



ATT-TELCO-812-000-082

Line Splitting Deployment M&P for NP&E

Presented in this document are the methods and procedures to implement Line Splitting equipment and layouts for both CLEC (Phase I) provisioned layouts only.

To: The primary audience for this document are ATT-13STATE personnel in the following disciplines, Switch Capacity Planner/Engineer, Transport Equipment Engineer (TEE), Facility Equipment Engineer (FEE), Digital Transport Engineer (DTE), Space Planner, Frame Planner, Long Range Technical Planners, Network Operation(LFO) and NSS organizations. This document is to be used internally within ATT-13STATE and their Authorized Vendors and have a limited distribution subject to the header/footer information.

Effective Date: 12/03/01

Issue Date: Issue 2, 10/10/06

Expires On: N/A

Related Documents: See Section 4 of this document.

Canceled Documents: ATT-TELCO-002-316-012

Business Unit: Network

Points Of Contact: See Contact List .

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INTRODUCTION

This document currently covers the following ATT Local Exchange Carriers comprised of ATT-South West, ATT West, ATT Midwest and ATT East, henceforth called ATT-13STATE. The FCC and some State Public Utility Commissions have reinterpreted the FCC order to permit another Telco other than the ILEC to provide the dial tone, or order the voice service through an Unbundled Network Element (UNE) from the ILEC for the CLECs use. ATT-13STATE is currently involved in arbitration proceedings in many of the ATT-13STATE areas that include Line Splitting. Line Splitting is the shared use of an Unbundled Loop for the provision of voice and data services to the customer's premises. As the Commission found in the Texas 271 Order, CLECs have the ability to engage in Line Splitting today under ATT-13STATE's current offerings. ATT- 13STATE supports Line Splitting where a CLEC purchases separate UNE elements and combines them with their own (or a partner CLEC's) splitter in a collocation arrangement. Specifically, the Line Sharing Order requires ATT-13STATE to provide unbundled access to the High Frequency Portion of the Loop (HPFL) only to carriers seeking to provide xDSL based service that meets one of the Commission's criteria regarding the presumption of acceptability for deployment on the same loop as the incumbent LEC's analog service. Whereas Line Sharing is only available between ATT-13STATE's incumbent LEC and a data CLEC, Line Splitting arrangements allow one CLEC to provide the voice (instead of the ATT-13STATE's incumbent LEC) and a second CLEC to provide the data. Currently, ADSL is the most widely deployed line sharing technology meeting the presumption of acceptability for deployment on the same loop as the ILEC's analog voice service. As additional xDSL based technologies that can coexist on the same loop as the analog service are demonstrated to meet the presumption of acceptability, incumbents must permit requesting carriers to deploy those technologies as well.

1. Reason For Current Issue

DATE	ISSUE	DESCRIPTION
10/05/05	1	Update author, contact list, and change reference from SBC to ATT. Reissued ATT-TELCO-002-316-012 with new number due to conflicts with the publishing software.

2. Line Splitting Scenarios

The CLEC will always provide the POTS-SPLITTER functionality within their Collocation Space and interconnect the voice and data (DSL) services from either itself or any combination of other CLECs, or from the ILEC as a UNE service. This is called an Integrated Arrangement.

