SBC-002-316-007
SPECIAL INTERCONNECTION ARRANGEMENT (SIA)

Abstract

Presented in this document are the methods and procedures to implement SIA in the SBC Central Office environment.

Audience: SBC ILEC Space Planners, Frame Planners, Transport Equipment Engineers (TEE), Long Range Technical Planners. The secondary audience within the SBC Local Exchange Carriers is the Network Operations/Local Field Operations (LFO), Corporate Real Estate (CRE), Network Sales Support (NSS) and the Collocation Services organizations.
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Related Documents: See Reference Section of this document.
Canceled Doc: Supercedes Special Interconnection Arrangement, Issue 3, Mar 1999 & 4.0 of this document.
Issuing Dept: SBC Services, Network Planning & Engineering
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Special Interconnection Arrangement for the Central Office

1.REASONS FOR REVISION

Issue 4.1, Section 2, Paragraph 4: Reference made to frame and block placements in SBC-002-316-003, *Frame Forecast M&P*, Issue 7, dated Jan 2001.

Issue 4.1, Section 4: The Standard Cable termination block has changed to the Corning Cable Systems 391.

Issue 4.1, Section 9: Documentation References are updated.

Issue 4.1, Section 10: Contact List Added.

Issue 4.1, Section 11: Copyright Page Added.

Special Interconnection Arrangement (SIA) for the Central Office

Also known as "Adjacent Location"

2.GENERAL

2.0 The SBC Local Exchange Carriers may provide a Special Interconnection Arrangement at the request of a Collocator. The CLEC may purchase copper cable facilities and request that they be interconnected within the SBC Local Exchange Carrier Central Office. This document will cover the primary requirements and placements within the Central Office. This SIA process encompasses the Bonafide Request (BFR), as it is currently defined.

2.1 The Central Office will have all Special Interconnection Arrangements placed on the Intermediate Distributing Frame (IDF) in the same manner as the Unbundled Network Elements provisioning outlined in Methods 1, 2, 3 and 5 of TP76860, Issue 3, dated November 1998.

2.2 The CLEC will be required to pay for all Engineering, Installation and Facility (Equipment) installations for all efforts to place provisioning cable and related equipment associated with SIA requests. The IDF for the purposes of this discussion is not the Subscriber Main Distributing Frame (SMDF), whether it is a Conventional or Universal Modular Frame (COSMIC), where SBC Local Exchange Carrier OE/LEN and copper pairs are terminated. The IDF is another frame other than the SMDF being located within the C.O. which by requirement, must be a conventional frame used for CLEC and SBC Local Exchange Carriers services. The CLEC services have their assignments and locations managed by the Trunk Integrated Records Keeping System (TIRKS) or SWITCH/FOMS depending on the region. The IDF will be the block termination point for all CLEC Voice frequency blocks, ADSL, designed DS0 services, DS1 services, all ADSL/DSL services for both SBC Local Exchange Carrier and CLEC's, Unbundled Network Elements (Method 1, 2, 3, and 5), CLEC

termination points from all POT Cabinets/Bays, CLEC Virtual Terminations, and the Special Interconnection Arrangement (SIA).

2.3 The CLEC will be required to pay for all Engineering, Installation and Facility (Equipment) installations for all efforts to place provisioning cable and related equipment associated with SIA requests. Request for adjacent locations are priced on an Individual Case Bases (ICB). A Bona fide/INER (Interconnection Network Element Request) request must be sent to the Local Interconnection Account Manager for this product.

2.4 Refer to SBC-002-316-003, *Frame Forecast M&P*, Issue 7, dated Jan 2001 for placement and frame growth methods within SBC Central Offices.

It has been our goal to have CLEC terminations, as well as our own terminations for special circuits (D4, T1, HDSL, and ADSL) placed onto an IDF instead of the SMDF. Our intent is to avoid premature exhaust of the SMDF, which are designed for a 20 year capacity to support our cable pairs (and derived pairs), OE/LEN switch terminations, and tie pairs to other frame locations.

