



SBC-002-316-012

Line Splitting Deployment M&P (Phase 1) for NP&E

Abstract

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

Audience: The primary audience for this document are SBC-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 SBC-13STATE and have a limited distribution subject to the header/footer information. This M&P may be found on the Internal Web Sites listed in the Reference Section of this document.

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1. Reasons for Reissue

Issue 4, Section 2, Paragraph A: New Box highlights that Line Splitting is not Line Sharing and cannot be used with a Dual CFA.

Issue 4, Section 3, Paragraph C: Deleted.

Issue 4, Section 3, Paragraph D: Deleted.

Issue 4, Section 5, Paragraph B: New Box highlights that Line Splitting is not Line Sharing and cannot be used with a Dual CFA.

Issue 4, Section 5, Paragraph B: Dual CFA is not to be used and shall be rejected back to the requestor.

Issue 4, Section 5, Paragraph C: Dual CFA requests will not be performed.

Issue 4, Section 6, Reference section updated in its entirety.

Issue 3, Section: All: Updated Terminology on Line Splitting.

Issue 3, Section 2, Paragraphs C: Reference that CLEC Dial Tone will be provided from an Off-Site CLEC Switch.

Issue 3, Section 2, Paragraphs D: Reference that CLEC Dial Tone will be provided from an Off-Site CLEC Switch.

Issue 3, Section 2, Paragraphs E: Reference that CLEC Dial Tone will be provided from an Off-Site CLEC Switch.

Issue 3, Section 3, Paragraph A: Corporate direction change for Line Splitting to be managed in the SWITCH (POTS) flow instead of the TIRKS (Specials) flow for **SBC-13STATE**.

Issue 3, Section 3, Paragraph B: Corporate direction change will require modification for nomenclature and labeling of equipment and connecting blocks.

Issue 3, Section 3, Paragraph C: New, Line Splitting Labeling in the SWITCH (POTS) flow.

Issue 3, Section 3, Paragraph D: New Line Splitting Labeling in both the SWITCH (POTS) & TIRKS (SPECIALS) flows.

Issue 3, Section 6: Reference Section updated.

Issue 3, Section 7: Contact Section updated in its entirety.

Issue 2, Section: All: Document is modified to only show the CLEC (Phase 1) only.

2. Introduction

2A. Overview

This document currently covers the following SBC Local Exchange Carriers comprised of SBC-Southwestern Bell Telephone, SBC-Nevada Bell, SBC-Pacific Bell, SBC-Ameritech and SBC-Southern New England Telephone, henceforth called **SBC-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. **SBC-13STATE** is currently involved in arbitration proceedings in many of the **SBC-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 **SBC-13STATE**'s current offerings. **SBC-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 **SBC-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 **SBC-13STATE**'s incumbent LEC and a data CLEC, Line Splitting arrangements allow one CLEC to provide the voice and data on the same loop or two CLECs can share the loop, one providing voice and the other the data. Currently, ADSL is the most widely deployed 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 co-exist 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.

Line Splitting takes the following scenario:

- Phase I: The CLEC (or CLECs) will always provide the POTS-SPLITTER, as well as combine the individual UNEs:
 - A Single CLEC can provide both voice and data services in a Line Splitting arrangement. One CLEC wishing to provide voice service and another CLEC wishing to provide the data service can engage in Line Splitting, even if both CLEC's have separate collocation spaces. Two different CLECs can share a collocation space to engage in Line Splitting¹
 - CLECs can choose to provide their own voice service for Line Splitting through the use of an off-site switch, or the CLECs can order a UNE switch port from **SBC-13STATE**.

