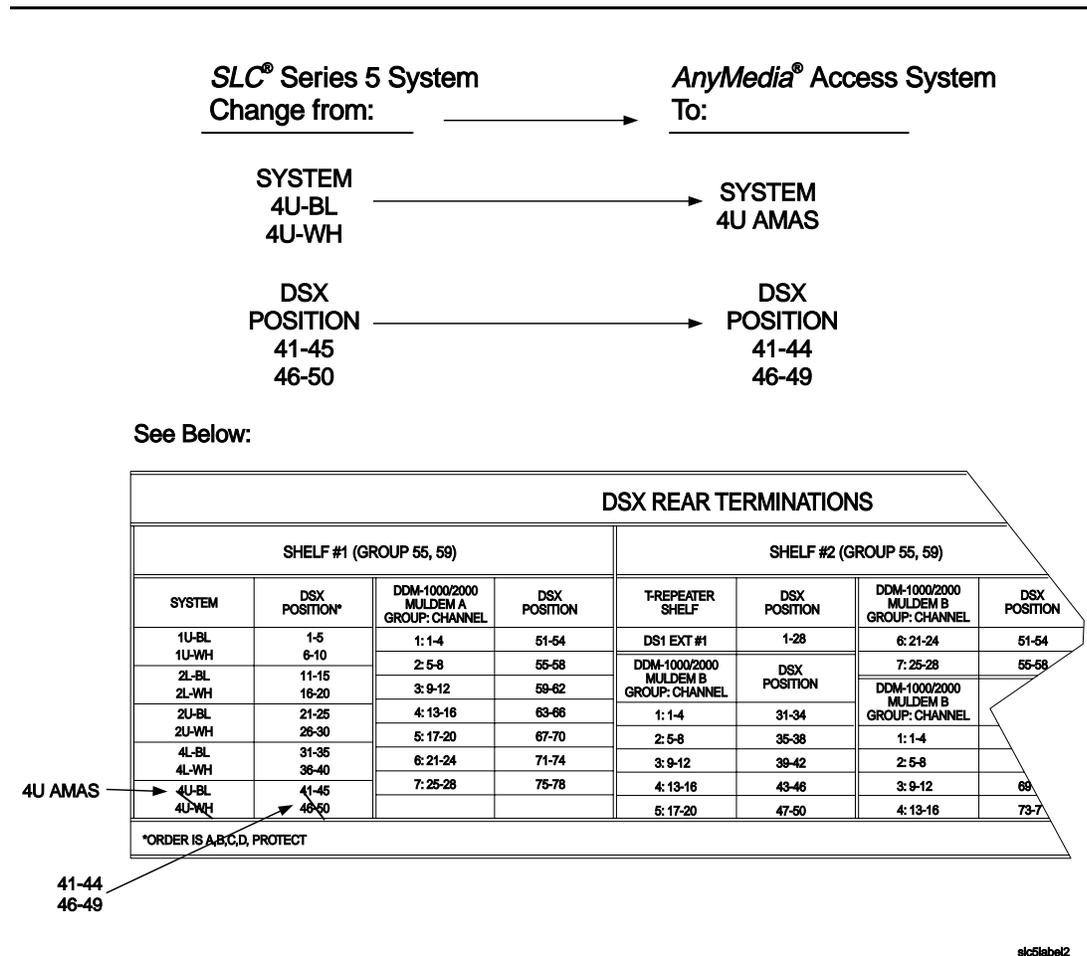


Figure 2-2. Changes to Rear DXS Label for an AnyMedia System in Position 4 Upper

- On the decal located on the splice area cover, under the column **EQUIPMENT APPARATUS**, change **SLC® Series 5** to **AnyMedia System** for the system being substituted, and under the derived (VF) column change the cable count. See example in Figure 2-3.

**SLC® Series 5 System** Change from: → **AnyMedia® Access System** To:

SLC® Series 5 → AnyMedia

D(1201-1296)  
D(1301-1396) → D(1201-1300)  
D(1301-1400)

See Below:

GROUP 90																				
CABLE PAIR AND CONNECTOR NUMBERING - SPLICE AREA (5 SLC® SERIES 5; 2 EXTENSION SHELF)																				
CABINET SIDE	CABINET POSITION	EQUIPMENT APPARATUS	DIGITAL CABLING (RECEIVE)	DIGITAL CABLING (TRANSMIT)	DERIVED (VF)	OTHER (FDM/MSCT/DP)														
SIDE 1	1-LOWER	POWER EQUIPMENT	*	*	*	—														
	1-UPPER	DDM-1000 OR DDM-2000 AND DSX/DSX	#	#	#	—														
	2-LOWER	DS1 EXT. SHELF OR DDM-PLUS	A(101-128) A(129-156)	B(101-128) B(129-156)	%	—														
	2-UPPER	SLC® SERIES 5	(FIBER)	(FIBER)	D(401-408) D(801-808)	—														
SIDE 2	3-LOWER	SLC® SERIES 5	(FIBER)	(FIBER)	D(601-608) D(701-708)	—														
	3-UPPER	SLC® SERIES 5	(FIBER)	(FIBER)	D(801-808) D(901-908)	—														
	4-LOWER	SLC® SERIES 5	(FIBER)	(FIBER)	D(1001-1008) D(1101-1108)	—														
	4-UPPER	SLC® SERIES 5	(FIBER)	(FIBER)	D(1201-1296) D(1301-1396)	—														
—	—	MISC PAIRS	—	—	—	C(1-20)														
<p>NOTES</p> <ul style="list-style-type: none"> <li>* THE 800-SP CABINET DEDICATES A0C(1), B0C(1), AND D0C(1) PAIRS TO A CABINET POSITION. THOSE NUMBERS ARE OMITTED IF A CHANNEL BANK IS NOT DESIGNED INTO THAT POSITION DUE TO THE CABINET'S EQUIPMENT LAYOUT.</li> <li>* CABLE PAIRS ARE NOT DEDICATED TO THE 1-LOWER POSITION. THIS POSITION IS ALWAYS RESERVED FOR BULK POWER EQUIPMENT.</li> <li>% DUE TO THE DS1 EXT. OR DDM-PLUS SHELVES: A(11-20), B(11-20), AND D(201-208), D(301-308) ARE OMITTED.</li> <li># DUE TO THE 800-DSX AND DDM-1000 OR DDM-2000: A(1-10), B(1-10), AND D(1-08), D(101-108) ARE OMITTED.</li> </ul>																				
<table border="1"> <thead> <tr> <th colspan="2">MISCELLANEOUS PAIRS</th> </tr> <tr> <th>FUNCTION</th> <th>SHEATH &amp; PAIR</th> </tr> </thead> <tbody> <tr> <td>ORDER WIRE (1,2)</td> <td>C(1-2)</td> </tr> <tr> <td>DC TEST (1,2)</td> <td>C(3-4)</td> </tr> <tr> <td>FL IN (1-8)</td> <td>C(5-12)</td> </tr> <tr> <td>FL OUT (1-2)</td> <td>C(13-14)</td> </tr> <tr> <td>SPARE</td> <td>C(15-20)</td> </tr> </tbody> </table>							MISCELLANEOUS PAIRS		FUNCTION	SHEATH & PAIR	ORDER WIRE (1,2)	C(1-2)	DC TEST (1,2)	C(3-4)	FL IN (1-8)	C(5-12)	FL OUT (1-2)	C(13-14)	SPARE	C(15-20)
MISCELLANEOUS PAIRS																				
FUNCTION	SHEATH & PAIR																			
ORDER WIRE (1,2)	C(1-2)																			
DC TEST (1,2)	C(3-4)																			
FL IN (1-8)	C(5-12)																			
FL OUT (1-2)	C(13-14)																			
SPARE	C(15-20)																			

AnyMedia →

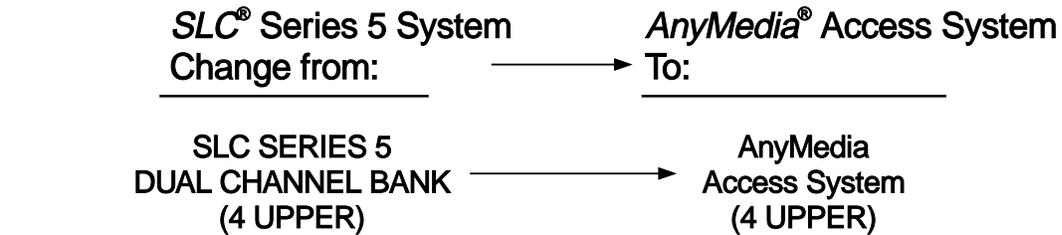
D(1201-1300)  
D(1301-1400) →

848894788

slc5label3

Figure 2-3. Changes to Splice Area Label for an AnyMedia System in Position 4 Upper

4. On the cabinet layout decal located on the door, change **SLC Series 5 Dual Channel Bank (x Upper)** to **AnyMedia Access System**; where x = bank number for the system being substituted. See example in Figure 2-4.



See Below:

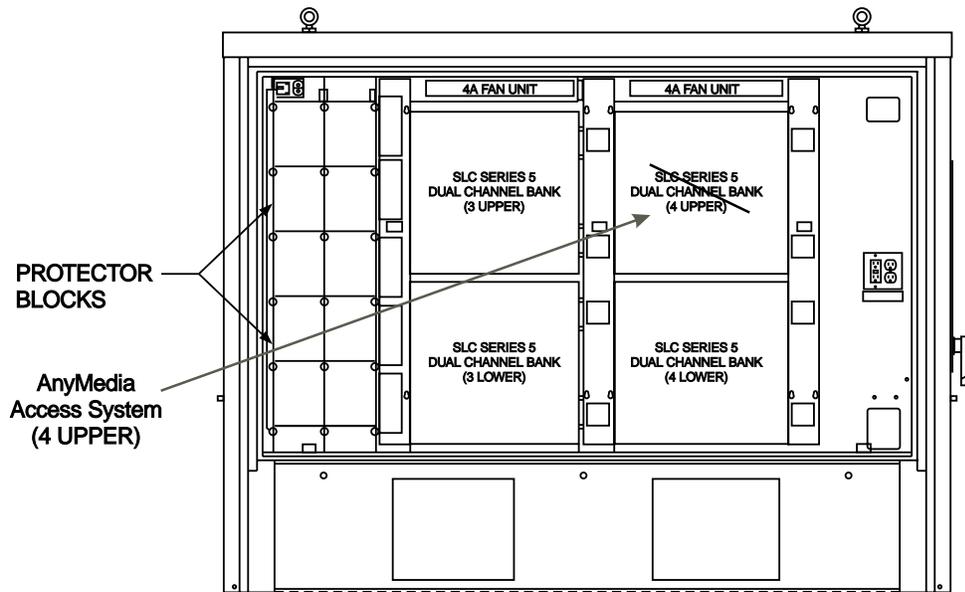
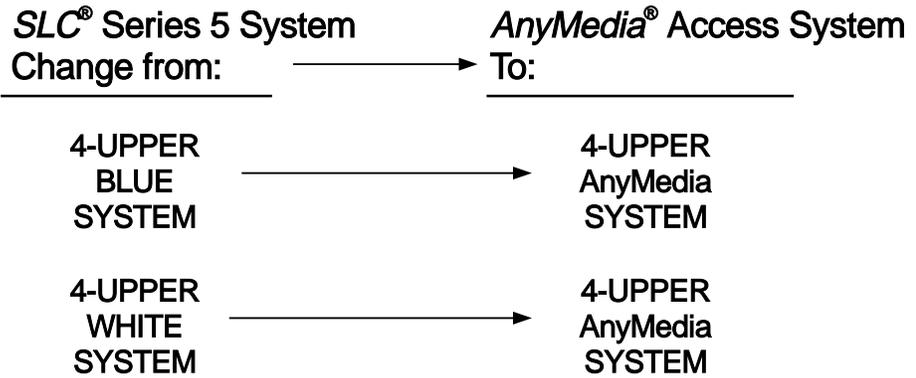
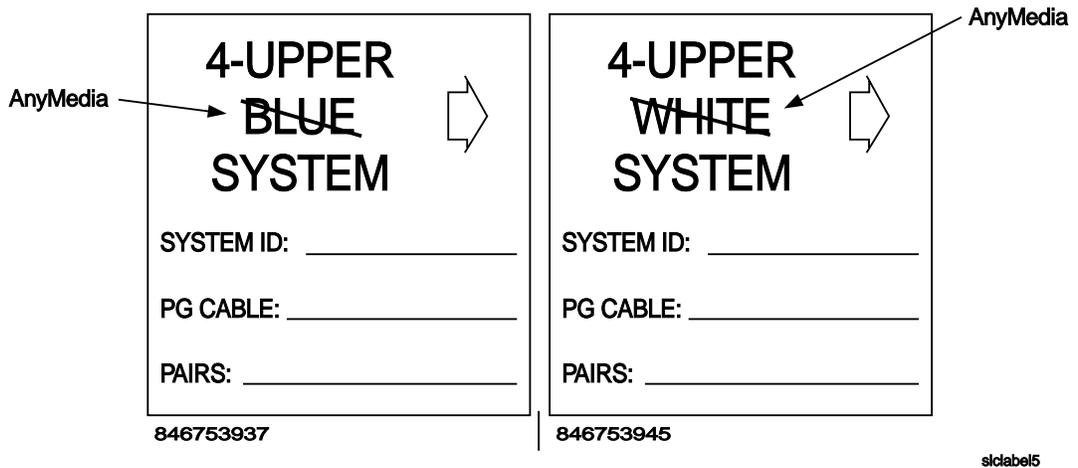


Figure 2-4. Changes to Cabinet Label for an AnyMedia System Placed in Position 4 Upper

5. On the decal located next to the system being substituted, change **WHITE & BLUE** to **AnyMedia**. The remaining information for this label is provided by the customer. See example in Figure 2-5.



See Below:



**Figure 2-5. Changes to System Label for an AnyMedia System Placed in Position 4 Upper**

6. On the protector block labels located near the protectors, under the **BANK** column, change **xU-BL** and **xU-WH** both to **AMAS** for the system being substituted (two labels). These could also be labeled **xL-BL** and **xL-WH** where the **x** = the bank number. The **PROT POSN** column must be changed for both labels to indicate the change in active protectors. Change **1-25** to **1-24**, **26-50** to **27-50**, **51-75** to **51-74**, and **76-96** to **77-100**. The same type of numbering change is required in the **SHEATH & PAIR** column for both labels. See example in Figure 2-6.

Make the following changes:

From *SLC*<sup>®</sup> Series 5 System:

LEFT BLOCK DERIVED (VF) LINES			
BANK	BANK POSN	PROT POSN	SHEATH & PAIR
4U-BL	4U	1-25	D(1201-1225)
		26-50	D(1226-1250)
		51-75	D(1251-1275)
		76-96	D(1276-1296)

To *AnyMedia*<sup>®</sup> Access System:

LEFT BLOCK DERIVED (VF) LINES			
BANK	BANK POSN	PROT POSN	SHEATH & PAIR
AMAS	4U	1-24	D(1201-1224)
		27-50	D(1227-1250)
		51-74	D(1251-1274)
		77-100	D(1277-1300)

From *SLC*<sup>®</sup> Series 5 System:

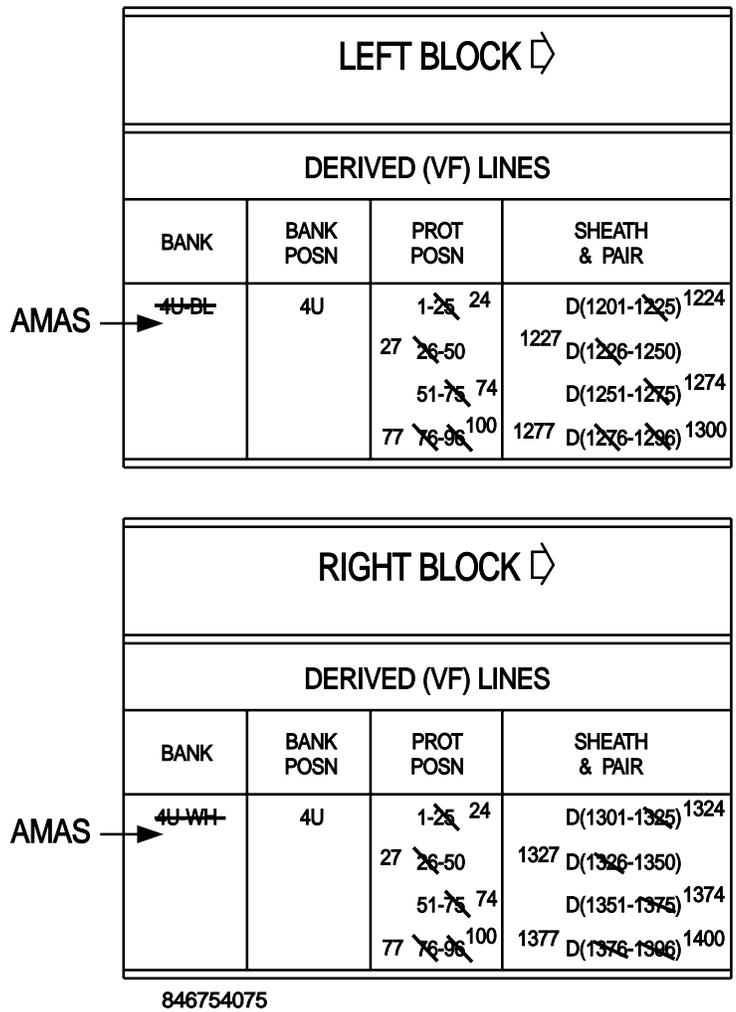
RIGHT BLOCK DERIVED (VF) LINES			
BANK	BANK POSN	PROT POSN	SHEATH & PAIR
4U-WH	4U	1-25	D(1301-1325)
		26-50	D(1326-1350)
		51-75	D(1351-1375)
		76-96	D(1376-1396)

To *AnyMedia*<sup>®</sup> Access System:

RIGHT BLOCK DERIVED (VF) LINES			
BANK	BANK POSN	PROT POSN	SHEATH & PAIR
AMAS	4U	1-24	D(1301-1324)
		27-50	D(1327-1350)
		51-74	D(1351-1374)
		77-100	D(1377-1400)

slc5label10

**Figure 2-6. Changes to Protector Block Label for an AnyMedia System Placed in Position 4 Upper**



DECAL FOR  
~~4U-BL, 4U-WH~~ 4U AMAS  
 PROTECTOR BLOCKS

slc5label6

Figure 2-6. Changes to Protector Block Label for an AnyMedia System Placed in Position 4 Upper (Continued)

7. Attach new Label 1, comcode 848601878 (included in the kit) to the cabinet door near the protector blocks. Attach new Label 3 Block 1 next to label described in Step 6 that was associated with the blue (BL) system being removed. Attach new Label 3 Block 2 next to the label described in Step 6 for the white (WH) system. Label 2 is used in controlled environment vaults (CEVs) and Huts. Label 4 is provided as a replacement for the label described in Step 5. (See labels in Figure 2-7.)

### Label 1

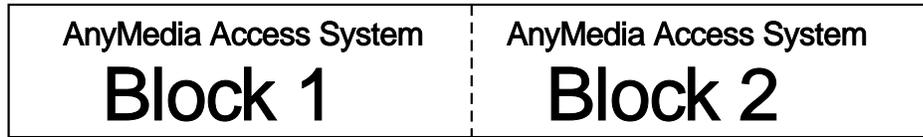
<i>AnyMedia® Access System Protector Wiring</i>				
Pair # on Block	SLC Series 5 710 Connector #	710 Connector Pair #	AnyMedia AP #	AP # Cable Pairs #
B1 1-8	J101 BL	1-8	1	1-8
B1 9-16	J101 BL	9-16	2	1-8
B1 17-24	J101 BL	17-24	3	1-8
B1 27-34	J102 BL	2-9	4	1-8
B1 35-42	J102 BL	10-17	5	1-8
B1 43-50	J102 BL	18-25	6	1-8
B1 51-58	J103 BL	1-8	7	1-8
B1 59-66	J103 BL	9-16	8	1-8
B1 67-74	J103 BL	17-24	9	1-8
B1 77-84	J104 BL	2-9	10	1-8
B1 85-92	J104 BL	10-17	11	1-8
B1 93-100	J104 BL	18-25	12	1-8
B1 1-8	J101 WH	1-8	13	1-8
B1 9-16	J101 WH	9-16	14	1-8
B1 17-24	J101 WH	17-24	15	1-8
B1 27-50	J102 WH	2-25	1	9-32
B1 51-74	J103 WH	1-24	2	9-32
B1 77-100	J104 WH	2-25	3	9-32

Note: B1 and B2 refer to the 100 pair protector block panels. B1 is associated with the blue system of the original (removed) SLC® Series 5 Carrier System dual channel bank and B2 is associated with the white system. "Pair # on Block" numbers are synonymous with the protector numbers and the cable pair count of the 100 pair cables going to and from the protector blocks. Note that protectors and cable pairs 24, 25, 75, and 76 are not used on either block and are designated as spares.

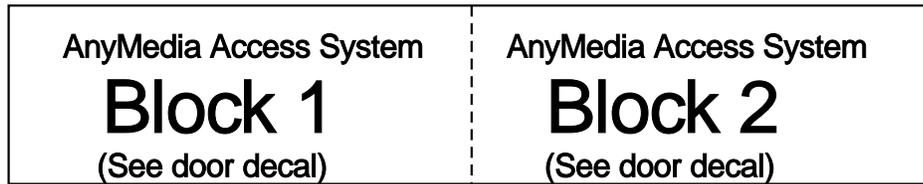
slc5label7

Figure 2-7. Labels 1, 2, 3, and 4

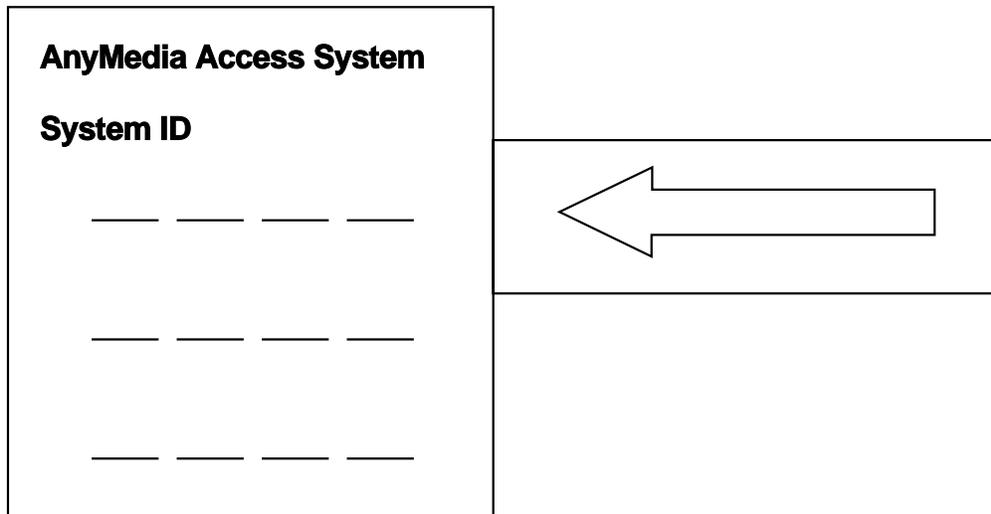
Label 2



Label 3



Label 4



slc5label8

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**Figure 2-7. Labels 1, 2, 3, and 4 (Continued)**

8. If an *AnyMedia* shelf has been substituted for *SLC Series 5 DCB #1* or *#2*, the labeling on the CIP should be changed to reflect alarm reassignments. See the Alarm Table (Table 2-2 on page 2-5) in this chapter for alarm information. It is also recommended the Series designation for the DC Test Pair on the CIP be changed to *AnyMedia Access System (AMAS)*.



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**Controlled Environment Vaults,  
Huts, and Customer Premises  
Applications (Using the Adapter  
Kit, Comcode 848578704) —  
Discontinued Availability**

**3**

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<b>Assumptions</b>	<a href="#"><u>3-2</u></a>
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# Controlled Environment Vaults, Huts, and Customer Premises Applications (Using the Adapter Kit, Comcode 848578704) — Discontinued Availability

# 3

⇒ **NOTE:**  
Most customers will use the engineering guidelines given in Chapter 4 when retrofitting equipment in controlled environment vaults (CEVs), huts, and customer premises applications. Although the Adapter Kit, Comcode 848578704, is in use, this kit is rated discontinued availability (DA) and is no longer orderable.

## Overview

---

This chapter provides the engineering guidelines to replace existing *SLC*<sup>®</sup> Series 5 Carrier System equipment with an *AnyMedia*<sup>®</sup> Access System in Lucent Technologies field-assembled bulk-powered remote terminal (RT) bays per SD-7C118-01 arranged per BD-10 and equipped with J1C182BB bulk power units and 2-type fan units **using the Adapter Kit, Comcode 848578704.**

⇒ **NOTE:**  
If bays per SD-7C118-01 BD-9 are to be retrofitted, the existing E&M interfaces will not be supported.

## Objective

---

The objective of these guidelines is to replace one or more existing *SLC* Series 5 dual channel banks (DCBs) (J1C182AB, AC, AE, or AF) with *AnyMedia*<sup>®</sup> *FAST*<sup>™</sup> shelves (J1C282AC-1 L2) for TR-08\* Mode 1 or GR-303† applications in bulk-powered bays. A 6A fan unit must be installed with each *AnyMedia* *FAST* shelf. Each installed *FAST* shelf supports a maximum capacity of 15 application packs (APs). The 15 APs consist of 8X32 asymmetric digital subscriber line / plain old telephone service (ADSL/POTS) APs in AP slots 1, 2, and 3 and up to twelve 8X8 ADSL/POTS APs in AP slots 4 to 15 (slot 16 is used for the AFM unit). With this arrangement, the shelf provides up to 120 lines of ADSL/POTS plus 72 lines of POTS only. AP slots 1, 2 and 3 are flexible slots in that all 32 tip/ring (T/R) pairs are brought out to the protector field. AP slots 4 to 15 can only be used with 4- or 8-line APs.

## Assumptions

---

These guidelines are based on the following assumptions:

- One or more *SLC* Series 5 DCBs are not in service or are physically not installed in the bay.
- While it is possible to replace a working DCB with an *AnyMedia* shelf, this requires a "Hot Slide" procedure and is not specifically addressed in these guidelines.
- All customer side cables (voice frequency [VF] tip/ring, DS1, alarms and direct current [DC] test pair) are in place for the DCBs to be replaced.
- To support the added ADSL/POTS services, the site must be equipped with an OC-3 or OC-12 multiplexer (DDM-2000 or equivalent) with a spare DS3 port for transporting the ADSL services. ADSL services can also be transported over DS1s or over an OC-3. The AFMDS1 AP requires up to 8 DS1s for transport facilities. The AFMO AP requires an OC-3 port on a multiplexer or it can operate over a spare pair of fiber optic cables. In addition, up to eight (eight for two TR-08 Mode 1 applications or a minimum of two for GR-303 applications) spare DS1 ports for each *AnyMedia* shelf of 192 POTS lines must be available for each *FAST* shelf installed.
- A single DS3 may be shared across all ADSL lines, for up to eight *FAST* shelves.



**NOTE:**

A single pair of fiber optic cables may be shared across all ADSL lines by daisy chaining the AFMOs. The AFMDS1 can not be daisy chained across multiple shelves.

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\* TR-NWT-008, "Digital Interface Between the *SLC*-96 Digital Loop Carrier System and a Local Digital Switch," Issue 2 (Telcordia Technologies, Inc., August, 1987) plus Revision 1, September 1993

† GR-303-CORE, "Integrated Digital Loop Carrier System Generic Requirements, Objectives and Interface", Issue 1, September, 1995, Revision 3, December, 1997

## Limitations and Considerations

Observe the following limitations and considerations when you use these guidelines:

- Working DCBs can remain in any of the three bank locations within the bay. (See Figure 3-1 for possible configurations.)
- If no DCBs are to remain in the bay, the existing 2-type fan can be removed.
- If a working DCB remains in position 1 (bottom of bay), then the *AnyMedia* shelf can be placed in positions 2 and/or 3.
- If a working DCB remains in position 2 (center), then the *AnyMedia* shelf can be placed in positions 1 and/or 3.
- If a working DCB remains in position 3 (top), then the *AnyMedia* shelf can be placed in position 1 only. Locating an *AnyMedia* shelf in position 2 would block airflow from the 2-type fan to the upper DCB. However, if the 2-type fan is relocated from its normal location, under position 2, to a position immediately below the top DCB, (see SD-7C118-01 CAD56), *FAST* shelves can be placed in positions 1 and 2. In this case, DCBs should not be mounted in either position 1 or 2.
- The *AnyMedia* *FAST* shelf depth, including the backplane connectors, extends 9 inches behind the front flange of a bay. This is two inches more than a *SLC* Series 5 DCB and may present a problem if the bay is mounted very close to a wall.

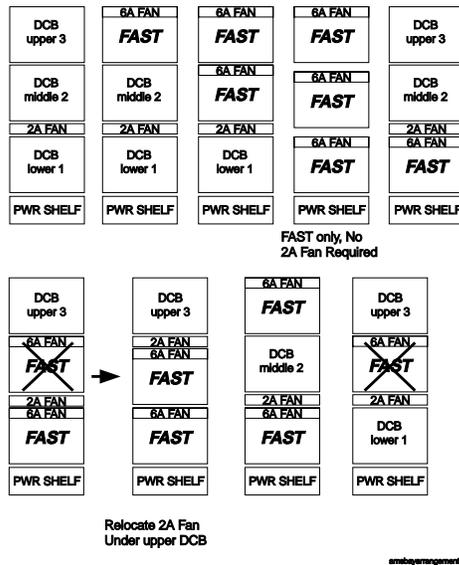


Figure 3-1. Possible Arrangements of AnyMedia Shelves in SLC Series 5 DCB Bays

## Power and Heat

---

Observe the following guidelines for power and heat:

- Each *AnyMedia* shelf can be equipped with up to three 8X32 ADSL/POTS APs and twelve 8X8 ADSL/POTS APs. (This provides up to 120 lines of ADSL/POTS plus 72 lines of POTS.) This configuration presents a List 1 current drain of 14.7 amps at -42.5 V with a traffic load of 6 hundred call seconds (CCS). The maximum List 2 current drain is 20.6 amps at -42.5 V with a traffic load of 36 CCS. These loads are considerably higher than a *SLC Series 5 DCB*.
- The increased power drain on the -48V power plant must be evaluated to assure that both adequate rectifier and battery reserve capacity is provided.
- Each fully equipped *AnyMedia* system presents a List 1 heat load of 600 watts; 418 watts greater than a *SLC Series 5 DCB*.
- The increased heat load must be evaluated to determine if the enclosure has adequate heat removal capacity (heating, ventilation, and air conditioning [HVAC]).

The J1C182BB power shelf is normally installed with three separate 30 Amp feeder cables. These feeder cables are adequate to meet the maximum current drain requirements of a bay equipped with an *AnyMedia* shelf in position 1 and 2 or 3. If an *AnyMedia* shelf is to be placed in **both** positions 2 and 3, which may share a common 30A feeder in some sites, it is required that the single feeder be replaced by two, No. 10 gauge, 30A feeders (one to each *FAST* shelf). Even if separate feeder cables for positions 1, 2, and 3 are installed, feeders 2 and 3 may be terminated on a common 30A breaker (fuse). In either case, an additional breaker must be provided to implement separate 30A breakers for feeders 2 and 3. If additional power cable and or breakers are required they must be ordered separately, as needed.



**WARNING:**

*There will be a service outage on any SLC Series 5 DCB that remains in bay position 2 or 3 during the addition of a circuit breaker or feeder.*

## Reuse of the J1C182BB Bulk Power Shelf

---

Observe the following guidelines for the reuse of the J1C182BB bulk power shelf:

- The bulk power shelf is retained to provide power to any remaining DCBs, and 2-type fan units. The shelf also provides ringing power to all systems in the bay. It must be equipped with two type 3C1 or equivalent ringing generators and one AUG2 ring switch unit.
- The *AnyMedia* system does not require positive superimposed ringing so the AUG1 positive ringing units (PRUs) are only required if previously provided for the remaining DCBs.
- Ringing power is provided with the AUG11 bank fuse unit; one of which is required for each working DCB or *AnyMedia* shelf in the bay. Although the AUG11 does not provide fusing for the ringing supply to the DCB or *AnyMedia* shelf, removal of the AUG11 brakes the ringing supply connection to the associated DCB or *AnyMedia* shelf.
- The AUG11 unit also provides fuse and fan alarm (if equipped) information to the associated DCB or *AnyMedia* shelf.
- The 10A bank fuses in the AUG11 are not used for the *AnyMedia* shelf. The DC power is connected directly from the bay feeders to the fuse circuit module (FCM) that is associated with the *AnyMedia* shelf. This is accomplished by connecting the *AnyMedia* power cable to the input screw terminals (TB1) of the J1C182BB shelf. To connect to these terminals, the fuse/circuit breaker must be deactivated. (See Note.)



**NOTE:**

If the *AnyMedia* shelf is being placed in positions 2 or 3 and a working *SLC* Series 5 system is in the other position, a service outage will occur until the fuse/circuit breaker is reactivated, unless independent feeders and breakers have been installed as previously described.

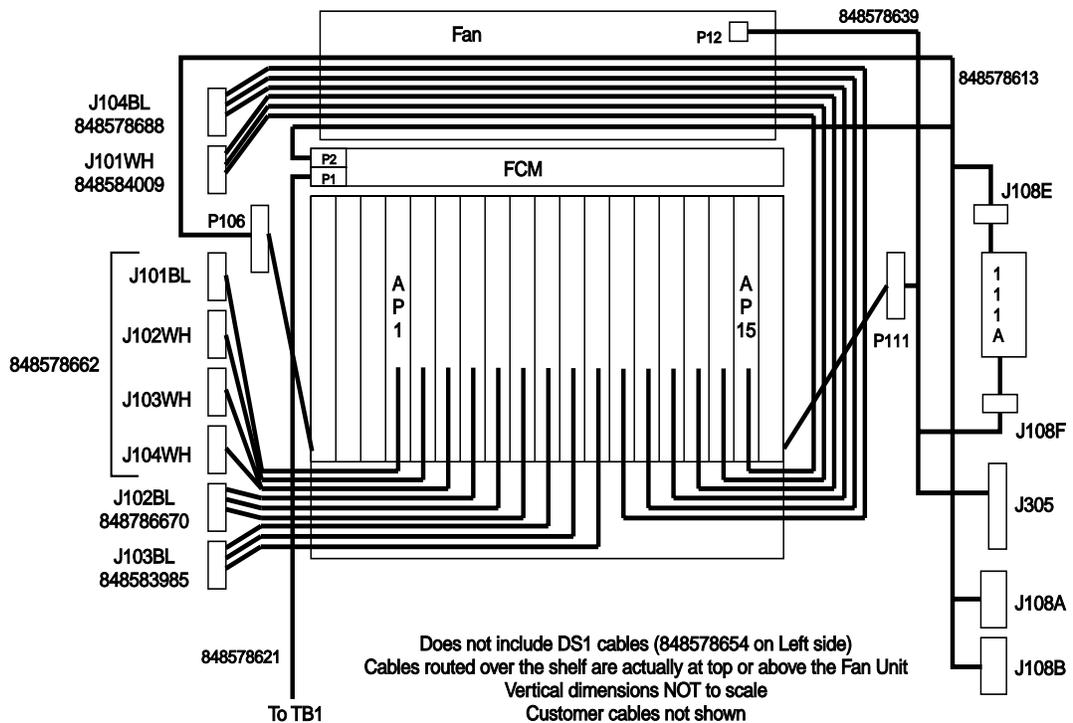
## **Cabling Interfaces**

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This section contains guidelines for cabling interfaces. Table 3-1 lists the comcodes of the cables along with other hardware provided by the Adapter Kit. Figure 3-2 gives detailed cabling information.

**Table 3-1. CEV Adapter Kit — Comcode 848578704**

<b>Comcode</b>	<b>Description</b>	<b>Quantity</b>
848578613	Alarm, Test, and Ringing Adapter Cable	1
848578621	Power Adapter Cable	1
848578639	Telemetry Adapter Cable	1
848578654	DS1 Adapter Cable	1
848578662	DS0 Adapter Cable for AP1-AP3	1
848578670	DS0 Adapter Cable for AP4-AP6	1
848583985	DS0 Adapter Cable for AP7-AP9	1
848578688	DS0 Adapter Cable for AP10-AP12	1
848584009	DS0 Adapter Cable for AP13-AP15	1
846584365	111A Fan Control Unit	1
901211177	#12-24 Screw	10
848601878	Label set for application to retrofit site	1
996747689	Cable Tie	30
842094922	Cable Tie Bar	2



**Figure 3-2. Cable Routing for FAST Shelf in a SLC Series 5 Bulk Powered Bay**

The *AnyMedia* shelf (J1C282AC-1 L2) is equipped with front access connectors and dangles that must be connected to the existing *SLC Series 5* DCB customer and bay cables. The Adapter Kit, Comcode 848578704, is provided for this interface. The kit includes 9 adapter cables assemblies, the 111A Fan Control Unit, a decal label sheet, screws, and other hardware. The following describes each cable assembly:

- Cable, (Alarm, Test and Ringing Adapter), Comcode 848578613, provides an interface between the *SLC Series 5* ringing and alarm connectors and the *AnyMedia* shelf. It also connects to the 111A Fan Control Unit, Comcode 846584365, that is provided to invert traditional -48V *SLC Series 5* alarms to ground closures as required by *AnyMedia* system. This cable also provides DC test pair connections to the *AnyMedia* shelf. Labeling of the DC test pair appearance on the Miscellaneous Pair Panel should be changed to show the *AnyMedia* shelf application.

- Cable, (Power Adapter), Comcode 848578621, provides -48 V power connections from the J1C182BB power shelf to the *AnyMedia* shelf. This cable is 10 feet long to permit connection to a shelf at the top of the bay. If the *AnyMedia* shelf is located below the upper position, the excess cable should be stored in the bay cable duct.
- Cable, (Telemetry Adapter), Comcode 848578639, provides the miscellaneous alarm interface from the *SLC* Series 5 bay cabling to the *AnyMedia* shelf. It accepts ground closures from the 111A Fan Control Unit (representing PMN, RGMN and various fuse and fan alarms) and routes them to TLM1 and TLM2 alarm inputs of the *AnyMedia* shelf. It also routes any existing MISC 1 and 2 alarms associated with the DCB that is being replaced. These alarms are passed to TLM3 to TLM6 of the *AnyMedia* shelf. Alarm mapping information is shown in Table 3-2.

**Table 3-2. Alarm Mapping Table**

<b><i>SLC</i><sup>®</sup> Series 5 Alarm</b>	<b>Alarm Condition</b>	<b><i>AnyMedia</i><sup>®</sup> Alarm</b>	<b>Access Identifiers (AIDS)</b>
PMN (Minor)	-48 converted to ground	TLM2	mc-1-2
PSMN (Minor)	-48 converted to ground	TLM1	mc-1-1
RGMN (Minor)	-48 converted to ground	TLM1	mc-1-1
AGG-11 Fuse	-48 converted to ground	TLM1	mc-1-1
MISC-1 BL	Ground	TLM3	mc-1-3
MISC-2 BL	Ground	TLM4	mc-1-4
MISC-1 WH	Ground	TLM5	mc-1-5
MISC-2 WH	Ground	TLM6	mc-1-6

**Note 1:** The *AnyMedia* fan alarm is also presented as TLM1.

**Note 2:** Office records as well as any labeling on the existing miscellaneous cross-connect pair panel should be changed to reflect these alarm reassignments. The *AnyMedia* system must also be provisioned to support these alarm inputs.