An IDF, placed strategically, can postpone the cost of an MDF replacement for years (which run in the millions of dollars). CLEC's have to pay for IDF growth along with the all associated interconnection and miscellaneous equipment. From this point on, all miscellaneous services highlighted above, including ADSL/DSL and Collocation terminations will be terminated on an IDF and not the SMDF.

Other existing secondary frames that may be used for an IDF could be TOLL Frames, TMDF Frames, TPDF Frames, etc. In locations where an existing single frame is too large for any long-term use, a consideration may be made to remove portions of the frame for reuse at other locations and developing a second frame for use as an IDF from the remaining frame verticals. **It is critical that all locations exercise Frame Compression Management at <u>every</u> opportunity to spare frame capacity.**

3.NETWORK ENGINEERING METHODS

3.1 The CLEC will not place any cross-connects or cabling or attach to any SBC Local Exchange Carrier cable racks of any kind in the Central Office except for connections to Point of Termination (POT) located in a CLEC Cage or at a POT bay located in the CLEC Cage or

within the Common Cage equipment area. This will include core drilling between floors as necessary.

3.2 This cable will be placed in SBC Local Exchange Carrier cable racks and will be terminated on the Intermediate Distributing Frames (IDF) using an angled connector and 5 pin protectors further described in this document. When the CLEC service request only specifies to place their cable directly on a generic term of a "Distributing Frame"; the CLEC must advised of our standard termination expectations on an Intermediate Distributing Frame and interconnection expectations with their service request.

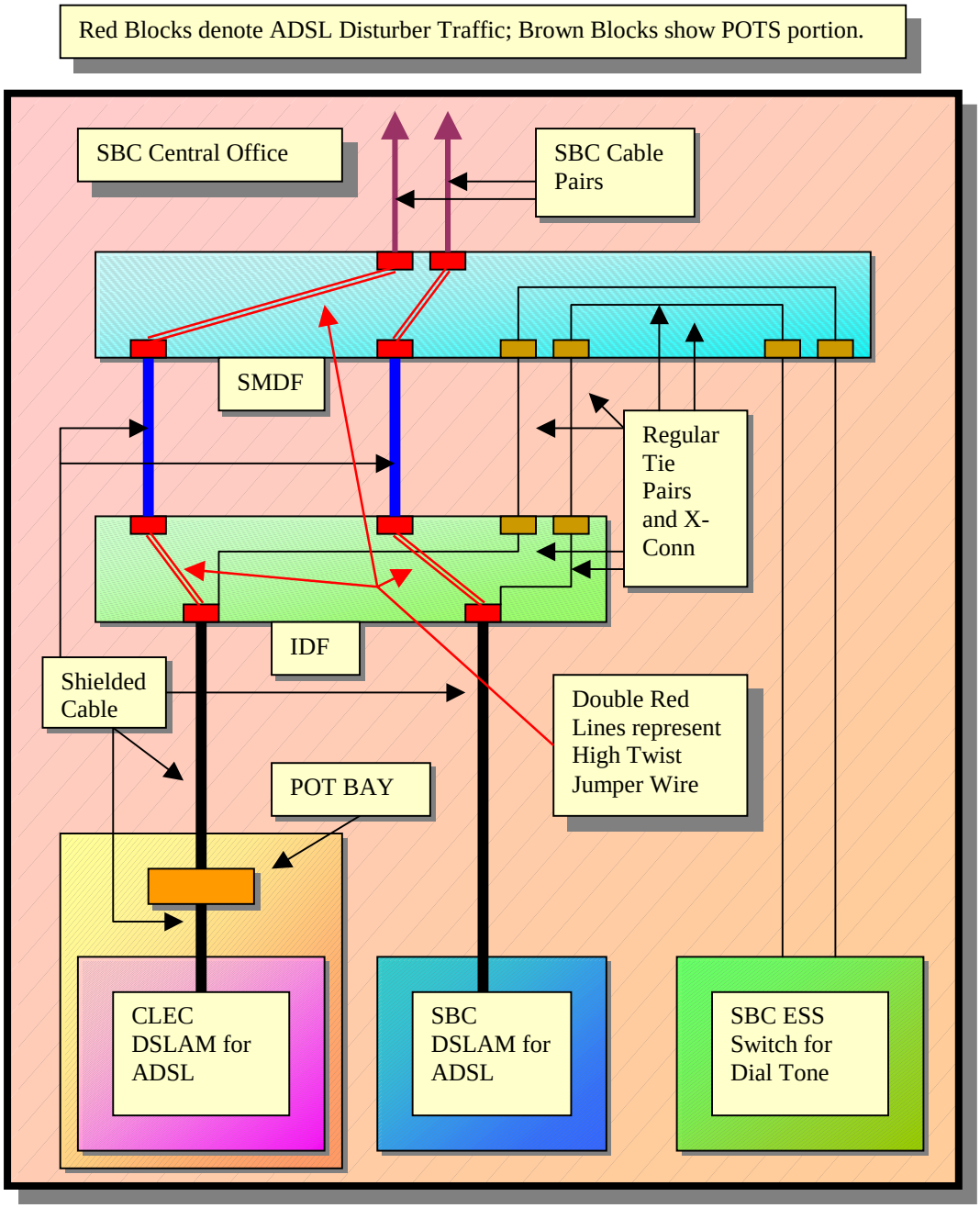
3.3 The CLEC must be advised that they will be required to pay for the required growth of the frame (both horizontal and vertical), and all connectors, protectors, etc. associated with their request. In the service request agreement, the CLEC must specify the **amount** and **type** of Tie Pairs and where they intend to interconnect with the Local Exchange Carrier in the Central Office. The CLEC will maintain assignment control.