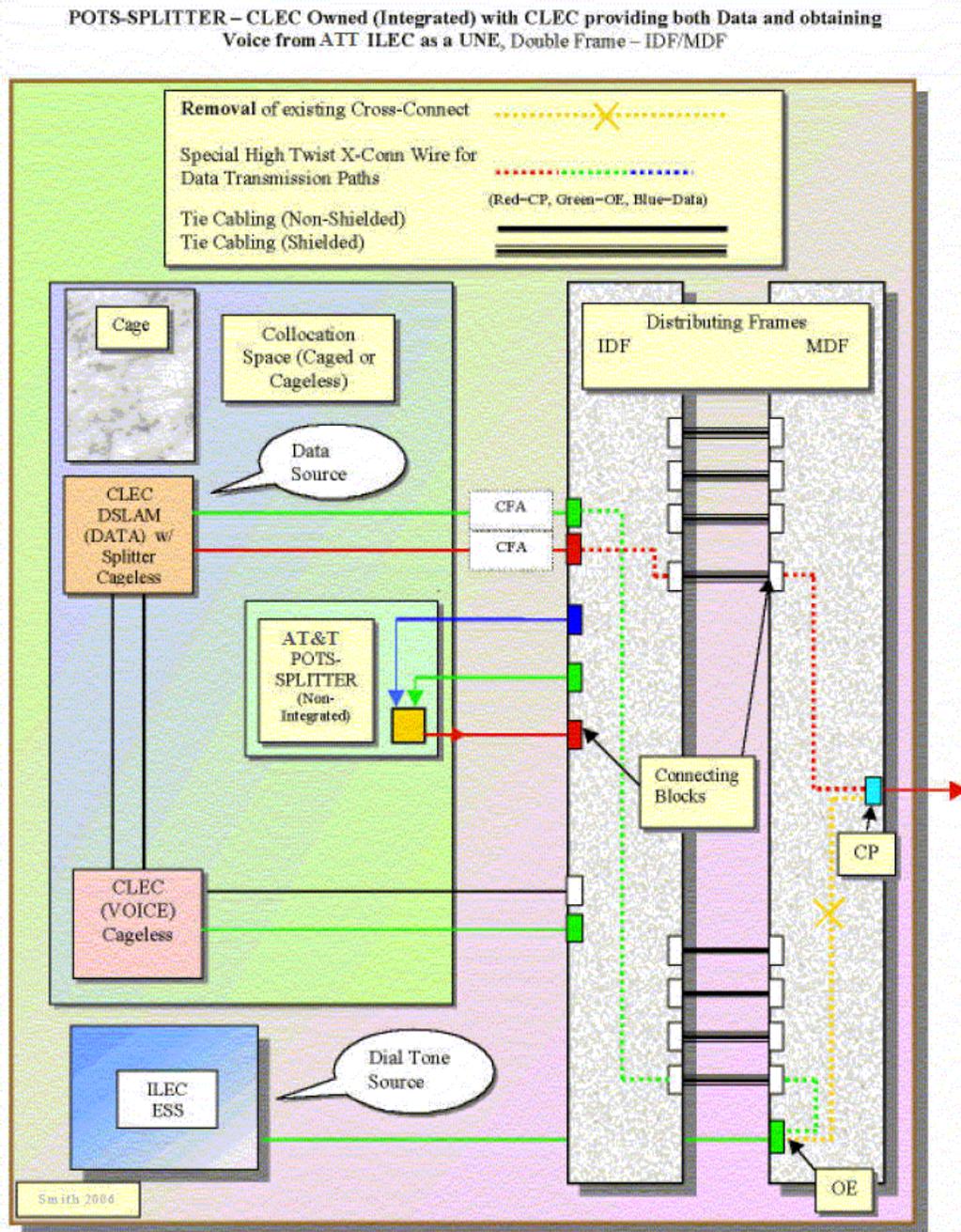
2.1. Illustrations of CLEC provisioned POTS Splitters

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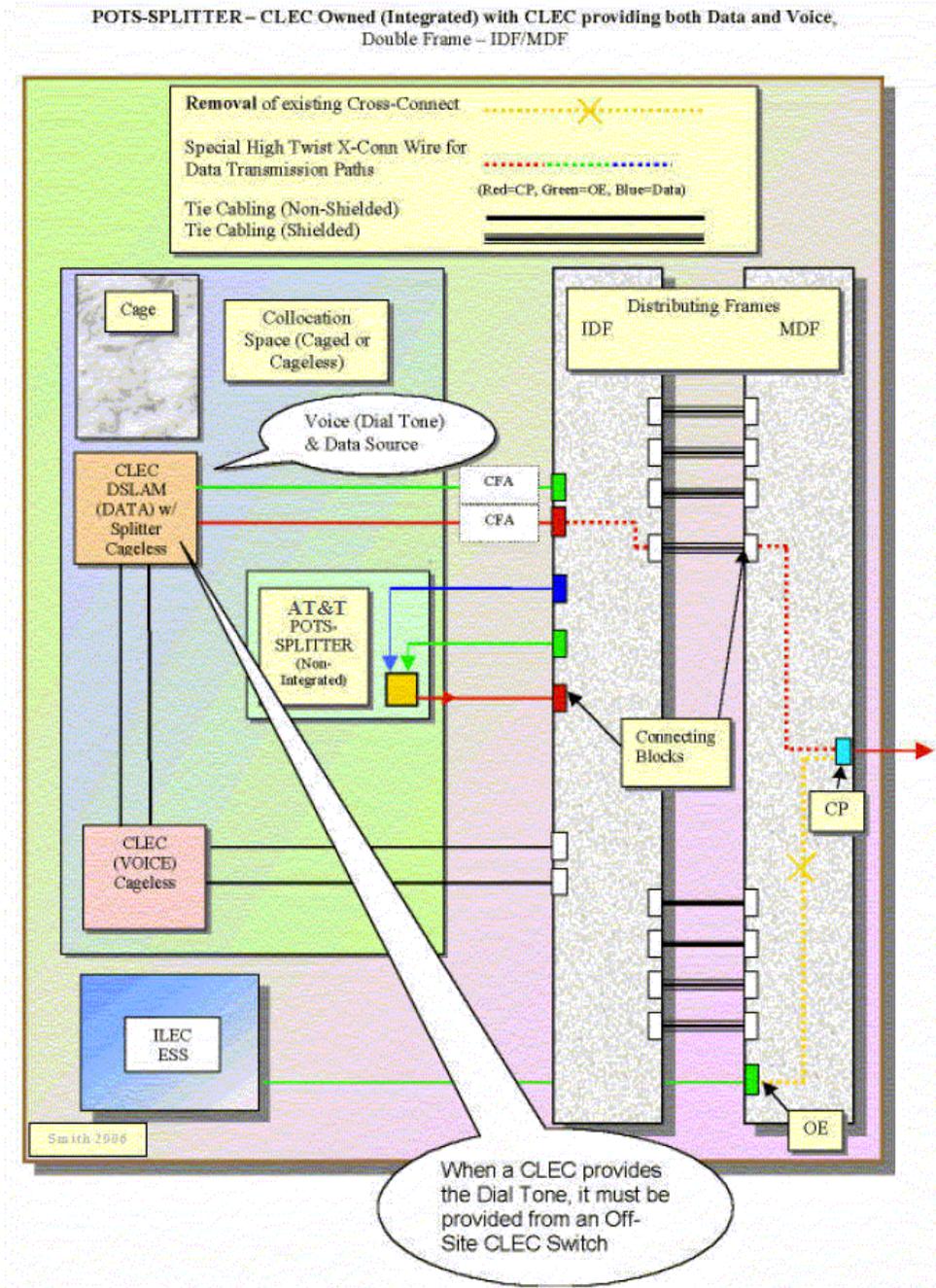