- Cable, (DS1 Adapter), — two cables per Comcode 848578654 — are used to interface the DS1 connections from the *AnyMedia* shelf to the customer DS1 cables from the enclosure's DSX panel. Separate transmit and receive adapter cables are provided. *SLC* Series 5 DS1s are mapped to an *AnyMedia* system per Table 3-3. Office records and DSX designations should be corrected as needed (the “Labeling and Stenciling Changes” section of this chapter provides labeling recommendations).

**Table 3-3. *SLC* Series 5 DS1 Designations Assigned to *AnyMedia* System**

<b><i>SLC</i><sup>®</sup> Series 5 Bank</b>	<b>DS1 Designations</b>	<b><i>AnyMedia</i><sup>®</sup> System DS1 Assignments</b>
Blue	A, B, C, D	1, 2, 3, 4
Blue and White	P	Not Used
White	A, B, C, D	5, 6, 7, 8

- Cable, (DS0 Adapter Cable for AP1-AP3), Comcode 848578662, is used with APs located in AP slots 1, 2, and 3 to provide the interface to the customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter Cable for AP4-AP6), Comcode 848786670, is used with APs located in AP slots 4, 5, and 6 to provide the interface to the customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter Cable for AP7-AP9), Comcode 848583985, is used with APs located in AP slots 7, 8 and 9 to provide the interface to customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter Cable for AP10-AP12), Comcode 848578688, is used with APs located in AP slots 10, 11, and 12 to provide the interface to customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter Cable for AP13-AP15), Comcode 848584009, is used with APs located in AP slots 13, 14, and 15 to provide the interface to customer VF cables from the bay to the protector blocks.

## **VF Cable Mapping Configuration**

The VF interface adapter cables (DS0 adapter cables) provide different channel assignment mapping between the *AnyMedia* shelf and the associated protector blocks and feeder distribution interface (FDI) than was conventional for a *SLC* Series 5 DCB. One major difference is the use of 24-line groups assigned to each of the 25 positions on a block. This results in dead pair positions 25, 26, 75, and 76 on protector blocks and FDIs associated with the *AnyMedia* shelf. Detailed mapping of *AnyMedia* channels (access identifier [AIDs]) is provided in Table 3-4. These assignments should be incorporated into the appropriate office records and the associated protector blocks and FDI terminal should be restamped (see the “Labeling and Stenciling Changes” section of this chapter provides labeling recommendations).

**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping**

AnyMedia <sup>®</sup> AIDs	AP #	AP Pair #	Service Type	SLC <sup>®</sup> Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
drop-1-1-1	1	1	ADSL/POTS	J101 BL	1	1
drop-1-1-2	1	2	ADSL/POTS	J101 BL	2	2
drop-1-1-3	1	3	ADSL/POTS	J101 BL	3	3
drop-1-1-4	1	4	ADSL/POTS	J101 BL	4	4
drop-1-1-5	1	5	ADSL/POTS	J101 BL	5	5
drop-1-1-6	1	6	ADSL/POTS	J101 BL	6	6
drop-1-1-7	1	7	ADSL/POTS	J101 BL	7	7
drop-1-1-8	1	8	ADSL/POTS	J101 BL	8	8
drop-1-2-1	2	1	ADSL/POTS	J101 BL	9	9
drop-1-2-2	2	2	ADSL/POTS	J101 BL	10	10
drop-1-2-3	2	3	ADSL/POTS	J101 BL	11	11
drop-1-2-4	2	4	ADSL/POTS	J101 BL	12	12
drop-1-2-5	2	5	ADSL/POTS	J101 BL	13	13
drop-1-2-6	2	6	ADSL/POTS	J101 BL	14	14
drop-1-2-7	2	7	ADSL/POTS	J101 BL	15	15
drop-1-2-8	2	8	ADSL/POTS	J101 BL	16	16
drop-1-3-1	3	1	ADSL/POTS	J101 BL	17	17
drop-1-3-2	3	2	ADSL/POTS	J101 BL	18	18
drop-1-3-3	3	3	ADSL/POTS	J101 BL	19	19
drop-1-3-4	3	4	ADSL/POTS	J101 BL	20	20
drop-1-3-5	3	5	ADSL/POTS	J101 BL	21	21
drop-1-3-6	3	6	ADSL/POTS	J101 BL	22	22
drop-1-3-7	3	7	ADSL/POTS	J101 BL	23	23
drop-1-3-8	3	8	ADSL/POTS	J101 BL	24	24
				J101 BL	25	25 dead

*Continued on next page*

**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
				J102 BL	1	26 dead
drop-1-4-1	4	1	ADSL/POTS	J102 BL	2	27
drop-1-4-2	4	2	ADSL/POTS	J102 BL	3	28
drop-1-4-3	4	3	ADSL/POTS	J102 BL	4	29
drop-1-4-4	4	4	ADSL/POTS	J102 BL	5	30
drop-1-4-5	4	5	ADSL/POTS	J102 BL	6	31
drop-1-4-6	4	6	ADSL/POTS	J102 BL	7	32
drop-1-4-7	4	7	ADSL/POTS	J102 BL	8	33
drop-1-4-8	4	8	ADSL/POTS	J102 BL	9	34
drop-1-5-1	5	1	ADSL/POTS	J102 BL	10	35
drop-1-5-2	5	2	ADSL/POTS	J102 BL	11	36
drop-1-5-3	5	3	ADSL/POTS	J102 BL	12	37
drop-1-5-4	5	4	ADSL/POTS	J102 BL	13	38
drop-1-5-5	5	5	ADSL/POTS	J102 BL	14	39
drop-1-5-6	5	6	ADSL/POTS	J102 BL	15	40
drop-1-5-7	5	7	ADSL/POTS	J102 BL	16	41
drop-1-5-8	5	8	ADSL/POTS	J102 BL	17	42
drop-1-6-1	6	1	ADSL/POTS	J102 BL	18	43
drop-1-6-2	6	2	ADSL/POTS	J102 BL	19	44
drop-1-6-3	6	3	ADSL/POTS	J102 BL	20	45
drop-1-6-4	6	4	ADSL/POTS	J102 BL	21	46
drop-1-6-5	6	5	ADSL/POTS	J102 BL	22	47
drop-1-6-6	6	6	ADSL/POTS	J102 BL	23	48
drop-1-6-7	6	7	ADSL/POTS	J102 BL	24	49
drop-1-6-8	6	8	ADSL/POTS	J102 BL	25	50

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**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
drop-1-7-1	7	1	ADSL/POTS	J103 BL	1	51
drop-1-7-2	7	2	ADSL/POTS	J103 BL	2	52
drop-1-7-3	7	3	ADSL/POTS	J103 BL	3	53
drop-1-7-4	7	4	ADSL/POTS	J103 BL	4	54
drop-1-7-5	7	5	ADSL/POTS	J103 BL	5	55
drop-1-7-6	7	6	ADSL/POTS	J103 BL	6	56
drop-1-7-7	7	7	ADSL/POTS	J103 BL	7	57
drop-1-7-8	7	8	ADSL/POTS	J103 BL	8	58
drop-1-8-1	8	1	ADSL/POTS	J103 BL	9	59
drop-1-8-2	8	2	ADSL/POTS	J103 BL	10	60
drop-1-8-3	8	3	ADSL/POTS	J103 BL	11	61
drop-1-8-4	8	4	ADSL/POTS	J103 BL	12	62
drop-1-8-5	8	5	ADSL/POTS	J103 BL	13	63
drop-1-8-6	8	6	ADSL/POTS	J103 BL	14	64
drop-1-8-7	8	7	ADSL/POTS	J103 BL	15	65
drop-1-8-8	8	8	ADSL/POTS	J103 BL	16	66
drop-1-9-1	9	1	ADSL/POTS	J103 BL	17	67
drop-1-9-2	9	2	ADSL/POTS	J103 BL	18	68
drop-1-9-3	9	3	ADSL/POTS	J103 BL	19	69
drop-1-9-4	9	4	ADSL/POTS	J103 BL	20	70
drop-1-9-5	9	5	ADSL/POTS	J103 BL	21	71
drop-1-9-6	9	6	ADSL/POTS	J103 BL	22	72
drop-1-9-7	9	7	ADSL/POTS	J103 BL	23	73
drop-1-9-8	9	8	ADSL/POTS	J103 BL	24	74
				J103 BL	25	75 dead

*Continued on next page*

**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
				J104 BL	1	76 dead
drop-1-10-1	10	1	ADSL/POTS	J104 BL	2	77
drop-1-10-2	10	2	ADSL/POTS	J104 BL	3	78
drop-1-10-3	10	3	ADSL/POTS	J104 BL	4	79
drop-1-10-4	10	4	ADSL/POTS	J104 BL	5	80
drop-1-10-5	10	5	ADSL/POTS	J104 BL	6	81
drop-1-10-6	10	6	ADSL/POTS	J104 BL	7	82
drop-1-10-7	10	7	ADSL/POTS	J104 BL	8	83
drop-1-10-8	10	8	ADSL/POTS	J104 BL	9	84
drop-1-11-1	11	1	ADSL/POTS	J104 BL	10	85
drop-1-11-2	11	2	ADSL/POTS	J104 BL	11	86
drop-1-11-3	11	3	ADSL/POTS	J104 BL	12	87
drop-1-11-4	11	4	ADSL/POTS	J104 BL	13	88
drop-1-11-5	11	5	ADSL/POTS	J104 BL	14	89
drop-1-11-6	11	6	ADSL/POTS	J104 BL	15	90
drop-1-11-7	11	7	ADSL/POTS	J104 BL	16	91
drop-1-11-8	11	8	ADSL/POTS	J104 BL	17	92
drop-1-12-1	12	1	ADSL/POTS	J104 BL	18	93
drop-1-12-2	12	2	ADSL/POTS	J104 BL	19	94
drop-1-12-3	12	3	ADSL/POTS	J104 BL	20	95
drop-1-12-4	12	4	ADSL/POTS	J104 BL	21	96
drop-1-12-5	12	5	ADSL/POTS	J104 BL	22	97
drop-1-12-6	12	6	ADSL/POTS	J104 BL	23	98
drop-1-12-7	12	7	ADSL/POTS	J104 BL	24	99
drop-1-12-8	12	8	ADSL/POTS	J104 BL	25	100

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**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
drop-1-13-1	13	1	ADSL/POTS	J101 WH	1	1
drop-1-13-2	13	2	ADSL/POTS	J101 WH	2	2
drop-1-13-3	13	3	ADSL/POTS	J101 WH	3	3
drop-1-13-4	13	4	ADSL/POTS	J101 WH	4	4
drop-1-13-5	13	5	ADSL/POTS	J101 WH	5	5
drop-1-13-6	13	6	ADSL/POTS	J101 WH	6	6
drop-1-13-7	13	7	ADSL/POTS	J101 WH	7	7
drop-1-13-8	13	8	ADSL/POTS	J101 WH	8	8
drop-1-14-1	14	1	ADSL/POTS	J101 WH	9	9
drop-1-14-2	14	2	ADSL/POTS	J101 WH	10	10
drop-1-14-3	14	3	ADSL/POTS	J101 WH	11	11
drop-1-14-4	14	4	ADSL/POTS	J101 WH	12	12
drop-1-14-5	14	5	ADSL/POTS	J101 WH	13	13
drop-1-14-6	14	6	ADSL/POTS	J101 WH	14	14
drop-1-14-7	14	7	ADSL/POTS	J101 WH	15	15
drop-1-14-8	14	8	ADSL/POTS	J101 WH	16	16
drop-1-15-1	15	1	ADSL/POTS	J101 WH	17	17
drop-1-15-2	15	2	ADSL/POTS	J101 WH	18	18
drop-1-15-3	15	3	ADSL/POTS	J101 WH	19	19
drop-1-15-4	15	4	ADSL/POTS	J101 WH	20	20
drop-1-15-5	15	5	ADSL/POTS	J101 WH	21	21
drop-1-15-6	15	6	ADSL/POTS	J101 WH	22	22
drop-1-15-7	15	7	ADSL/POTS	J101 WH	23	23
drop-1-15-8	15	8	ADSL/POTS	J101 WH	24	24
				J101 WH	25	25 dead

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**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
				J102 WH	1	26 dead
drop-1-1-9	1	9	POTS	J102 WH	2	27
drop-1-1-10	1	10	POTS	J102 WH	3	28
drop-1-1-11	1	11	POTS	J102 WH	4	29
drop-1-1-12	1	12	POTS	J102 WH	5	30
drop-1-1-13	1	13	POTS	J102 WH	6	31
drop-1-1-14	1	14	POTS	J102 WH	7	32
drop-1-1-15	1	15	POTS	J102 WH	8	33
drop-1-1-16	1	16	POTS	J102 WH	9	34
drop-1-1-17	1	17	POTS	J102 WH	10	35
drop-1-1-18	1	18	POTS	J102 WH	11	36
drop-1-1-19	1	19	POTS	J102 WH	12	37
drop-1-1-20	1	20	POTS	J102 WH	13	38
drop-1-1-21	1	21	POTS	J102 WH	14	39
drop-1-1-22	1	22	POTS	J102 WH	15	40
drop-1-1-23	1	23	POTS	J102 WH	16	41
drop-1-1-24	1	24	POTS	J102 WH	17	42
drop-1-1-25	1	25	POTS	J102 WH	18	43
drop-1-1-26	1	26	POTS	J102 WH	19	44
drop-1-1-27	1	27	POTS	J102 WH	20	45
drop-1-1-28	1	28	POTS	J102 WH	21	46
drop-1-1-29	1	29	POTS	J102 WH	22	47
drop-1-1-30	1	30	POTS	J102 WH	23	48
drop-1-1-31	1	31	POTS	J102 WH	24	49
drop-1-1-32	1	32	POTS	J102 WH	25	50

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**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
drop-1-2-9	2	9	POTS	J103 WH	1	51
drop-1-2-10	2	10	POTS	J103 WH	2	52
drop-1-2-11	2	11	POTS	J103 WH	3	53
drop-1-2-12	2	12	POTS	J103 WH	4	54
drop-1-2-13	2	13	POTS	J103 WH	5	55
drop-1-2-14	2	14	POTS	J103 WH	6	56
drop-1-2-15	2	15	POTS	J103 WH	7	57
drop-1-2-16	2	16	POTS	J103 WH	8	58
drop-1-2-17	2	17	POTS	J103 WH	9	59
drop-1-2-18	2	18	POTS	J103 WH	10	60
drop-1-2-19	2	19	POTS	J103 WH	11	61
drop-1-2-20	2	20	POTS	J103 WH	12	62
drop-1-2-21	2	21	POTS	J103 WH	13	63
drop-1-2-22	2	22	POTS	J103 WH	14	64
drop-1-2-23	2	23	POTS	J103 WH	15	65
drop-1-2-24	2	24	POTS	J103 WH	16	66
drop-1-2-25	2	25	POTS	J103 WH	17	67
drop-1-2-26	2	26	POTS	J103 WH	18	68
drop-1-2-27	2	27	POTS	J103 WH	19	69
drop-1-2-28	2	28	POTS	J103 WH	20	70
drop-1-2-29	2	29	POTS	J103 WH	21	71
drop-1-2-30	2	30	POTS	J103 WH	22	72
drop-1-2-31	2	31	POTS	J103 WH	23	73
drop-1-2-32	2	32	POTS	J103 WH	24	74
				J103 WH	25	75 dead

*Continued on next page*

**Table 3-4. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
				J104 WH	1	76 dead
drop-1-3-9	3	9	POTS	J104 WH	2	77
drop-1-3-10	3	10	POTS	J104 WH	3	78
drop-1-3-11	3	11	POTS	J104 WH	4	79
drop-1-3-12	3	12	POTS	J104 WH	5	80
drop-1-3-13	3	13	POTS	J104 WH	6	81
drop-1-3-14	3	14	POTS	J104 WH	7	82
drop-1-3-15	3	15	POTS	J104 WH	8	83
drop-1-3-16	3	16	POTS	J104 WH	9	84
drop-1-3-17	3	17	POTS	J104 WH	10	85
drop-1-3-18	3	18	POTS	J104 WH	11	86
drop-1-3-19	3	19	POTS	J104 WH	12	87
drop-1-3-20	3	20	POTS	J104 WH	13	88
drop-1-3-21	3	21	POTS	J104 WH	14	89
drop-1-3-22	3	22	POTS	J104 WH	15	90
drop-1-3-23	3	23	POTS	J104 WH	16	91
drop-1-3-24	3	24	POTS	J104 WH	17	92
drop-1-3-25	3	25	POTS	J104 WH	18	93
drop-1-3-26	3	26	POTS	J104 WH	19	94
drop-1-3-27	3	27	POTS	J104 WH	20	95
drop-1-3-28	3	28	POTS	J104 WH	21	96
drop-1-3-29	3	29	POTS	J104 WH	22	97
drop-1-3-30	3	30	POTS	J104 WH	23	98
drop-1-3-31	3	31	POTS	J104 WH	24	99
drop-1-3-32	3	32	POTS	J104 WH	25	100

## **Additional Cabling**

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### **Additional Cables Required When Using the AFMDS3 Unit**

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The following additional cabling is required when using the AFMDS3 unit:

- Two additional cables per ED7C829-32, G( ) are required to provide the DS3 connection from the *AnyMedia* shelf (AFM unit) to the DDM-2000 or equivalent multiplexer provided for the system. **Cable length, G( ), is site specific and must be ordered separately.**
- If multiple shelves are being installed two ED7C829-31, G1 (5-foot), or G1A (8-foot), or G1B (12-foot) or G1C (20-foot) cables are required to multiple the DS3 connections between AFM units. Two cables per daisy chain connection are required and must be ordered separately.

### **Additional Cables Required When Using the AFMDS1 Unit**

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The AFMDS1 unit requires an ED7C849-30 G10 dangler cable to interface the unit's face plate connector to separate transmit and receive DS1 connectors. This dangler must be connected to spare or additional DSX blocks on the DSX panel using two (one transmit and one receive) ED7C849-30 G11 cables. These 3 cables and any additional DSX blocks must be ordered separately. For additional information see Document 363-211-102, *AnyMedia Installation Manual*.

### **Additional Cables Required When Using the AFMO Unit**

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The AFMO unit provides fiber optic port connections which must be connected to OC-3 fiber feeder terminations in the enclosure's fiber tray or other OC-3 interfaces. The AFMO requires two single-mode fiber jumpers equipped with SC connectors. These cables are available in a variety of lengths. A line build out (LBO) unit may also be required on the transmit fiber. See Document 363-211-102, *AnyMedia Installation Manual* for detailed information.

If multiple AFMO units are installed at a location they can be daisy chained using optical cable jumpers and appropriate 15 dB LBOs as described in Document 363-211-102.

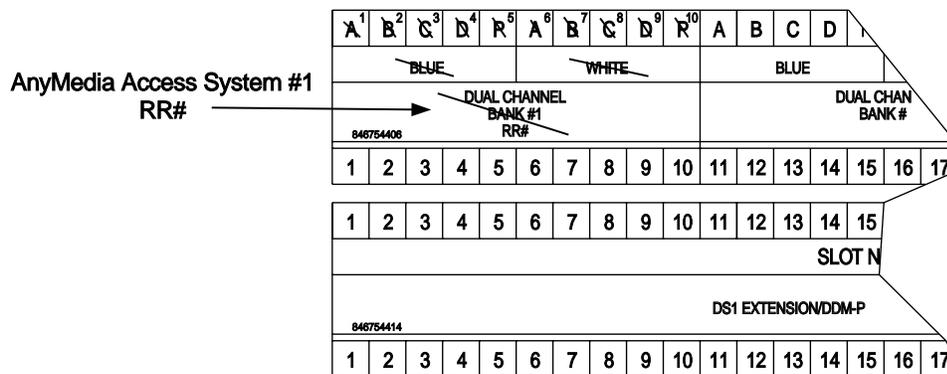
Cables and LBOs for AFMO units must be selected to meet specific application requirements and ordered separately.

## Labeling and Stenciling Changes

On the DSX Panel label, change the *SLC* Series 5 designations to *AnyMedia* Access System designations for the systems being substituted, as shown in the following figure (Figure 3-3).

<b>SLC<sup>®</sup> Series 5 System</b>	—————>	<b>AnyMedia<sup>®</sup> Access System</b>
<b>Change from:</b>		<b>To:</b>
ABCDPABCDP	—————>	1 2 3 4 5 6 7 8 9 10
BLUE WHITE	—————>	Delete
DUAL CHANNEL BANK #1 RR#	—————>	AnyMedia Access System #1 RR#

See Below:



Slc5label11

Figure 3-3. Changes To DSX Labeling For AnyMedia Shelf Located In Position 1

Protector block and derived pair labeling varies by installation and user preferences. It is recommended that the following new labels — Comcode 848601878 (included in the kit) — be used to identify protector blocks that are associated with *AnyMedia* replacements in the *SLC* Series 5 bays.

- Label 1 (Figure 3-4) provides information on the mapping of protector pairs to *AnyMedia* AP pairs and should be located adjacent to the applicable protector blocks along with Label 2. Where space is limited, it is suggested that Label 1 be placed on the *AnyMedia* shelf door and Label 3 be used at the Protector block location.

### Label 1

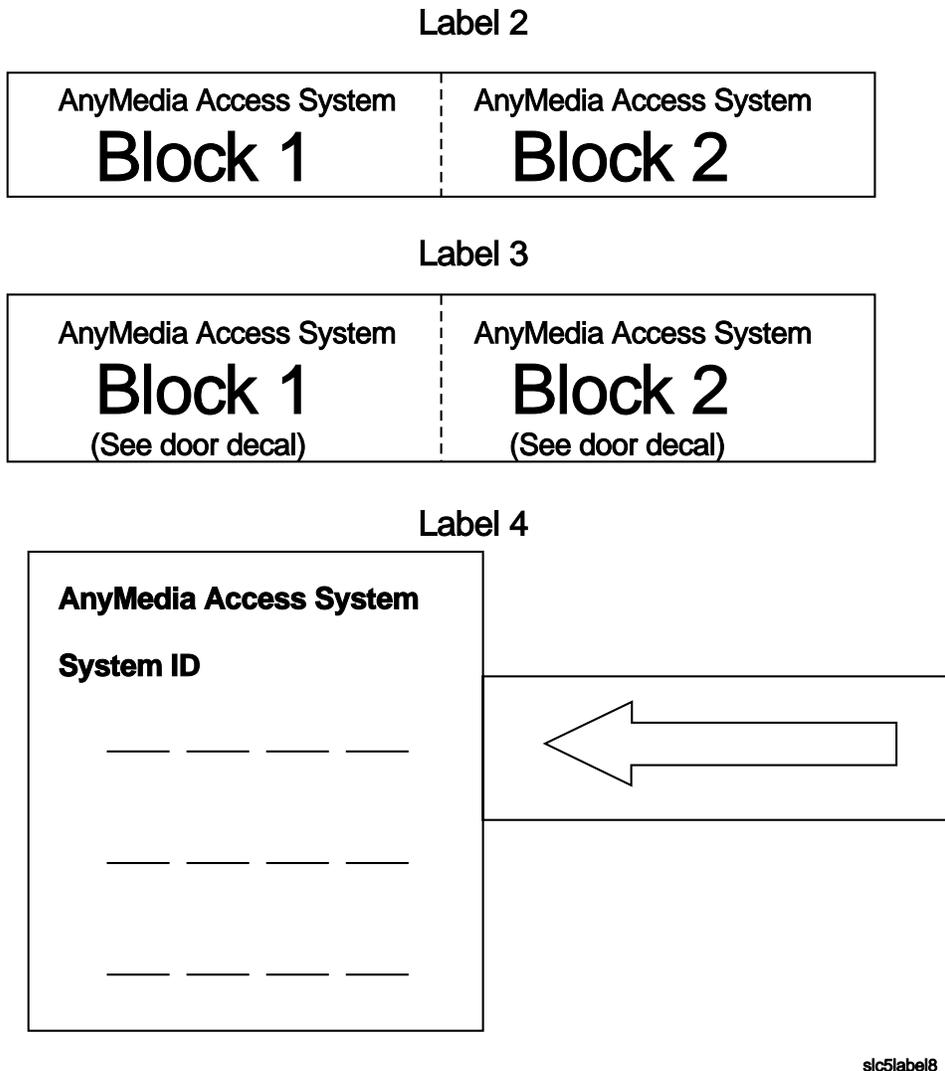
<i>AnyMedia</i> ® Access System Protector Wiring				
Pair # on Block	SLC Series 5 710 Connector #	710 Connector Pair #	AnyMedia AP #	AP # Cable Pairs #
B1 1-8	J101 BL	1-8	1	1-8
B1 9-16	J101 BL	9-16	2	1-8
B1 17-24	J101 BL	17-24	3	1-8
B1 27-34	J102 BL	2-9	4	1-8
B1 35-42	J102 BL	10-17	5	1-8
B1 43-50	J102 BL	18-25	6	1-8
B1 51-58	J103 BL	1-8	7	1-8
B1 59-66	J103 BL	9-16	8	1-8
B1 67-74	J103 BL	17-24	9	1-8
B1 77-84	J104 BL	2-9	10	1-8
B1 85-92	J104 BL	10-17	11	1-8
B1 93-100	J104 BL	18-25	12	1-8
B1 1-8	J101 WH	1-8	13	1-8
B1 9-16	J101 WH	9-16	14	1-8
B1 17-24	J101 WH	17-24	15	1-8
B1 27-50	J102 WH	2-25	1	9-32
B1 51-74	J103 WH	1-24	2	9-32
B1 77-100	J104 WH	2-25	3	9-32

Note: B1 and B2 refer to the 100 pair protector block panels. B1 is associated with the blue system of the original (removed) SLC® Series 5 Carrier System dual channel bank and B2 is associated with the white system. "Pair # on Block" numbers are synonymous with the protector numbers and the cable pair count of the 100 pair cables going to and from the protector blocks. Note that protectors and cable pairs 24, 25, 75, and 76 are not used on either block and are designated as spares.

slc5label7

Figure 3-4. Label 1 — AnyMedia System Protector Wiring

- Label 2 identifies the specific protector block groups that are associated with the system. (Label 3 is intended primarily for cabinets, except as previously discussed.) Label 4 identifies the *AnyMedia* system number and can be annotated to specify derived pair and cable information for the system. They should be placed adjacent to the shelf or on the shelf door (see Figure 3-5).



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**Figure 3-5. Labels 2, 3, and 4**

- Re-labeling of alarm and test pair terminations at the appropriate miscellaneous cross-connect panel is recommended to identify those associated with the new *AnyMedia* system (Table 3-5).

**Table 3-5. Alarm and Test Pair Terminations**

<b>SLC<sup>®</sup> Series 5 Alarms</b>	<b>AnyMedia<sup>®</sup> Access System Alarm</b>	<b>Access Identifiers (AIDs)</b>
PMN	TLM2 PMN	mc-1-2
PSMN	TLM1 PSMN	mc-1-1
RGMN	TLM1 RGMN	mc-1-1
AUG-11 Fuse	TLM1 AUG-11 Fuse	mc-1-1
MISC-1 BL	TLM3*	mc-1-3
MISC-2 BL	TLM4*	mc-1-4
MISC-1 WH	TLM5*	mc-1-5
MISC-2 WH	TLM6*	mc-1-6

**Note:** The *AnyMedia* fan alarm is also presented as TLM1.

\* These four alarms should be labeled to match the alarm function for which they are being used (four Miscellaneous inputs).



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# Controlled Environment Vaults, Huts, and Customer Premises Applications (Using Adapter Kit, Comcode 848606752)

# 4

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# Controlled Environment Vaults, Huts, and Customer Premises Applications (Using Adapter Kit, Comcode 848606752)

# 4

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## Overview

This chapter provides the engineering guidelines to replace existing *SLC*<sup>®</sup> Series 5 Carrier System equipment with an *AnyMedia*<sup>®</sup> Access System in Lucent Technologies field assembled, bulk-powered remote terminal (RT) bays per SD-7C118-01 arranged per BD-10 and equipped with J1C182BB bulk-power units and 2-type fan units **using Adapter Kit, Comcode 848606752**.



**NOTE:**

If bays per SD-7C118-01, BD-9 are to be retrofitted, the existing E&M interfaces will not be supported.

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## Objective

The objective of these guidelines is to replace one or more existing *SLC* Series 5 dual channel banks (DCBs) (J1C182 AB, AC, AE or AF) with *AnyMedia*<sup>®</sup> *FAST*<sup>™</sup> shelves (J1C282AC-1, L2) for TR-08<sup>†</sup> Mode 1 or GR-303<sup>†</sup> applications in bulk-powered bays. A 6A fan unit must be installed with each *AnyMedia FAST* shelf. Each installed *FAST* shelf supports a maximum capacity of 15 application packs (APs). The 15 APs consist of 8X32 asymmetric digital subscriber line / plain old telephone service (ADSL/POTS) APs in AP slots 1, 2, and 3 and up to twelve 8X8 ADSL/POTS APs in AP slots 4 to 15 (slot 16 is used for the AFM unit). With this

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\* TR-NWT-008, "Digital Interface Between the *SLC*-96 Digital Loop Carrier System and a Local Digital Switch," Issue 2 (Telcordia Technologies, Inc., August, 1987) plus Revision 1, September 1993

† GR-303-CORE, "Integrated Digital Loop Carrier System Generic Requirements, Objectives and Interface", Issue 1, September, 1995, Revision 3, December, 1997

arrangement, the shelf provides up to 120 lines of ADSL/POTS plus 72 lines of POTS only. AP slots 1, 2, and 3 are flexible slots in that all 32 tip/ring (T/R) pairs are brought out to the protector field. AP slots 4 to 15 can only be used with 4- or 8-line APs.

## Assumptions

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These guidelines are based on the following assumptions:

- One or more *SLC* Series 5 DCBs are not in service or physically not installed in the bay.
- While it is possible to replace a working DCB with an *AnyMedia* shelf, this requires a "Hot Slide" procedure and is not specifically addressed in these guidelines.
- All customer side cables (voice frequency [VF] tip/ring, DS1, Alarms and direct current [DC] test pair) are in place for the DCBs to be replaced.
- To support the added ADSL/POTS services, the site must be equipped with an OC-3 or OC-12 multiplexer (DDM-2000 or equivalent) with a spare DS3 port for transporting the ADSL services. ADSL services can also be transported over DS1s or over an OC-3. The AFMDS1 AP requires up to 8 DS1s for transport facilities. The AFMO AP requires an OC-3 port on a multiplexer or it can operate over a spare pair of fiber optic cables. In addition, up to eight (eight for two TR-08 Mode 1 applications or a minimum of two for GR-303 applications) spare DS1 ports for each *AnyMedia* shelf of 192 POTS lines must be available for each *FAST* shelf installed.
- A single DS3 can be shared across all ADSL lines, for up to eight *FAST* shelves.



**NOTE:**

A single pair of fiber optic cables may be shared across all ADSL lines by daisy chaining the AFMOs. The AFMDS1 can not be daisy chained across multiple shelves.

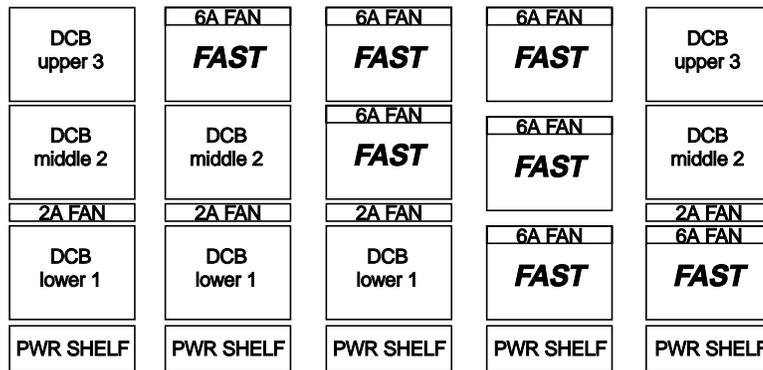
## Limitations and Considerations

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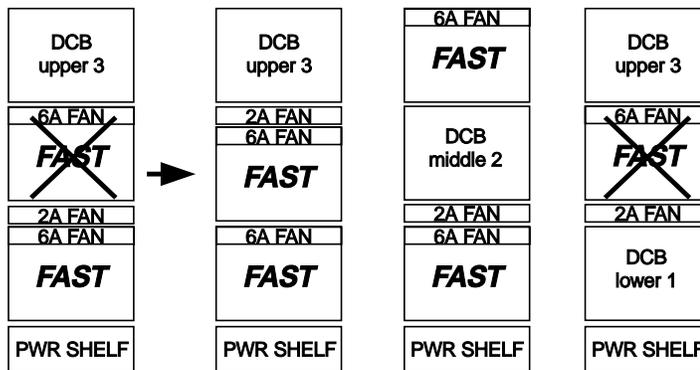
Observe the following limitations and considerations when you use these guidelines:

- Working DCBs can remain in any of the three bank locations within the bay. (See Figure 4-1 for possible configurations.)
- If no DCBs are to remain in the bay, the existing 2-type fan can be removed.
- If a working DCB remains in position 1 (bottom of bay), then the *AnyMedia* shelf can be placed in positions 2 and/or 3.

- If a working DCB remains in position 2 (center), then the *AnyMedia* shelf can be placed in positions 1 and/or 3.
- If a working DCB remains in position 3 (top), then the *AnyMedia* shelf can be placed in position 1 only. Locating an *AnyMedia* shelf in position 2 would block airflow from the 2-type fan to the upper DCB. However, if the 2-type fan is relocated from its normal location, under position 2, to a position immediately below the top DCB, (see SD-7C118-01 CAD56), *FAST* shelves can be placed in positions 1 and 2. In this case, DCBs should not be mounted in either position 1 or 2.
- The *AnyMedia FAST* shelf depth, including backplane connectors, extends 9 inches behind the front flange of a bay. This is two inches more than a *SLC Series 5 DCB* and may present a problem if the bay is mounted very close to a wall.



FAST only, No  
2A Fan Required



Relocate 2A Fan  
Under upper DCB

amsbayarrangements

Figure 4-1. Possible Arrangements of *AnyMedia* Shelves in *SLC Series 5 DCB* Bays

## Power and Heat

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Observe the following guidelines for power and heat:

- Each *AnyMedia* shelf can be equipped with up to three 8X32 ADSL/POTS APs and twelve 8X8 ADSL/POTS APs. (This provides up to 120 lines of ADSL/POTS plus 72 lines of POTS.) This configuration presents a List 1 current drain of 14.7 amps at -42.5 V with a traffic load of 6 hundred call seconds (CCS). The maximum List 2 current drain is 20.6 amps at -42.5 V with a traffic load of 36 CCS. These loads are considerably higher than a *SLC Series 5 DCB*.
- The increased power drain on the -48 V power plant must be evaluated to assure that both adequate rectifier and battery reserve capacity is provided.
- Each fully equipped *AnyMedia* system presents a List 1 heat load of 600 watts; 418 watts greater than a *SLC Series 5 DCB*.
- The increased heat load must be evaluated to determine if the enclosure has adequate heat removal capacity (heating, ventilation, and air conditioning [HVAC]).

The J1C182BB power shelf is normally installed with three separate 30 Amp feeder cables. These feeder cables are adequate to meet the maximum current drain requirements of a bay equipped with an *AnyMedia* shelf in position 1 and 2 or 3. If an *AnyMedia* shelf is to be placed in **both** positions 2 and 3 which may share a common 30 amp feeder in some sites, it is required that the single feeder be replaced by two, No. 10-gauge, 30 amp feeders (one to each *FAST* shelf). Even if separate feeder cables for positions 1, 2, and 3 are installed, feeders 2 and 3 may be terminated on a common 30 amp breaker (fuse). In either case, an additional breaker must be provided to implement separate 30 amp breakers for feeders 2 and 3. If additional power cable and or breakers are required they must be ordered separately, as needed.



**WARNING:**

*There will be a service outage on any SLC Series 5 DCB that remains in bay position 2 or 3 during the addition of a circuit breaker or feeder.*

## Reuse of the J1C182BB Bulk-Power Shelf

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Observe the following guidelines for the reuse of the J1C182BB bulk-power shelf:

- The bulk-power shelf is retained to provide power to any remaining DCBs, and 2-type fan units. The shelf also provides ringing power to all systems in the bay. It must be equipped with two type 3C1 or equivalent ringing generators and one AUG2 ring switch unit.
- The *AnyMedia* system does not require positive superimposed ringing so the AUG1 positive ringing units (PRUs) are only required if previously provided for the remaining DCBs.
- Ringing power is provided with the AUG11 bank fuse unit; one of which is required for each working DCB or *AnyMedia* shelf in the bay. Although the AUG11 unit does not provide fusing for the ringing supply to the DCB or *AnyMedia* shelf, removal of the AUG11 brakes the ringing supply connection to the associated DCB or *AnyMedia* shelf.
- The AUG11 unit also provides fuse and fan alarm (if equipped) information to the associated DCB or *AnyMedia* shelf.
- The 10A bank fuses in the AUG11 are not used for the *AnyMedia* shelf. The DC power is connected directly from the bay feeders to the fuse circuit module (FCM) associated with the *AnyMedia* shelf. This is accomplished by connecting the *AnyMedia* power cable to the input screw terminals (TB1) of the J1C182BB shelf. To connect to these terminals, the fuse/circuit breaker must be deactivated. (See Note.)



**NOTE:**

If the *AnyMedia* shelf is being placed in positions 2 or 3 and a working *SLC* Series 5 system is in the other position, a service outage will occur until the fuse/circuit breaker is reactivated, unless independent feeders and breakers have been installed as previously described.

## Cabling Interfaces

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This section contains guidelines for cabling interfaces.

### Adapter Kit (Comcode 848606752)

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Table 4-1 lists the comcode of the cable kit along with the comcodes of the other hardware provided by the Adapter Kit.

**Table 4-1. CEV Adapter Kit — Comcode 848606752**

Comcode	Description	Quantity
846584365	111A Fan Control Unit	1
848601878	Label set for application to retrofit site	1
848608659	Cable Kit for Comcode 848606752 CEV Retrofit Adapter kit	1
901211177	#12-24 Screws	10
996747689	Cable Tie	30

The *AnyMedia* shelf (J1C282AC-1 L2) is equipped with front access connectors and dangles that must be connected to the existing *SLC* Series 5 DCB customer and bay cables. The Comcode 848606752 Adapter Kit is provided for this interface. The kit includes the following:

- Cable kit for CEV retrofit (Comcode 848608659)
- 111A Fan Control Unit
- A decal label sheet, cable ties, and screws.

### **Cable Kit for CEV Retrofit (Comcode 848608659)**

The Cable Kit for CEV Retrofit is included in the Adapter Kit (Comcode 848606752) as shown in Table 4-1. Table 4-2 lists the cables along with their comcode that are included in the kit.