3.4 Sufficient tie facilities to support the shielded and non-shielded services must be ordered in the initial request to meet the CLEC expectations and interconnect to the appropriate locations (read frames) within the Central Office. The space and redistribution requirements necessary on the frames will be paid by the CLEC to accommodate their needs. It should be noted here that for the CLEC the total number of tie pairs may not equal the cable terminations due to a need to only interconnect with other services located on that IDF Frame and not the SMDF Frame. An example could be CLEC "X" requests 4,800 pair terminated in the Central Office, but only needs 400 standard tie pairs and 300 shielded pairs to the other frame.

3.5 If the IDF must be grown, the requester will pay for the expansion of the verticals necessary to provide for those services. Transport, CLEC collocation terminations and ADSL/DSL services will not be placed on the SMDF on a going forward basis. ADSL Frame placement is shown on the illustration 1.0 below.

3.6 If an IDF does not exist in the Central Office, then a new IDF needs to be started with sufficient verticals and horizontal framing provided to install a minimum frame size or to the CLEC's requirements, whichever is larger. The cost of framing and space requirements will be paid by the requester, whether CLEC or internal SBC Local Exchange Carrier user. Each subsequent request will require an incremental frame growth that the requester will be required to accommodate and pay for. Follow SBC-002-316-003, *Frame Forecast M&P*, Issue 7, dated Jan 2001 on frame and block placements.

Illustration 1.0 showing how ADSL/DSL services should be placed in a multiple frame C.O.



In Central Offices that are extremely small with near zero 20 year growth projections or forecasts provided by both the SBC Local Exchange Carrier or the CLEC's, an IDF need not be installed until the first SIA request is received.

3.7 Protector Units will be required as follows:

Any cabling provided from outside of the Central Office for termination within the CO will be required to provide the correct overvoltage protection with gas tube/solid state protectors. These Protectors will be terminated in a Corning Cable Systems 391 high-density type angled connector, or equivalent, using 5/6/7 type, 5 pin Protector Units. Do not use single plunger Protector units. **Continuity units without adequate heat/current/voltage protection are not acceptable for use**.