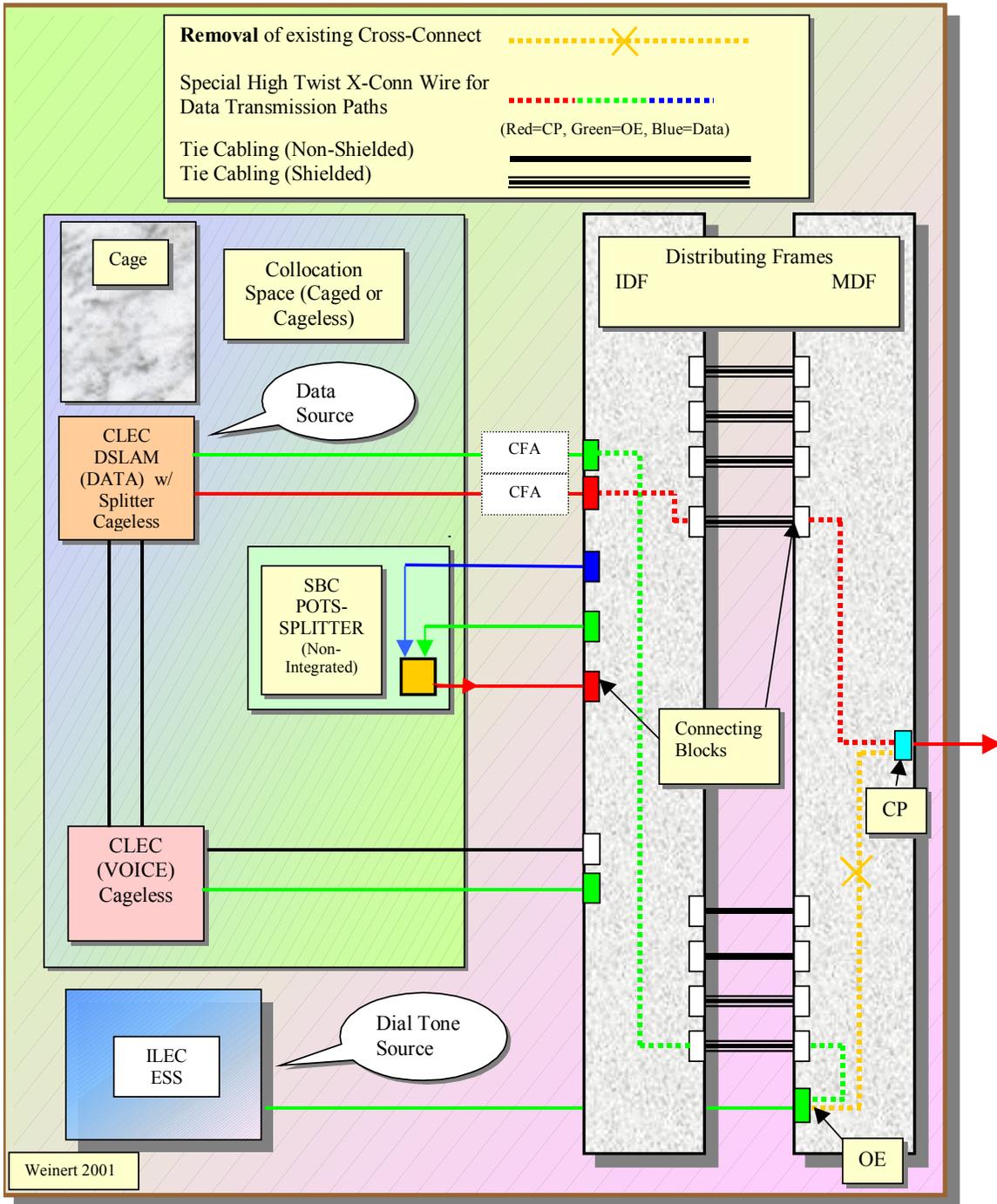
Line Splitting is not Line Sharing.

UNE provisioning is provided in only one Operational Support System (OSS) per region, and as such, cannot be requested in a dual mode. **Therefore, requests from a CLEC for Dual CFA for Line Splitting are not applicable or appropriate.** (Requests for Dual CFA are only appropriate for Line Sharing.)

¹ A voice CLEC can partner with a data CLEC (collocated). In situations as such, the voice provider can order an UNE-Switch port to the data provider's collocation space, where the CLEC's combine the UNE's.