**Table 4-2. Cable Kit for CEV Retrofit — Comcode 848608659**

<b>Comcode</b>	<b>Description</b>	<b>Quantity</b>
848606661	Alarm Test and Ringing	1
848606679	Power	1
848606687	Telemetry	1
848606695	DS1 Adapter — 2 Cables Per Comcode	1
848606703	DS0 Adapter for AP1-AP3	1
848606711	DS0 Adapter for AP4-AP6	1
848606729	DS0 Adapter for AP7-AP9	1
848606737	DS0 Adapter for AP10-AP12	1
848606745	DS0 Adapter for AP13-AP15	1

The following describes each of the 9 cable assemblies provided in the cable kit. See Figure 4-2 on page 4-9 for detailed cabling information:

- Cable, (Alarm, Test, and Ringing), Comcode 848606661, provides an interface between the *SLC* Series 5 ringing and alarm connectors and the *AnyMedia* shelf. It also connects to the 111A Fan Control Unit, Comcode 846584365, that is provided to invert traditional -48V *SLC* Series 5 alarms to ground closures as required by *AnyMedia* system. This cable also provides DC test pair connections to the *AnyMedia* shelf. Labeling of the DC test pair appearance on the Miscellaneous Pair Panel should be changed to show the *AnyMedia* shelf application.
- Cable, (Power), Comcode 848606679, provides -48 V power connections from the J1C182BB power shelf to the *AnyMedia* shelf. This cable is 10 feet long to permit connection to a shelf at the top of the bay. If the *AnyMedia* shelf is located below the upper position, the excess cable should be stored in the bay cable duct.

- Cable, (Telemetry), Comcode 848606687, provides the miscellaneous alarm interface from the *SLC* Series 5 bay cabling to the *AnyMedia* shelf. It accepts ground closures from the 111A Fan Control Unit (representing PMN, RGMN and various fuse and fan alarms) and routes them to TLM1 and TLM2 alarm inputs of the *AnyMedia* shelf. It also routes any existing MISC 1 and 2 alarms associated with the DCB being replaced. These alarms are passed to TLM3 to TLM6 of the *AnyMedia* shelf. Alarm mapping information is shown in Table 4-3.

**Table 4-3. Alarm Mapping Table**

<b><i>SLC</i><sup>®</sup> Series 5 Alarm</b>	<b>Alarm Condition</b>	<b><i>AnyMedia</i><sup>®</sup> Alarm</b>	<b>Access Identifiers (AIDS)</b>
PMN (Minor)	-48 converted to ground	TLM2	mc-1-2
PSMN (Minor)	-48 converted to ground	TLM1	mc-1-1
RGMN (Minor)	-48 converted to ground	TLM1	mc-1-1
AGG-11 Fuse	-48 converted to ground	TLM1	mc-1-1
MISC-1 BL	Ground	TLM3	mc-1-3
MISC-2 BL	Ground	TLM4	mc-1-4
MISC-1 WH	Ground	TLM5	mc-1-5
MISC-2 WH	Ground	TLM6	mc-1-6

**Note 1:** The *AnyMedia* fan alarm is also presented as TLM1.

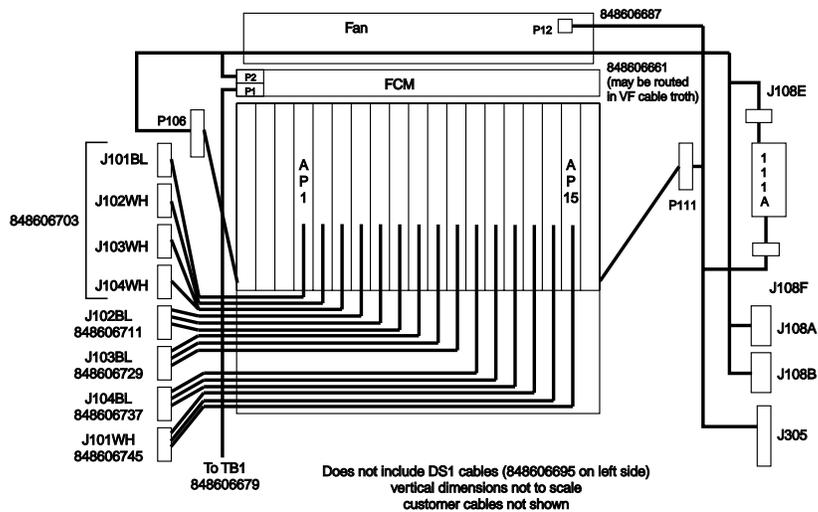
**Note 2:** Office records as well as any labeling on the existing Miscellaneous cross-connect pair panel should be changed to reflect these alarm reassignments. The *AnyMedia* system must also be provisioned to support these alarm inputs.

- Cable, (DS1 Adapter), — two cables per Comcode 848606695 — are used to interface the DS1 connections from the *AnyMedia* shelf to the customer DS1 cables from the enclosure's DSX panel. Separate transmit and receive adapter cables are provided. *SLC* Series 5 DS1s are mapped to an *AnyMedia* system per Table 4-4. Office records and DSX designations should be corrected as needed (the "Labeling and Stenciling Changes" section of this chapter provides labeling recommendations).

**Table 4-4. SLC Series 5 DS1 Designations Assigned to AnyMedia System**

<b>SLC<sup>®</sup> Series 5 Bank</b>	<b>DS1 Designations</b>	<b>AnyMedia<sup>®</sup> System DS1 Assignments</b>
Blue	A, B, C, D	1, 2, 3, 4
Blue and White	P	Not Used
White	A, B, C, D	5, 6, 7, 8

- Cable, (DS0 Adapter for AP1-AP3), Comcode 848606703, is used with APs located in AP slots 1, 2, and 3 to provide the interface to the customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter for AP4-AP6), Comcode 848606711, is used with APs located in AP slots 4, 5, and 6 to provide the interface to the customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter for AP7-AP9), Comcode 848606729, is used with APs located in AP slots 7, 8, and 9 to provide the interface to the customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter for AP10-AP12), Comcode 848606737, is used with APs located in AP slots 10, 11, and 12 to provide the interface to the customer VF cables from the bay to the protector blocks.
- Cable, (DS0 Adapter for AP13-AP15), Comcode 848606745, is used with APs located in AP slots 13, 14, and 15 to provide the interface to the customer VF cables from the bay to the protector blocks.



**Figure 4-2. Cable Routing for FAST Shelf in a SLC Series 5 Bulk-Powered Bay**

## **VF Cable Mapping Configuration**

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The VF interface adapter cables (DS0 adapter cables) provide different channel assignment mapping between the *AnyMedia* shelf and the associated protector blocks and feeder distribution interface (FDI) than was conventional for a *SLC* Series 5 DCB. One major difference is the use of 24-line groups assigned to each of the 25 positions on a block. This results in dead pair positions 25, 26, 75, and 76 on protector blocks and feeder distribution interfaces (FDIs) that are associated with the *AnyMedia* shelf. Detailed mapping of *AnyMedia* channels (access identifier [AIDs]) is provided in Table 4-5. These assignments should be incorporated into the appropriate office records and the associated protector blocks and FDI terminal should be restamped (see the “Labeling and Stenciling Changes” section of this chapter provides labeling recommendations).

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping**

AnyMedia <sup>®</sup> AIDs	AP #	AP Pair #	Service Type	SLC <sup>®</sup> Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
drop-1-1-1	1	1	ADSL/POTS	J101 BL	1	1
drop-1-1-2	1	2	ADSL/POTS	J101 BL	2	2
drop-1-1-3	1	3	ADSL/POTS	J101 BL	3	3
drop-1-1-4	1	4	ADSL/POTS	J101 BL	4	4
drop-1-1-5	1	5	ADSL/POTS	J101 BL	5	5
drop-1-1-6	1	6	ADSL/POTS	J101 BL	6	6
drop-1-1-7	1	7	ADSL/POTS	J101 BL	7	7
drop-1-1-8	1	8	ADSL/POTS	J101 BL	8	8
drop-1-2-1	2	1	ADSL/POTS	J101 BL	9	9
drop-1-2-2	2	2	ADSL/POTS	J101 BL	10	10
drop-1-2-3	2	3	ADSL/POTS	J101 BL	11	11
drop-1-2-4	2	4	ADSL/POTS	J101 BL	12	12
drop-1-2-5	2	5	ADSL/POTS	J101 BL	13	13
drop-1-2-6	2	6	ADSL/POTS	J101 BL	14	14
drop-1-2-7	2	7	ADSL/POTS	J101 BL	15	15
drop-1-2-8	2	8	ADSL/POTS	J101 BL	16	16
drop-1-3-1	3	1	ADSL/POTS	J101 BL	17	17
drop-1-3-2	3	2	ADSL/POTS	J101 BL	18	18
drop-1-3-3	3	3	ADSL/POTS	J101 BL	19	19
drop-1-3-4	3	4	ADSL/POTS	J101 BL	20	20
drop-1-3-5	3	5	ADSL/POTS	J101 BL	21	21
drop-1-3-6	3	6	ADSL/POTS	J101 BL	22	22
drop-1-3-7	3	7	ADSL/POTS	J101 BL	23	23
drop-1-3-8	3	8	ADSL/POTS	J101 BL	24	24
				J101 BL	25	25 dead

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
				J102 BL	1	26 dead
drop-1-4-1	4	1	ADSL/POTS	J102 BL	2	27
drop-1-4-2	4	2	ADSL/POTS	J102 BL	3	28
drop-1-4-3	4	3	ADSL/POTS	J102 BL	4	29
drop-1-4-4	4	4	ADSL/POTS	J102 BL	5	30
drop-1-4-5	4	5	ADSL/POTS	J102 BL	6	31
drop-1-4-6	4	6	ADSL/POTS	J102 BL	7	32
drop-1-4-7	4	7	ADSL/POTS	J102 BL	8	33
drop-1-4-8	4	8	ADSL/POTS	J102 BL	9	34
drop-1-5-1	5	1	ADSL/POTS	J102 BL	10	35
drop-1-5-2	5	2	ADSL/POTS	J102 BL	11	36
drop-1-5-3	5	3	ADSL/POTS	J102 BL	12	37
drop-1-5-4	5	4	ADSL/POTS	J102 BL	13	38
drop-1-5-5	5	5	ADSL/POTS	J102 BL	14	39
drop-1-5-6	5	6	ADSL/POTS	J102 BL	15	40
drop-1-5-7	5	7	ADSL/POTS	J102 BL	16	41
drop-1-5-8	5	8	ADSL/POTS	J102 BL	17	42
drop-1-6-1	6	1	ADSL/POTS	J102 BL	18	43
drop-1-6-2	6	2	ADSL/POTS	J102 BL	19	44
drop-1-6-3	6	3	ADSL/POTS	J102 BL	20	45
drop-1-6-4	6	4	ADSL/POTS	J102 BL	21	46
drop-1-6-5	6	5	ADSL/POTS	J102 BL	22	47
drop-1-6-6	6	6	ADSL/POTS	J102 BL	23	48
drop-1-6-7	6	7	ADSL/POTS	J102 BL	24	49
drop-1-6-8	6	8	ADSL/POTS	J102 BL	25	50

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
drop-1-7-1	7	1	ADSL/POTS	J103 BL	1	51
drop-1-7-2	7	2	ADSL/POTS	J103 BL	2	52
drop-1-7-3	7	3	ADSL/POTS	J103 BL	3	53
drop-1-7-4	7	4	ADSL/POTS	J103 BL	4	54
drop-1-7-5	7	5	ADSL/POTS	J103 BL	5	55
drop-1-7-6	7	6	ADSL/POTS	J103 BL	6	56
drop-1-7-7	7	7	ADSL/POTS	J103 BL	7	57
drop-1-7-8	7	8	ADSL/POTS	J103 BL	8	58
drop-1-8-1	8	1	ADSL/POTS	J103 BL	9	59
drop-1-8-2	8	2	ADSL/POTS	J103 BL	10	60
drop-1-8-3	8	3	ADSL/POTS	J103 BL	11	61
drop-1-8-4	8	4	ADSL/POTS	J103 BL	12	62
drop-1-8-5	8	5	ADSL/POTS	J103 BL	13	63
drop-1-8-6	8	6	ADSL/POTS	J103 BL	14	64
drop-1-8-7	8	7	ADSL/POTS	J103 BL	15	65
drop-1-8-8	8	8	ADSL/POTS	J103 BL	16	66
drop-1-9-1	9	1	ADSL/POTS	J103 BL	17	67
drop-1-9-2	9	2	ADSL/POTS	J103 BL	18	68
drop-1-9-3	9	3	ADSL/POTS	J103 BL	19	69
drop-1-9-4	9	4	ADSL/POTS	J103 BL	20	70
drop-1-9-5	9	5	ADSL/POTS	J103 BL	21	71
drop-1-9-6	9	6	ADSL/POTS	J103 BL	22	72
drop-1-9-7	9	7	ADSL/POTS	J103 BL	23	73
drop-1-9-8	9	8	ADSL/POTS	J103 BL	24	74
				J103 BL	25	75 dead

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 1
				J104 BL	1	76 dead
drop-1-10-1	10	1	ADSL/POTS	J104 BL	2	77
drop-1-10-2	10	2	ADSL/POTS	J104 BL	3	78
drop-1-10-3	10	3	ADSL/POTS	J104 BL	4	79
drop-1-10-4	10	4	ADSL/POTS	J104 BL	5	80
drop-1-10-5	10	5	ADSL/POTS	J104 BL	6	81
drop-1-10-6	10	6	ADSL/POTS	J104 BL	7	82
drop-1-10-7	10	7	ADSL/POTS	J104 BL	8	83
drop-1-10-8	10	8	ADSL/POTS	J104 BL	9	84
drop-1-11-1	11	1	ADSL/POTS	J104 BL	10	85
drop-1-11-2	11	2	ADSL/POTS	J104 BL	11	86
drop-1-11-3	11	3	ADSL/POTS	J104 BL	12	87
drop-1-11-4	11	4	ADSL/POTS	J104 BL	13	88
drop-1-11-5	11	5	ADSL/POTS	J104 BL	14	89
drop-1-11-6	11	6	ADSL/POTS	J104 BL	15	90
drop-1-11-7	11	7	ADSL/POTS	J104 BL	16	91
drop-1-11-8	11	8	ADSL/POTS	J104 BL	17	92
drop-1-12-1	12	1	ADSL/POTS	J104 BL	18	93
drop-1-12-2	12	2	ADSL/POTS	J104 BL	19	94
drop-1-12-3	12	3	ADSL/POTS	J104 BL	20	95
drop-1-12-4	12	4	ADSL/POTS	J104 BL	21	96
drop-1-12-5	12	5	ADSL/POTS	J104 BL	22	97
drop-1-12-6	12	6	ADSL/POTS	J104 BL	23	98
drop-1-12-7	12	7	ADSL/POTS	J104 BL	24	99
drop-1-12-8	12	8	ADSL/POTS	J104 BL	25	100

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
drop-1-13-1	13	1	ADSL/POTS	J101 WH	1	1
drop-1-13-2	13	2	ADSL/POTS	J101 WH	2	2
drop-1-13-3	13	3	ADSL/POTS	J101 WH	3	3
drop-1-13-4	13	4	ADSL/POTS	J101 WH	4	4
drop-1-13-5	13	5	ADSL/POTS	J101 WH	5	5
drop-1-13-6	13	6	ADSL/POTS	J101 WH	6	6
drop-1-13-7	13	7	ADSL/POTS	J101 WH	7	7
drop-1-13-8	13	8	ADSL/POTS	J101 WH	8	8
drop-1-14-1	14	1	ADSL/POTS	J101 WH	9	9
drop-1-14-2	14	2	ADSL/POTS	J101 WH	10	10
drop-1-14-3	14	3	ADSL/POTS	J101 WH	11	11
drop-1-14-4	14	4	ADSL/POTS	J101 WH	12	12
drop-1-14-5	14	5	ADSL/POTS	J101 WH	13	13
drop-1-14-6	14	6	ADSL/POTS	J101 WH	14	14
drop-1-14-7	14	7	ADSL/POTS	J101 WH	15	15
drop-1-14-8	14	8	ADSL/POTS	J101 WH	16	16
drop-1-15-1	15	1	ADSL/POTS	J101 WH	17	17
drop-1-15-2	15	2	ADSL/POTS	J101 WH	18	18
drop-1-15-3	15	3	ADSL/POTS	J101 WH	19	19
drop-1-15-4	15	4	ADSL/POTS	J101 WH	20	20
drop-1-15-5	15	5	ADSL/POTS	J101 WH	21	21
drop-1-15-6	15	6	ADSL/POTS	J101 WH	22	22
drop-1-15-7	15	7	ADSL/POTS	J101 WH	23	23
drop-1-15-8	15	8	ADSL/POTS	J101 WH	24	24
				J101 WH	25	25 dead

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
				J102 WH	1	26 dead
drop-1-1-9	1	9	POTS	J102 WH	2	27
drop-1-1-10	1	10	POTS	J102 WH	3	28
drop-1-1-11	1	11	POTS	J102 WH	4	29
drop-1-1-12	1	12	POTS	J102 WH	5	30
drop-1-1-13	1	13	POTS	J102 WH	6	31
drop-1-1-14	1	14	POTS	J102 WH	7	32
drop-1-1-15	1	15	POTS	J102 WH	8	33
drop-1-1-16	1	16	POTS	J102 WH	9	34
drop-1-1-17	1	17	POTS	J102 WH	10	35
drop-1-1-18	1	18	POTS	J102 WH	11	36
drop-1-1-19	1	19	POTS	J102 WH	12	37
drop-1-1-20	1	20	POTS	J102 WH	13	38
drop-1-1-21	1	21	POTS	J102 WH	14	39
drop-1-1-22	1	22	POTS	J102 WH	15	40
drop-1-1-23	1	23	POTS	J102 WH	16	41
drop-1-1-24	1	24	POTS	J102 WH	17	42
drop-1-1-25	1	25	POTS	J102 WH	18	43
drop-1-1-26	1	26	POTS	J102 WH	19	44
drop-1-1-27	1	27	POTS	J102 WH	20	45
drop-1-1-28	1	28	POTS	J102 WH	21	46
drop-1-1-29	1	29	POTS	J102 WH	22	47
drop-1-1-30	1	30	POTS	J102 WH	23	48
drop-1-1-31	1	31	POTS	J102 WH	24	49
drop-1-1-32	1	32	POTS	J102 WH	25	50

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
drop-1-2-9	2	9	POTS	J103 WH	1	51
drop-1-2-10	2	10	POTS	J103 WH	2	52
drop-1-2-11	2	11	POTS	J103 WH	3	53
drop-1-2-12	2	12	POTS	J103 WH	4	54
drop-1-2-13	2	13	POTS	J103 WH	5	55
drop-1-2-14	2	14	POTS	J103 WH	6	56
drop-1-2-15	2	15	POTS	J103 WH	7	57
drop-1-2-16	2	16	POTS	J103 WH	8	58
drop-1-2-17	2	17	POTS	J103 WH	9	59
drop-1-2-18	2	18	POTS	J103 WH	10	60
drop-1-2-19	2	19	POTS	J103 WH	11	61
drop-1-2-20	2	20	POTS	J103 WH	12	62
drop-1-2-21	2	21	POTS	J103 WH	13	63
drop-1-2-22	2	22	POTS	J103 WH	14	64
drop-1-2-23	2	23	POTS	J103 WH	15	65
drop-1-2-24	2	24	POTS	J103 WH	16	66
drop-1-2-25	2	25	POTS	J103 WH	17	67
drop-1-2-26	2	26	POTS	J103 WH	18	68
drop-1-2-27	2	27	POTS	J103 WH	19	69
drop-1-2-28	2	28	POTS	J103 WH	20	70
drop-1-2-29	2	29	POTS	J103 WH	21	71
drop-1-2-30	2	30	POTS	J103 WH	22	72
drop-1-2-31	2	31	POTS	J103 WH	23	73
drop-1-2-32	2	32	POTS	J103 WH	24	74
				J103 WH	25	75 dead

*Continued on next page*

**Table 4-5. AnyMedia AID to SLC Series 5 Protector Block Mapping (Continued)**

AnyMedia AIDs	AP #	AP Pair #	Service Type	SLC Series 5 710 Connector #	710 Connector Pair #	Pair ID on Block 2
				J104 WH	1	76 dead
drop-1-3-9	3	9	POTS	J104 WH	2	77
drop-1-3-10	3	10	POTS	J104 WH	3	78
drop-1-3-11	3	11	POTS	J104 WH	4	79
drop-1-3-12	3	12	POTS	J104 WH	5	80
drop-1-3-13	3	13	POTS	J104 WH	6	81
drop-1-3-14	3	14	POTS	J104 WH	7	82
drop-1-3-15	3	15	POTS	J104 WH	8	83
drop-1-3-16	3	16	POTS	J104 WH	9	84
drop-1-3-17	3	17	POTS	J104 WH	10	85
drop-1-3-18	3	18	POTS	J104 WH	11	86
drop-1-3-19	3	19	POTS	J104 WH	12	87
drop-1-3-20	3	20	POTS	J104 WH	13	88
drop-1-3-21	3	21	POTS	J104 WH	14	89
drop-1-3-22	3	22	POTS	J104 WH	15	90
drop-1-3-23	3	23	POTS	J104 WH	16	91
drop-1-3-24	3	24	POTS	J104 WH	17	92
drop-1-3-25	3	25	POTS	J104 WH	18	93
drop-1-3-26	3	26	POTS	J104 WH	19	94
drop-1-3-27	3	27	POTS	J104 WH	20	95
drop-1-3-28	3	28	POTS	J104 WH	21	96
drop-1-3-29	3	29	POTS	J104 WH	22	97
drop-1-3-30	3	30	POTS	J104 WH	23	98
drop-1-3-31	3	31	POTS	J104 WH	24	99
drop-1-3-32	3	32	POTS	J104 WH	25	100

## **Additional Cabling**

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### **Additional Cables Required When Using the AFMDS3 Unit**

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The following additional cabling is required when using the AFMDS3 unit:

- Two additional cables per ED7C829-32, G( ) are required to provide the DS3 connection from the *AnyMedia* shelf (AFM unit) to the DDM-2000 or equivalent multiplexer provided for the system. **Cable length, G( ), is site specific and must be ordered separately.**
- If multiple shelves are being installed two ED7C829-31, G1 (5 foot), or G1A (8 foot), or G1B (12 foot) or G1C (20 foot) cables are required to multiple the DS3 connections between AFM units. Two cables per daisy chain connection are required and must be ordered separately.

### **Additional Cables Required When Using the AFMDS1 Unit**

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The AFMDS1 unit requires an ED7C849-30 G10 dangler cable to interface the unit's face plate connector to separate transmit and receive DS1 connectors. This dangler must be connected to spare or additional DSX blocks on the DSX panel using two (one transmit and one receive) ED7C849-30 G11 cables. These 3 cables and any additional DSX blocks must be ordered separately. For additional information see Document 363-211-102, *AnyMedia Installation Manual*.

### **Additional Cables Required When Using the AFMO Unit**

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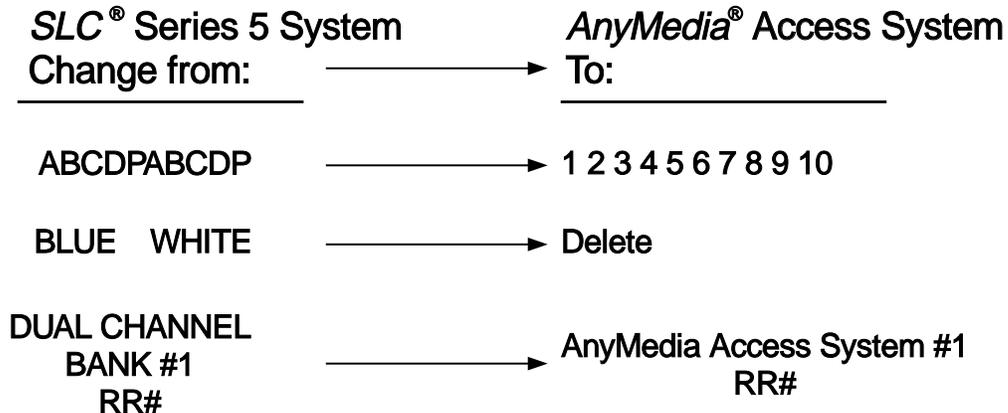
The AFMO unit provides fiber optic port connections which must be connected to OC-3 fiber feeder terminations in the enclosure's fiber tray or other OC-3 interfaces. The AFMO requires two single-mode fiber jumpers equipped with SC connectors. These cables are available in a variety of lengths. A line build out (LBO) unit may also be required on the transmit fiber. See Document 363-211-102, *AnyMedia Installation Manual* for detailed information.

If multiple AFMO units are installed at a location they can be daisy chained using optical cable jumpers and appropriate 15 dB LBOs as described in Document 363-211-102.

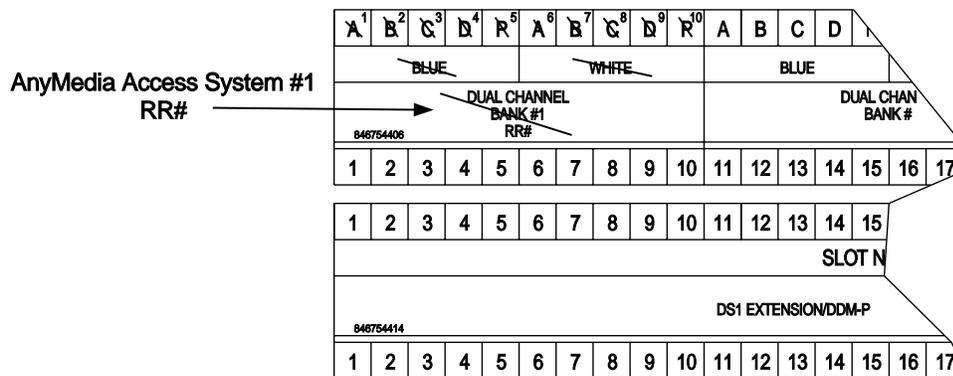
Cables and LBOs for AFMO units must be selected to meet specific application requirements and ordered separately.

## Labeling and Stenciling Changes

On the DSX Panel label, change the *SLC* Series 5 designations to *AnyMedia* Access System designations for the systems being substituted, as shown in the following figure (Figure 4-3).



See Below:



Slc5label11

Figure 4-3. Changes to DSX Labeling for AnyMedia Shelf Located in Position 1

Protector block and derived pair labeling varies by installation and user preferences. It is recommended that the following new labels — Comcode 848601878 (included in the kit) — be used to identify protector blocks that are associated with *AnyMedia* replacements in *SLC* Series 5 bays.

- Label 1 (Figure 4-4) provides information on the mapping of protector pairs to *AnyMedia* AP pairs and should be located adjacent to the applicable protector blocks along with Label 2. Where space is limited, it is suggested that Label 1 be placed on the *AnyMedia* shelf door and Label 3 be used at the Protector block location.

### Label 1

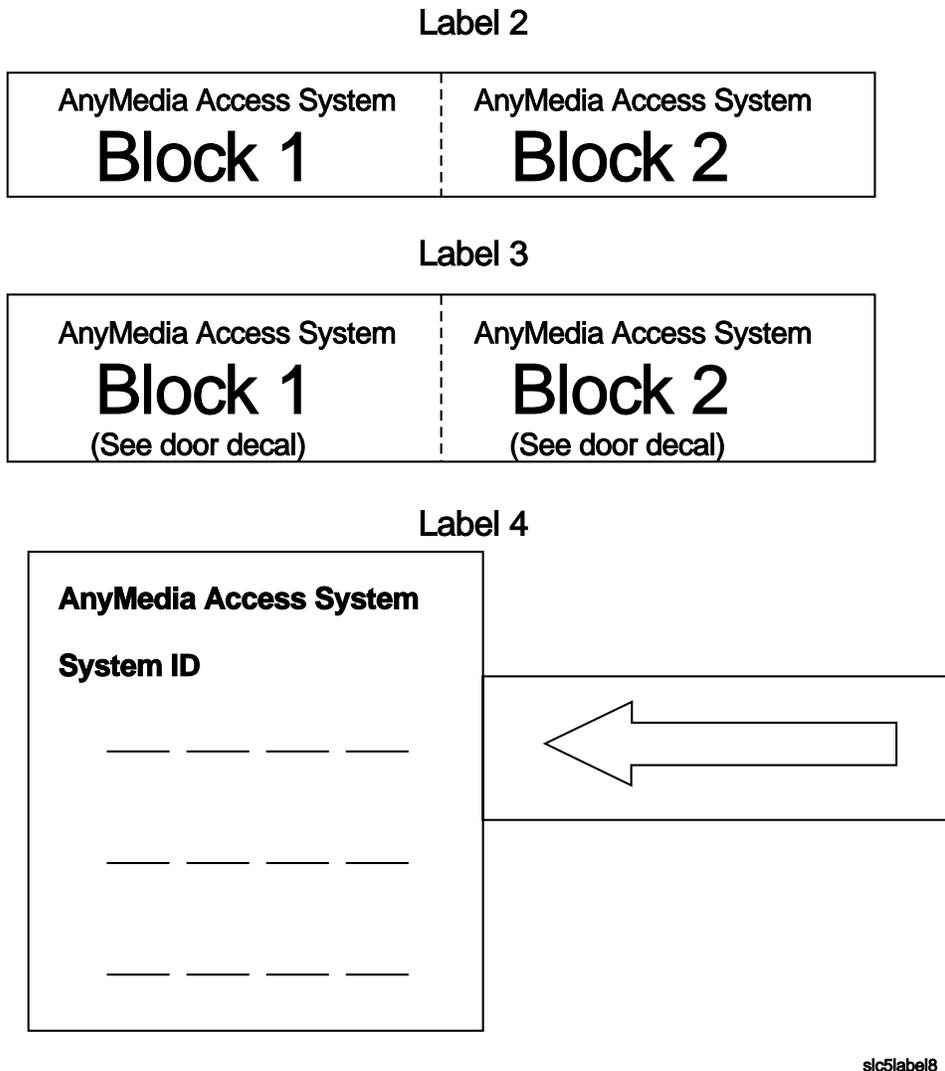
Pair # on Block	SLC Series 5 710 Connector #	710 Connector Pair #	AnyMedia AP #	AP # Cable Pairs #
B1 1-8	J101 BL	1-8	1	1-8
B1 9-16	J101 BL	9-16	2	1-8
B1 17-24	J101 BL	17-24	3	1-8
B1 27-34	J102 BL	2-9	4	1-8
B1 35-42	J102 BL	10-17	5	1-8
B1 43-50	J102 BL	18-25	6	1-8
B1 51-58	J103 BL	1-8	7	1-8
B1 59-66	J103 BL	9-16	8	1-8
B1 67-74	J103 BL	17-24	9	1-8
B1 77-84	J104 BL	2-9	10	1-8
B1 85-92	J104 BL	10-17	11	1-8
B1 93-100	J104 BL	18-25	12	1-8
B1 1-8	J101 WH	1-8	13	1-8
B1 9-16	J101 WH	9-16	14	1-8
B1 17-24	J101 WH	17-24	15	1-8
B1 27-50	J102 WH	2-25	1	9-32
B1 51-74	J103 WH	1-24	2	9-32
B1 77-100	J104 WH	2-25	3	9-32

Note: B1 and B2 refer to the 100 pair protector block panels. B1 is associated with the blue system of the original (removed) *SLC*® Series 5 Carrier System dual channel bank and B2 is associated with the white system. "Pair # on Block" numbers are synonymous with the protector numbers and the cable pair count of the 100 pair cables going to and from the protector blocks. Note that protectors and cable pairs 24, 25, 75, and 76 are not used on either block and are designated as spares.

slc5label7

Figure 4-4. Label 1 — AnyMedia System Protector Wiring

- Label 2 identifies the specific protector block groups that are associated with the system. (Label 3 is intended primarily for cabinets, except as previously discussed.) Label 4 identifies the *AnyMedia* System number and can be annotated to specify derived pair and cable information for the system. They should be placed adjacent to the shelf or on the shelf door (see Figure 4-5).



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**Figure 4-5. Labels 2, 3, and 4**

- Re-labeling of alarm and test pair terminations at the appropriate miscellaneous cross-connect panel is recommended to identify those associated with the new *AnyMedia* system (Table 4-6).

**Table 4-6. Alarm and Test Pair Terminations**

<b>SLC® Series 5 Alarms</b>	<b>AnyMedia® Access System Alarm</b>	<b>Access Identifiers (AIDs)</b>
PMN	TLM2 PMN	mc-1-2
PSMN	TLM1 PSMN	mc-1-1
RGMN	TLM1 RGMN	mc-1-1
AUG-11 Fuse	TLM1 AUG-11 Fuse	mc-1-1
MISC-1 BL	TLM3*	mc-1-3
MISC-2 BL	TLM4*	mc-1-4
MISC-1 WH	TLM5*	mc-1-5
MISC-2 WH	TLM6*	mc-1-6

**Note:** The *AnyMedia* fan alarm is also presented as TLM1.

\* These four alarms should be labeled to match the alarm function for which they are being used (four Miscellaneous inputs).



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# Central Office Terminal Banks and Bays

# 5

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# Central Office Terminal Banks and Bays

# 5

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## Overview

This chapter provides the engineering guidelines to replace existing factory-assembled *SLC*<sup>®</sup> Series 5 Carrier System central office terminal (COT) bays equipped with flush mounted, rear access J1C182AD-1 *SLC* Series 5 dual channel banks (DCBs) with an *AnyMedia*<sup>®</sup> Access System in the following bays:

- 11 ft. 6 in. bays per J1C182D-1 L1 to L10
  - L1, L3, L6, L8 bays are equipped with 6 DCBs
  - L2, L4, L7, L9 bays are equipped with 5 DCBs, and optional Fault Locate and Order Wire (FLOW) panels
  - L5 and L10 bays are wired for 5 DCBs but initially equipped with only one and also provide for optional FLOW.
- 9 ft. bays per J1C182E-1 L1 to L6 (L1 to L6 bays are arranged for 4 DCBs and provide for optional FLOW)
- 7 ft. bays per J1C182F-1 L1 to L9 (L1 to L9 bays are arranged for 3 DCBs and provide for optional FLOW).

## Objective

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The objective of these guidelines is to replace two DCBs with an equivalent capability *AnyMedia* Access System COT *FAST*<sup>™</sup> Shelf (J1C282AC-1 L1 plus 1A alarm test unit — 1A ATU). The *FAST* shelf supports up to 384 lines, equivalent to two DCBs, plus one optional, 96-line MDS2 shelf (J1C286AA-1 L3). In two situations, 7' and 11'6" bays, with FLOW, it is possible to replace a single DCB and the FLOW equipment below it with an equivalent capability *AnyMedia* COT *FAST* shelf. In this case the *FAST* shelf will support up to 192 lines — equivalent to one DCB — plus an optional 96 line MDS2 shelf. The *FAST* shelf is intended to terminate DS1 facilities from *AnyMedia* Remote Terminals (RTs) operating in TR-08\* Mode 1 or INA virtual banks (VBs). Working DCBs are not intended to be replaced.

## Assumptions

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These guidelines are based on the following assumptions:

- A minimum of two, contiguously mounted, DCBs are either not in service or not installed in the bay (herein identified as "Lower DCB" and "Upper DCB").
- In 7 ft. and 11 ft. 6 in. bays equipped with FLOW, it may be possible to replace one DCB and the adjacent FLOW equipment. In this configuration, the single DCB is identified as the "Lower DCB". Replacement of this arrangement is recommended only if all DCBs in the bay are being replaced or if the FLOW is no longer in use, because it will be removed.
- All customer cabling for the target DCBs is installed per the *SLC* Series 5 Application Schematic, SD-7C116-02.
- FLOW capability is not used with the *AnyMedia* COT and must be physically removed in some situations.
- Each *FAST* shelf supports up to 384 lines (192 lines if only one DCB and FLOW is being replaced).
- Each *FAST* is configured for up to 20 DS1 facilities (10 DS1 facilities if only one DCB is being replaced).
- A standard *AnyMedia* COT, 6A fan unit, ATU and optional MDS2 is implemented in a specific equipment layout configuration.
- Each *FAST* shelf in a bay can be associated with an optional MDS2 shelf. Special considerations for this option are covered later in these guidelines.
- The J1C282AC-1 L1 *FAST* shelf equipped with the direct power fuse circuit module (FCM) and 6A Fan Unit is used. Mesh grounding is used.

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\* TR-NWT-008, "Digital Interface Between the *SLC*-96 Digital Loop Carrier System and a Local Digital Switch," Issue 2 (Telcordia Technologies, Inc., August, 1987) plus Revision 1, September 1993

## Limitations and Considerations

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### Installing an AnyMedia FAST Shelf Only

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Observe the following limitations and considerations when using these guidelines when installing an *AnyMedia FAST* shelf only:

- Any working DCBs that remain in the bay remain in operation and are not affected by the *FAST* shelf installation.
- Most existing *SLC* Series 5 system baffles are left in the bay and can be used in association with MDS2 installation.
- Each *FAST* shelf requires a minimum of 34 inches of bay space. This is equivalent to the space occupied by two DCBs or one DCB, plus the space reserved for the FLOW. The 34-inch space allows for an optional MDS2.
- In the 7 ft. and 11 ft. 6 in. bays, it is necessary to remove all existing FLOW facilities to place the maximum number of *FAST* shelves.
- Each *FAST* shelf replaces two DCBs (identified as Upper and Lower) except in the 7 ft. and the 11 ft. 6 in. bays containing FLOW equipment. In these bays, the single DCB (identified as Lower) above the FLOW is replaced with a *FAST* shelf that provides only 192 lines of capacity. The FLOW is also displaced.
  - Note that it is possible to double the capacity of the 192 line *FAST* shelf by installing new customer voice frequency (VF) cables to application pack (AP) positions 7-12.
  - Because 384 lines require a minimum of 16 DS1s, it is also necessary that new cabling for additional DS1 facilities be provided via the adapter cable connectors (J105BL, J105WH, J106BL and J106WH) normally associated with an Upper DCB. A minimum of 6 DS1s are required in addition to the 10 previously associated with the displaced Lower DCB. This constitutes a custom installation and is not be addressed by these guidelines.
- The *FAST* shelf supports up to 384 lines, based on the VF cabling capacity of the two replaced DCBs. Support of 384 lines requires a minimum of 16 DS1 feeders. Cabling supports up to 20 DS1 Feeders.
- If only one DCB is replaced, the VF cabling is limited to 192 lines, requiring a minimum of 8 DS1s.
- In any application configured with less than 16 DS1s — while all 12 AP slots may be physically equipped — AP channel assignments must be reduced to the available number of timeslots (24 per DS1).
- Each of the up to 20 possible DS1s can be individually assigned to up to 20 independent TR-08 or integrated network access (INA) virtual banks (VBs).
- Additional customer wiring is required to support the *FAST* shelves when using local area network (LAN) and DC Test Pairs and Telemetry.