4.CONNECTOR BLOCK TERMINATION

4.1 The Corning Cable Systems (formerly Siecor) 391-Type High Density Connectors which utilizes a 12.5 degree angle, or an equivalent angled (10-15 degree angle) 100 pair connector, will be used for this application. **SBC Local Exchange Carriers reserve the right to change connectors as required. (This is equivalent to the Lucent 310M-Type)**

4.2 It is very important to install the most user-friendly, cost effective, and high-density product available for new installations. The use of an angled connector will improve frame jumper placement and minimize "white knuckle impacts" which exist with current connectors. The Frame Committee of the CS-CFST will be evaluating an RFQ for best product in short order and has provided this item for an interim use which meets the current RFQ expectations. The 310M-Type Connector provides for 100 cable pair terminations in a high-density connection block with stub options listed below. The 310M-type connector provides a mounting bracket at a 12.5 degree angle to provide improved visual and physical access to the plug-in protector field, while maintaining front access to both the test and cross-connect fields. It is recommended that the product listed products are considered as the interim standard for SIA requests on IDF's pending the release of a SBC Local Exchange Carrier Request for Quote (RFQ) on connectors and blocks.

4.3 The 391M-Type Connector utilizes the following features:

The test head used for the 381-Type Connector will also fit this unit.

Has varied Stub Options.

Single or Bifurcated wire-wrap or quick-clip cross-connect options.

High density for space efficiency.

Occupies half the vertical space of the 303-type connector.

Front facing fields for testing and cross-connecting.

Snap-through cross-connect fanning strips.

Improved access to plug-in protector units (ordered separately).

Positive pair association between test, cross-connect, and protector unit fields.

Swivel-mounted stub cable. The 391M-type connector stub cables have a 0.91 (23.1-mm) diameter regardless of conductor gauge (22 or 24 AWG).

Extensive factory-provided hot-stamping (NOT LASER) for positive pair identification.

Optional ground isolation.

4.3 The Product Approval Notice (PAN) 19995316, **Central Office Connectors and Terminal Blocks** (also know as Connecting Blocks) provided by **Corning Cable Systems (formerly Siecor)** are now rated as **Approved for Use** in the SBC Local Exchange Companies of Pacific Bell, Nevada Bell, Southwestern Bell, Southern New England Telephone, Ameritech, and their affiliated and subsidiary Companies, including Advanced Solutions, Inc., (ASI) and Ameritech Advanced Data Services (AADS) effective March 20, 2000. His –an provides lists of materials, usage, pricing and the assigned distributor by Procurement for this product line.

5.RECORDS DEPLOYMENT

5.1 All equipment and cabling to SBC Local Exchange Carrier Frames will be administered and inventoried within SBC Operational Support Systems. These frames include, but are not limited to the following:

Subscriber Main Distributing Frames (SMDF) Conventional
Universal Modular Distributing Frames (UMDF) (High Density)
Intermediate Distributing Frames (IDF) Conventional
Unbundled Network Element (UNE) Frames which include DS0/VF and DSX-1 Frames.

5.2 The terminations will be owned by the SBC Local Exchange Carrier and must be inventoried in the SBC Local Exchange Carrier Operational Support Systems (OSS) such TIRKS or SWITCH/FOMS depending on the geographic area for equipment and cable pair location identification on frames. **As of November 1998, a decision has been made to inventory all Special Interconnect Arrangements within TIRKS for all CLEC and Special Interconnection Arrangement (SIA) assignments in the SBC Local Exchange Carriers. Pacific Bell/Nevada Bell is working to deploy this application ultimately in SWITCH/FOMS. CLEC's will have assignment control of the cable pairs.**

5.3 All Copper Cabling for CLEC's will be handled in the same manner as Physical Collocation installations with the inventory marked in our OSS records to reflect appropriate Division of Revenues coding to remove the cable investment from our rate base. All SIA requester's are acting as a CLEC and we should expect to begin receiving orders from them for connections to Unbundled Network Elements (UNE's) as well as other service configurations available to any CLEC or SBC Local Exchange Carrier.

5.4 Current rules for handling service orders from CLEC's are similar to the treatment of Interexchange Carriers (IXC's). This means that at the point where the ownership changes hands (at the frame) we create a facility ACTL to be used for the processing of all facility related orders from this provider. Since the ownership is physically inside a SBC Local Exchange Carrier structure, the CLLI for the facility ACTL shall carry the same first 8 characters as the Central Office and then collocation designation (H(a)(n)) for the last three characters of the CLLI.