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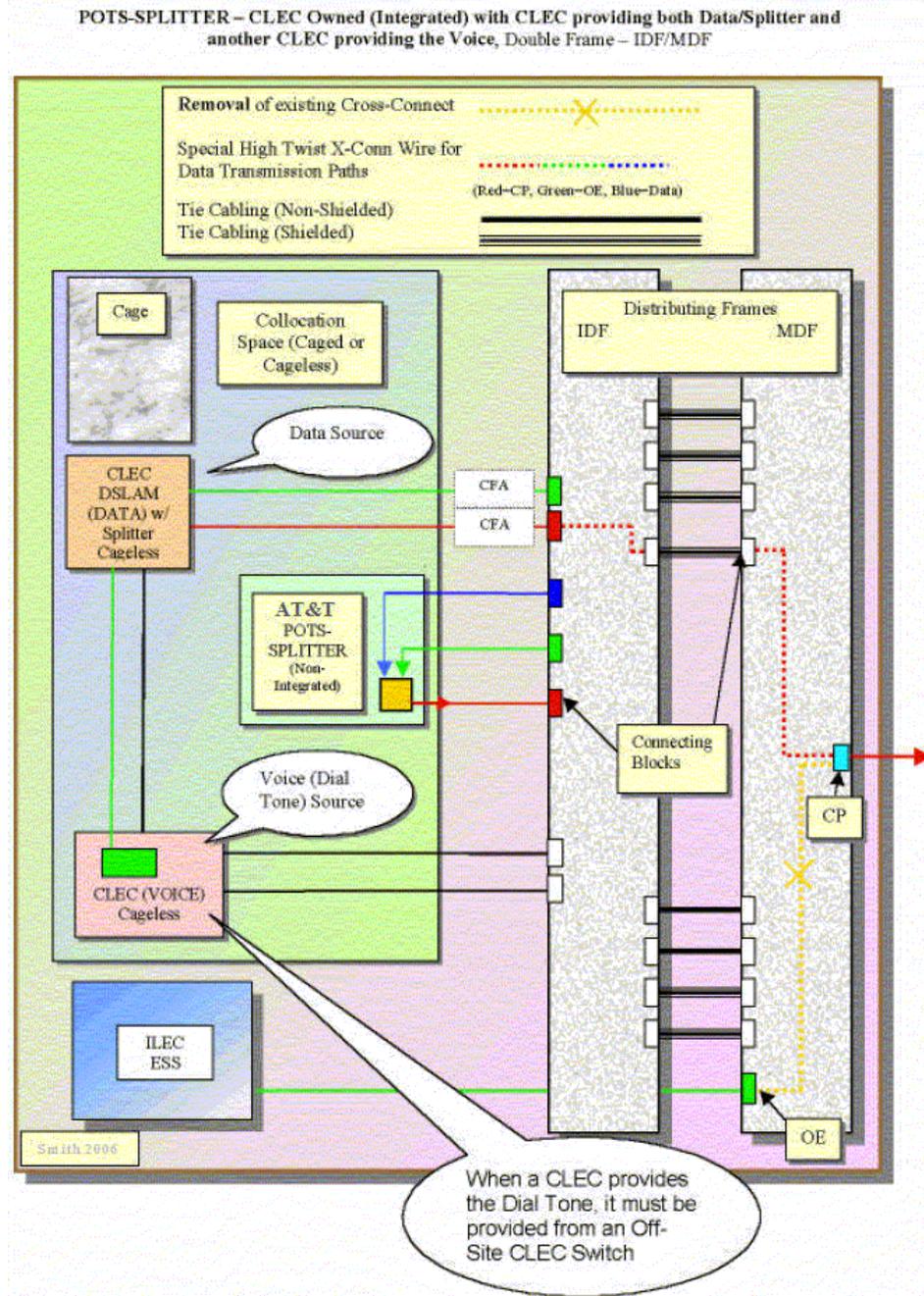