- The DC test pair capability of the ATU is limited to eight *AnyMedia* remote terminal (RT) sites. With 20 DS1s per *FAST* shelf, these sites may be equipped with a combined total of up to 20 virtual remote terminals (VRTs).
- No multiples of alarms or any other capability interconnecting *FAST* shelves are provided.
- Bays can be equipped as follows:
  - **J1C182D L1**: 11 ft. 6 in. bay, replace up to 6 DCBs with three *FAST* shelves
  - **J1C182D L2**: 11 ft. 6 in. bay, replace up to 5 DCBs with three *FAST* shelves
  - **J1C182E**: 9-foot bay, replace up to 4 DCBs with two *FAST* shelves
  - **J1C182F**: 7-foot bay, replace up to 3 DCBs with two *FAST* shelves
- For the following items, see Figure 5-1 on page 5-31, Figure 5-2 on page 5-32, and/or Figure 5-3 on page 5-33 for recommended configurations:
  - Pairs of DCBs may be replaced in any sequence. However, it is recommended that the DCB paired with the FLOW be changed out last, since this installation also displaces the FLOW.
  - DCB pairs other than those identified in Figure 5-1 on page 5-31, Figure 5-2 on page 5-32, and/or Figure 5-3 on page 5-33 are not recommended as candidates for replacement as such implementations can block future conversion of additional DCBs in the bay.

## **Installing an AnyMedia MDS2 Shelf**

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Observe the following considerations when using these guidelines for installing an *AnyMedia* MDS2 shelf:

- The MDS2 option requires new customer VF cables for up to its maximum capacity of 96 lines.
- If the MDS2 option is implemented, the *FAST* shelf plus the MDS2 is limited to a combined total of 480 lines, based on the 480 DS0 capacity of 20 DS1 feeders.
- If the MDS2 option is implemented in single DCB replacement applications where only 10 DS1s are provided, the *FAST* shelf plus the MDS2 is limited to a combined total of 240 lines.
  - Note that it is possible to double the capacity of the 192-line *FAST* shelf by installing new customer VF cables to AP positions 7-12.
  - To support the additional *FAST* lines plus the 96-line capacity of the MDS2, it is necessary to cable for 10 additional DS1 facilities via the adapter cable connectors (J105BL, J105WH, J106BL and J106WH) associated with the Upper DCB. (This constitutes a custom installation and is not addressed by these guidelines.)
- In any application with less than 20 DS1s, while all 12 AP slots may be physically equipped, AP channel assignments must be reduced to the available number of timeslots (24 per DS1), less any allocated to the MDS2 shelf.
- Each of the up to 20 DS1s can be individually assigned to up to 20 independent TR-08 or integrated network access (INA) VRTs.
- The E&M capability is not normally provided in COT applications, and would require additional customer wiring if implemented.

## Power and Heat

The current drain and power dissipation of the *AnyMedia FAST* shelf in a COT application depends on the type of APs used and the service provided. In a typical all plain old telephone service (POTS) application, the LPA150 unit will be used. However, if service such as direct inward dial (DID) is required the LPA 380 is required. Table 5-1 provides the applicable L1 and L2 power considerations. The L1 load is based on a fully equipped shelf (12 APs and 384 active circuits) with a traffic load of 6 hundred call seconds (CCS). The L2 current drain is based on a worst case; a fully equipped shelf (12 APs and 384 active circuits) with a traffic load of 36 CCS. (The high heat load for the LPA150 results from the fact that this is a current sink unit which dissipates off hook power sourced by the associated switch's line feed.) To assure adequate cooling the *AnyMedia* shelf must always be equipped with a 6A or 6B fan unit

**Table 5-1. AP Power Considerations**

Type of AP Used	L1 Heat Load	L1 Current Drain	L2 Current Drain
LPA150	249 watts	2.8 amps	5.3 amps
LPA380	273 watts	17.1 amps	18.8 amps

⇒ **NOTE:**  
The LPA350 unit is not recommended for use in a COT as it imposes an additional power drain and offers no additional features in COT applications. The LPA380 is preferred.

If an MDS2 shelf is deployed, an additional heat load of up to 61 W (L1) and current drain of up to 4.8 A (L2) is imposed when equipped with *SPQ*<sup>®</sup>443 type channel units. However, no additional cooling, other than the existing baffles, is required in the bay. For additional heat and power drain information see *AnyMedia* Floor Plan Data Sheet 801-450-112-1.

⇒ **NOTE:**  
The combined heat load and power drain for the *FAST* shelf plus MDS2 shelf is comparable (generally lower) than the DCBs for which the bay was engineered.

The J1C182D, E and F bays are provided with three -48V power feeders, each using #6 gauge wire, and equipped with either 30 amp or 25 amp feeder fuses at the central office (CO) power distribution bay. These feeders will be reused to power the *FAST* shelves.

The fuses located on the *SLC* Series 5 baffles are not reused by the *FAST* shelf.

## Cables and Cabling

### Reuse of Existing Bay and Customer Cables

The *FAST* shelf reuses all existing bay and customer cabling for VF, DS1, PGTC, Ringing/Alarm/Office-Clock, as well as the -48 V DC power feeder cabling associated with the DCBs.

The retrofit requires new customer cabling for the LAN, DC test pairs (TAP) and remote telemetry interfaces to the *AnyMedia* system. Existing remote alarm telemetry, DC test pair and/or extended test controller (XTC) cabling associated with the DCBs, being replaced, will not be reused.

### Adapter Kit

Lucent Technologies has developed an adapter kit (Comcode 848613436) for interfacing the *FAST* shelf to existing bay cables. The kit (Table 5-2) includes all required adapters as well as required inter-unit cables for connecting the *FAST* shelf to the ATU and/or to a MDS2 shelf. The kit **does not** include any new customer cabling required for alarm telemetry, DC test pairs, LAN or VF connections to the MDS2. These cables must be ordered separately as required.

**Table 5-2. Cabling Adapter Kit for COTs and Bays — Comcode 848613436**

Comcode or ED Code	Description	Quantity
ED7C818-32, G7	48 Volt Power	1
ED7C818-32, G20	ATU Power	1
ED7C818-32, G21	ATU Control Link Interface	1
108504994	Ringing Filter Unit	1
848571790	Alarm Adapter	1
848613329	VF Adapter (Packs 1 - 3)	1
848613345	VF Adapter (Packs 4 - 6)	1
848613360	VF Adapter (Packs 7 - 9)	1
848613378	VF Adapter (Packs 10 - 12)	1
848613394	DS1 Adapter Receive (RCV)	1
848613410	DS1 Adapter Transmit (XMT)	1
848613428	Alarm, Clock, and Ringing	1
408546984	Splice, 8-3472-4, 10 - 12 AWG, amp	1
901211177	#12-24 Screws	10

The following sections describe the provided adapter cables.

## Power Adapter Cables

The existing 25/30A power feeders — #6 gauge wire to the DCBs — will be reused. *SLC* Series 5 bays have three feeders (A, B, C) which terminate on various baffle units within a bay. From there, power is distributed to DCBs and other equipment in a bay. When an *AnyMedia* shelf is installed, the existing *SLC* Series 5 power feed connections to the baffle (or baffles) is cut at the baffle and spliced to the (ED7C818-32, G7) A/B power feed cable provided in the kit. The kit includes crimp type splice connectors (comcode 408546984) for this purpose.

The ED7C818-32, G20 ATU power cable connects power from the *FAST* shelf (P11) to the ATU (P114). This cable also connects power to the optional MDS2 shelf.

## Ringling, Clock, and Alarm Adapter Cable

The *AnyMedia* COT uses the existing 20 Hz ringing power, composite clock, and office alarms connections from the *SLC* Series 5 bay. These interfaces appear on the *SLC* Series 5 connector J122. Adapter cable (Comcode 848613428) is provided to connect from J122 to J2 of the *FAST* shelf for 20 Hz ringing power; to J105 to deliver composite clock to the *FAST* shelf; to J601 to deliver composite clock to the optional MDS2 shelf; and to J1A of the ATU to pick up the office alarm indications. Because the *SLC* Series 5 system does not provide for a critical alarm, the critical alarm output from the ATU is combined with the major alarm. This cable should be terminated on J122 associated with the lower DCB being replaced. (Note that *AnyMedia* alarms will not be displayed on the bay alarm indicators located on the Group 6 baffle because the ATU does not support this feature. However, any bay alarms from the remaining *SLC* Series 5 systems will be displayed.) The ATU will display the required alarms associated with the *FAST* shelf.

Composite clock may not always be provided to the existing *SLC* Series 5 bay, but must be provided for the *AnyMedia* shelf. This may necessitate additional cabling and/or cross-connects to the office clock source.

Ringing power (20Hz) may not always be provided to existing *SLC* Series 5 COT bays. If the new *AnyMedia* installation includes an MDS2 shelf, ringing may be required for some services and it should be provided as part of the conversion. The ringing filter unit (RFU), Comcode 108504994, is included with the kit for these applications. It should be installed on the *FAST* shelf for current or future use. It mounts on the rear of the *FAST* shelf and is inserted in the J12/P12 connection path.

### **Alarm Adapter Cable**

The fan alarm (J12) and the fuse circuit module (FCM) alarms (J16) are passed to the *FAST* miscellaneous alarm inputs J111 and can be mapped into appropriate minor and major alarm indications/outputs from the system. This connection is accomplished with a standard *AnyMedia* jumper cable, Comcode 848571790, which is included in the kit. Alarm cable mapping is as follows: Fan to TLM3, Fuse A to TLM1, and Fuse B to TLM2. The recommended *AnyMedia* system mapping is: TLM1 (mc-1-1) and TLM2 (mc-1-2) to Major and TLM3 (mc-1-3) to Minor.

### **ATU Control Link Interface Cable**

The ATU control link interface cable (ED7C818-32, G21) provides the communications link between the ATU control link dangler (P183) and the *FAST* (J109) shelf.

### **PGTC Adapter Cable**

The standard ATU dangler included with the ATU (ED7C723-36 G5) is used to interface to J115 of the existing *SLC* Series 5 PGTC cable. Note that the J115 PGTC multiple connector on the dangler is not used.

### **VF Adapter Cables**

A set of VF adapter cables — Comcodes 848613329 (for AP#1-3), 848613345 (for AP#4-6), 848613360 (for AP#7-9) 848613378 (for AP#10-12) — are provided to connect between the 12 AP positions on the *FAST* shelf and the VF connectors in the *SLC* Series 5 bay. These cables map groups of three APs to the 96 VF main distributing frame (MDF) positions previously assigned to a *SLC* Series 5 Bank. The mapping is shown in Table 5-3, Table 5-4, and Table 5-5. Re-labeling of the associated MDF terminations should be done as needed.

Table 5-3 on page 5-11 illustrates the COT tip/ring (T/R) adapter cable wiring plan. With this configuration the *FAST* shelf can support up to 192 lines from AP slots 1-6 or 384 lines from AP slots 1-12. If two DCBs are being replaced, they are identified as Lower (first 192 lines) and Upper (second 192 lines). This is consistent with bottom to top DCB counting in *SLC* Series 5 Bays. (If only one DCB is being replaced then the wiring for the Lower DCB applies.)

There is no cabling provided to support slots 13-16. Additional T/R cabling for slots 13-15 may be added to increase the system capacity to 480 lines. (These slots may be used to provide MDSU interface units if the MDS2 option is implemented.)

The lines from AP slots 1-3 are wired out sequentially, from 1-96, to the MDF appearances corresponding to the Blue bank of the Lower DCB, via the four AMP connectors for that bank.

The lines from AP slots 4-6 are wired out sequentially from 1-96, to the MDF appearances corresponding to the White bank of the Lower DCB, via the four AMP connectors for that bank. This fully utilizes the *out pair* count that was reserved for the Lower *SLC* Series 5 DCB that is being replaced by the *FAST* shelf.

The lines from AP slots 7-9 are wired out sequentially, from 1-96, to the MDF appearances corresponding to the Blue bank of the Upper DCB, via the four AMP connectors for that bank.

The lines from AP slots 10-12 are wired out sequentially, from 1-96, to the MDF appearances corresponding to the White bank of the Upper DCB, via the four AMP connectors for that bank. This fully utilizes the out pair count that was reserved for the Upper *SLC* Series 5 DCB that is being replaced by the *FAST* shelf.

This wiring plan is optimized for 32-line COT-type APs (LPA150 and LPA380).

Table 5-4 on page 5-12 and Table 5-5 on page 5-20 provide detailed mapping of *AnyMedia* AIDs to *SLC* Series 5 MDF terminations.

Table 5-4 shows the *AnyMedia* AIDs, AP #, associated AP cable pair, Lower *SLC* Series 5 DCB AMP connectors and pair numbers and MDF connections.

Table 5-5 shows the *AnyMedia* AIDs, AP #, associated AP cable pair, Upper *SLC* Series 5 DCB AMP connectors and pair numbers and MDF connections.

**Table 5-3. Cable Mapping**

AP Number	AP Cable Pairs	FAST Circuit Count	SLC <sup>®</sup> Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
			Lower DCB		
1	1-24	1-24	J101BL	1-24	1-24 BL
1	25-32	25-32	J102BL	1-8	25-32 BL
2	1-16	33-48	J102BL	9-24	33-48 BL
2	17-32	49-64	J103BL	1-16	49-64 BL
3	1-8	65-72	J103BL	17-24	65-72 BL
3	9-32	73-96	J104BL	1-24	73-96 BL
4	1-24	97-120	J101WH	1-24	1-24 WH
4	25-32	121-128	J102WH	1-8	25-32 WH
5	1-16	129-144	J102WH	9-24	33-48 WH
5	17-32	145-160	J103WH	1-16	49-64 WH
6	1-8	161-168	J103WH	17-24	65-72 WH
6	9-32	169-192	J104WH	1-24	73-96 WH
			Upper DCB		
7	1-24	193-216	J101BL	1-24	1-24 BL
7	25-32	217-224	J102BL	1-8	25-32 BL
8	1-16	225-240	J102BL	9-24	33-48 BL
8	17-32	241-256	J103BL	1-16	49-64 BL
9	1-8	257-264	J103BL	17-24	65-72 BL
9	9-32	265-288	J104BL	1-24	73-96 BL
10	1-24	289-312	J101WH	1-24	1-24 WH
10	25-32	313-320	J102WH	1-8	25-32 WH
11	1-16	321-336	J102WH	9-24	33-48 WH
11	17-32	337-352	J103WH	1-16	49-64 WH
12	1-8	353-360	J103WH	17-24	65-72 WH
12	9-32	361-384	J104WH	1-24	73-96 WH
13	Unused				
14	Unused				
15	Unused				
16	Unused				

**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced**

AnyMedia <sup>®</sup> AIDs	AP #	AP Pair #	SLC <sup>®</sup> Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-1-1	1	1	J101 BL	1	1
drop-1-1-2	1	2	J101 BL	2	2
drop-1-1-3	1	3	J101 BL	3	3
drop-1-1-4	1	4	J101 BL	4	4
drop-1-1-5	1	5	J101 BL	5	5
drop-1-1-6	1	6	J101 BL	6	6
drop-1-1-7	1	7	J101 BL	7	7
drop-1-1-8	1	8	J101 BL	8	8
drop-1-1-9	1	9	J101 BL	9	9
drop-1-1-10	1	10	J101 BL	10	10
drop-1-1-11	1	11	J101 BL	11	11
drop-1-1-12	1	12	J101 BL	12	12
drop-1-1-13	1	13	J101 BL	13	13
drop-1-1-14	1	14	J101 BL	14	14
drop-1-1-15	1	15	J101 BL	15	15
drop-1-1-16	1	16	J101 BL	16	16
drop-1-1-17	1	17	J101 BL	17	17
drop-1-1-18	1	18	J101 BL	18	18
drop-1-1-19	1	19	J101 BL	19	19
drop-1-1-20	1	20	J101 BL	20	20
drop-1-1-21	1	21	J101 BL	21	21
drop-1-1-22	1	22	J101 BL	22	22
drop-1-1-23	1	23	J101 BL	23	23
drop-1-1-24	1	24	J101 BL	24	24
			J101 BL	25	NC

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**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-1-25	1	25	J102 BL	1	25
drop-1-1-26	1	26	J102 BL	2	26
drop-1-1-27	1	27	J102 BL	3	27
drop-1-1-28	1	28	J102 BL	4	28
drop-1-1-29	1	29	J102 BL	5	29
drop-1-1-30	1	30	J102 BL	6	30
drop-1-1-31	1	31	J102 BL	7	31
drop-1-1-32	1	32	J102 BL	8	32
drop-1-2-1	2	1	J102 BL	9	33
drop-1-2-2	2	2	J102 BL	10	34
drop-1-2-3	2	3	J102 BL	11	35
drop-1-2-4	2	4	J102 BL	12	36
drop-1-2-5	2	5	J102 BL	13	37
drop-1-2-6	2	6	J102 BL	14	38
drop-1-2-7	2	7	J102 BL	15	39
drop-1-2-8	2	8	J102 BL	16	40
drop-1-2-9	2	9	J102 BL	17	41
drop-1-2-10	2	10	J102 BL	18	42
drop-1-2-11	2	11	J102 BL	19	43
drop-1-2-12	2	12	J102 BL	20	44
drop-1-2-13	2	13	J102 BL	21	45
drop-1-2-14	2	14	J102 BL	22	46
drop-1-2-15	2	15	J102 BL	23	47
drop-1-2-16	2	16	J102 BL	24	48
			J102 BL	25	NC

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**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-2-17	2	17	J103 BL	1	49
drop-1-2-18	2	18	J103 BL	2	50
drop-1-2-19	2	19	J103 BL	3	51
drop-1-2-20	2	20	J103 BL	4	52
drop-1-2-21	2	21	J103 BL	5	53
drop-1-2-22	2	22	J103 BL	6	54
drop-1-2-23	2	23	J103 BL	7	55
drop-1-2-24	2	24	J103 BL	8	56
drop-1-2-25	2	25	J103 BL	9	57
drop-1-2-26	2	26	J103 BL	10	58
drop-1-2-27	2	27	J103 BL	11	59
drop-1-2-28	2	28	J103 BL	12	60
drop-1-2-29	2	29	J103 BL	13	61
drop-1-2-30	2	30	J103 BL	14	62
drop-1-2-31	2	31	J103 BL	15	63
drop-1-2-32	2	32	J103 BL	16	64
drop-1-3-1	3	1	J103 BL	17	65
drop-1-3-2	3	2	J103 BL	18	66
drop-1-3-3	3	3	J103 BL	19	67
drop-1-3-4	3	4	J103 BL	20	68
drop-1-3-5	3	5	J103 BL	21	69
drop-1-3-6	3	6	J103 BL	22	70
drop-1-3-7	3	7	J103 BL	23	71
drop-1-3-8	3	8	J103 BL	24	72
			J103 BL	25	NC

*Continued on next page*

**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-3-9	3	9	J104 BL	1	73
drop-1-3-10	3	10	J104 BL	2	74
drop-1-3-11	3	11	J104 BL	3	75
drop-1-3-12	3	12	J104 BL	4	76
drop-1-3-13	3	13	J104 BL	5	77
drop-1-3-14	3	14	J104 BL	6	78
drop-1-3-15	3	15	J104 BL	7	79
drop-1-3-16	3	16	J104 BL	8	80
drop-1-3-17	3	17	J104 BL	9	81
drop-1-3-18	3	18	J104 BL	10	82
drop-1-3-19	3	19	J104 BL	11	83
drop-1-3-20	3	20	J104 BL	12	84
drop-1-3-21	3	21	J104 BL	13	85
drop-1-3-22	3	22	J104 BL	14	86
drop-1-3-23	3	23	J104 BL	15	87
drop-1-3-24	3	24	J104 BL	16	88
drop-1-3-25	3	25	J104 BL	17	89
drop-1-3-26	3	26	J104 BL	18	90
drop-1-3-27	3	27	J104 BL	19	91
drop-1-3-28	3	28	J104 BL	20	92
drop-1-3-29	3	29	J104 BL	21	93
drop-1-3-30	3	30	J104 BL	22	94
drop-1-3-31	3	31	J104 BL	23	95
drop-1-3-32	3	32	J104 BL	24	96
			J104 BL	25	NC

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**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-4-1	4	1	J101 WH	1	1
drop-1-4-2	4	2	J101 WH	2	2
drop-1-4-3	4	3	J101 WH	3	3
drop-1-4-4	4	4	J101 WH	4	4
drop-1-4-5	4	5	J101 WH	5	5
drop-1-4-6	4	6	J101 WH	6	6
drop-1-4-7	4	7	J101 WH	7	7
drop-1-4-8	4	8	J101 WH	8	8
drop-1-4-9	4	9	J101 WH	9	9
drop-1-4-10	4	10	J101 WH	10	10
drop-1-4-11	4	11	J101 WH	11	11
drop-1-4-12	4	12	J101 WH	12	12
drop-1-4-13	4	13	J101 WH	13	13
drop-1-4-14	4	14	J101 WH	14	14
drop-1-4-15	4	15	J101 WH	15	15
drop-1-4-16	4	16	J101 WH	16	16
drop-1-4-17	4	17	J101 WH	17	17
drop-1-4-18	4	18	J101 WH	18	18
drop-1-4-19	4	19	J101 WH	19	19
drop-1-4-20	4	20	J101 WH	20	20
drop-1-4-21	4	21	J101 WH	21	21
drop-1-4-22	4	22	J101 WH	22	22
drop-1-4-23	4	23	J101 WH	23	23
drop-1-4-24	4	24	J101 WH	24	24
			J101 WH	25	NC

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**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-4-25	4	25	J102 WH	1	25
drop-1-4-26	4	26	J102 WH	2	26
drop-1-4-27	4	27	J102 WH	3	27
drop-1-4-28	4	28	J102 WH	4	28
drop-1-4-29	4	29	J102 WH	5	29
drop-1-4-30	4	30	J102 WH	6	30
drop-1-4-31	4	31	J102 WH	7	31
drop-1-4-32	4	32	J102 WH	8	32
drop-1-5-1	5	1	J102 WH	9	33
drop-1-5-2	5	2	J102 WH	10	34
drop-1-5-3	5	3	J102 WH	11	35
drop-1-5-4	5	4	J102 WH	12	36
drop-1-5-5	5	5	J102 WH	13	37
drop-1-5-6	5	6	J102 WH	14	38
drop-1-5-7	5	7	J102 WH	15	39
drop-1-5-8	5	8	J102 WH	16	40
drop-1-5-9	5	9	J102 WH	17	41
drop-1-5-10	5	10	J102 WH	18	42
drop-1-5-11	5	11	J102 WH	19	43
drop-1-5-12	5	12	J102 WH	20	44
drop-1-5-13	5	13	J102 WH	21	45
drop-1-5-14	5	14	J102 WH	22	46
drop-1-5-15	5	15	J102 WH	23	47
drop-1-5-16	5	16	J102 WH	24	48
			J102 WH	25	NC

*Continued on next page*

**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

<b>AnyMedia AIDs</b>	<b>AP #</b>	<b>AP Pair #</b>	<b>SLC Series 5 AMP Connector #</b>	<b>AMP Connector Pair #</b>	<b>Pair ID on MDF</b>
drop-1-5-17	5	17	J103 WH	1	49
drop-1-5-18	5	18	J103 WH	2	50
drop-1-5-19	5	19	J103 WH	3	51
drop-1-5-20	5	20	J103 WH	4	52
drop-1-5-21	5	21	J103 WH	5	53
drop-1-5-22	5	22	J103 WH	6	54
drop-1-5-23	5	23	J103 WH	7	55
drop-1-5-24	5	24	J103 WH	8	56
drop-1-5-25	5	25	J103 WH	9	57
drop-1-5-26	5	26	J103 WH	10	58
drop-1-5-27	5	27	J103 WH	11	59
drop-1-5-28	5	28	J103 WH	12	60
drop-1-5-29	5	29	J103 WH	13	61
drop-1-5-30	5	30	J103 WH	14	62
drop-1-5-31	5	31	J103 WH	15	63
drop-1-5-32	5	32	J103 WH	16	64
drop-1-6-1	6	1	J103 WH	17	65
drop-1-6-2	6	2	J103 WH	18	66
drop-1-6-3	6	3	J103 WH	19	67
drop-1-6-4	6	4	J103 WH	20	68
drop-1-6-5	6	5	J103 WH	21	69
drop-1-6-6	6	6	J103 WH	22	70
drop-1-6-7	6	7	J103 WH	23	71
drop-1-6-8	6	8	J103 WH	24	72
			J103 WH	25	NC

*Continued on next page*

**Table 5-4. Mapping of First 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Lower DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-6-9	6	9	J104 WH	1	73
drop-1-6-10	6	10	J104 WH	2	74
drop-1-6-11	6	11	J104 WH	3	75
drop-1-6-12	6	12	J104 WH	4	76
drop-1-6-13	6	13	J104 WH	5	77
drop-1-6-14	6	14	J104 WH	6	78
drop-1-6-15	6	15	J104 WH	7	79
drop-1-6-16	6	16	J104 WH	8	80
drop-1-6-17	6	17	J104 WH	9	81
drop-1-6-18	6	18	J104 WH	10	82
drop-1-6-19	6	19	J104 WH	11	83
drop-1-6-20	6	20	J104 WH	12	84
drop-1-6-21	6	21	J104 WH	13	85
drop-1-6-22	6	22	J104 WH	14	86
drop-1-6-23	6	23	J104 WH	15	87
drop-1-6-24	6	24	J104 WH	16	88
drop-1-6-25	6	25	J104 WH	17	89
drop-1-6-26	6	26	J104 WH	18	90
drop-1-6-27	6	27	J104 WH	19	91
drop-1-6-28	6	28	J104 WH	20	92
drop-1-6-29	6	29	J104 WH	21	93
drop-1-6-30	6	30	J104 WH	22	94
drop-1-6-31	6	31	J104 WH	23	95
drop-1-6-32	6	32	J104 WH	24	96
			J104 WH	25	NC

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced**

<b>AnyMedia AIDs</b>	<b>AP #</b>	<b>AP Pair #</b>	<b>SLC Series 5 AMP Connector #</b>	<b>AMP Connector Pair #</b>	<b>Pair ID on MDF</b>
drop-1-7-1	7	1	J101 BL	1	1
drop-1-7-2	7	2	J101 BL	2	2
drop-1-7-3	7	3	J101 BL	3	3
drop-1-7-4	7	4	J101 BL	4	4
drop-1-7-5	7	5	J101 BL	5	5
drop-1-7-6	7	6	J101 BL	6	6
drop-1-7-7	7	7	J101 BL	7	7
drop-1-7-8	7	8	J101 BL	8	8
drop-1-7-9	7	9	J101 BL	9	9
drop-1-7-10	7	10	J101 BL	10	10
drop-1-7-11	7	11	J101 BL	11	11
drop-1-7-12	7	12	J101 BL	12	12
drop-1-7-13	7	13	J101 BL	13	13
drop-1-7-14	7	14	J101 BL	14	14
drop-1-7-15	7	15	J101 BL	15	15
drop-1-7-16	7	16	J101 BL	16	16
drop-1-7-17	7	17	J101 BL	17	17
drop-1-7-18	7	18	J101 BL	18	18
drop-1-7-19	7	19	J101 BL	19	19
drop-1-7-20	7	20	J101 BL	20	20
drop-1-7-21	7	21	J101 BL	21	21
drop-1-7-22	7	22	J101 BL	22	22
drop-1-7-23	7	23	J101 BL	23	23
drop-1-7-24	7	24	J101 BL	24	24
			J101 BL	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-7-25	7	25	J102 BL	1	25
drop-1-7-26	7	26	J102 BL	2	26
drop-1-7-27	7	27	J102 BL	3	27
drop-1-7-28	7	28	J102 BL	4	28
drop-1-7-29	7	29	J102 BL	5	29
drop-1-7-30	7	30	J102 BL	6	30
drop-1-7-31	7	31	J102 BL	7	31
drop-1-7-32	7	32	J102 BL	8	32
drop-1-8-1	8	1	J102 BL	9	33
drop-1-8-2	8	2	J102 BL	10	34
drop-1-8-3	8	3	J102 BL	11	35
drop-1-8-4	8	4	J102 BL	12	36
drop-1-8-5	8	5	J102 BL	13	37
drop-1-8-6	8	6	J102 BL	14	38
drop-1-8-7	8	7	J102 BL	15	39
drop-1-8-8	8	8	J102 BL	16	40
drop-1-8-9	8	9	J102 BL	17	41
drop-1-8-10	8	10	J102 BL	18	42
drop-1-8-11	8	11	J102 BL	19	43
drop-1-8-12	8	12	J102 BL	20	44
drop-1-8-13	8	13	J102 BL	21	45
drop-1-8-14	8	14	J102 BL	22	46
drop-1-8-15	8	15	J102 BL	23	47
drop-1-8-16	8	16	J102 BL	24	48
			J102 BL	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-8-17	8	17	J103 BL	1	49
drop-1-8-18	8	18	J103 BL	2	50
drop-1-8-19	8	19	J103 BL	3	51
drop-1-8-20	8	20	J103 BL	4	52
drop-1-8-21	8	21	J103 BL	5	53
drop-1-8-22	8	22	J103 BL	6	54
drop-1-8-23	8	23	J103 BL	7	55
drop-1-8-24	8	24	J103 BL	8	56
drop-1-8-25	8	25	J103 BL	9	57
drop-1-8-26	8	26	J103 BL	10	58
drop-1-8-27	8	27	J103 BL	11	59
drop-1-8-28	8	28	J103 BL	12	60
drop-1-8-29	8	29	J103 BL	13	61
drop-1-8-30	8	30	J103 BL	14	62
drop-1-8-31	8	31	J103 BL	15	63
drop-1-8-32	8	32	J103 BL	16	64
drop-1-9-1	9	1	J103 BL	17	65
drop-1-9-2	9	2	J103 BL	18	66
drop-1-9-3	9	3	J103 BL	19	67
drop-1-9-4	9	4	J103 BL	20	68
drop-1-9-5	9	5	J103 BL	21	69
drop-1-9-6	9	6	J103 BL	22	70
drop-1-9-7	9	7	J103 BL	23	71
drop-1-9-8	9	8	J103 BL	24	72
			J103 BL	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-9-9	9	9	J104 BL	1	73
drop-1-9-10	9	10	J104 BL	2	74
drop-1-9-11	9	11	J104 BL	3	75
drop-1-9-12	9	12	J104 BL	4	76
drop-1-9-13	9	13	J104 BL	5	77
drop-1-9-14	9	14	J104 BL	6	78
drop-1-9-15	9	15	J104 BL	7	79
drop-1-9-16	9	16	J104 BL	8	80
drop-1-9-17	9	17	J104 BL	9	81
drop-1-9-18	9	18	J104 BL	10	82
drop-1-9-19	9	19	J104 BL	11	83
drop-1-9-20	9	20	J104 BL	12	84
drop-1-9-21	9	21	J104 BL	13	85
drop-1-9-22	9	22	J104 BL	14	86
drop-1-9-23	9	23	J104 BL	15	87
drop-1-9-24	9	24	J104 BL	16	88
drop-1-9-25	9	25	J104 BL	17	89
drop-1-9-26	9	26	J104 BL	18	90
drop-1-9-27	9	27	J104 BL	19	91
drop-1-9-28	9	28	J104 BL	20	92
drop-1-9-29	9	29	J104 BL	21	93
drop-1-9-30	9	30	J104 BL	22	94
drop-1-9-31	9	31	J104 BL	23	95
drop-1-9-32	9	32	J104 BL	24	96
			J104 BL	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-10-1	10	1	J101 WH	1	1
drop-1-10-2	10	2	J101 WH	2	2
drop-1-10-3	10	3	J101 WH	3	3
drop-1-10-4	10	4	J101 WH	4	4
drop-1-10-5	10	5	J101 WH	5	5
drop-1-10-6	10	6	J101 WH	6	6
drop-1-10-7	10	7	J101 WH	7	7
drop-1-10-8	10	8	J101 WH	8	8
drop-1-10-9	10	9	J101 WH	9	9
drop-1-10-10	10	10	J101 WH	10	10
drop-1-10-11	10	11	J101 WH	11	11
drop-1-10-12	10	12	J101 WH	12	12
drop-1-10-13	10	13	J101 WH	13	13
drop-1-10-14	10	14	J101 WH	14	14
drop-1-10-15	10	15	J101 WH	15	15
drop-1-10-16	10	16	J101 WH	16	16
drop-1-10-17	10	17	J101 WH	17	17
drop-1-10-18	10	18	J101 WH	18	18
drop-1-10-19	10	19	J101 WH	19	19
drop-1-10-20	10	20	J101 WH	20	20
drop-1-10-21	10	21	J101 WH	21	21
drop-1-10-22	10	22	J101 WH	22	22
drop-1-10-23	10	23	J101 WH	23	23
drop-1-10-24	10	24	J101 WH	24	24
			J101 WH	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

<b>AnyMedia AIDs</b>	<b>AP #</b>	<b>AP Pair #</b>	<b>SLC Series 5 AMP Connector #</b>	<b>AMP Connector Pair #</b>	<b>Pair ID on MDF</b>
drop-1-10-25	10	25	J102 WH	1	25
drop-1-10-26	10	26	J102 WH	2	26
drop-1-10-27	10	27	J102 WH	3	27
drop-1-10-28	10	28	J102 WH	4	28
drop-1-10-29	10	29	J102 WH	5	29
drop-1-10-30	10	30	J102 WH	6	30
drop-1-10-31	10	31	J102 WH	7	31
drop-1-10-32	10	32	J102 WH	8	32
drop-1-11-1	11	1	J102 WH	9	33
drop-1-11-2	11	2	J102 WH	10	34
drop-1-11-3	11	3	J102 WH	11	35
drop-1-11-4	11	4	J102 WH	12	36
drop-1-11-5	11	5	J102 WH	13	37
drop-1-11-6	11	6	J102 WH	14	38
drop-1-11-7	11	7	J102 WH	15	39
drop-1-11-8	11	8	J102 WH	16	40
drop-1-11-9	11	9	J102 WH	17	41
drop-1-11-10	11	10	J102 WH	18	42
drop-1-11-11	11	11	J102 WH	19	43
drop-1-11-12	11	12	J102 WH	20	44
drop-1-11-13	11	13	J102 WH	21	45
drop-1-11-14	11	14	J102 WH	22	46
drop-1-11-15	11	15	J102 WH	23	47
drop-1-11-16	11	16	J102 WH	24	48
			J102 WH	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

AnyMedia AIDs	AP #	AP Pair #	SLC Series 5 AMP Connector #	AMP Connector Pair #	Pair ID on MDF
drop-1-11-17	11	17	J103 WH	1	49
drop-1-11-18	11	18	J103 WH	2	50
drop-1-11-19	11	19	J103 WH	3	51
drop-1-11-20	11	20	J103 WH	4	52
drop-1-11-21	11	21	J103 WH	5	53
drop-1-11-22	11	22	J103 WH	6	54
drop-1-11-23	11	23	J103 WH	7	55
drop-1-11-24	11	24	J103 WH	8	56
drop-1-11-25	11	25	J103 WH	9	57
drop-1-11-26	11	26	J103 WH	10	58
drop-1-11-27	11	27	J103 WH	11	59
drop-1-11-28	11	28	J103 WH	12	60
drop-1-11-29	11	29	J103 WH	13	61
drop-1-11-30	11	30	J103 WH	14	62
drop-1-11-31	11	31	J103 WH	15	63
drop-1-11-32	11	32	J103 WH	16	64
drop-1-12-1	12	1	J103 WH	17	65
drop-1-12-2	12	2	J103 WH	18	66
drop-1-12-3	12	3	J103 WH	19	67
drop-1-12-4	12	4	J103 WH	20	68
drop-1-12-5	12	5	J103 WH	21	69
drop-1-12-6	12	6	J103 WH	22	70
drop-1-12-7	12	7	J103 WH	23	71
drop-1-12-8	12	8	J103 WH	24	72
			J103 WH	25	NC

*Continued on next page*

**Table 5-5. Mapping of Second 192 FAST Shelf Lines to the Equivalent 192 Lines Previously Associated with the Upper DCB Being Replaced (Continued)**

<b>AnyMedia AIDs</b>	<b>AP #</b>	<b>AP Pair #</b>	<b>SLC Series 5 AMP Connector #</b>	<b>AMP Connector Pair #</b>	<b>Pair ID on MDF</b>
drop-1-6-9	12	9	J104 WH	1	73
drop-1-6-10	12	10	J104 WH	2	74
drop-1-6-11	12	11	J104 WH	3	75
drop-1-6-12	12	12	J104 WH	4	76
drop-1-6-13	12	13	J104 WH	5	77
drop-1-6-14	12	14	J104 WH	6	78
drop-1-6-15	12	15	J104 WH	7	79
drop-1-6-16	12	16	J104 WH	8	80
drop-1-6-17	12	17	J104 WH	9	81
drop-1-6-18	12	18	J104 WH	10	82
drop-1-6-19	12	19	J104 WH	11	83
drop-1-6-20	12	20	J104 WH	12	84
drop-1-6-21	12	21	J104 WH	13	85
drop-1-6-22	12	22	J104 WH	14	86
drop-1-6-23	12	23	J104 WH	15	87
drop-1-6-24	12	24	J104 WH	16	88
drop-1-6-25	12	25	J104 WH	17	89
drop-1-6-26	12	26	J104 WH	18	90
drop-1-6-27	12	27	J104 WH	19	91
drop-1-6-28	12	28	J104 WH	20	92
drop-1-6-29	12	29	J104 WH	21	93
drop-1-6-30	12	30	J104 WH	22	94
drop-1-6-31	12	31	J104 WH	23	95
drop-1-6-32	12	32	J104 WH	24	96
			J104 WH	25	NC

## DS1 Adapter

The DS1 adapter cable — Comcodes 848613410 (XMT) and 848613394 (RCV) — maps the 20 DS1 TRMT/RCV from the *FAST* shelf (J101, J102, J103 and J104 connectors) to the two groups of 10 DS1s associated with each of the two *SLC* Series 5 DCBs being replaced (only the first 10 DS1s will be mapped if only one DCB is replaced). When two DCBs are being replaced, the first five DS1s (1-5) on the *FAST* shelf will be associated with the DS1 wiring for the Blue Bank of the Lower DCB being replaced and DS1s 6 -10 will be associated with the White Bank of the Lower DCB being replaced. DS1s 11-15 will be associated with the Blue Bank of the second or Upper DCB being replaced and DS1s 15-20 with its White Bank. Table 5-6 summarizes the mapping. The “Labeling and Stenciling Changes” section of this chapter provides suggested re-labeling of the associated DSX panel.

**Table 5-6. DS1 Mapping**

FAST Shelf DS1	Associated DCB	Bank	DS1
1	Lower	Blue	A
2	Lower	Blue	B
3	Lower	Blue	C
4	Lower	Blue	D
5	Lower	Blue	P
6	Lower	White	A
7	Lower	White	B
8	Lower	White	C
9	Lower	White	D
10	Lower	White	P
11	Upper	Blue	A
12	Upper	Blue	B
13	Upper	Blue	C
14	Upper	Blue	D
15	Upper	Blue	P
16	Upper	White	A
17	Upper	White	B
18	Upper	White	C
19	Upper	White	D
20	Upper	White	P

### **Additional Kit Cables**

Also included in the adapter kit is an inter-unit cable required to interface between the *FAST* shelf and ATU. This cable (ED7C818-32, G21) connects J109 on the *FAST* shelf to the ATU through J183.

### **New Customer Cables**

If the LAN capability is to be implemented, a new customer cable must be run to the bay and connected to J107 of the *FAST* shelf. (Use ED7C818-32 G9, 9A, 9B, or 9C as required for each *FAST* shelf.)

If the remote telemetry output from the ATU is required, a new customer cable must be run and connected to ATU connector P113. (Use ED7C723-37 G19, G20, or G21 as required for each ATU.)