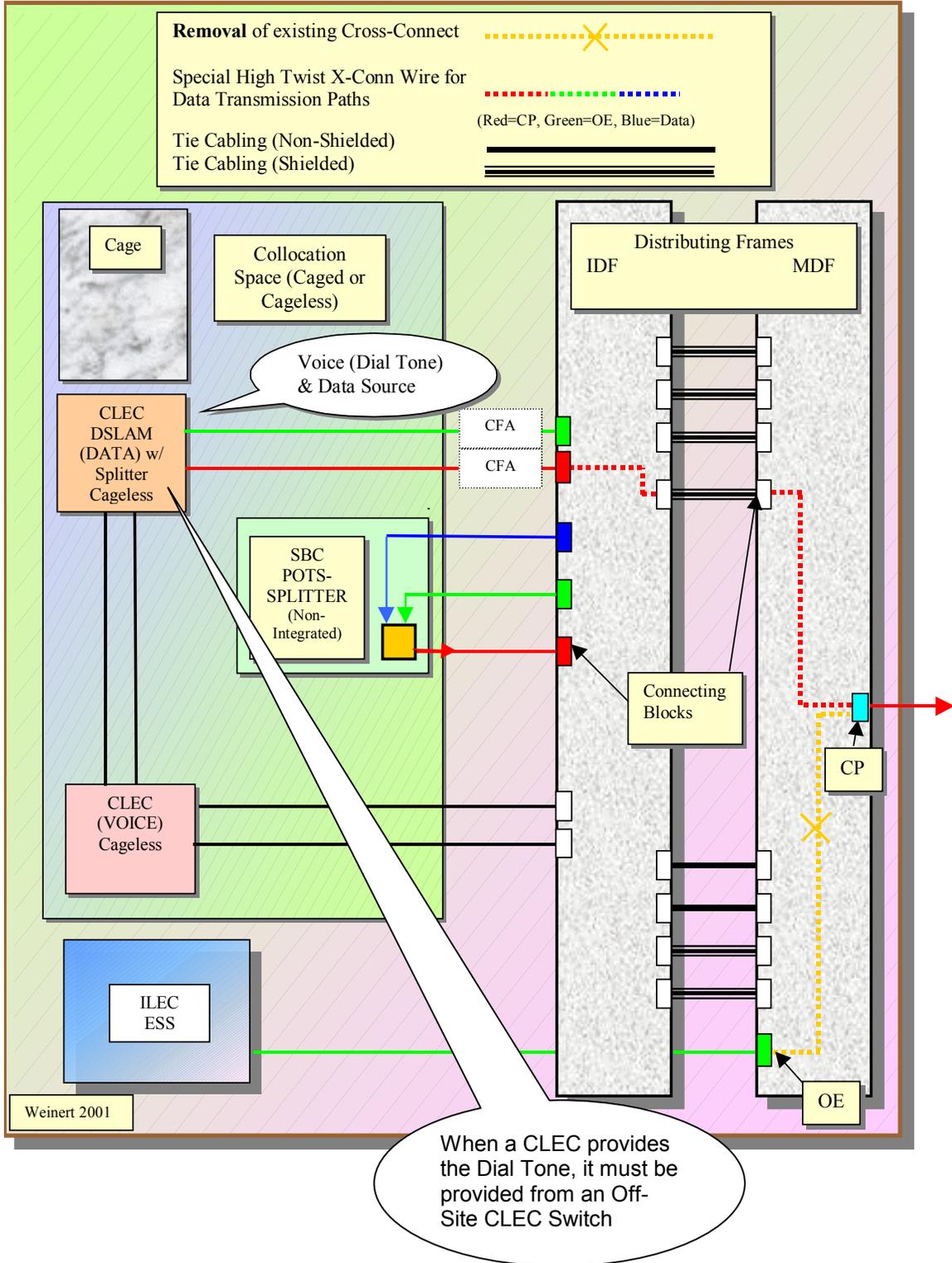
2B. Illustration of the CLEC provisioned POTS-SPLITTER

POTS-SPLITTER – CLEC Owned (Integrated) with CLEC providing both Data and obtaining Voice from SBC ILEC as a UNE, Double Frame – IDF/MDF