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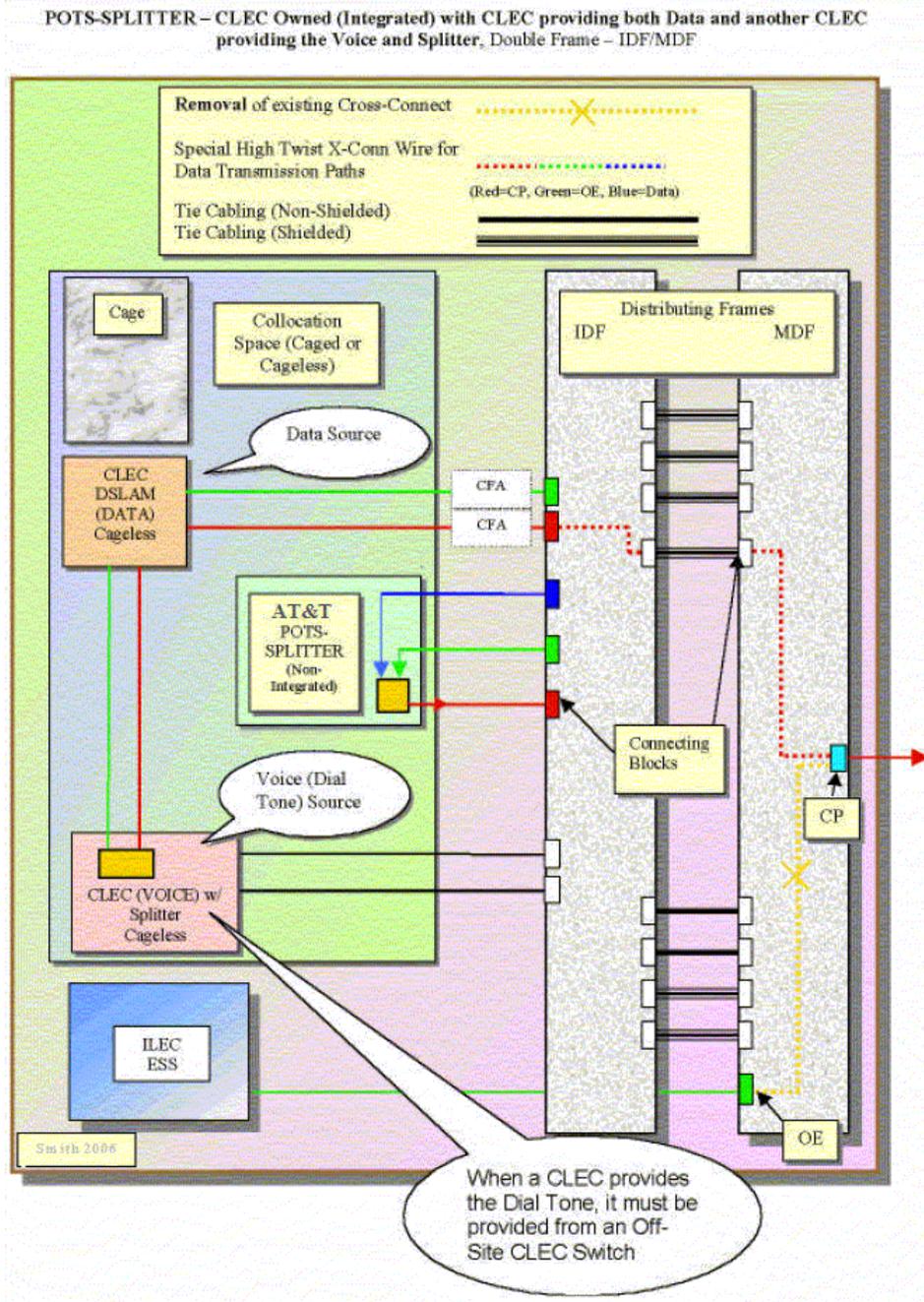