To provide test access path (TAP) capability for up to eight RT sites from the *FAST* COT, a new customer cable must be run from the MDF to the P120 connector of the ATU associated with that shelf. Each *FAST* shelf and its associated ATU will require a new cable. Use ED7C723-37, G16, G17, or G18 as required for each ATU.

If 480 T/R pair from the COT are required, new customer cables must be run from the MDF to AP slots 13-15. Use ED7C818-30, G1, G1A, G1B, G1C, or G1D as required for each AP.

### **MDS2 Shelf Cabling**

The kit does not include cabling required to install the optional MDS2 shelf. However, the power connection (J1) and composite clock connection (J601) cabling are provided to the MDS2 shelf.

To provide ringing power, order cable ED7C818-32 G15B and connect it between P2 from the *FAST* FCU to J2 of the MDS2 FCU.

All VF (J101, J102, J103 and J104) and optional E&M (J201, J202) cables to the MDS2 shelf must be new customer cables to the MDF. Use standard ED7C723-37 G4, G5, G6 or G22 as needed and ED7C827-32 G3, 3A, or 3B as needed respectively.

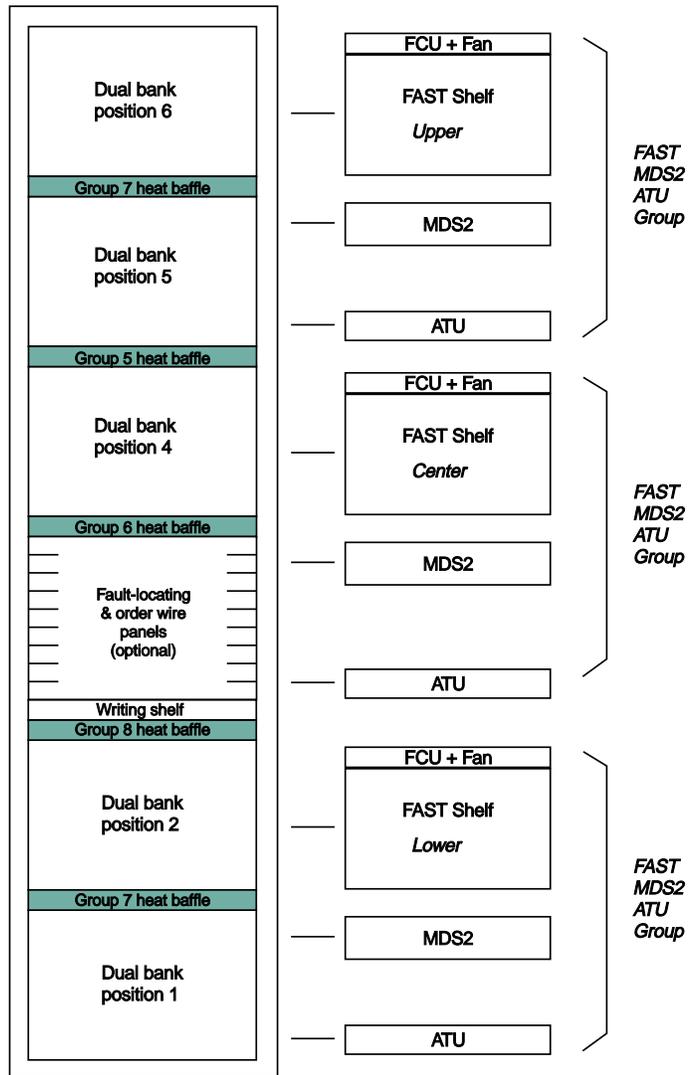
Two cables (ED7C827-30, G2 and G3) pulse code modulation (PCM) extender cables (J401, J402) are also required between the *FAST* shelf (metallic distribution server unit — MDSU) and MDS2 shelf.

## **Recommended Bay Configurations**

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The following figures show the recommended bay configurations:

- **11 ft. 6 in. bays:** Figure 5-1
- **9 ft. bays:** Figure 5-2
- **7 ft. bays:** Figure 5-3.



J1C182D-1 L2 bay

Note: For L2 bays the FLOW is replaced by DCB #3 and the lower two Baffles are G5 and G7 respectively

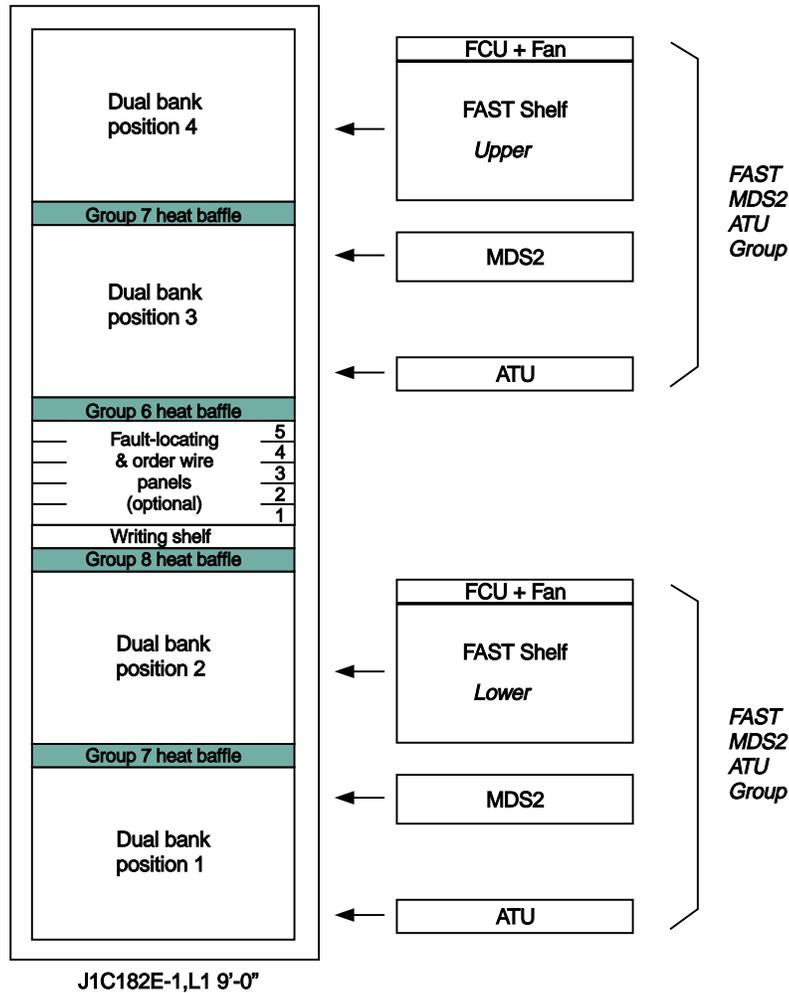
*Upper FAST replaces DCB 5 and 6  
Center FAST replaces DCB 3 and 4  
Lower FAST replaces DCB 1 and 2*



*Retained in Bay*

baycont11

Figure 5-1. Recommended 11 ft. 6 in. Bay Configurations

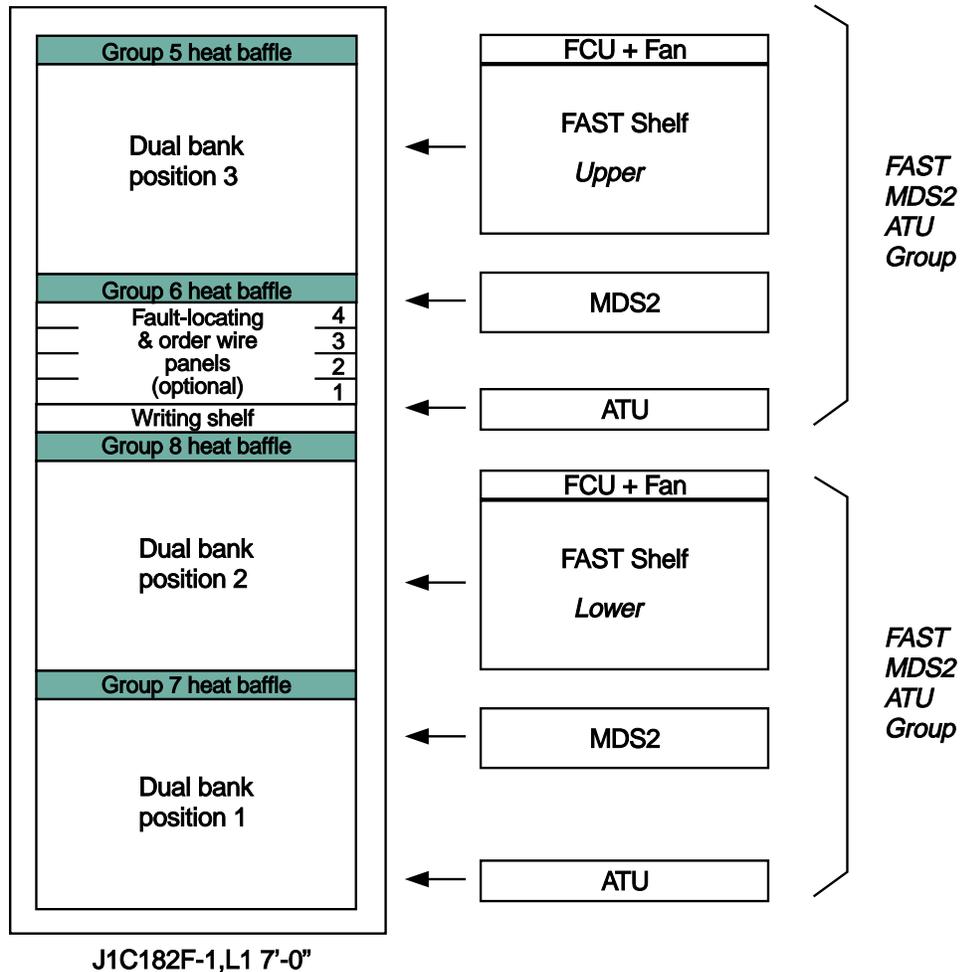


*Lower Shelf Replaces DCB 1 & 2  
Upper FAST Replaces DCB 3 & 4*

  
*Retained in Bay*

baycont9

**Figure 5-2. Recommended 9 ft. Bay Configuration**



*Lower Shelf Replaces DCB 1 & 2  
Upper FAST Replaces DCB 3 (FL&OW panels  
writing shelf must be removed*



*Retained in Bay*

baycont7

**Figure 5-3. Recommended 7 ft. Bay Configuration**



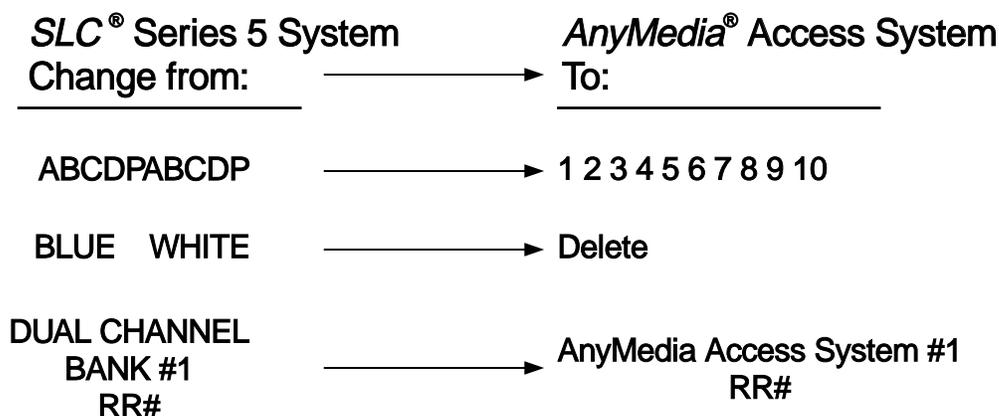
**NOTE:**

The G8 baffle may be removed if DCB 1, 2, and 3 are being replaced. This will make additional room for the ATU and MDS2 associated with the Upper FAST shelf

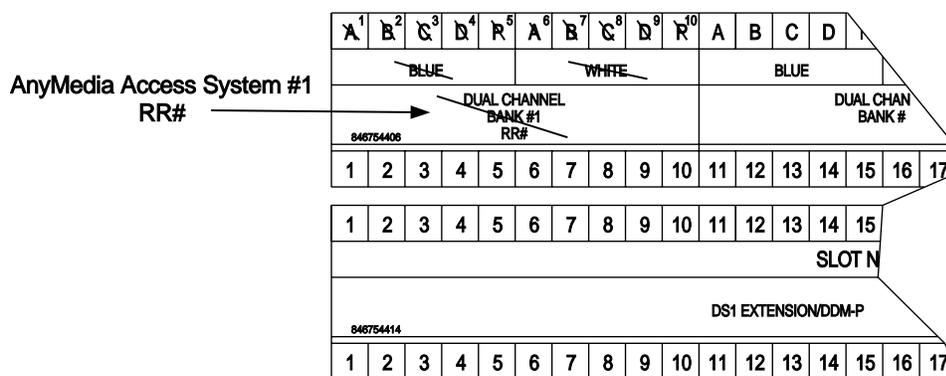
## Labeling and Stenciling Changes

You must make the following labeling and stenciling changes when retrofitting from *SLC* Series 5 digital loop carrier (DLC) equipment to an *AnyMedia* Access System:

1. On the DSX panel decal, change the label from *SLC* Series 5 designations to *AnyMedia* Access System designations for the systems being substituted, as shown in the example below (Figure 5-4).
2. MDF labeling for VF terminations vary by user preferences and should be changed as needed to reflect the replacement of DCBs by systems.



See Below:

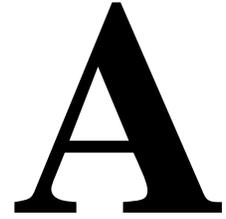


Slc5label11

Figure 5-4. Changes to DSX labeling for an AnyMedia Shelf Located in Position 1

---

# Site Surveys



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## Contents

Overview	<a href="#">A-1</a>
Site Survey Forms	<a href="#">A-1</a>



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# Site Surveys



---

## Overview

This appendix contains site survey forms for different types of retrofit projects.

Lucent Technologies recommends that before you begin retrofitting your existing digital loop carrier (DLC) equipment with *AnyMedia*<sup>®</sup> Access System equipment, you conduct a site survey.

---

## Site Survey Forms

Use one of the following forms to ensure that you have all the information needed to retrofit your existing DLC equipment:

- ***Lucent Technologies 80( ) and 82( ) Type Cabinets Only.*** For these cabinets, use the form beginning with Figure A-1 on page A-2
- ***Non-Lucent Technologies Cabinets Only.*** For non-Lucent Technologies cabinets, use the form beginning with Figure A-2 on page A-35.
- ***Controlled Environment Vaults (CEVs), Huts and Customer Premise Sites.*** For CEVs, huts and customer premise sites, use the form beginning with Figure A-3 on page A-49.

---

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**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

DATE: \_\_\_\_\_ RT # \_\_\_\_\_ CLLI: \_\_\_\_\_

WIRE CENTER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

SITE INSPECTOR: \_\_\_\_\_ Phone/Pager # \_\_\_\_\_

**1. Cabinet Type and Power System**

- 80A-BP (ED-7C711-30)                       80A-HX type
  - CPS-4000
  - J1C182-BD
- 80D-BP (ED-7C716-30)                       80D-HX type
  - RT60
  - CPS-4000
  - Other (specify): \_\_\_\_\_
- 80E-BP (ED-7C703-30)
  - RT60
  - Other (specify): \_\_\_\_\_
- 80G (ED-7C755-30)
  - One CPS-4000
  - Two CPS-4000 shelves
  - Other (specify): \_\_\_\_\_
- 82A (ED-1T298-30)                       Group 10 Heat Exchanger
  - CPS-4000
  - Other (specify): \_\_\_\_\_
- 82D (ED-1T299-30)                       Group 10 Heat Exchanger
  - CPS-4000
  - Other (specify): \_\_\_\_\_
- 82G (ED-1T300-30)                       Group 10 Heat Exchanger
  - CPS-4000
  - Other (specify): \_\_\_\_\_
- Other (specify cabinet type & power system): \_\_\_\_\_

**2. Primary Group Number (marked on inside of cabinet door next to power system)**

- Standard:
- G89
  - G90 or G290
  - G190
  - Other      Identify Group \_\_\_\_\_
- Non-Standard: Fspec # F \_\_\_\_\_  
(List all Fspecs, if more than one)

**3. Serial Number:** \_\_\_\_\_ (2-digit year-OH-#####, example: 99OH01234)

---

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 1

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLI: \_\_\_\_\_

**IF the cabinet is NOT bulk powered, THEN an Adjunct cabinet is required:  
SKIP Items 4 to 11, 13 and 16.**

**4. Bulk Power Configuration**

Number and type of Rectifiers installed:

- CS787B540 (for RT60) qty: \_\_\_\_\_
- ES660 (for CPS-4000) qty: \_\_\_\_\_
- ES660C (for CPS-4000) qty: \_\_\_\_\_
- Other Rectifier types (specify type & qty): \_\_\_\_\_

Identify spare power feeds (fuses or circuit breakers) on the power unit \_\_\_\_\_  
(The fuses or circuit breakers are located on Central Interconnect Panel [CIP] at the top left of side 1 of the cabinet for Lucent Technologies power systems)

**5. Bulk Ringing Configuration**

Number and type of ringing generators:

- 3B1, 3C1 (for RT 60/J1C182BC-1) qty: \_\_\_\_\_
- ES621, ES621B (for CPS-4000) qty: \_\_\_\_\_
- ES620 (for CPS-4000) qty: \_\_\_\_\_
- Other (specify type & qty): \_\_\_\_\_

**6. Batteries**

Number of Battery Strings: \_\_\_\_\_

Type:

Lucent Technologies

- 12IR125 (4 batteries/string)
- 4VR125 (12 batteries/string)

Liberty

- FA12-125 (4 batteries/string)

Chloride

- 3VB11 (8 batteries/string)

PowerSafe

- 6VF11 (4 batteries/string)

Other

Specify Make & Model: \_\_\_\_\_

Are there spare battery cable harnesses and connectors?  Yes  No

How many? \_\_\_\_\_

---

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 2

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLI: \_\_\_\_\_

**7. Fans**

Number and type of fans

4A (for 80D-BP & 80G) qty: \_\_\_\_\_

2B (for 80E-BP) qty: \_\_\_\_\_

Other (specify type & qty): \_\_\_\_\_

Fan Unit present in bay with unequipped bank position?  Yes  No

**8. Number and Type of DLC Systems in the Cabinet**

Physical Banks installed \_\_\_\_\_ Type (e.g. Series 5) \_\_\_\_\_

Banks equipped with circuit packs \_\_\_\_\_ Location(s) (e.g. 4 Upper) \_\_\_\_\_

Banks without circuit packs equipped \_\_\_\_\_ Location(s) \_\_\_\_\_

Vacant Bank positions (NO physical bank) \_\_\_\_\_ Location(s) \_\_\_\_\_

Does any equipment interfere with the use of the identified vacant bank space?

No  Yes If Yes, describe: \_\_\_\_\_

Wiring present for vacant bank mounting positions?

(These cables and associated 710 connectors are normally stored as a bundle behind the mounting flanges for the 22-inch mounting space intended for the uninstalled bank. Use this Check list for *SLC* Series 5 configured cabinets)

Power, ringing, DC test & alarms: J108A-x & J108B-x

DS1 trmt & rcv: P105BL-x, P106BL-x, P105WH-x & P106WH-x

DS0: P101BL-x, P102BL-x, P103BL-x P104BL-x, P101WH-x, P102WH-x, P103WH-x, P104WH-x

For non - *SLC* Series 5 configurations, identify cable and connector designations:

\_\_\_\_\_  
Protector blocks equipped for the vacant bank position.

No  Yes If yes; identify quantity, location, and connector designations:  
\_\_\_\_\_

**9. Type of Connectors Used to Interface the DLC System to Protector Block Cables**

710 (gray/green)

3M

Other (specify): \_\_\_\_\_

**10. Cabinet Sketches**

Draw a detailed sketch of side 1 and side 2 of the cabinet. Identify each piece of equipment installed in the cabinet and its location. This includes identifying the type of digital loop carrier equipment (*SLC* Series 5 Carrier Systems or *SLC*-2000 Access Systems, etc.). Use the attached templates (Sheets 8 through 10) and cabinet drawings (Sheets 11 through 27) as a guide. Identify vacant mounting positions (show locations and rack-height in inches).

---

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 3

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLI: \_\_\_\_\_

**11. Does the Cabinet Meet the Following Basic Criteria for a Simple Replacement/Add?**

- Fiber Mux
- Bulk Power
- Vacant SLC Series 5 Bank Position, 22" of available space with 9" of depth behind the front edge of the bay flange or unequipped Series 5 dual channel bank

***IF ALL of the criteria in Item 11 are checked, THEN skip to Item 16***

**Items 12 through 15 assume that an in-service DLC bank must be changed out or that an adjunct cabinet is needed**

**12. AC Power Configuration**

Cabinet Input Voltage

- 120/240V AC
- Other \_\_\_\_\_

Separate AC Power Pedestal

- No
- Yes. If Yes, specify the following:
  - Bus rating: \_\_\_\_\_ amps
  - Specify quantity, amperage and number of poles of all spare Circuit Breakers (i.e., installed but unwired): \_\_\_\_\_
  - Specify Number of vacant circuit breaker positions (single pole): \_\_\_\_\_

Load Center in Cabinet

- Bus rating: \_\_\_\_\_ amps
- Specify quantity, amperage and no. of poles of all spare Circuit Breakers (e.g., installed but unwired): \_\_\_\_\_
- Specify Number of vacant circuit breaker positions (single pole): \_\_\_\_\_

Convenience Outlets in Cabinet

- Outlet rating:
  - 15 amp, 115V: Quantity Std. \_\_\_\_\_ Quantity GFCI \_\_\_\_\_
  - 20 amp, 115V: Quantity Std. \_\_\_\_\_ Quantity GFCI \_\_\_\_\_
  - Other; specify: \_\_\_\_\_

**13. DLC System Configuration**

For each DLC system in the cabinet, identify all channel units installed using a copy of the attached table (Sheet 28) for each system.

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLI: \_\_\_\_\_

**14. Site Plan Sketch**

Provide a detailed site plan drawing showing the pad, cabinet location, and all other structures and obstacles at the site. Use the attached Template (Sheet 29).

**15. Adjacent 52B Cabinet?**

Identify potential location areas for an adjunct 52B that allow all doors on both cabinets to open to the locked position. All doors need not be open simultaneously. Can a 52B cabinet be located adjacent to the existing cabinet, on its pad? See attached guidelines for 52B placement (Sheet 30).

- Yes: If yes identify where on the Site Plan Drawing
- No

Can a 52B cabinet be located near the existing pad?

- No
- Yes: If yes, identify location on the Site Plan Drawing.

Is there a suitable additional existing pad without a cabinet?  Yes  No

**Additional questions for ALL sites**

**16. Rack-Mount Equipment Differing from Standard Layouts**

Identify any type of rack-mounted equipment that differs from the standard layouts.

- Test Head: Type(s): \_\_\_\_\_
- Built-in FDI \_\_\_\_\_ (typically included with G89)  
Other (specify Make, Model & rack-height in inches): \_\_\_\_\_

Does the depth of any equipment on the opposite side of the cabinet extend into an unequipped bank position? No  Yes

Measure the depth of the vacant bank position. Measure from the back of the equipment on the opposite side of the cabinet to the front edge of the mounting rail for the vacant bank.

Depth (inches): \_\_\_\_\_ (a minimum of 9 inches is needed for the *AnyMedia* shelf)

Identify type of equipment on the opposite side of the cabinet: \_\_\_\_\_

---

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 5

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLL: \_\_\_\_\_

**17. Fiber Feeder Configuration**

Fiber MUX Capacity (OC-3, OC-12?) \_\_\_\_\_

What type of Multiplexer is provided?

Lucent Technologies

- DDM-2000 OC-3 (equipped with OC-3 or OC-12 optics)  
ED \_\_\_\_\_ Group # \_\_\_\_\_
- DDM-2000 OC-12  
ED \_\_\_\_\_ Group # \_\_\_\_\_
- DDM-1000  
ED \_\_\_\_\_ Group # \_\_\_\_\_

Fujitsu

- FLM-150

Other

- Specify Make & Model): \_\_\_\_\_

What muldems are equipped and how: A \_\_\_\_\_ Type of Pack \_\_\_\_\_  
B \_\_\_\_\_ Type of Pack \_\_\_\_\_  
C \_\_\_\_\_ Type of Pack \_\_\_\_\_

What is system capacity: DS3s \_\_\_\_\_ DS1s \_\_\_\_\_

Spare capacity: DS3 \_\_\_\_\_ DS1s \_\_\_\_\_

What type of DS3 connectors are used on the MUX?

- BNC
- Other: \_\_\_\_\_

**18. Spare Fibers and Connectors**

Verify the availability of spare fibers and associated connectors for a possible added MUX, and identify the type of connectors used.

Spare Fibers \_\_\_\_\_ Spare Connectors \_\_\_\_\_

Type:

- ST
- SC
- FC-PC
- Other: \_\_\_\_\_

---

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 6

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLLI: \_\_\_\_\_

**19. DSX-1 Cross-connect Panels**

Type:

- Lucent Technologies 800-/900-series
- Lucent Technologies DIXI-1 (4-ckt blocks)
- Bantam (Lucent Technologies, Telect, ADC, etc.)
- 307/Tie-Block (80E-BP only)
- Other (specify type): \_\_\_\_\_

Are vacant or unequipped bank positions pre-terminated on the DSX?

- Yes
- No

Provide assignments for existing DSX-1 or tie blocks (fill out attached DS1 templates — Sheets 31 and 32). Identify any available unequipped block space.

**20. DSX-3 Cross-Connect Panels**

Is DSX-3 present?

- No
- Yes

If YES, specify type, panel capacity, connector type (e.g., BNC), bay location and equipped positions: \_\_\_\_\_

**21. Does the Site have DS1 Extensions?**

- Yes. Total number of equipped slots: \_\_\_\_\_ Card type(s) \_\_\_\_\_  
Type of Extension Shelf:
  - Lucent DDM-Plus Extension Shelf
  - Lucent DS1 Extension Shelf
  - Wescom T-repeater shelf
  - Other (specify): \_\_\_\_\_
- No.

**22. Are there multiple RT (80/82 type) cabinets at the site?**

- Yes. If so, survey all cabinets. Show locations on site plan sketch.
- No
- Pad without cabinet

**23. Collect Digital Pictures of Each Site**

- The CLLI, Wire Center, and Date. This first image should use 8.5" x 11" piece of paper on a clipboard with information printed using a large black felt tip pin, and it should be a close-up.
- Front view of the cabinet with the doors open (these images should be such that we can count plugs in MUX & see a good view of DSX, or Tie Blocks and all DLC positions in each cabinet bay).
- Rear view of the cabinet with the doors open (these images should be such that we can count plugs etc).
- The splice chamber
- AC power area
- Two images which includes cabinet, and immediate surroundings (Front view and one side view).