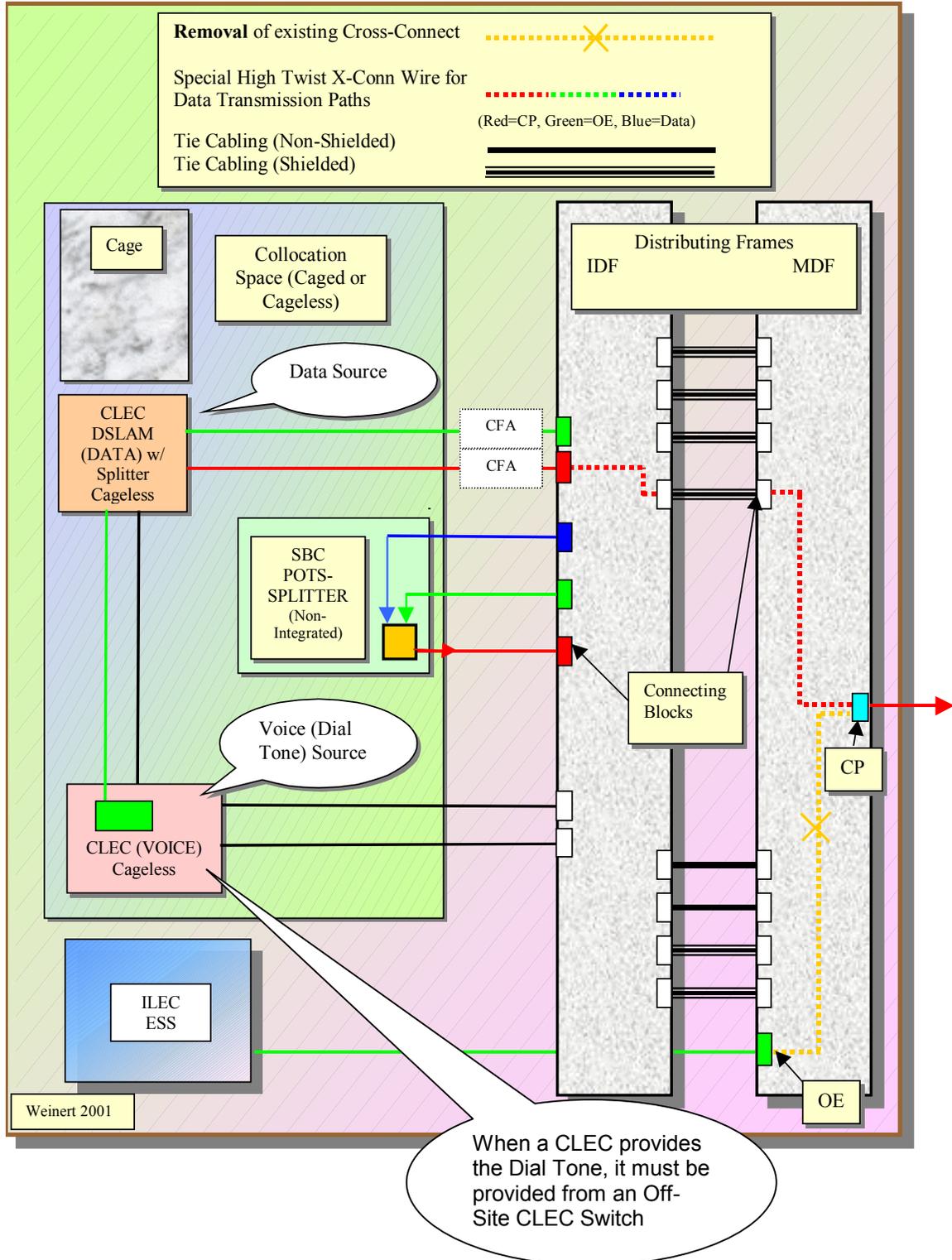
2C. Illustration of the CLEC provisioned POTS-SPLITTER