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3. Line Splitting Stipulations

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- Stipulations for Line Splitting with CLEC Provided POTS-SPLITTERS
 - The CLEC will be required to totally manage the utilization of their POTS-SPLITTER shelf capacity. If the shelf is exhausted, it will be the responsibility of the CLEC to coordinate with ATT-13STATE to provide inter-connection capacity, cabling, and terminations to support this additional CLEC equipment installation.
 - *** CHANGE*** This current Line Splitting version is managed by TIRKS, remember that Line Sharing uses a different set of placement, termination, responsibility, testing and nomenclature rules. Effective with the most recent executive decision in November 2001, Line Splitting is mandated to follow the SWITCH (POTS) flow as soon as possible. Once this change is made, the nomenclature and labeling functions will be changed from the layout shown in this document with this issue.
 - The standard CFA rules apply here. A shorthand labeling methodology is shown in the illustrations below.
 - The CLEC will manage all assignments.
 - The CLEC verses ILEC provided POTS-SPLITTER arrangements for Line Splitting will dictate different OSS use, different labeling, etc. Carefully review the illustrations for both versions.

3.1. CFA Termination Block Nomenclature & Labeling in the TIRKS flow

Cable Designation/Cable Pair/Pair #/CLLI Loc A/CLLI Loc Z

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CFA Field	Description	Required /Optional	Example
Cable Designation (5 Characters)	First 3 characters = the 9th, 10th & 11th characters of the Collocator's CLLI. The 4th & 5th characters = the Cable ID	Required	HB120 (HB1 is the CLEEC CLLI last three digits, Cable ID is 20)
Cable Type (Up to 6 Characters)	Cable Type as follows: <ol style="list-style-type: none"> 1. Non-Shielded Interconnection Arrangement = "26-NL" 2. Fiber Interconnection Arrangement = "LGLGS" 3. Shielded Interconnection Arrangement = "26-STP" 	Optional	26-STP
Pair # (up to 5 Characters, delete leading zeros)	Pair #'s (1-99999)	Required	1-100
CLLI Location A (up to 8 Characters)	CO CLLI Code	Optional	STLSMO01
CLLI Location Z (up to 11 Characters)	Collocator CLLI Code	Required	STLSMO01HB1

For the above example, the completed official CFA is as follows: HB120/26-STP/1-100/STLSMO01/STLSMO01HB1

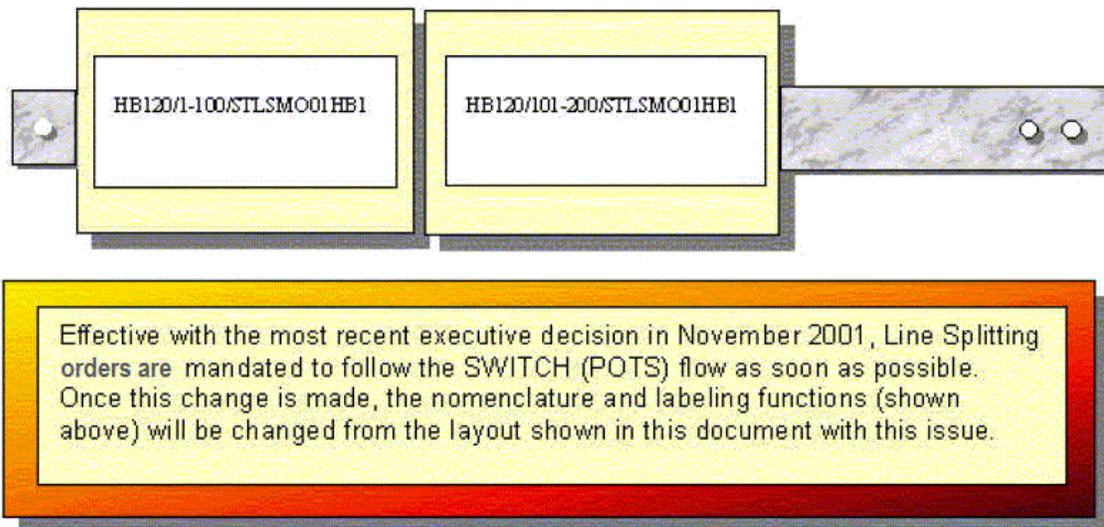
Recognizing that the CLEC is not required to provide Shielded Cable between the ILEC and the CLEC, this field is not essential and may be deleted from terminating blocks. In addition, the Central Office CLLI is not essential as well. As a result, the face of the connecting blocks may look as follows for CFA's in order to fit on the face cover:

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3.2. CFA Termination Block Nomenclature & Labeling in the SWITCH flow

CLEC provided POTS-SPLITTER Terminations The CLEC may be providing one of many types and configurations of POTS-SPLITTERS for deployment within their collocation cage, space or bay. In any case, the POTS-SPLITTER will be provisioned in an integrated mode and will terminate on the ATT-13STATE frames in a standard sequential format using separate blocks for the MEOE and the MECP. The MEDD and MEDT will not be provisioned on the ATT-13STATE frames. The data cabling portion of this arrangement will be direct cabled between the CLEC POTS-SPLITTER and the CLEC DSLAM.

All new POTS-SPLITTER cabling and terminations will be placed in 100 pair compliments on 100 pair connecting blocks on the ATT-13STATE frame. The assignments will be provisioned in order that the MEOE and the MECP terminations will not reside on the same 100 pair-connecting block. Each 100-pair count will be terminated to the same bay.

IMPORTANT: Due to the field limitations with SWITCH, all connection block counts must start with 001 and with each successive block must also have the count begin with the label 001. Counts of such as 301-400 should read 001-100. SWITCH has a three-digit limit on pair assignments.

The CLEC will be solely responsible for all assignments and will be required to reference the connecting block connection points on all service orders, trouble reports and correspondence in the manner that **ATT-13STATE** has the documentation loaded into the mechanized Operational Support Systems.

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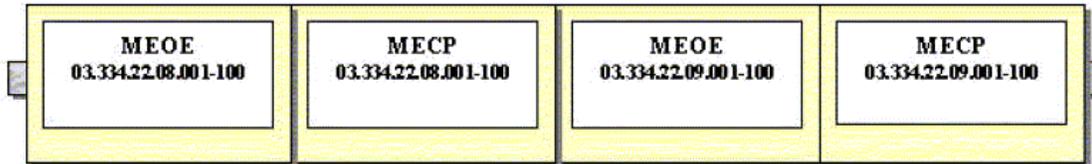
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The Pair Counts for each block will be labeled and shown in SWITCH/FOMS as follows:

- The Voice/OE Connecting Block cabled to the POTS-SPLITTER will use the pair terminology R/T for each pair on the Connecting Block.
- The Line/Cable Pair Connecting Block cabled to the POTS-SPLITTER will use the pair terminology R1/T1 for each pair on the Connecting Block.



The illustration above reflects a 400 pair layout for CLEC POTS-SPLITTERS for a maximum capability of 200 Line Splitting provisioned customers. This example shows the CLEC space at Floor 3, Aisle 334, Bay 22, Shelf 8 and 9, 100 Ports on POTS-SPLITTER.

Important Note: It is strongly recommended that the CLEC insure that all CLEC owned POTS-SPLITTERS are labeled on the face plate the ILEC provided CFA assignment. The assignment would be in 100 pair connecting blocks using the MEOE and MECP methodology described in this section.

3.3. CFA Termination Block Nomenclature & Labeling for both the SWITCH & TIRKS flows

Embedded Dual CFA Assignments

The application to request dual CFA inventory will identify the MEOE, MECP, or MEDD and CFA pairs the CLEC wants available for dual use.