---

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 7

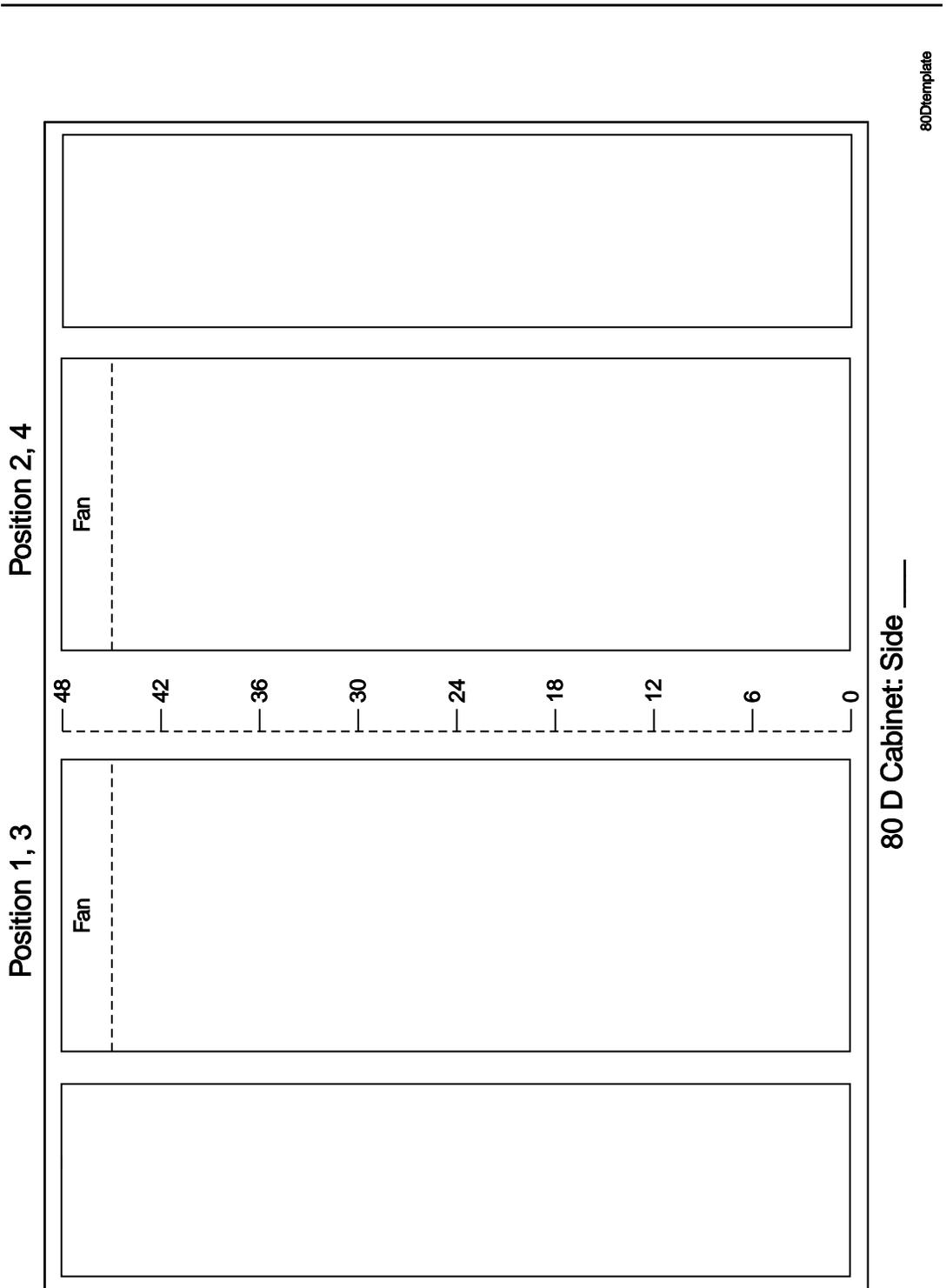


Figure A-1. Lucent Technologies 80()and 82() Type Cabinets Only — Sheet 8

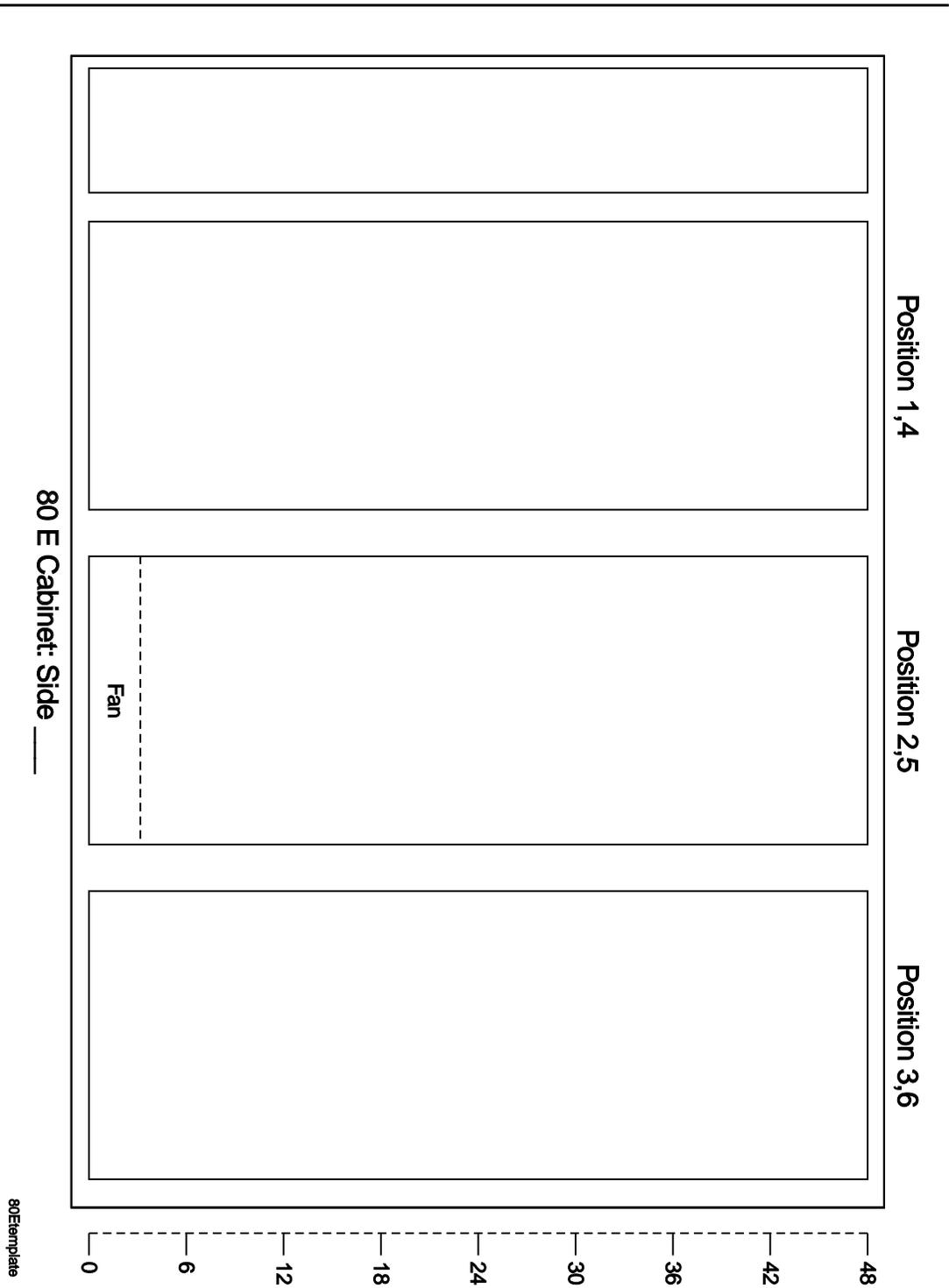


Figure A-1. Lucent Technologies 80()and 82() Type Cabinets Only — Sheet 9

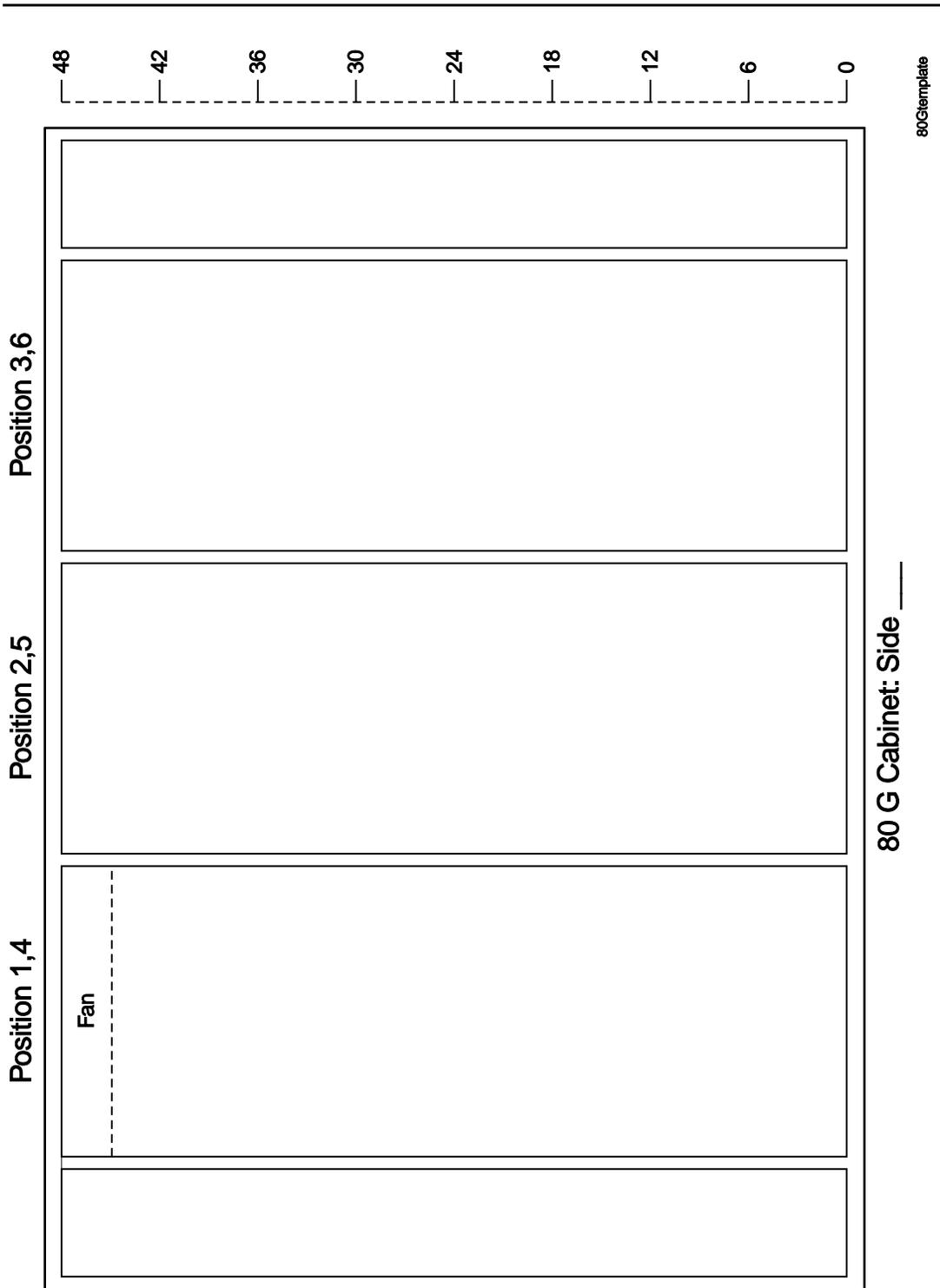
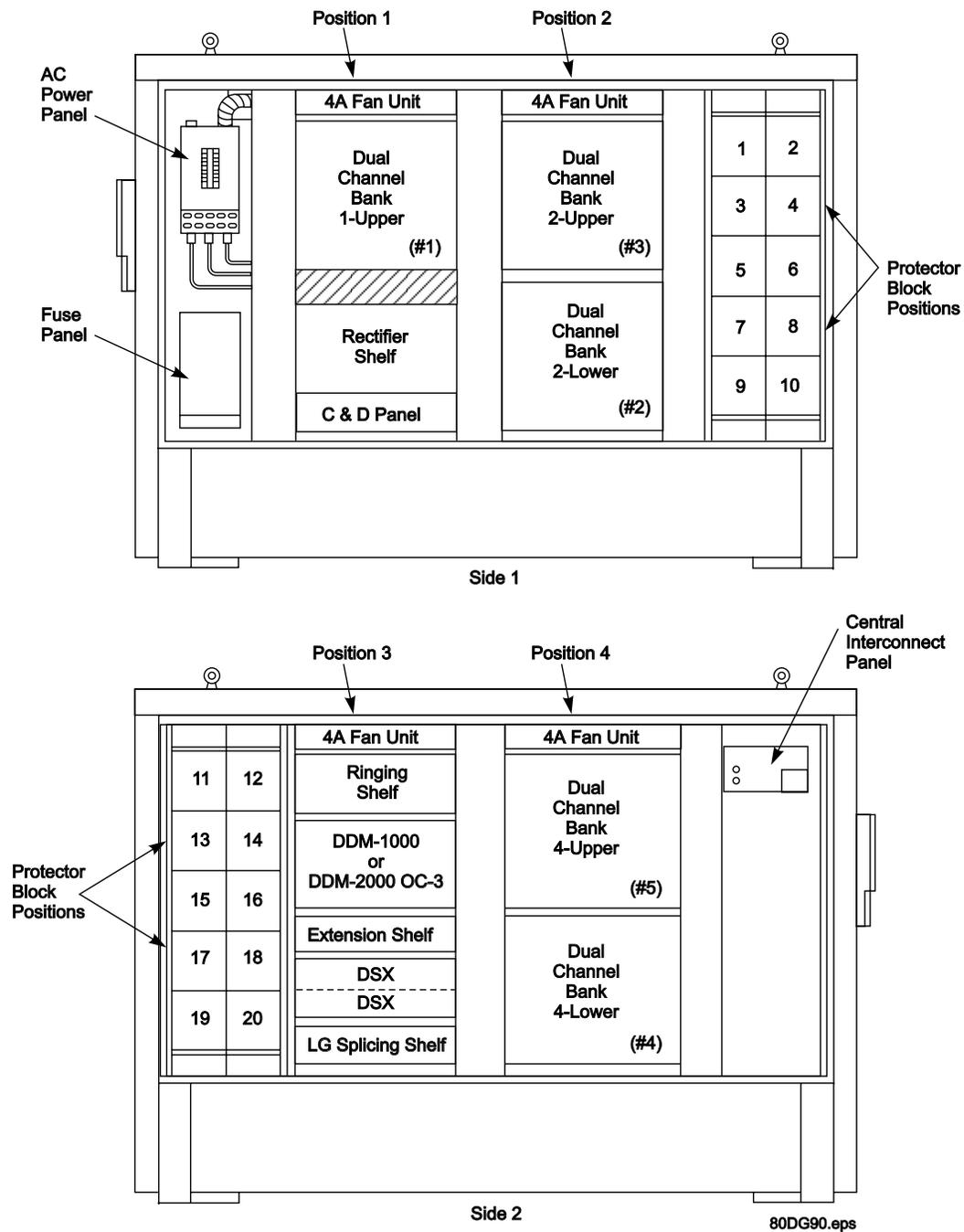
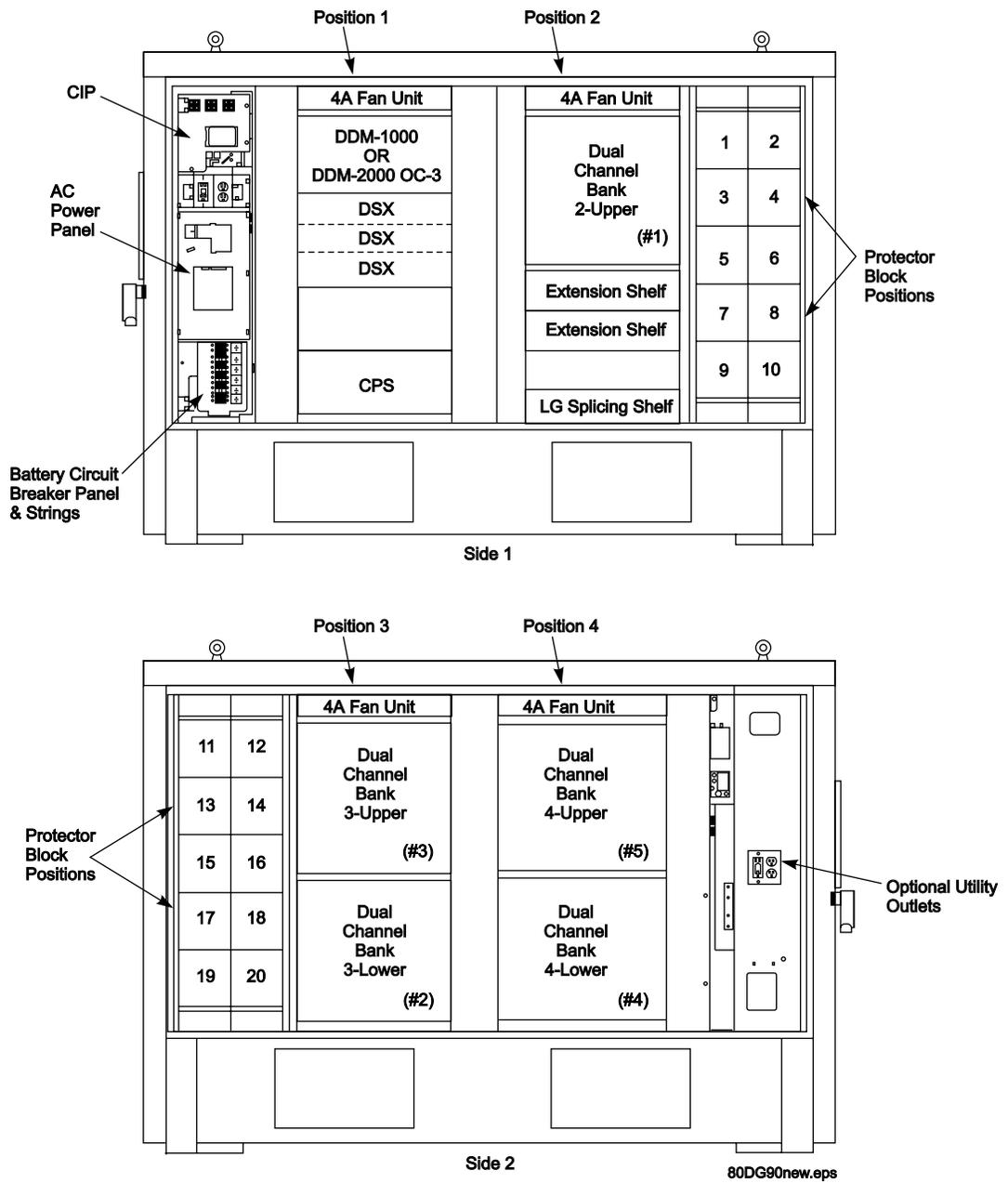


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 10



80D, Group 90 Equipment Configuration

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 11



80D, Group 90 Equipment Configuration - Later Configuration

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 12

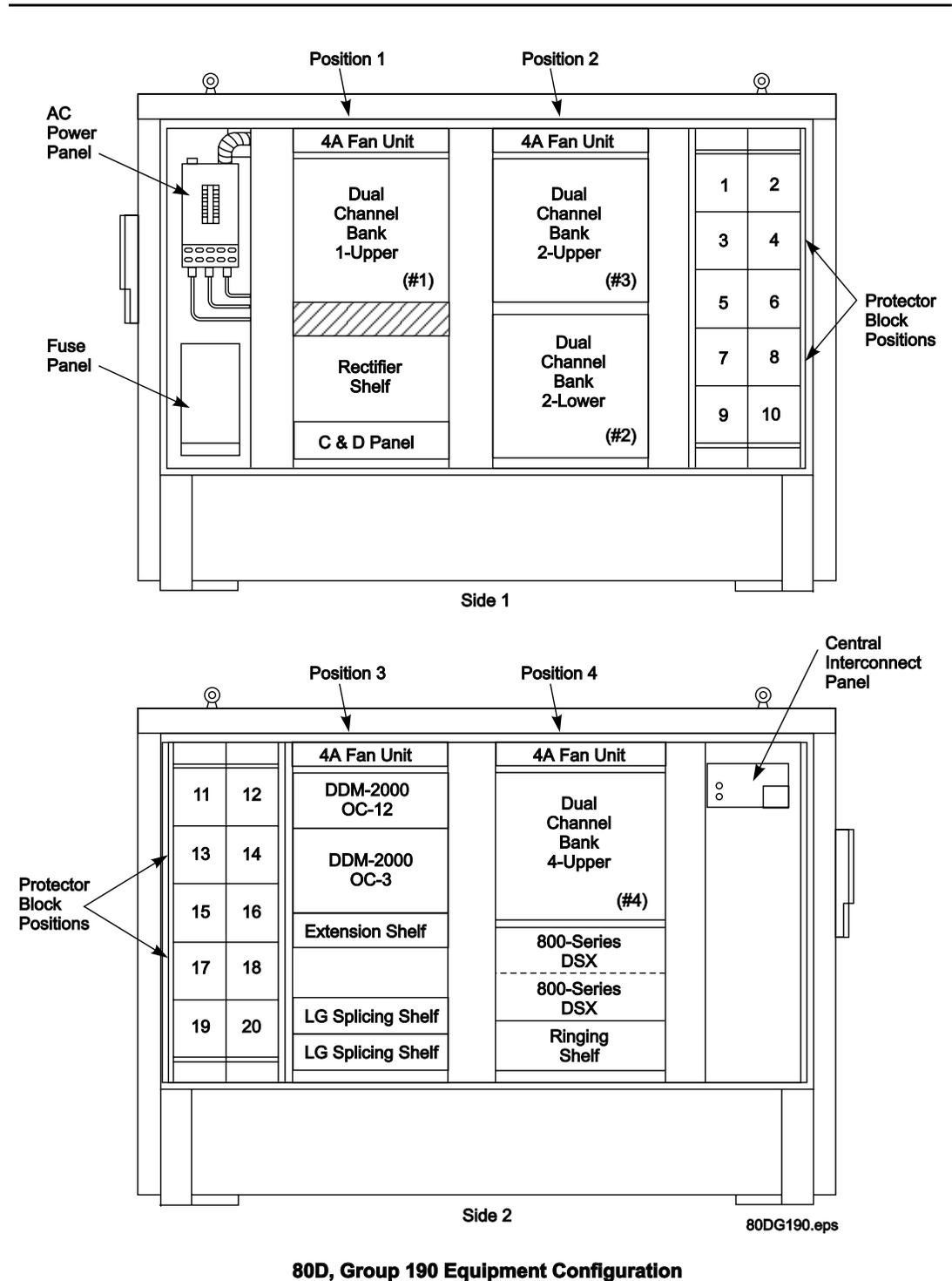
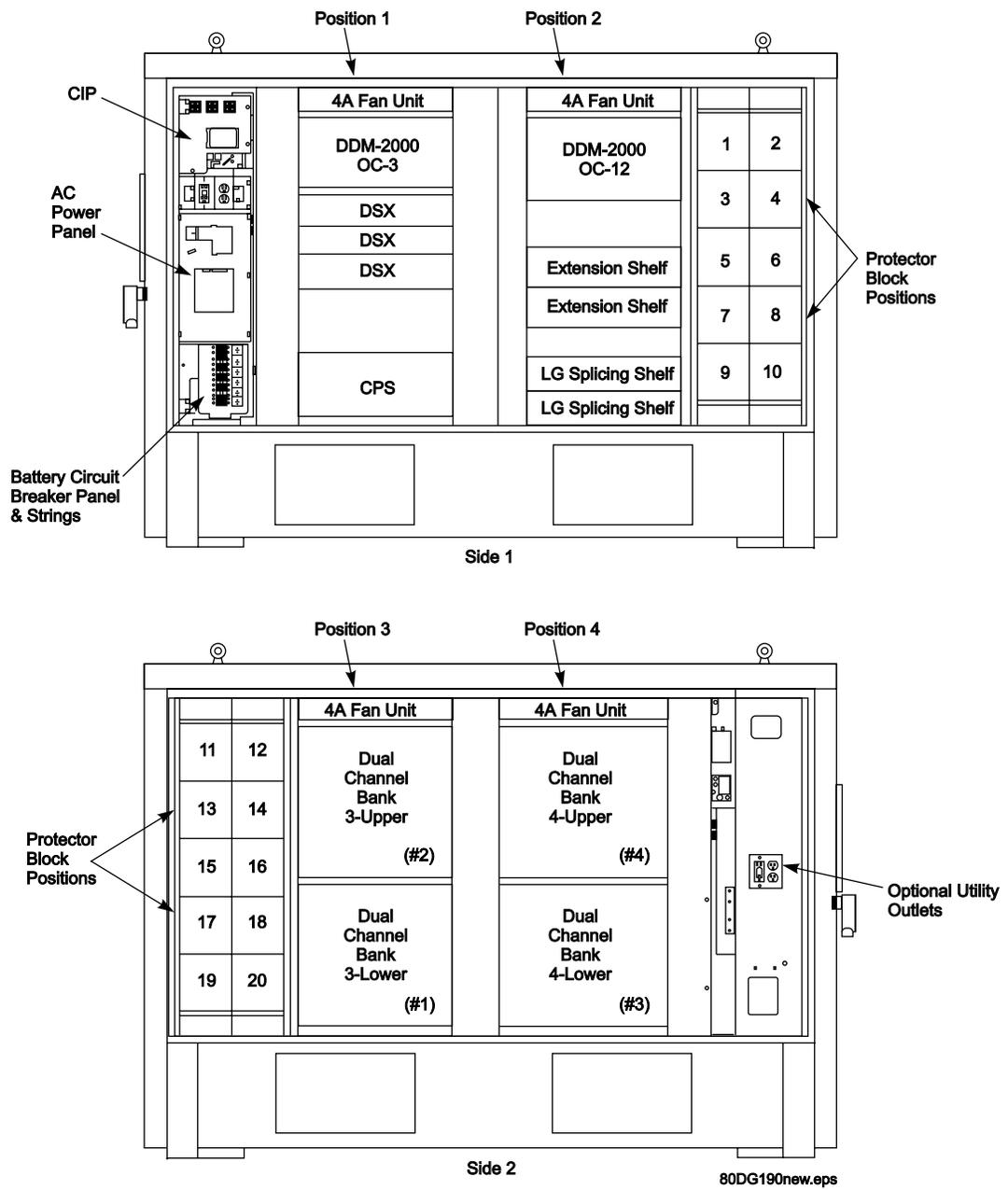
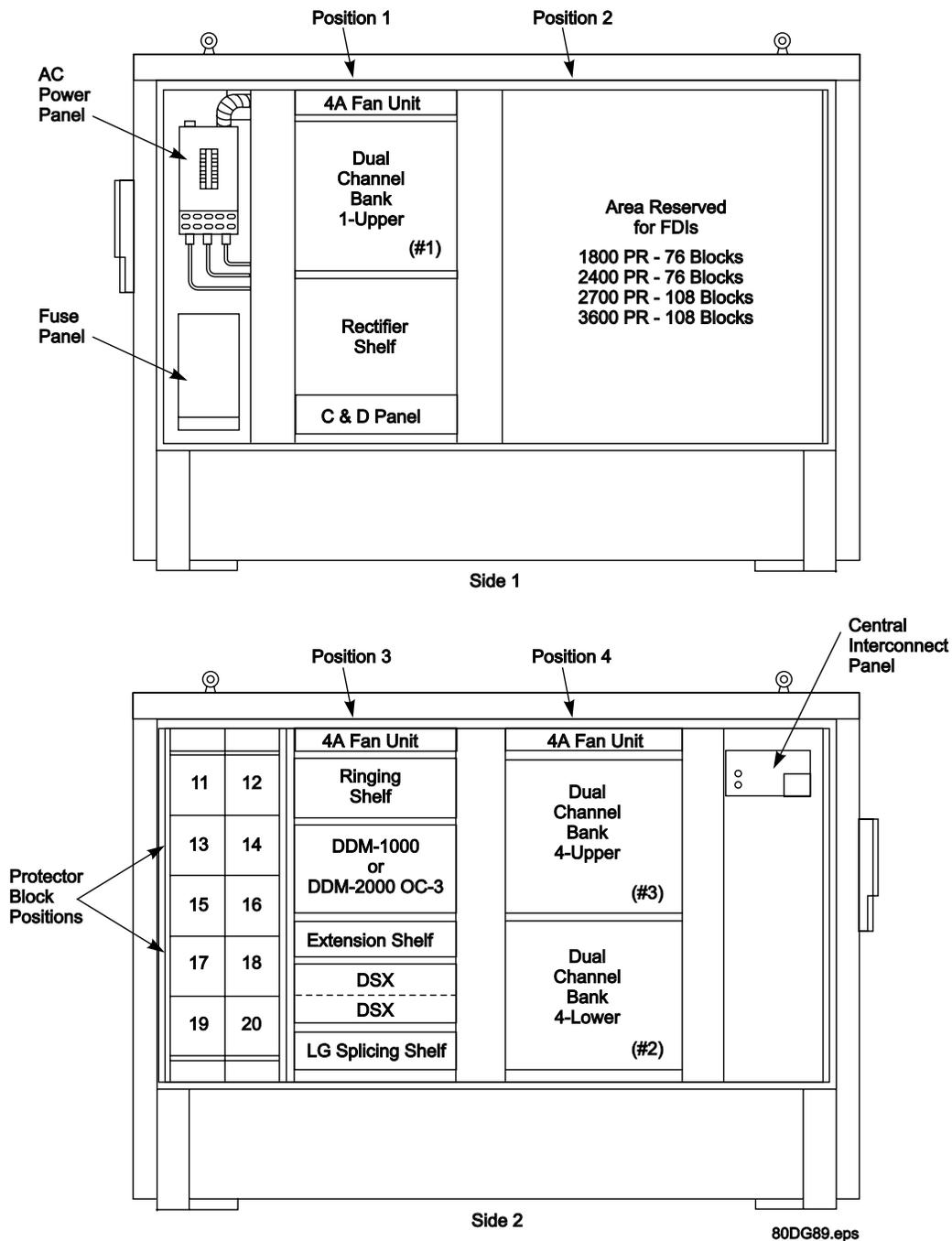


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 13



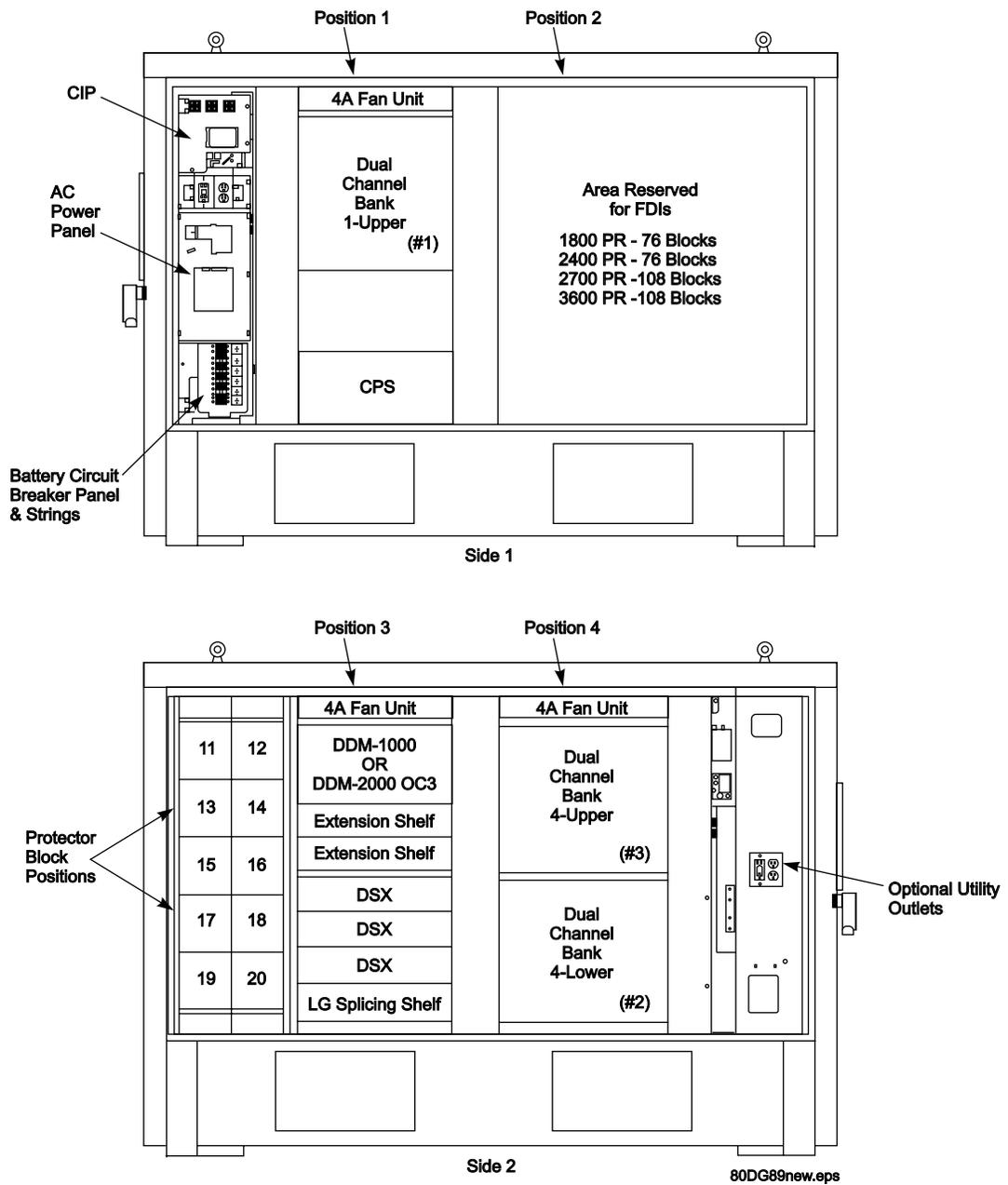
80D, Group 190 Equipment Configuration - Later Configuration

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 14



**80D, Group 89 Equipment Configuration**

**Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 15**



80D, Group 89 Equipment Configuration - Later Configuration

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 16

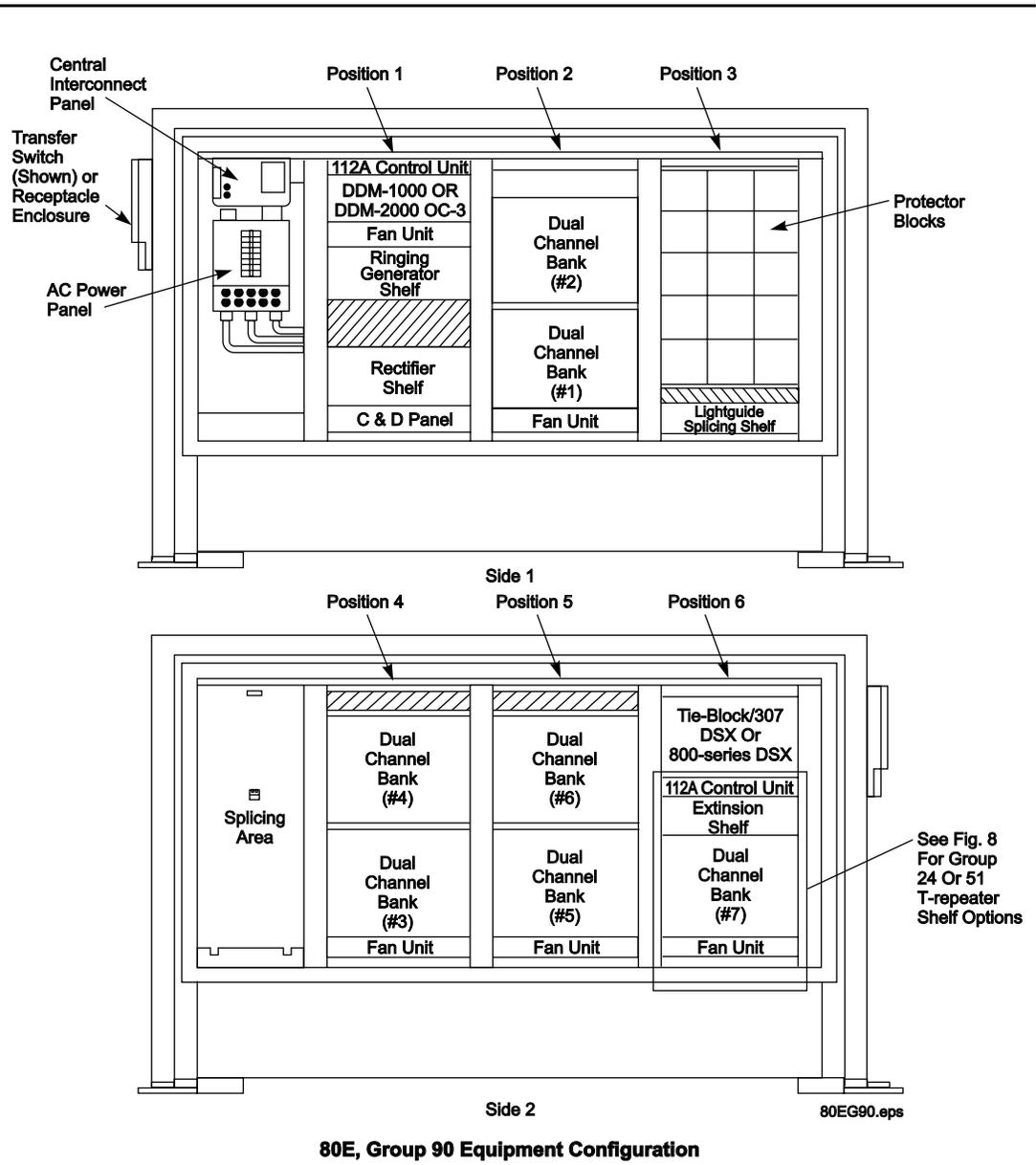
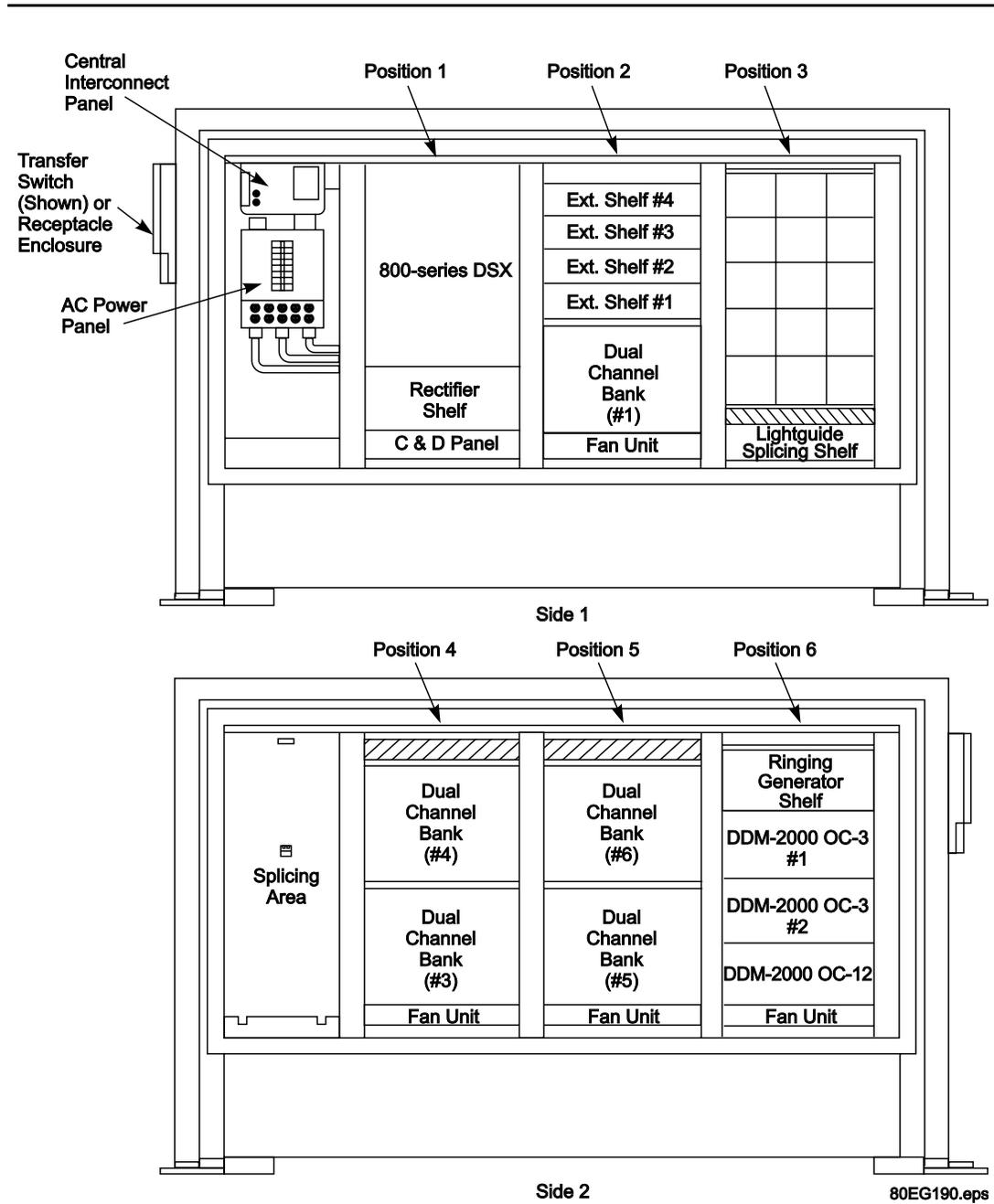