**POTS-SPLITTER – CLEC Owned (Integrated) with CLEC providing both Data and Voice,
 Double Frame – IDF/MDF**



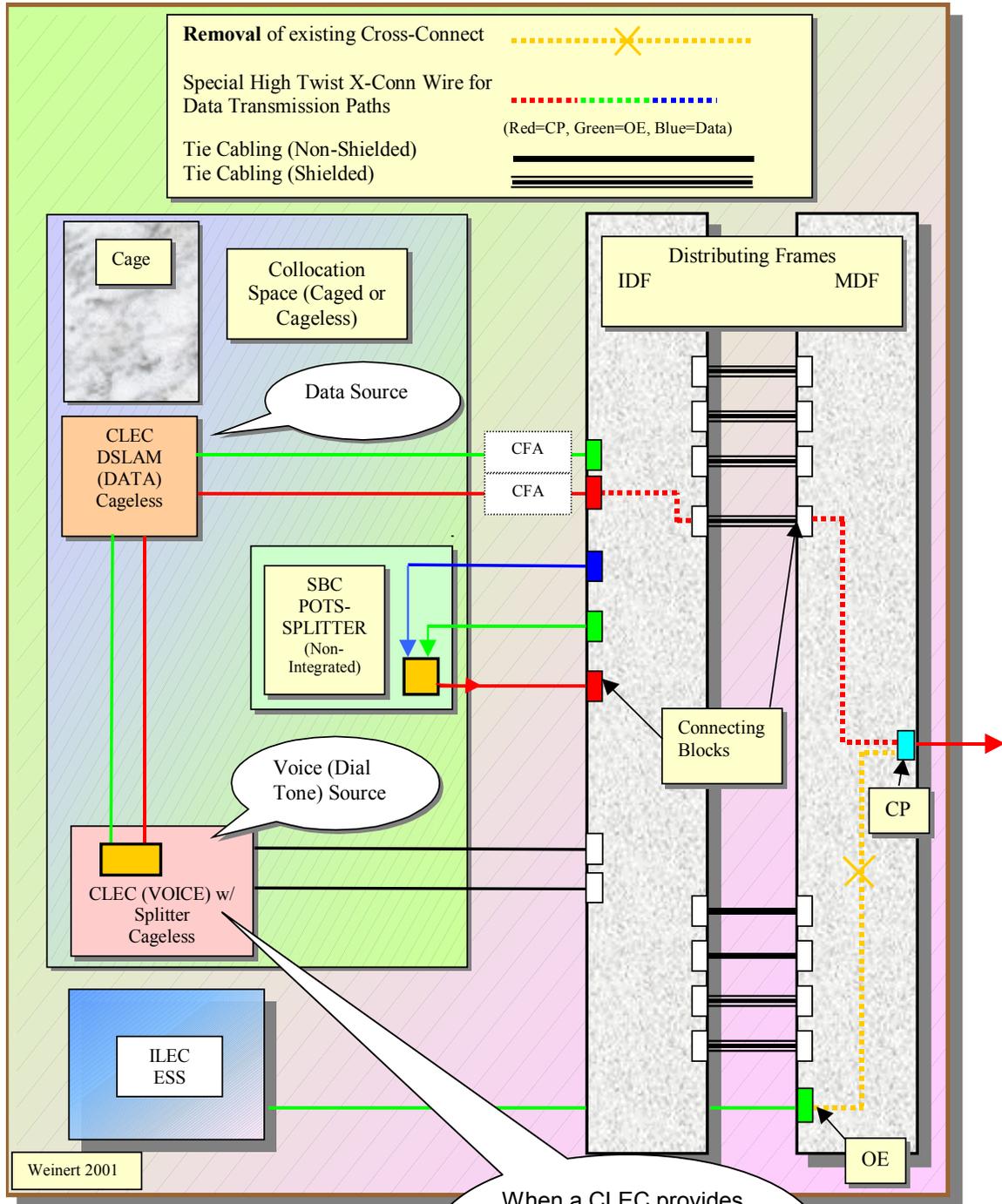
2D. Illustration of the CLEC provisioned POTS-SPLITTER

POTS-SPLITTER – CLEC Owned (Integrated) with CLEC providing both Data/Splitter and another CLEC providing the Voice, Double Frame – IDF/MDF



2E. Illustration of the CLEC provisioned POTS-SPLITTER

POTS-SPLITTER – CLEC Owned (Integrated) with CLEC providing both Data and another CLEC providing the Voice and Splitter, Double Frame – IDF/MDF



When a CLEC provides the Dial Tone, it must be provided from an Off-Site CLEC Switch

3. Line Splitting Stipulations

3A. Line Splitting (Phase I) CLEC Provided POTS-SPLITTER Stipulations

- 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 **SBC-13STATE** to provide interconnection capacity cabling & terminations to support this additional CLEC equipment installation.
- Cable count is sequential by cable count, not by block.
- ***** CHANGE***** This current Line Splitting version is managed by TIRKS in SBC-Ameritech, SBC-Southwestern Bell telephone and SBC-Southern New England Telephone with SBC-Pacific Bell and SBC-Nevada Bell handling their UNEs in SWITCH only. Remember that Line Sharing uses a different set of placement, termination, responsibility, testing and nomenclature rules.
- 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.

3B. CFA Termination Block Nomenclature & Labeling in the UNE flow

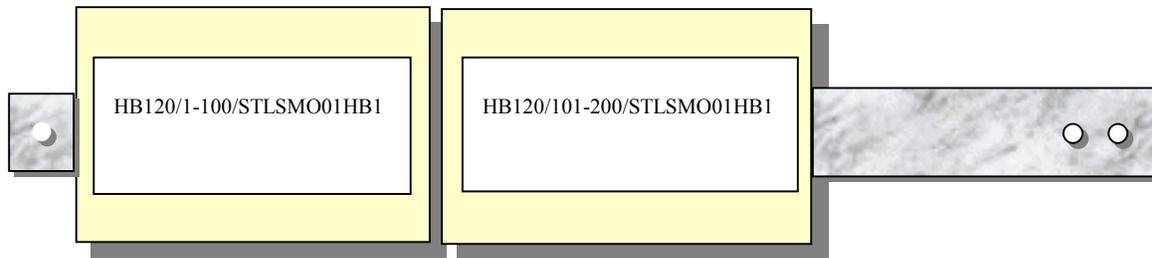
Cable Designation/Cable Pair/Pair #/CLLI Loc A/CLLI Loc Z