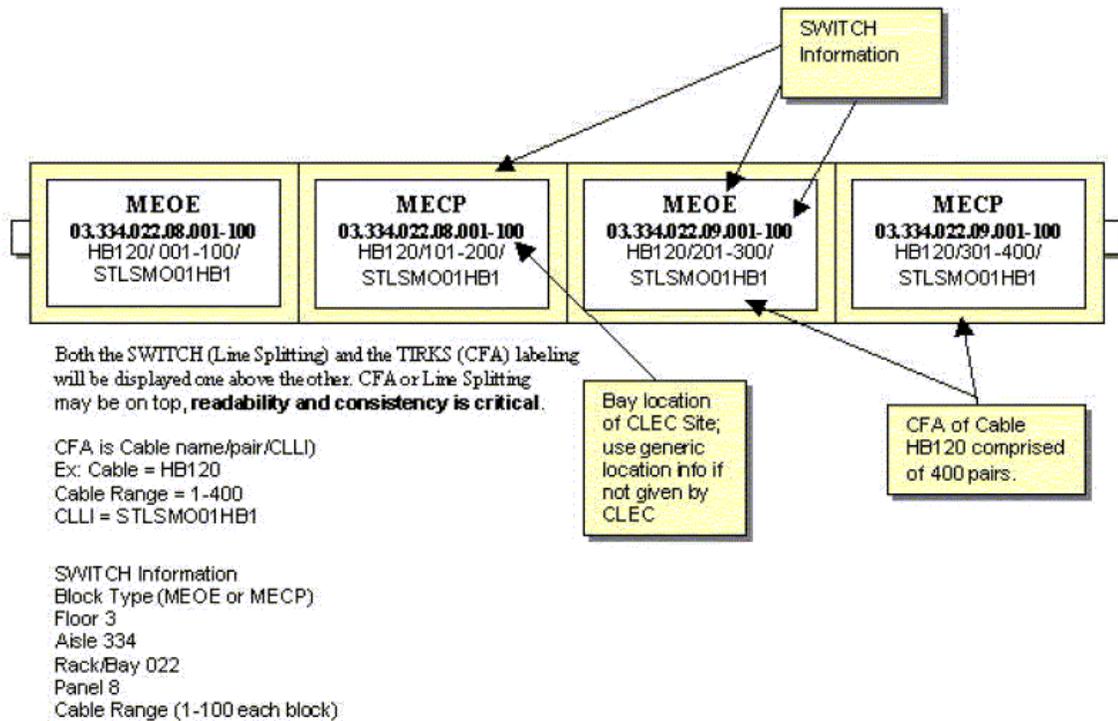
An example illustration of the labeling is as follows:

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4. Cabling of Different Manufacturing & Layouts of POTS-Splitters

- CLEC provided POTS-SPLITTERS will use the CFA process and assignments.
- All terminations on ATT-13STATE frames will follow the 1-100 sequential standard for block placements on all integrated CLEC provided POTS-SPLITTERS following the UNE standard deployment methodology.
- The CLEC POTS-SPLITTER will be required to have a "Make Before Break" cut through point for POTS services to insure POTS services are maintained when the Data card is removed.
- Any CLEC testing of the retail-POTS service must be non-intrusive unless utilizing Mechanized Loop Testing (MLT). Prior to a CLEC utilizing MLT intrusive test scripts, the CLEC must have established data service on that loop and have specifically informed the customer that service testing will interrupt both the data and voice telephone services served by that line. CLEC may not perform intrusive testing without having first obtained the express permission of the end user customer and the name of the person providing such permission. CLEC shall make a note on the applicable screen space of the name of the end user customer providing permission for such testing before initializing an MLT test or so note such information on the CLEC's trouble documentation for nonmechanized tests.
- The CLEC may use intrusive testing on its non-integrated DATA-only sections within its equipment. The retail POTS service must be continuous and cannot be opened by the CLEC.
- CLEC hereby agrees to assume any and all liability for any such testing it performs, including the payment of all costs associated with any damage, service interruption, or other telecommunications service degradation or damage to ATT-13STATE's facilities and hereby agrees to release, defend and indemnify ATT-13STATE, and hold ATT-13STATE harmless, from any claims for loss or damages, including but not limited to direct, indirect or consequential damages, made against ATT-13STATE by an end user customer, any telecommunications service provider or telecommunica-

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tions user relating to such testing by CLEC.

5. Operational Support Systems

5.1. Collocation Process

Collocators that want to order services in an unbundled line splitting arrangement will need to place a Collocation Application (new or augment) through Industry Marketing Service Center (ICSC). If they place an Augment Collocation Application, the collocator will need to specify if they will use existing shielded DS0 interconnection pairs (cable name and pair range) or are ordering new interconnection DS0 cable specifically for line splitting and UNE capability.

5.2. Network Sales Support (NSS)

Once the Augment Application has been verified it is forwarded to NSS for implementation. NSS will issue the Directive/Application to the Facility/Digital/Transport Equipment Engineer. The Directive/Application needs to include the following:

- Type of POTS-SPLITTER, e.g. Physical Ownership
- Use CFA Nomenclature and assignments if CLEC owned POTS-SPLITTER.
- Cable name and range of pairs: new, augment of additional pairs, or reuse of existing pairs.
- Pairs will be used for Line Splitting and UNE orders. Both POTS-SPLITTER or MEDD and CFA (Connecting Facility Assignment) pairs for UNEs need to be inventoried in TIRKS and SWITCH/FOMS.