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 17



80E, Group 190 Equipment Configuration

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 18

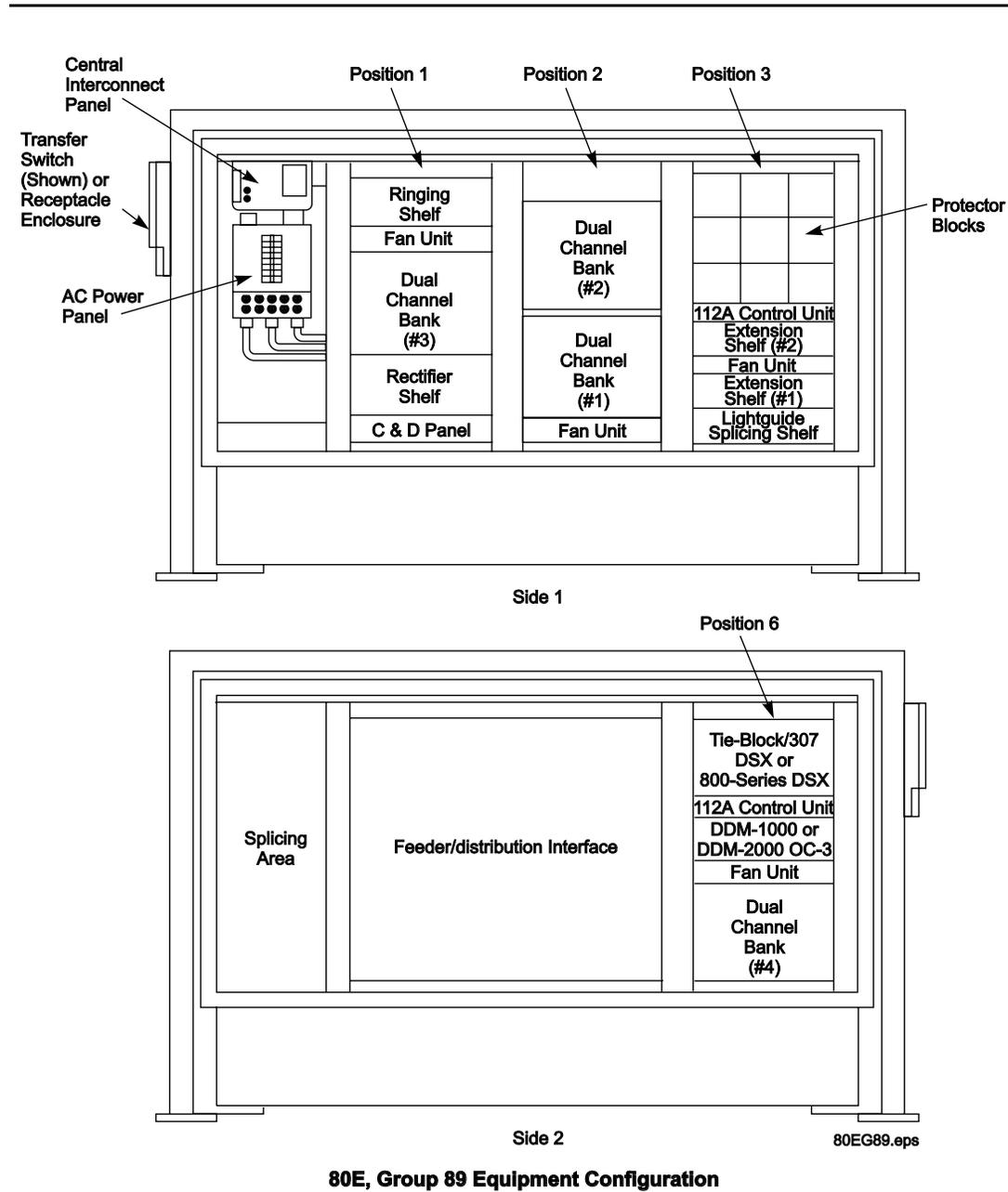


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 19

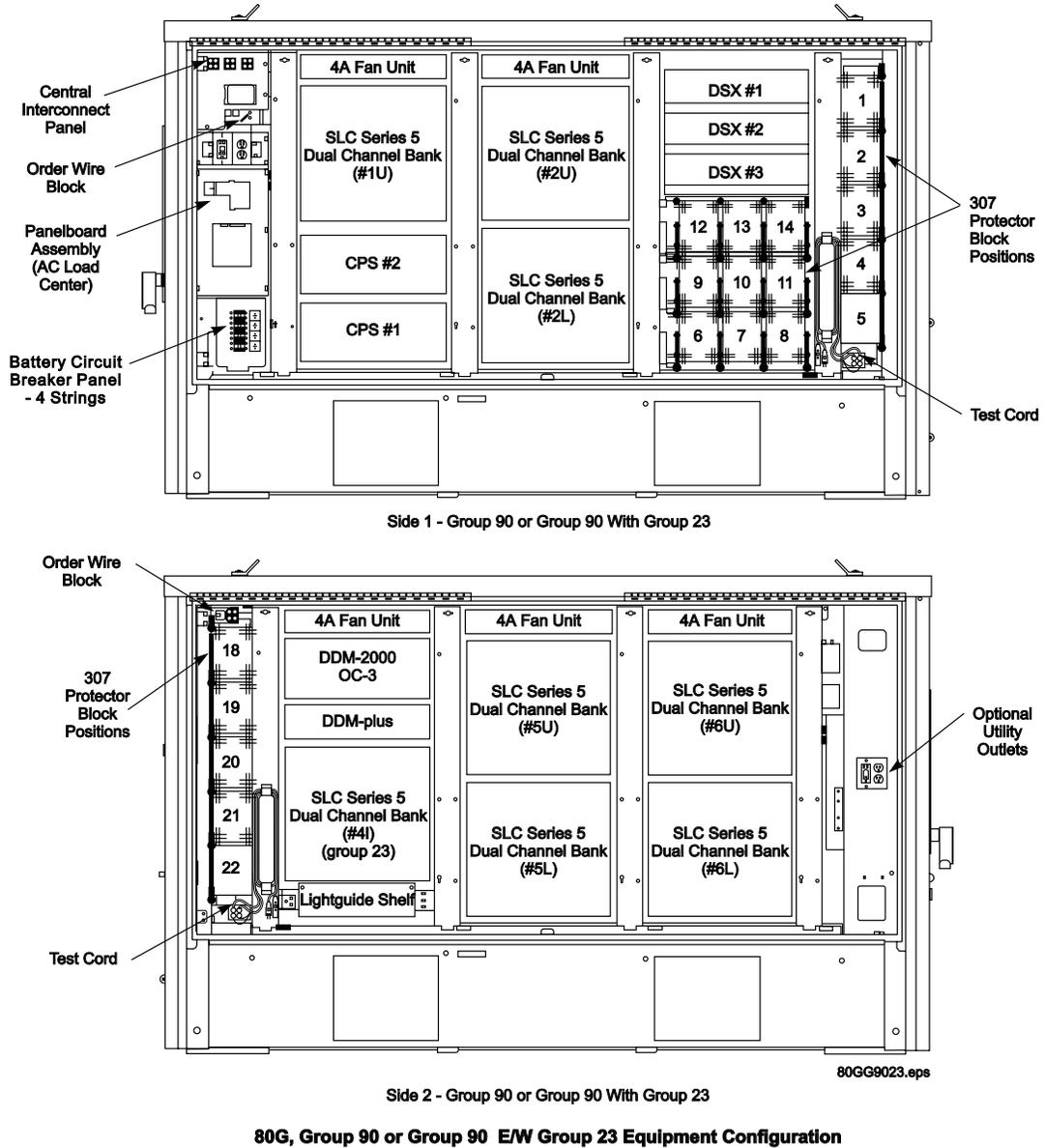


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 20

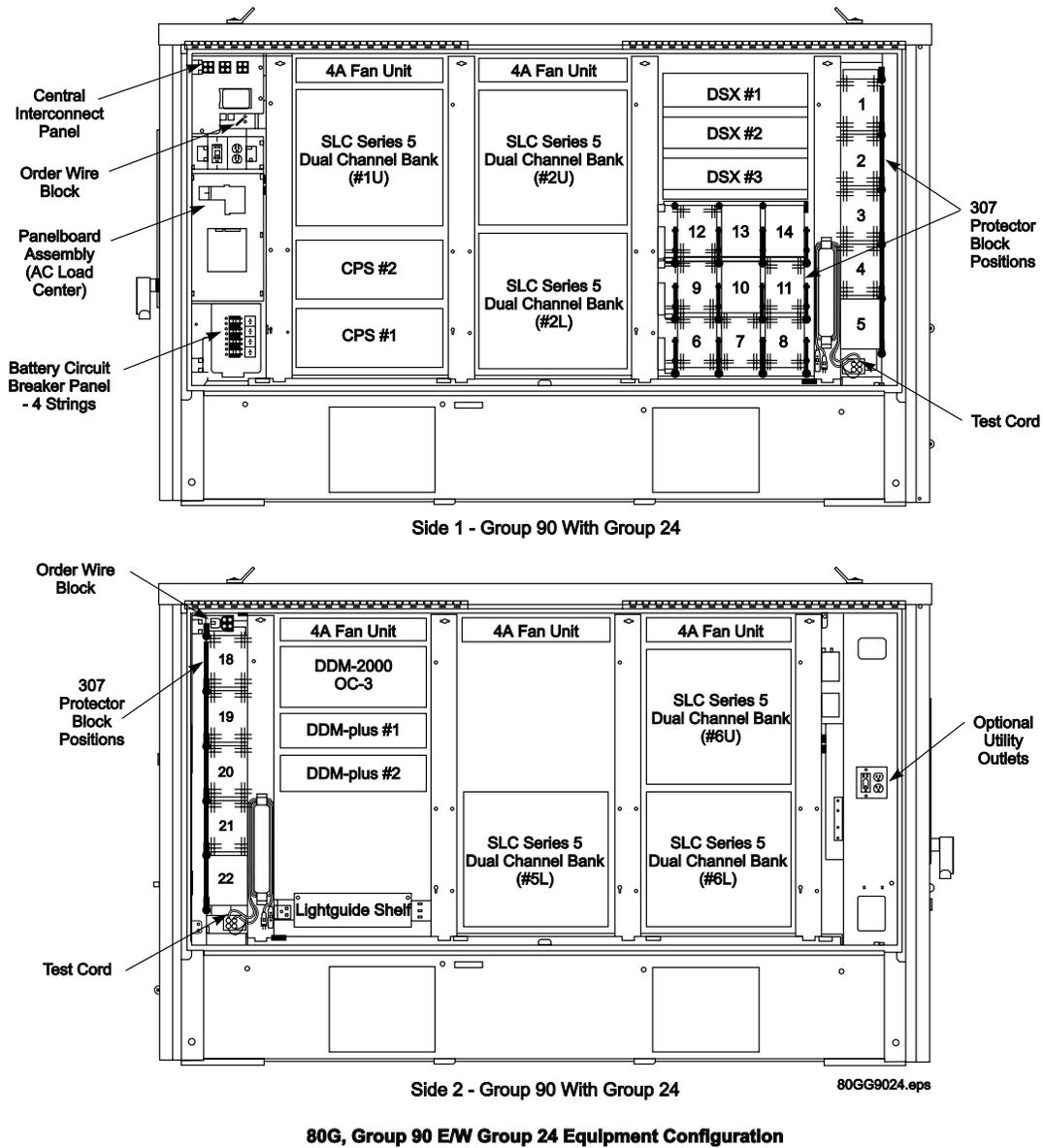


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 21

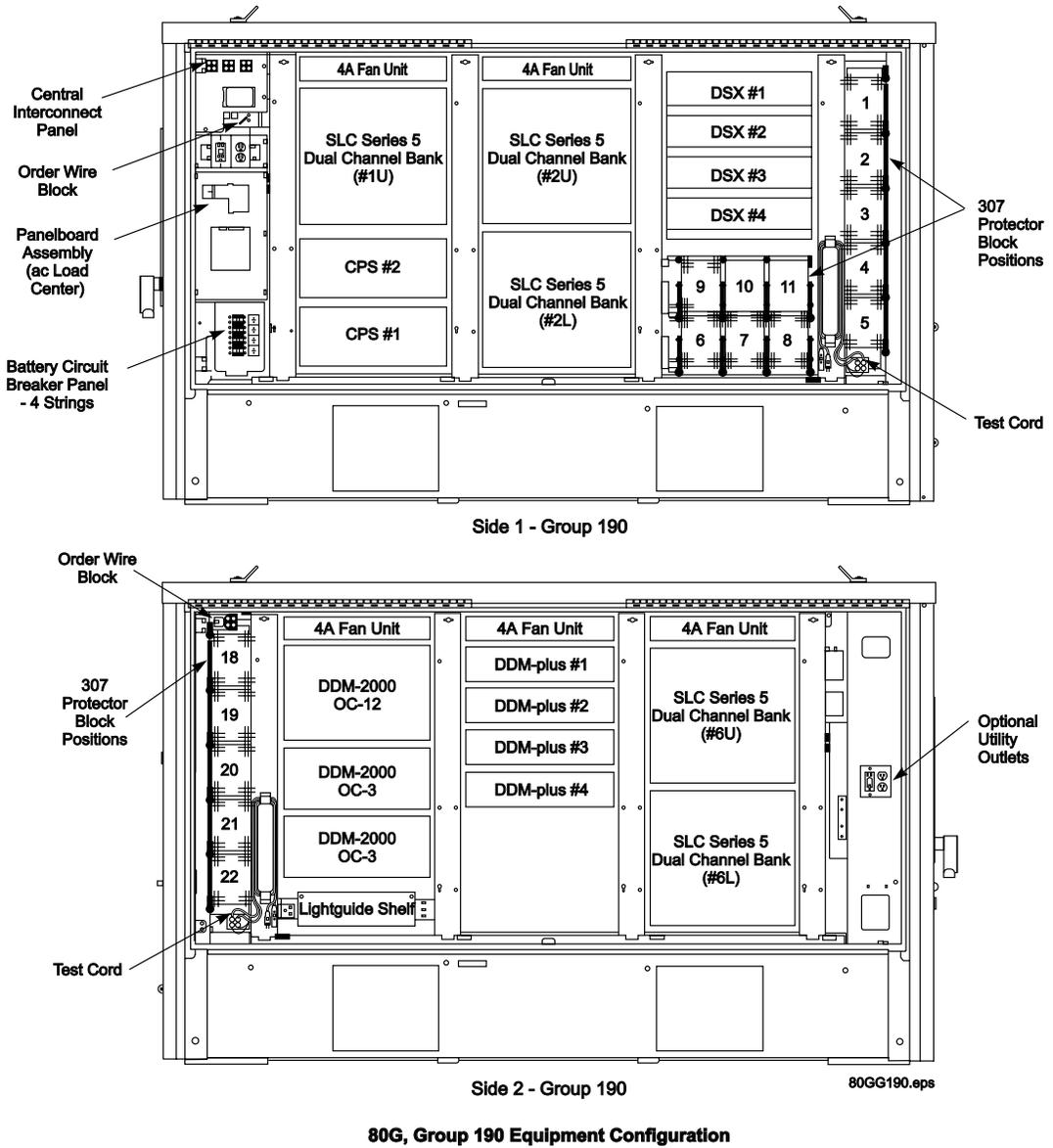
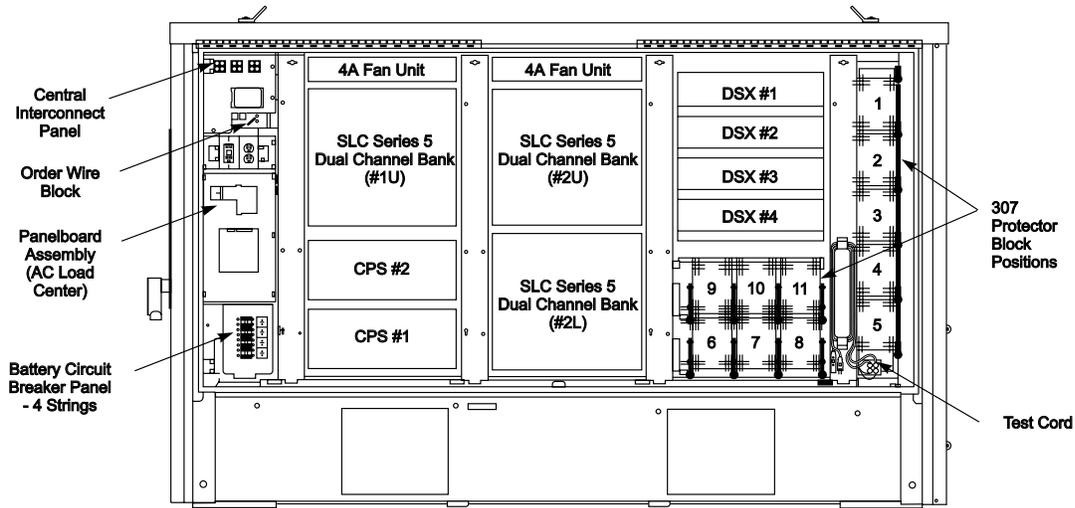
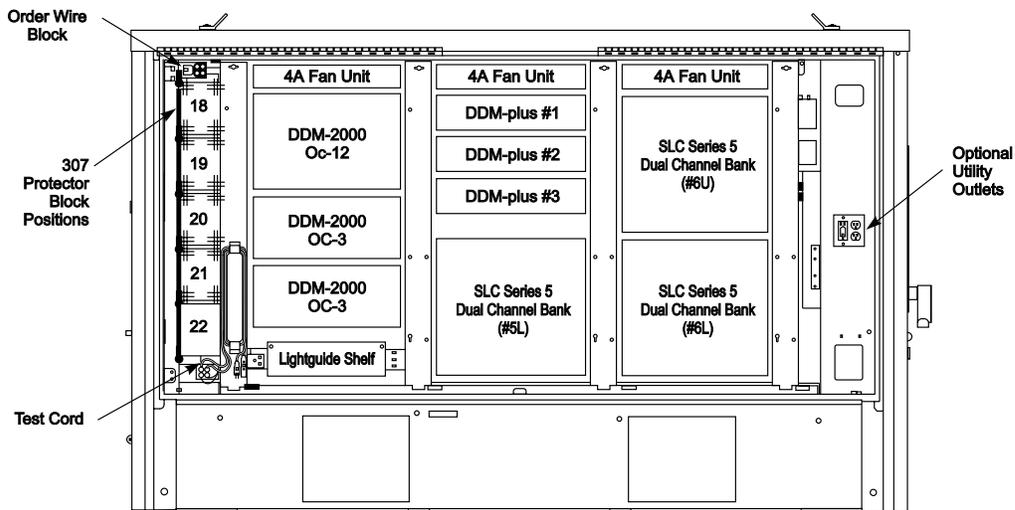


Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 22



Side 1 - Group 190 With Group 22

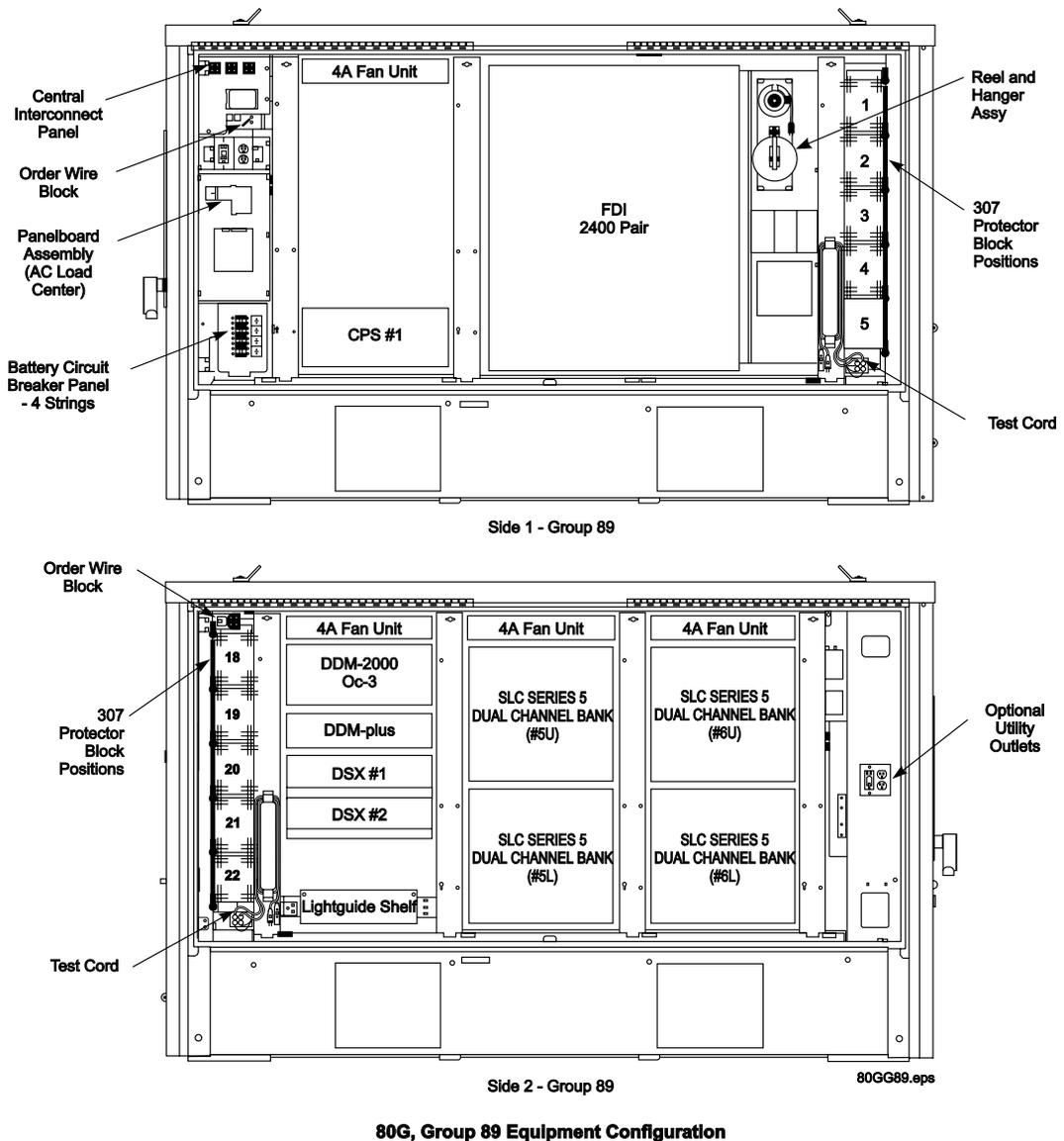


Side 2 - Group 190 With Group 22

80GG19022.eps

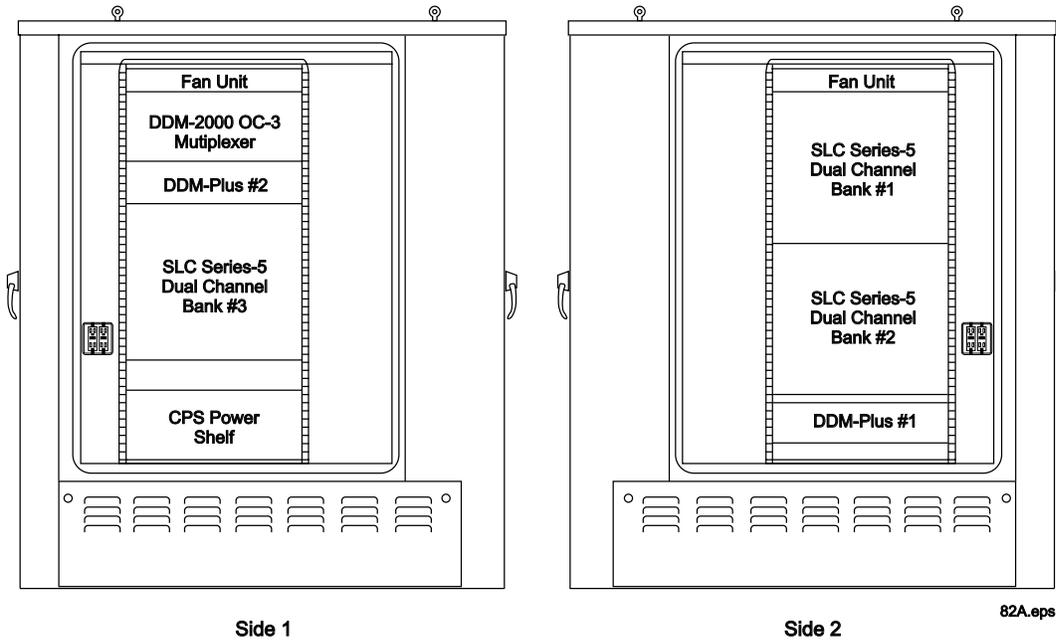
**80G, Group 190 E/W Group 22 Equipment Configuration**

**Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 23**



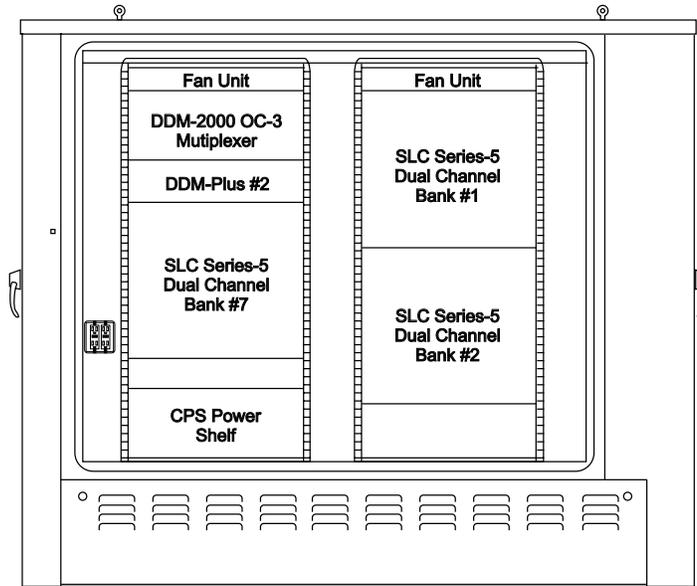
80G, Group 89 Equipment Configuration

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 24

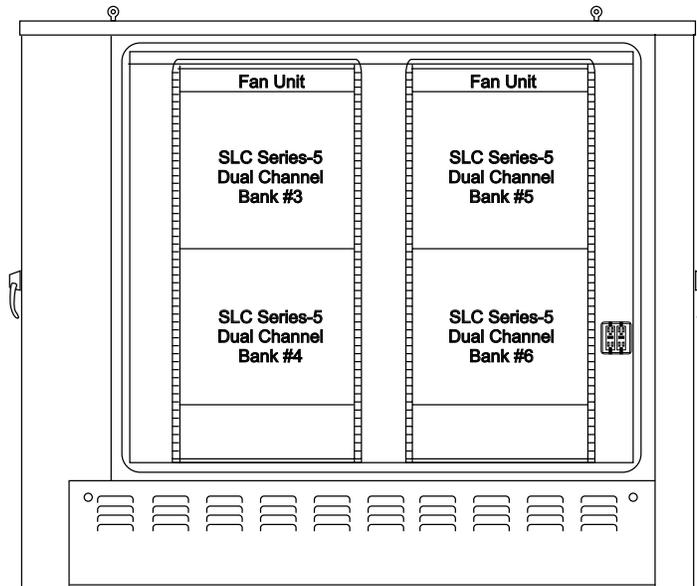


82A Group 290 With Group 219 and 228 - Equipment Layout

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 25



Side 1

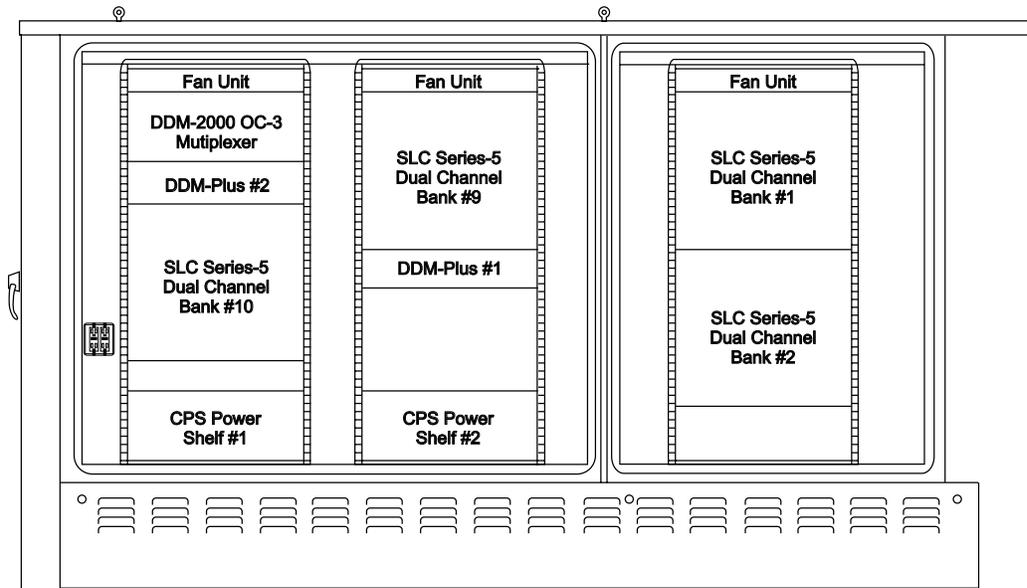


Side 2

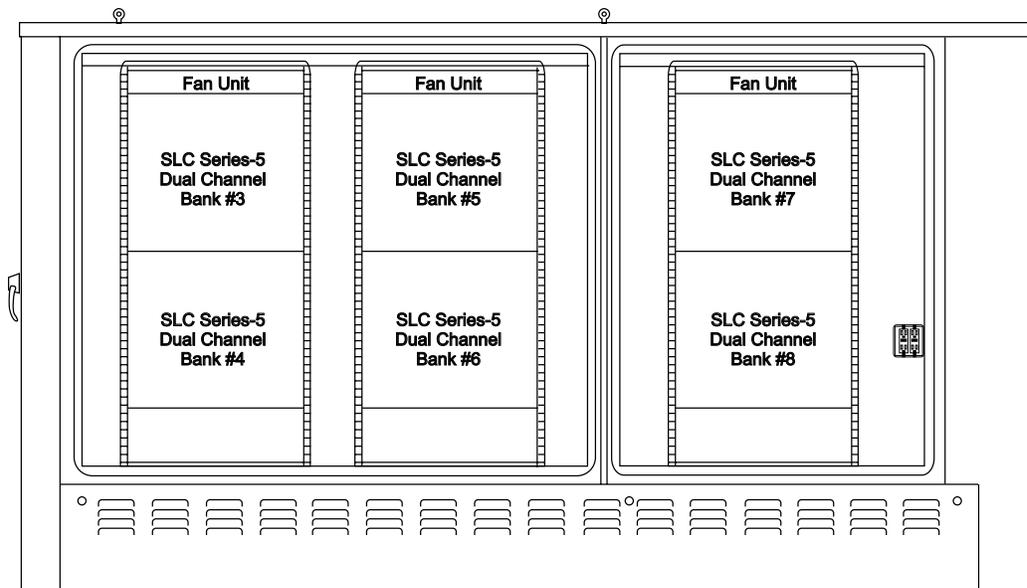
82D.eps

82D Group 290 With Group 219 and 228 - Equipment Layout

Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 26



Side 1



Side 2

82G.eps

**82G Group 290 With Group 219 and 228 - Equipment Layout**

**Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 27**

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

CLLI: \_\_\_\_\_

**TABLE FOR RECORDING CHANNEL UNITS IN EXISTING DLC SYSTEMS  
(One Table per Bank)**

System ID: CLLI \_\_\_\_\_ Type of Bank \_\_\_\_\_

Location Bay \_\_\_\_\_ Position \_\_\_\_\_

Channel Unit Slot Number	Channel Unit Type	Channel Unit Slot Number	Channel Unit Type
1		25	
2		26	
3		27	
4		28	
5		29	
6		30	
7		31	
8		32	
9		33	
10		34	
11		35	
12		36	
13		37	
14		38	
15		39	
16		40	
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18		42	
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23		47	
24		48	

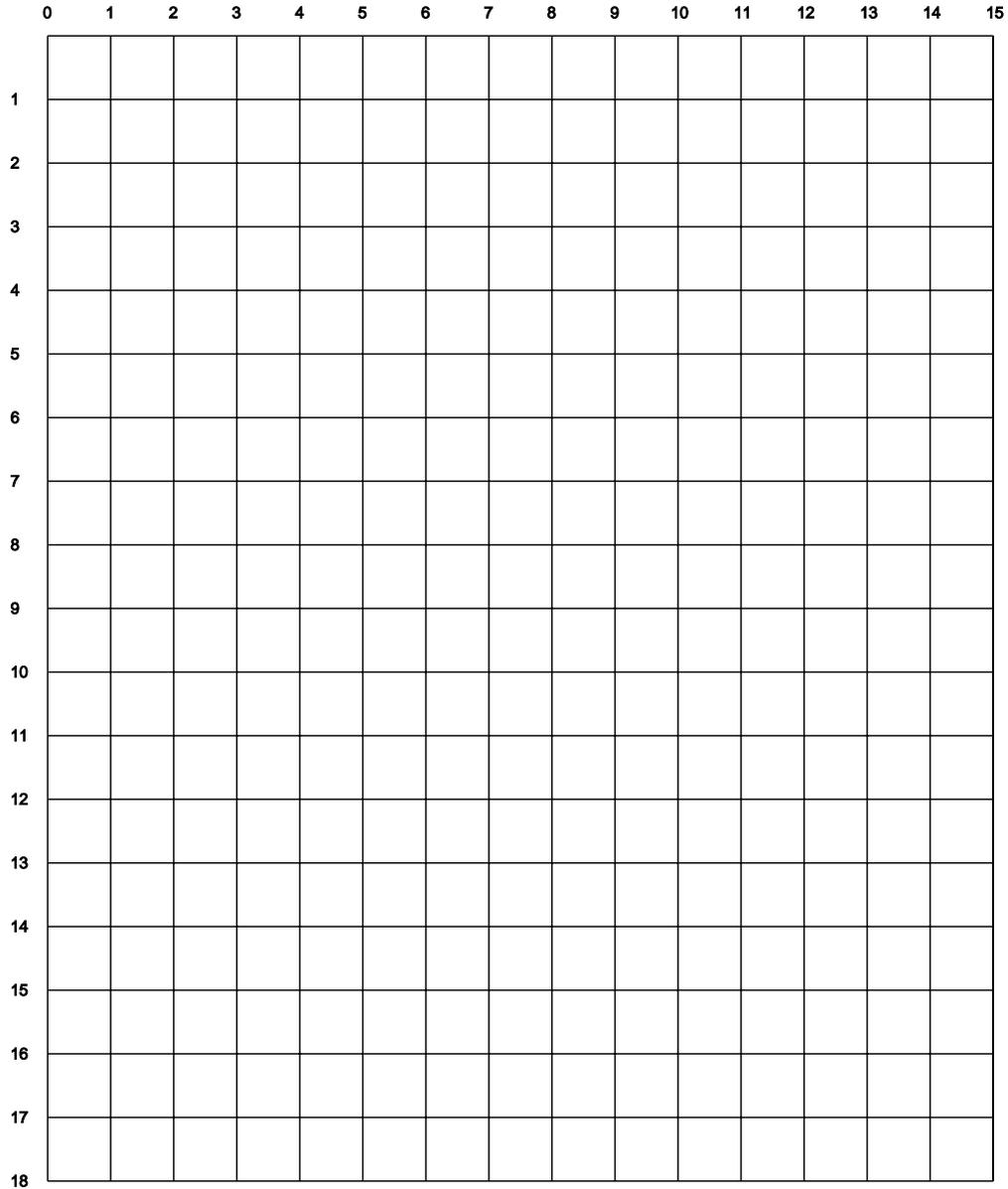
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**Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 28**

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For LUCENT 80 and 82 Type Cabinets Only**

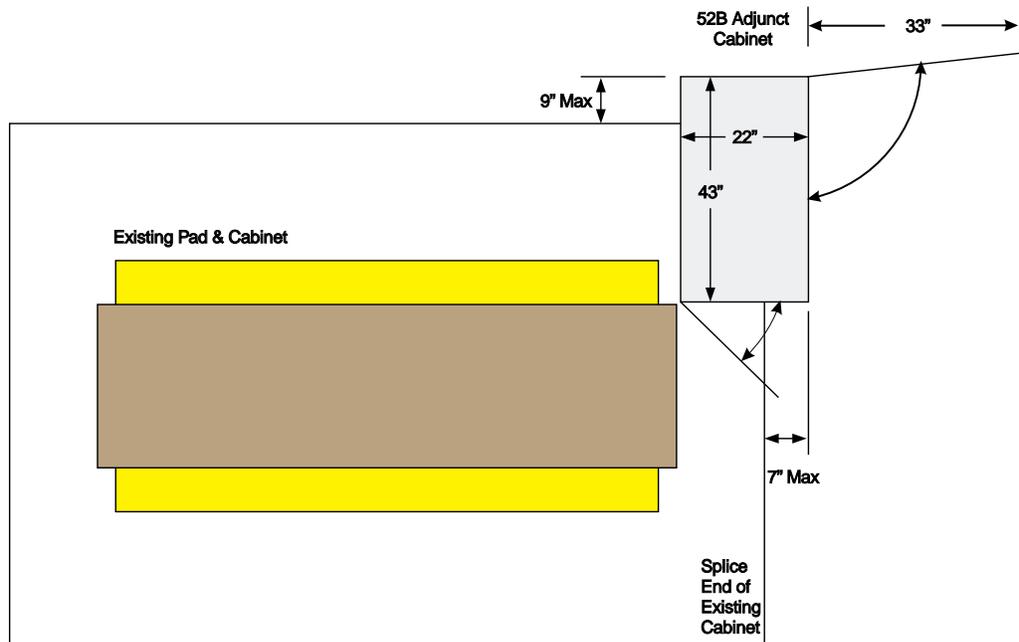
CLI \_\_\_\_\_

DETAILED SKETCH OF SITE SHOWING ALL CABINET LOCATIONS (INCLUDING FDI's),  
PAD, AND OTHER STRUCTURES/OBSTICALS AT THE SITE.



---

**Figure A-1. Lucent Technologies 80()and 82() Type Cabinets Only — Sheet 29**



**Template and Pad Overhang Limits for Determining if a 52B Adjunct Cabinet can be Placed Adjacent to an Existing Cabinet.**

(Minimal door opening requirements for placement adjacent to the existing cabinet should be verified.)

52Btemplate

**Figure A-1. Lucent Technologies 80() and 82() Type Cabinets Only — Sheet 30**







**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

DATE: \_\_\_\_\_ RT # \_\_\_\_\_ CLI: \_\_\_\_\_

WIRE CENTER \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

SITE INSPECTOR: \_\_\_\_\_ Phone/Pager # \_\_\_\_\_

**1. Cabinet Type and Power System**

- Marconi (Reltec)
  - Mesa Type(code) \_\_\_\_\_
- Other:  
Manufacturer \_\_\_\_\_ Type \_\_\_\_\_
- Identify Power System used:  
Manufacturer \_\_\_\_\_  
Type \_\_\_\_\_  
Is this a "Bulk Power" arrangement?
  - Yes
  - No

**2. Cabinet Specification Information**

- Identify complete cabinet Specification information \_\_\_\_\_  
Serial Number \_\_\_\_\_  
Will the cabinet support 14-inch depth equipment? (a space of 9 inches is required behind the front edge of the mounting flange to accommodate the *AnyMedia* shelf)
  - Yes
  - NoIs the cabinet equipped with a Heat Exchanger?
  - Yes Type (door duct, etc.) \_\_\_\_\_
  - NoList all information that can be found on the Heat Exchanger unit:  
\_\_\_\_\_  
\_\_\_\_\_

**IF the cabinet is NOT bulk powered, THEN an Adjunct cabinet is required:  
skip Items 3 to 9, 11, 14 to 16, and 20.**

**3. Bulk Power Configuration**

- Number and type of Rectifiers installed:  
Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Quantity: \_\_\_\_\_  
Capacity (Amps): \_\_\_\_\_ Spare Slots: \_\_\_\_\_  
Identify spare power feeds (fuses or circuit breakers) on the power unit:  
\_\_\_\_\_

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLI: \_\_\_\_\_

**4. Power Distribution Configuration**

- Fuse/Breaker Panel: Manufacturer \_\_\_\_\_ Type \_\_\_\_\_  
Single or Dual Load (e.g. "A" only or "A" & "B" feeds) \_\_\_\_\_  
Spare Fuse/Breaker positions \_\_\_\_\_  
Type of Fuse/Breaker \_\_\_\_\_
- Other: Describe \_\_\_\_\_

Are power dangles provided to spare or unequipped DLC systems?

- Yes
- No

**5. Bulk Ringing Configuration**

Number and type of ringing generators

- 3B1, 3C1 (for RT 60/J1C182BC-1) qty: \_\_\_\_\_
- ES621, ES621B (for CPS-4000) qty: \_\_\_\_\_
- ES620 (for CPS-4000) qty: \_\_\_\_\_
- Other (specify type & qty): \_\_\_\_\_

**6. Batteries**

Number of Battery strings: \_\_\_\_\_

Type:

Lucent Technologies

- 12IR125 (4 batteries/string)
- 4VR125 (12 batteries/string)

Liberty

- FA12-125 (4 batteries/string)

Chloride

- 3VB11 (8 batteries/string)

PowerSafe

- 6VF11 (4 batteries/string)

Other

Specify Make & Model): \_\_\_\_\_

Are there spare battery cable harnesses and connectors  Yes  No  
How many? \_\_\_\_\_

---

Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 2

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLL: \_\_\_\_\_

**7. Number and Type of DLC Systems in the Cabinet**

Physical Banks installed \_\_\_\_\_ Type (e.g. Series 5) \_\_\_\_\_  
Banks equipped with circuit packs \_\_\_\_\_ location(s) \_\_\_\_\_  
Banks without circuit packs equipped \_\_\_\_\_ location(s) \_\_\_\_\_  
Vacant Bank positions \_\_\_\_\_ location(s) \_\_\_\_\_

Wiring present for vacant bank mounting positions

(Check list for *SLC* Series 5 configured cabinets)

- Power, ringing, DC test & alarms: J108A-x & J108B-x
- DS1 trmt & rcv: P105BL-x, P106BL-x, P105WH-x & P106WH-x
- DS0: P101BL-x, P102BL-x, P103BL-x, P104BL-x, P101WH-x, P102WH-x, P103WH-x, P104WH-x

For non - *SLC* Series 5 configurations, identify cable and connector designations:

---

Protector blocks equipped for the vacant bank position.

- No  Yes If yes; identify quantity, location, and connector designations:
- 

**8. Cabinet Sketches**

Draw a detailed sketch of side 1 and side 2 of the cabinet. Identify each piece of equipment installed in the cabinet and its location. This includes identifying the type of digital loop carrier equipment (*SLC* 96 Carrier System, *SLC* Series 5 Carrier System, Fujitsu FDLC, *SLC*-2000 Access System, etc.). Identify vacant mounting positions (show locations and rack-height in inches).

**9. Does the Cabinet Meet the Following Basic Criteria for a Simple Replacement/Add?**

- Fiber Mux
- Bulk Power
- Vacant *SLC* Series 5 Bank Position, 22" of available bay space with 9" depth behind the front edge of the bay flanges or unequipped *SLC* Series 5 dual channel bank

**IF ALL of the above criteria are checked, THEN skip to Item 14**

**Items 10 to 13 assume that an in-service DLC bank must be changed out or that an adjunct cabinet is needed.**

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT**  
**For NON-LUCENT Cabinets Only**

CLI: \_\_\_\_\_

**10. AC Power Configuration**

Cabinet Input Voltage

- 120/240V AC
- Other \_\_\_\_\_

Separate AC Power Pedestal?

- No
- Yes.

If Yes: record the following:

Bus rating: \_\_\_\_\_amps

Specify quantity, amperage and no. of poles of all spare Circuit

Breakers (i.e., installed but unwired): \_\_\_\_\_

Specify Number of vacant circuit breaker positions (single pole): \_\_\_\_\_

Load Center in Cabinet:

Bus rating: \_\_\_\_\_amps

Specify quantity, amperage and no. of poles of all spare Circuit Breakers (i.e., installed but unwired): \_\_\_\_\_

Specify Number of vacant circuit breaker positions (single pole): \_\_\_\_\_

Convenience Outlets in Cabinet:

Outlet rating:

- 15 amp, 115V: Quantity std. \_\_\_\_\_ Quantity GFCI \_\_\_\_\_
- 20 amp, 115V: Quantity std. \_\_\_\_\_ Quantity GFCI \_\_\_\_\_
- Other; specify: \_\_\_\_\_

**11. DLC System Configurations**

For each DLC system in the cabinet, identify all channel units installed using a copy of the attached table (Sheet 10) for each system.

**12. Site Plan Sketch**

Provide a detailed Site Plan Drawing showing the pad, cabinet location, and all other structures and obstacles at the site. Use the attached template (Sheet 11).

---

Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 4

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLL: \_\_\_\_\_

**13. Adjacent 52B Cabinet?**

Identify potential location areas for an adjunct 52B that allow all doors on both cabinets to open to the locked position. All doors need not be open simultaneously. Can a 52B cabinet be located adjacent to the existing cabinet, on its pad? See attached guidelines (Sheet 12) for 52B placement.

- Yes: If Yes, identify where on the Site Plan Drawing
- No

Can a 52B cabinet be located near the existing pad?

- Yes. If Yes, identify where on the Site Plan Drawing
- No

**Additional Items for ALL sites**

**14. Identify Any Additional Type of Rack-Mounted Equipment in Cabinet**

- Test Head: Type(s): \_\_\_\_\_
- Built-in FDI \_\_\_\_\_
- Other (specify Make, Model & rack-height in inches): \_\_\_\_\_

Does the depth of any equipment on the opposite side of the cabinet extend into an unequipped bank position? No  Yes

Measure the depth of the vacant bank position. Measure from the back of the equipment on the opposite side of the cabinet to the front edge of the mounting rail for the vacant bank.

Depth (inches): \_\_\_\_\_ (a minimum of 9 inches is needed for the *AnyMedia* shelf)

Identify type of equipment on the opposite side of the cabinet: \_\_\_\_\_

**15. Fans**

Number and type of fans:

Manufacturer \_\_\_\_\_ Type \_\_\_\_\_ Quantity \_\_\_\_\_  
Locations \_\_\_\_\_

Fan Unit present in bay with unequipped bank position?  Yes  No

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLI: \_\_\_\_\_

**16. Type of Connectors Used to Interface the DLC System to**

**Protector Cables**

- 710 (gray/green)
- 3M
- Other (specify): \_\_\_\_\_

***IF metallic feeder, THEN go to Item 19***

**17. Fiber Feeder Configuration**

Fiber MUX Capacity (OC-3, OC-12?) \_\_\_\_\_

What type of Multiplexer is provided?

Lucent Technologies

- DDM-2000 OC-3 (equipped with OC-3 or OC-12 optics)  
ED \_\_\_\_\_ Group # \_\_\_\_\_
- DDM-2000 OC-12  
ED \_\_\_\_\_ Group # \_\_\_\_\_
- DDM-1000  
ED \_\_\_\_\_ Group # \_\_\_\_\_

Fujitsu

- FLM-150

Other

- Specify Make & Model: \_\_\_\_\_

What muldemers are equipped and how: A \_\_\_\_\_ Type of Pack \_\_\_\_\_  
B \_\_\_\_\_ Type of Pack \_\_\_\_\_  
C \_\_\_\_\_ Type of Pack \_\_\_\_\_

What is system capacity: DS3s \_\_\_\_\_ DS1s \_\_\_\_\_

Spare capacity: DS3 \_\_\_\_\_ DS1s \_\_\_\_\_

What type of DS3 connectors are used on the MUX?

- BNC
- Other: \_\_\_\_\_

**18. Spare Fibers and Connectors**

Verify the availability of spare fibers and associated connectors for a possible added MUX, and identify the type of connectors used.

Spare Fibers \_\_\_\_\_ Spare Connectors \_\_\_\_\_

Type:

- ST
- SC
- FC-PC
- Other: \_\_\_\_\_

Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 6

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLL: \_\_\_\_\_

**19. Metallic Feed Configurations (Skip This Item if Fiber Feed)**

Is there a T1 Repeater Shelf?

No

Yes:

Manufacturer \_\_\_\_\_

Type: \_\_\_\_\_

Spare Positions? \_\_\_\_\_

Is there spare Feeder Capacity (pairs):

Yes      How many? \_\_\_\_\_ Where are they terminated? \_\_\_\_\_

No

**20. Protection**

What type of protectors are used? \_\_\_\_\_

Is there space in the Protector area for additional protector fields? If so how many? \_\_\_\_\_

**21. Where is the FDI Cross-Connect Located?**

External FDI

FDI within the cabinet

Is there spare capacity (unused or unassigned)?