CFA Field	Description	Required /Optional	Example
Cable Designation (5 Characters)	First 3 characters = the 9 th , 10 th & 11 th characters of the Collocator's CLLI. The 4 th & 5 th characters = the Cable ID	Required	HB120 (HB1 is the CLEC CLLI last three digits, Cable ID is 20)
Cable Type (Up to 6 Characters)	Cable Type as follows: 1. Non-Shielded Interconnection Arrangement = "26-NL" 2. Fiber Interconnection Arrangement = "LG-LGS" 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:



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 **SBC-13STATE** has the documentation loaded into the mechanized Operational Support Systems.

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

- CLEC provided POTS-SPLITTERS will use the CFA process and assignments.
- All terminations on **SBC-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, 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 non-mechanized 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; such as MLT, including the payment of all costs associated with any damage, service interruption, or other telecommunications service degradation or damage to **SBC-13STATE**'s facilities. CLEC hereby agrees to release, defend and indemnify **SBC-13STATE**, and hold **SBC-13STATE** harmless, from any claims for loss or damages, including but not limited to direct, indirect or consequential damages, made against **SBC-13STATE** by an end user customer, any telecommunications service provider or telecommunications user relating to such testing by CLEC.

5. Operational Support Systems

5A. 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.

5B. 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.
- Dual CFA is not appropriate for Line Splitting and should be rejected back to the requestor.
- Pairs will be used for Line Splitting and UNE orders. Both the CLEC owned POTS-SPLITTER and CFA (Connecting Facility Assignment) pairs for UNEs need to be inventoried in TIRKS for SBC-Ameritech, SBC-Southwestern Bell, SBC-Southern New England and in SWITCH for SBC-Pacific Bell and SBC-Nevada Bell. (SBC-PB and SBC-NB place their UNE inventory in SWITCH; this is different from SWITCH Line Sharing. See highlighted box on the next page:

5C. 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, if one will 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.

Dual CFA requests will not be performed for Line Splitting. Refer to SBC-002-316-006, *Line Sharing Deployment M&P*, Issue 9, dated October 2001 for Dual CFA applicability with Line Sharing only.

6. References

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>

Document	Description	Issue & Date
SBC-002-203-001, Section 18	Transport-Infrastructure Deployment Guidelines (IDG) for POTS-SPLITTERS	Issue 1, Aug 2001
SBC-002-316-001	UNE Deployment in the Central Office	Issue 2.1, Jan 2001
SBC-002-316-002	Collocation Provisioning Guidelines (CPG) M&P	Issue 13, Dec 2001
SBC-002-316-003	Frame Forecast M&P	Issue 8, May 2001
SBC-002-316-004	Tie Pair Management on MDF/IDF Frames	Issue 1, Jan 2001
SBC-002-316-005	POTS-SPLITTER Management M&P	Issue 1, Nov 2001
SBC-002-316-006	Line Sharing Deployment M&P	Issue 9, Oct 2001
SBC-002-316-007	Special Interconnection Arrangement (SIA-BFR)	Issue 4.1, Jan 2001
SBC-002-316-008	CLEC Cable Placement & Removal M&P	Issue 7, Jan 2002
SBC-002-316-009	ADSL for the Central Office M&P	Issue 12.1, Jan 2001
SBC-002-316-010	CLEC Line Sharing (CLEC Version)	Issue 7.0, Nov 2000
SBC-002-316-012	Line Splitting Deployment M&P	Issue 4, Jan 2002
SBC-002-316-015	Discontinuance of CLEC Equipment/Wiring M&P	Issue 3, Oct 2001
Appendix 1, SBC-002-316-015	Discontinuance Cost Worksheet	Issue 3.1, Nov 2001
SBC-002-316-047	NP&E Finance Cost M&P	Issue 1, Jul 2001
SBC-002-316-075	SWITCH Inventory Gateway M&P	Issue 1, Jul 2001
SBC-002-316-101	Wire Center Planning for the Central Office M&P	Issue 8, Dec 2001
TP 76200MP	SBC-Network Equipment – Building Systems	Issued 2001
TP 76300MP	SBC-Installation Guide within the Central Office	Issued 2001
TP 76400MP	SBC-Detail Engineer Requirements for the C.O.	Issued 2001
TP 76900MP	SBC-Installation Standard Requirements	Issued 2001

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