5.3. Transport Equipment Engineer (TEE/FEE/DTE)

The TEE will receive the Directive/Application from NSS requiring a job to provide DS0 cable pairs for Line Splitting for a collocator. The Directive/Application will include the cable name and pair range and if it's new or reuse of existing cable. When the collocator provides/owns the POTS-SPLITTER it will always be inventoried and assigned as Integrated even when it is physically Non-Integrated.

The TEE will contact the Common Systems Frame/Space Planner (CSFSP) to determine if an IDF exists or will one be installed. The CSFSP is responsible for providing the H-IDF/H-MDF frame, zone, vertical, and H-Shelf where the POTS-SPLITTER terminating blocks will be installed. The CSFSP is also responsible for initiating a job to install an IDF if required and to determine if shielded tie pairs are required between the IDF and MDF. The Central Office Engineer (COE) will write the job to install the IDF and shielded tie pairs and submit the input of the shielded tie pairs to the SWITCH Database Input Manager.

6. Related Documents

For further information or electronic copies of this document and related information, visit either of the internal SBC Local Exchange Carrier Web sites: <http://ebiz.sbc.com/commonsystems/> or <http://apex.sbc.com>

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Document	Description
ATT-TELCO-002-203-001, Section 18	Transport-Infrastructure Deployment Guidelines (IDG) for POTS Splitters
ATT-TELCO-002-216-025, Section 11	Switch-Infrastructure Deployment Guidelines (IDG) Main Distributing Frames
ATT-TELCO-002-316-001	UNE Deployment in the Central Office
ATT-TELCO-002-316-002	Collocation Provisioning Guidelines(CPG) M&P
ATT-TELCO-002-316-003	Frame Forecast M&P
ATT-TELCO-002-316-004	Tie Pair Management on MDF/IDF Frames
ATT-TELCO-002-316-005	POTS-SPLITTER Management M&P
ATT-TELCO-002-316-006	Line Sharing Deployment M&P
ATT-TELCO-002-316-008	CLEC Cable Placement & Removal M&P
ATT-TELCO-002-316-009	ADSL for the Central Office M&P
ATT-TELCO-002-316-015	Discontinuance of CLEC Equipment/Wiring M&P
Appendix 1, SBC-002-316-015	Discontinuance Cost Worksheet
ATT-TELCO-002-316-047	NP&E Finance Cost M&P
ATT-TELCO-002-316-101	Wire Center Planning M&P, Space
ATT-TP-76200	SBC-Network Equipment - Building Systems
ATT-TP-76300	SBC-Installation Guide within the Central Office
ATT-TP-76400	SBC-Detail Engineer Requirements for the C.O.
ATT-TP-76900	SBC-Installation Standard Requirements
PAN 20001017	96-port POTS-SPLITTER Approval for Use
PAN 20001134	128-port POTS-SPLITTER Approval for Use
PAN 19995316	Connector Blocks Approval for Use
PAN 19985029	Covers for Unit Protector and Cross- Connect fields for ADSL/xDSL Approval for Use
PAN 19985018	Tight Twist Wire for 1.544 Mb/s/T1 Approval for Use
PAN 19985037	Cover for Unit Protectors & Cross- Connect Fields for T1/1.544 Mb/s Approval for Use
PAN 19985036	Cover for Unit Protector & Cross- Connect Fields for High Voltage Approval for Use
SRP-203-236	Corning Cable Systems-96-Channel ADSL POTS-SPLITTER Rack-Mount Shelf-Type B Connector

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7. Contact List

Name	SBCUID	Phone #	Department / Responsibility
Dave smith	ds2375	(818) 713-7308	Area Manager - Enterprise Technology Support - Common Systems
Ernest Riojas	er0873	(214) 858-0816	Area Manager-Enterprise Technology Support (Collocation Support)
Sha Hoda	sh3259	(281) 983-4883	Area Manager - Enterprise Technology support
Ed Granger	eg1724	(203) 553-8180,	Area Manager - Enterprise Technology Support - Common Systems
Bill Markwell	wm2967	(847) 248-2855	Senior Contract Manager

8. Revision Log

DATE	ISSUE	DESCRIPTION
10/05/05	1 (ATT-TELCO-812-000-082)	Update author, contact list, and change reference from SBC to ATT. Reissued document under new number due to conflicts with the publishing software.

Acronyms

A.1. Document Specific Acronyms

None

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A.2. Network Acronyms Dictionary

[Refer to ATT-000-000-020, Network Acronyms Dictionary.](#)

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