No

Yes: If Yes, how much? \_\_\_\_\_

---

Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 7

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLI: \_\_\_\_\_

**22. DSX-1 Cross-Connect Panels**

Type:

- Lucent Technologies 800-/900-series
- Lucent Technologies DIXI-1 (4-ckt blocks)
- Bantam (Lucent Technologies, Telect, ADC, etc.)
- 307/Tie-Block
- Other (specify type): \_\_\_\_\_

Are vacant or unequipped bank positions pre-terminated on the DSX?

- Yes
- No

For partially filled DSX panels:

Indicate the number of additional DSX positions available? \_\_\_\_\_

Number of unequipped DSX block positions: \_\_\_\_\_

Provide assignments for existing DSX-1 or tie blocks (fill out attached DS1 templates — Sheets 13 and 14). Identify any available unequipped block space.

**23. DSX-3 Cross-Connect Panels**

Is DSX-3 present?

- No
- Yes      If Yes, specify type, panel capacity, connector type (e.g. BNC) bay location & equipped positions:  
\_\_\_\_\_

**24. Does the Site Have DS1 Extensions?**

- Yes.      Total number of equipped slots: \_\_\_\_\_ Card type(s) \_\_\_\_\_

Type of Extension Shelf:

- Lucent DDM-Plus Extension Shelf
- Lucent DS1 Extension Shelf
- Wescom T-repeater shelf
- Other (specify): \_\_\_\_\_

- No.

**25. Are There Multiple RT Cabinets at the Site?**

- Yes      If Yes, survey each cabinet on a separate form. Show locations on site plan sketch.
- No
- Pad without Cabinet

---

Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 8

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLLI: \_\_\_\_\_

**26. Collect Digital Pictures of Each Site:**

- The CLLI, Wire Center, and Date. This first image should use 8.5" x 11" piece of paper on a clipboard with info printed using a large black felt tip pen, and it should be a close-up.
- Front view of the cabinet with the doors open (these images should be such that we can count plugs in MUX and see a good view of DSX, or Tie Blocks and all DLC positions in each cabinet bay).
- Rear view of the cabinet with the doors open (these images should be such that we can count plugs, etc).
- The splice chamber.
- AC power area.
- Two images which includes cabinet, and immediate surroundings (Front view and one side view).

---

**Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 9**

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Type Cabinets Only**

CLLI: \_\_\_\_\_

TABLE FOR RECORDING CHANNEL UNITS IN EXISTING DLC SYSTEMS  
(One Table per Bank)

System ID: CLLI \_\_\_\_\_ Type of Bank \_\_\_\_\_

Location Bay \_\_\_\_\_ Position \_\_\_\_\_

Channel Unit Slot Number	Channel Unit Type	Channel Unit Slot Number	Channel Unit Type
1		25	
2		26	
3		27	
4		28	
5		29	
6		30	
7		31	
8		32	
9		33	
10		34	
11		35	
12		36	
13		37	
14		38	
15		39	
16		40	
17		41	
18		42	
19		43	
20		44	
21		45	
22		46	
23		47	
24		48	

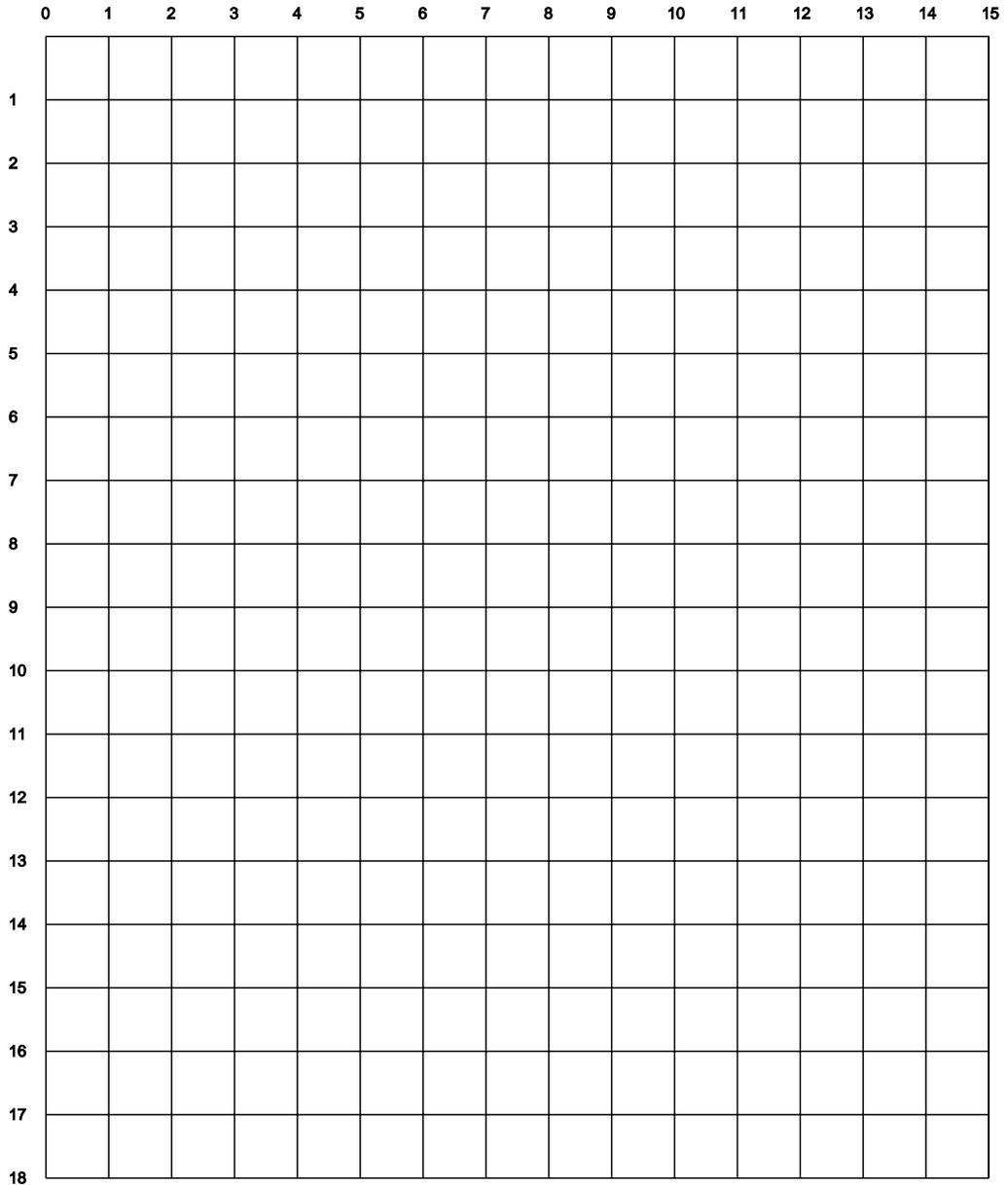
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**Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 10**

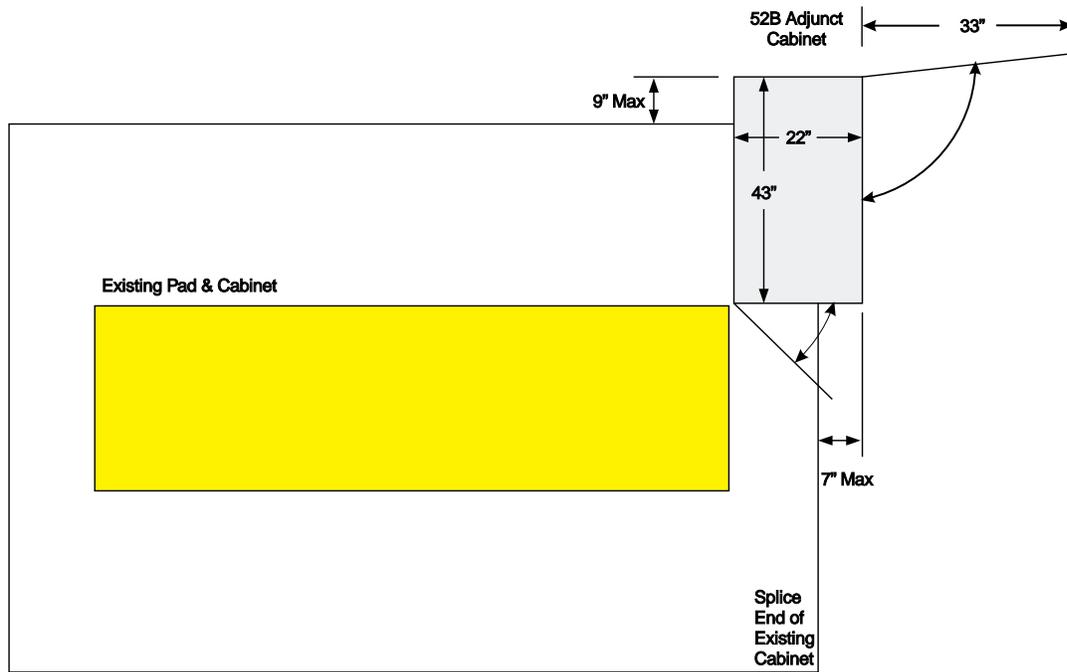
**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For NON-LUCENT Cabinets Only**

CLI \_\_\_\_\_

DETAILED SKETCH OF SITE SHOWING ALL CABINET LOCATIONS (INCLUDING FDI's),  
PAD, AND OTHER STRUCTURES/OBSTICALS AT THE SITE.



**Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 11**



**Template for Determining if a 52B Adjunct Cabinet  
can be Placed Adjacent to an Existing Cabinet.**

(Figure shows a typical placement of a 52B cabinet with pad overhang limits  
and clearance required to assure that doors on all sides can be opened.)

52Btemplatentl

**Figure A-2. Non-Lucent Technologies Cabinets Only — Sheet 12**





**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts and Customer Premise Sites**

DATE: \_\_\_\_\_ RT # \_\_\_\_\_ CLLI: \_\_\_\_\_

WIRE CENTER \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

SITE INSPECTOR: \_\_\_\_\_ Phone/Pager # \_\_\_\_\_

**1. Site Type and Layout**

Using the template on Sheet 9, provide a detailed site layout (floor plan) drawing, which describes the type of site and identifies each rack and other equipment within the site. The following information should be identified:

**Type of enclosure:**

- CEV Size \_\_\_\_\_ Number of Racks \_\_\_\_\_ Are all Racks in place? \_\_\_\_\_  
Hut Type \_\_\_\_\_ Size \_\_\_\_\_ Number of Racks \_\_\_\_\_ Are all Racks in place? \_\_\_\_\_
- Customer Premise
  - Cabinet: Type \_\_\_\_\_
  - Equipment Room: Number of Racks \_\_\_\_\_ Is there space for additional racks? \_\_\_\_\_
  - Wall mounted
  - Other: Describe Site \_\_\_\_\_

**Power System:**

- Is this site a "Bulk Power" arrangement?  Yes  No
- Identify Power System used: Manufacturer \_\_\_\_\_ System \_\_\_\_\_  
Type \_\_\_\_\_

**Distributed power bays are NOT suitable for an *AnyMedia* system retrofit. *AnyMedia* Systems require bulk power. If bulk power is not available at the site, an adjunct cabinet or a new power plant must be provided.**

**2. Bulk Power Configuration**

Number and type of rectifiers installed:  
Manufacturer \_\_\_\_\_ Type \_\_\_\_\_ Quantity \_\_\_\_\_  
Capacity (Amps) \_\_\_\_\_ Spare Slots \_\_\_\_\_

Identify spare power feeds (fuses or circuit breakers) on the power unit \_\_\_\_\_

**3. Bulk Power Distribution Configuration**

- Fuse Panel: Manufacturer \_\_\_\_\_ Type \_\_\_\_\_  
Single or Dual feed ("A" feed or "A" and "B" feeds) \_\_\_\_\_  
Spare Fuse positions \_\_\_\_\_
- Type of Fuse \_\_\_\_\_  
Other: Describe \_\_\_\_\_

Are there power feeds provided to unequipped or spare DLC positions?  
 Yes  No

Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 1

---

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT**  
**For CEVs, Huts and Customer Premise Sites**

CLLI: \_\_\_\_\_

**4. Ringing Plant: Identify Type and Capacity**

J1C182BB Bulk Power Units in DLC bays equipped with 3C1 or equivalent ringing generator units? \_\_\_\_\_

Other: Manufacturer \_\_\_\_\_ Type \_\_\_\_\_ Capacity \_\_\_\_\_  
Distribution (fuses) \_\_\_\_\_ Other \_\_\_\_\_ Spares \_\_\_\_\_

**5. Other than DLC Systems, what Equipment is Supported by the Power System?**

Identify Manufacturer and Equipment Type and Model:

1. Type \_\_\_\_\_ Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Number \_\_\_\_\_

2. Type \_\_\_\_\_ Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Number \_\_\_\_\_

3. Type \_\_\_\_\_ Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Number \_\_\_\_\_

Provide additional entries if needed

**6. Bulk Power Batteries**

Number of battery strings: \_\_\_\_\_

Type: Lucent Technologies

12IR125 (4 batteries/string)

4VR125 (12 batteries/string)

Liberty

FA12-125 (4 batteries/string)

Other (specify Make & Model): \_\_\_\_\_

Spare battery cable harnesses and connectors?  Yes  No How many? \_\_\_\_\_

**7. Fiber Feeder Configuration**

Fiber MUX Capacity (OC-3, OC-12?) \_\_\_\_\_

What type of Multiplexer is provided?

Lucent Technologies

DDM-2000 OC-3 (equipped with OC-3 or OC-12 optics)

ED \_\_\_\_\_ Group # \_\_\_\_\_

DDM-2000 OC-12

ED \_\_\_\_\_ Group # \_\_\_\_\_

DDM-1000

ED \_\_\_\_\_ Group # \_\_\_\_\_

Fujitsu

FLM-150

Other (specify Make & Model): \_\_\_\_\_

---

Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 2



**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts and Customer Premise Sites**

CLI: \_\_\_\_\_

**10. Detailed Sketch of Each Rack**

Based on the layout from Item 1, draw a detailed sketch of each rack at the site. (Use template on Sheet 10.) Measure the distance from the front edge of the bay flange to the wall behind the bay and include on the sketch. Identify each piece of equipment installed in each rack and its position, including the type of digital loop carrier equipment (*SLC 96 Carrier System, SLC Series 5 Carrier System, Fujitsu FDLC, SLC-2000 Access System, etc.*).

**Include the following information:**

Number and type of DLC systems installed \_\_\_\_\_ Type (e.g. Series 5) \_\_\_\_\_  
 Banks equipped with circuit packs \_\_\_\_\_ location(s) \_\_\_\_\_  
 Banks without circuit packs equipped \_\_\_\_\_ location(s) \_\_\_\_\_  
 Vacant Bank Positions (NO physical bank) \_\_\_\_\_ location(s) \_\_\_\_\_  
 Are Series 5 DLC bays equipped with J1C182BB Bulk Power Units? \_\_\_\_\_

Number and type of fans in DLC bays:

4A qty: \_\_\_\_\_ 2 Type qty: \_\_\_\_\_ Type \_\_\_\_\_  
 Other fans (specify type & qty): \_\_\_\_\_

Fan Unit present in bay with unequipped bank position?     Yes     No

Wiring present for vacant bank mounting positions? (These cables and associated 710 type connectors are normally stored as a bundle behind the mounting flanges for the 22 inch rack space intended for the uninstalled bank.)

Identify all cable and connector designations (use additional sheets for each vacant position):

(Check list for *SLC Series 5* configured cabinets)

- Power, ringing, DC test & alarms: J108A-x & J108B-x, & J305-x
- DS1 trmt & rcv: P105BL-x, P106BL-x, P105WH-x & P106WH-x
- DS0: P101BL-x, through P104BL-x, and P101WH-x, through P104WH-x

Are protector blocks equipped for the vacant bank position?

Yes     No

Empty racks \_\_\_\_\_ Identify location(s) \_\_\_\_\_

Other unused space (describe) \_\_\_\_\_

**Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 4**

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts and Customer Premise Sites**

CLI: \_\_\_\_\_

**11. Does the Site meet the Criteria for a Simple Replacement/Add?**

- Fiber Mux
- Bulk Power
- Vacant SLC Series 5 Bank Position (22" of available bay space, 9" clear space behind the front edge of the bay flange) or unequipped Series 5 dual channel bank, or other available bay space. Identify and describe available space. \_\_\_\_\_

***IF ALL of the above criteria are checked, THEN skip to Item 16***

**Items 12 to 15 assume that an in-service DLC bank must be changed out or a new power plant or an adjunct cabinet is needed.**

**12. AC Power Configuration**

Site Input Voltage

- 120/240V AC
- Other \_\_\_\_\_

Separate AC Power Pedestal?:

- No
- Yes If Yes, specify the following:

Bus rating: \_\_\_\_\_ amps

Specify quantity, amperage and no. of poles of all spare Circuit

Breakers (i.e., installed but unwired): \_\_\_\_\_

Specify number of vacant circuit breaker positions (single pole): \_\_\_\_\_

Load Center in Site:

Bus rating: \_\_\_\_\_ amps

Specify quantity, amperage and no. of poles of all spare Circuit Breakers (i.e., installed but unwired): \_\_\_\_\_

Specify number of vacant circuit breaker positions (single pole): \_\_\_\_\_

Convenience Outlets in Site

Outlet rating:

- 15 amp, 115V: Quantity standard \_\_\_\_\_ Quantity GFCI \_\_\_\_\_
- 20 amp, 115V: Quantity standard \_\_\_\_\_ Quantity GFCI \_\_\_\_\_
- Other. Specify: \_\_\_\_\_

---

Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 5

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT**  
**For CEVs, Huts and Customer Premise Sites**

CLI: \_\_\_\_\_

**13. DLC System Configurations**

For each DLC system at the site, identify all channel units installed using a copy of the attached table (Sheet 11) for each system. *In a large installation it may be more appropriate to use office records to identify candidate banks for possible replacement, rather than to inventory the entire site.*

**14. Site Plan Sketch**

Provide a detailed Site Plan Drawing showing the site configuration and all other structures and obstacles at the site. Use the attached Template on Sheet 12.

**15. Can a 52B Cabinet be Located at the Site?**

Identify potential location areas for an adjunct 52B that allow all doors to open to the locked position (see Sheet 13 for recommended 52B pad layout). All doors need not be open simultaneously.

- Yes      If Yes, identify where on the Site Plan Drawing
- No

**Additional Information**

**16. Type of Connectors Used in Bays to Interface the DLC System to Protectors Blocks**

- 710
- 3M
- Other (specify): \_\_\_\_\_

**17. Type of Connectors Used in Bays to Interface the DLC System Protectors to Distribution/Feeder Cables**

- 710
- 3M
- Other (specify): \_\_\_\_\_

**18. Protection**

What type of protectors are used at the site? \_\_\_\_\_  
Is there space in the protector area for additional protector fields?  
If so how many: \_\_\_\_\_

**19. Where is the Distribution Cable Cross-Connect Located?**

- External FDI
- FDI within the structure  
    Intra-building Cross-Connect (no Protectors)

---

Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 6

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts and Customer Premise Sites**

CLI: \_\_\_\_\_

**20. DSX-1 Cross-Connect Panels**

Type:

- Lucent Technologies 800-/900-series
- Lucent Technologies DIXI-1 (4-ckt blocks)
- Bantam (Lucent Technologies, Telect, ADC, etc.)
- 307/Tie-Block
- Other (specify type): \_\_\_\_\_

Are vacant or unequipped bank positions pre-terminated on the DSX?

- No
- Yes:

For partially filled DSX panels: Indicate the number of additional DSX positions available?

Number of unequipped DSX block positions: \_\_\_\_\_

Provide assignments for existing DSX-1 or tie blocks (fill out attached DS1 templates on Sheets 14 and 15).

**21. DSX-3 Cross-Connect Panels**

Is DSX-3 present?

- No
- Yes

If Yes, specify type, panel capacity, connector type (e.g. BNC) bay location and equipped positions:

---

**22. Does the Site Have DS1 Extensions?**

- Yes. Total number of equipped slots: \_\_\_\_\_ Card type(s) \_\_\_\_\_

Type of Extension Shelf:

- Lucent DDM-Plus Extension Shelf
- Lucent DS1 Extension Shelf
- Wescom T-repeater shelf
- Other (specify): \_\_\_\_\_

- No.

**23. Are There Multiple RT Enclosures at the Site?**

- Yes If Yes, survey each cabinet on a separate form.
- No

---

Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 7

---

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts and Customer Premise Sites**

CLLI: \_\_\_\_\_

**24. Collect Digital Pictures of Each Site**

- The CLLI, Wire Center, and Date. This first image should use 8.5" x 11" piece of paper on a clipboard with info printed using a large black felt tip pin, and it should be a close-up.
- Front view of each rack in the structure (these images should be such that we can count plugs in MUX and see a good view of DSX, or Tie Blocks and all DLC positions in each rack). ***These pictures may be impractical in a small CEV or Hut and may be omitted if bay layout drawings of sufficient detail are provided.***
- The splice area
- The distribution cross-connect area (FDI).
- AC power area.
- Two images which includes structure, and immediate surroundings (Front view and one side view).

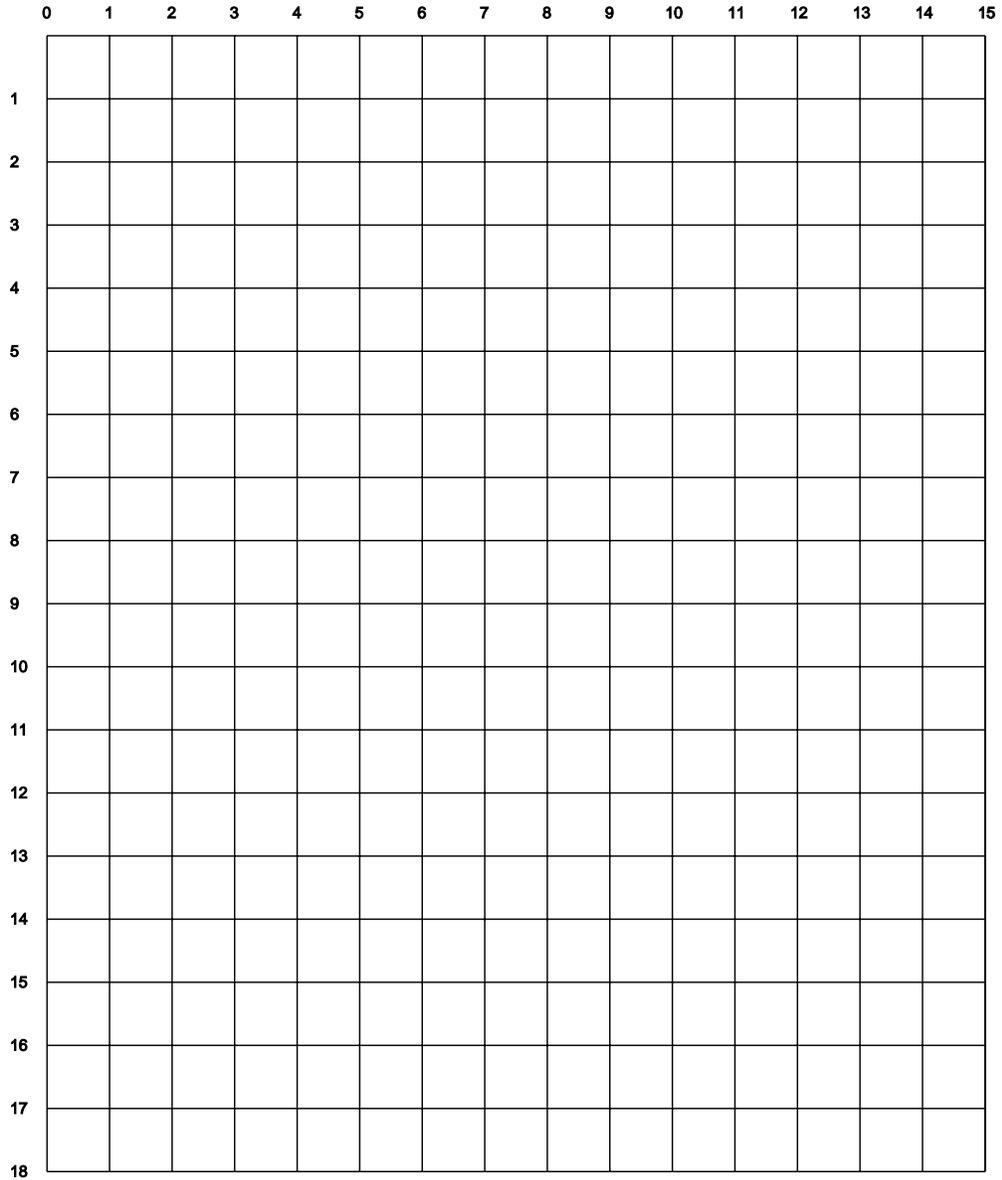
---

Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 8

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts, and Customer Premises Sites**

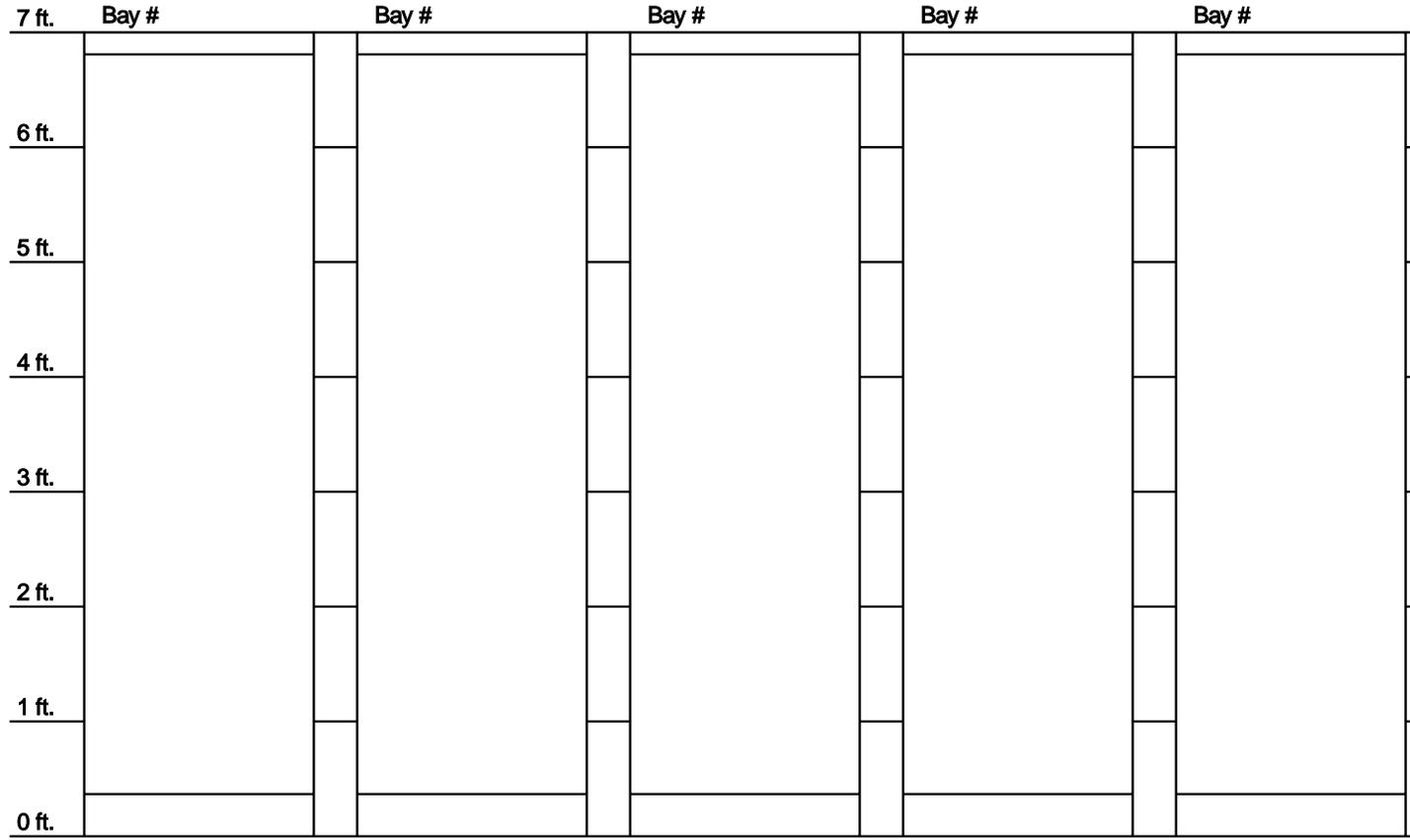
CLLI \_\_\_\_\_

**DETAILED SKETCH OF ENCLOSURE FLOOR PLAN LAYOUT SHOWING ALL BAYS AND  
OTHER EQUIPMENT, PER ITEM 1**



**Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 9**

**TEMPLATE FOR 7 foot BAY LAYOUT per ITEM 10**  
**(provide as many copies of this template to accommodate all bays in the enclosure)**



**Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 10**

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts, and Customer Premise Sites**

CLLI: \_\_\_\_\_

TABLE FOR RECORDING CHANNEL UNITS IN EXISTING DLC SYSTEMS  
(One Table per Bank)

System ID: CLLI \_\_\_\_\_ Type of Bank \_\_\_\_\_

Location Bay \_\_\_\_\_ Position \_\_\_\_\_

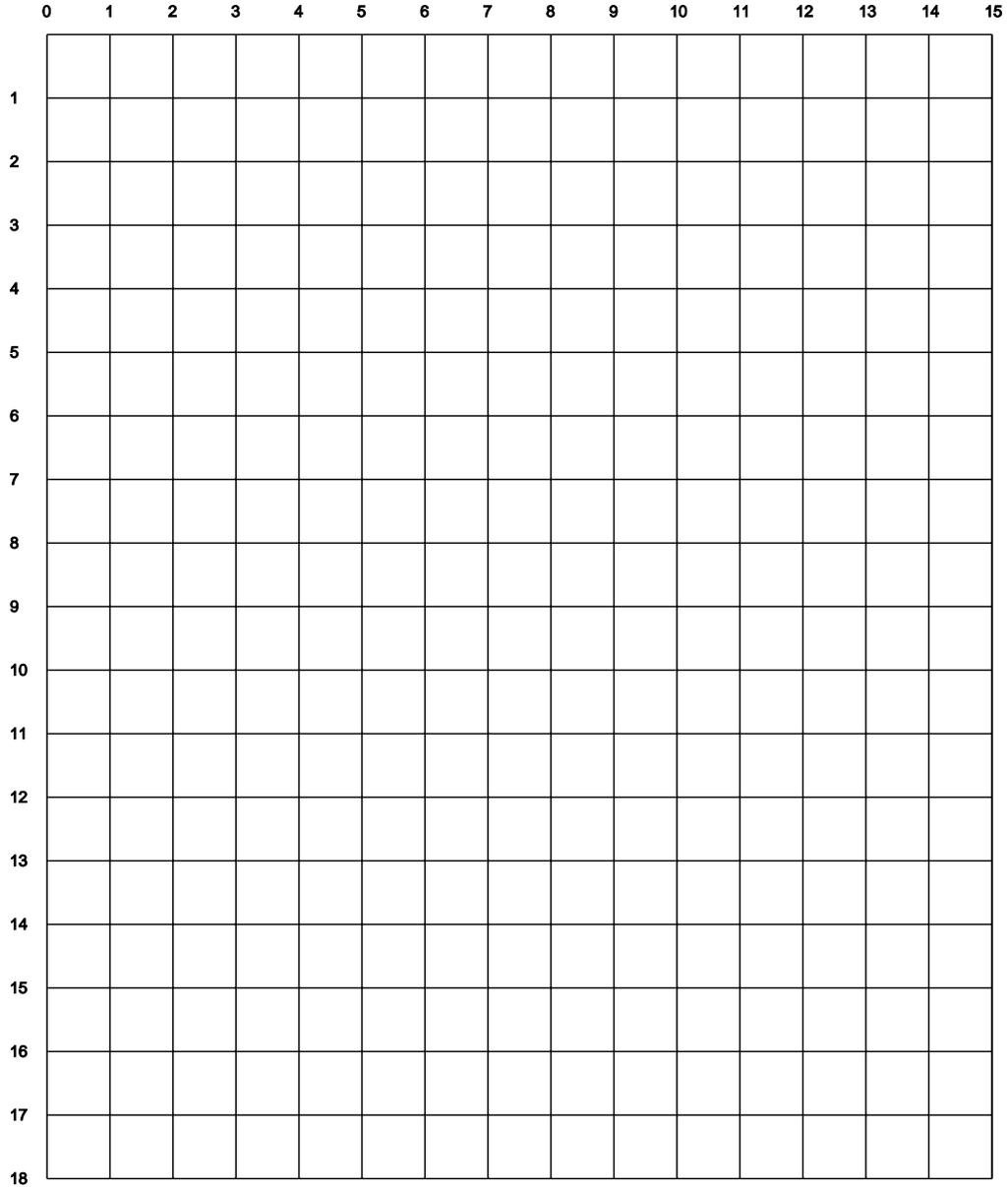
Channel Unit Slot Number	Channel Unit Type	Channel Unit Slot Number	Channel Unit Type
1		25	
2		26	
3		27	
4		28	
5		29	
6		30	
7		31	
8		32	
9		33	
10		34	
11		35	
12		36	
13		37	
14		38	
15		39	
16		40	
17		41	
18		42	
19		43	
20		44	
21		45	
22		46	
23		47	
24		48	

**Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 11**

**RT SITE SURVEY FOR ADSL DEPLOYMENT  
For CEVs, Huts, and Customer Premises Sites**

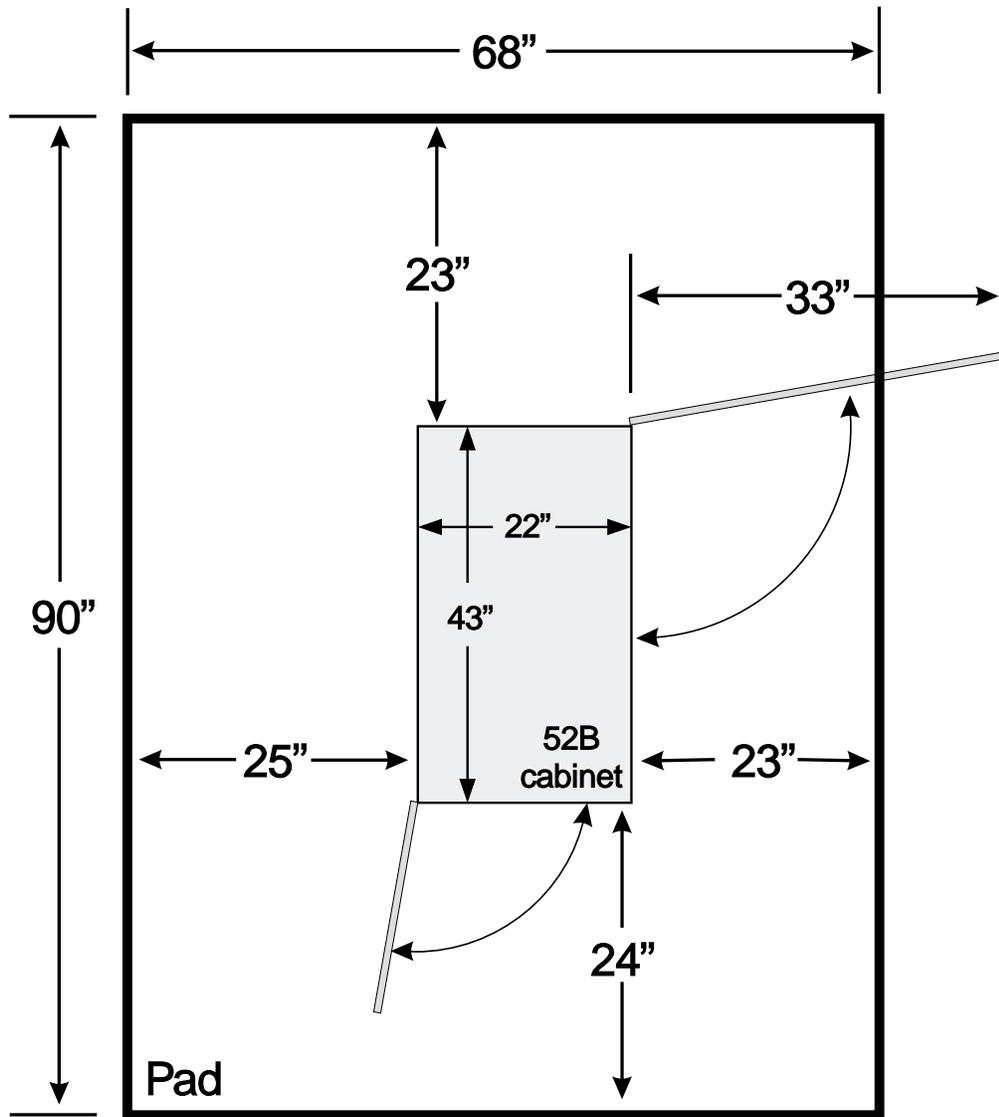
CLI \_\_\_\_\_

**DETAILED SKETCH OF SITE SHOWING ALL ENCLOSURE LOCATIONS (INCLUDING  
FDIs), PADS, AND OTHER STRUCTURES/OBSTICALS AT THE SITE, PER ITEM 14**



---

**Figure A-3. CEVs, Huts and Customer Premise Sites — Sheet 12**



**Minimum Recommended Pad Dimensions and Clearances for Placing a 52B Cabinet on a New or Existing Pad**

52BtemplateCEV.eps







---

# Abbreviations and Acronyms

---

## A

**ADSL**

asymmetric digital subscriber line

**AID**

access identifier

**AMAS**

*AnyMedia* Access System

**AP**

application pack

**ATU**

alarm test unit

---

## B

**BOC**

Bell Operating Company

---

## C

**CCS**

hundred call seconds

**CD-ROM**

compact disk — read only memory

**CEV**

controlled environment vault

**CIP**

central interconnect panel

**CO**

central office

**COT**

central office terminal

---

**D**

**DA**  
discontinued availability

**DC**  
direct current

**DCB**  
dual channel bank

**DID**  
direct inward dial

**DLC**  
digital loop carrier

---

**F**

**FCM**  
fuse circuit module

**FDI**  
feeder distribution interface

**FLOW**  
fault locate and order wire

---

**H**

**HVAC**  
heating, ventilation, and air conditioning

---

**I**

**INA**  
integrated network access

---

**L**

**LAN**  
local area network

**LBO**  
line build out

---

## **M**

### **MDF**

main distributing frame

### **MDSU**

metllic distribution service unit

### **MIP**

methods implementation procedure

### **MLT**

mechanized loop testing

---

## **P**

### **PCM**

pulse code modulation

### **PGTC**

pair gain test controller

### **POTS**

plain old telephone service

### **PRU**

positive ringing unit

---

## **R**

### **RBOC**

Regional Bell Operating Company

### **RFU**

ringing filter unit

### **RT**

remote terminal

### **RTAC**

regional technical assistance center

### **RTU**

remote test unit

---

**S****SONET**

synchronous optical network

---

**T****TAP**

test access path

**T/R**

tip/ring

---

**V****VB**

virtual bank

**VRT**

virtual remote terminal

**VF**

voice frequency

---

**X****XTC**

extended test controller

---

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