5.5 SBC Local Exchange Carriers will provide all tie-down cable pair assignment locations for the SIA requester. TIRKS and ISIS (where applicable) records must be maintained for cable appearance location information on both the vertical and horizontal appearances. The SIA requester retains assignment control on subsequent ASR's for service. All orders would begin at the ACTL (SBC Local Exchange Carrier IDF) and request connection to other SBC Local Exchange Carrier UNE's or CLEC POT Terminations. The service orders should look like any other CLEC order for service. The SIA requester's order would include the cable and pair information as a Connecting Facility Assignment (CFA) information in addition to the tie-down cable pair assignment.

5.6 Because the assignment responsibilities for the cable facilities entering the Central Office come from the SIA requester, the termination for all cable and protection/connector units will be the Intermediate Distribution Frame (IDF). This includes requester owned cable facilities that utilize leased conduit to the building complex. If the Cable to be terminated is placed to a dedicated handoff point (read: Meet-Point) for dedicated pair-for-pair handoffs, then the termination should be handled as an Interexchange Carrier handoff point and should be placed on the C.O. Intermediate Distribution Frame, regardless of the company which owns the stub entering the Central Office.

5.7 The SBC Local Exchange Carrier Cable Facilities (both copper and derived facilities) which support the general customer base in a geographic territory may be terminated on either the Subscriber Main Distributing Frame (SMDF) or the IDF (i.e.: for Pair Gain terminations) at the decision of the Frame Planner/Space Planner based on congestion, loading, exhaust, applications, forecast, spectrum management **when a general use (read non-dedicated) cable facility is placed**. The cable pair assignment and ownership responsibility rests with the SBC Local Exchange Carrier.

5.8 The long-term approach is to provide interoperability on a multi-use, multi-provider IDF in a low-density trough arrangement without the need for stringent long-term projection timelines. It can be stated here that the long term approach by the SIA requester may not be to direct connect with the SBC Local Exchange Carrier, but connect to another provider resulting in a diminished need for tie pairs to other frames and provide an extension of the serving life of near exhaust SMDF's.

It is very important in the initial service request to specifically define the service applications on the copper facilities. Do not forget that the interconnection of Spectrum Managed Services such as ADSL and other Digital Subscriber Lines will require the purchase and placement of shielded tie pairs between frames in quantities necessary to support the requester's service in it's entirety. The provisioning of standard cable pairs will be based on voice transmission standards. High Capacity Data Transmission services will not be supported unless specifically identified by type of transmission in the request. The provisioning of data transmissions which could include requests for such items as "Audio", "High Capacity", "Unloaded Pairs"; etc. will require special interconnection requirements.

5.9 In the event the CLEC requests for Fiber optic cabling to be placed in our Central Offices from outside the Central Office, the placement will be within the Fiber Distribution Frame (FDF) on an OSP Panel for all connections for cross-connects, interconnection, virtual terminations, etc. The cabling will be treated as a "Meet Point" service where the splice point between the CLEC and the SBC Local Exchange Carrier will be typically at a common cable route manhole. The fiber optic tail will be placed into the FDF. The CLEC will be responsible for all costs associated with the installation.

5.10 When Fiber optic provisioning is requested for Physical Collocation within the CLEC Cage from outside the Central Office, the cable will be terminated within the CLEC cage or to within the Common Cage equipment area (when the Common Cage arrangement is deployed).

6.EQUIPMENT LIGHTING & AC POWER DISTRIBUTION

6.1 Standard Sentinel SL5500 single tube continuous fixtures (part number TBA) located at the front of all equipment lineups will provide general illumination of the equipment area. 120 VAC service for equipment test and maintenance purposes will be provided by duplex receptacles (part number TBA) installed within the Sentinel lighting fixtures at the end of each fixture. These lighting fixtures shall have T8 lamps and an electronic ballast (Advance ballast) for energy saving.

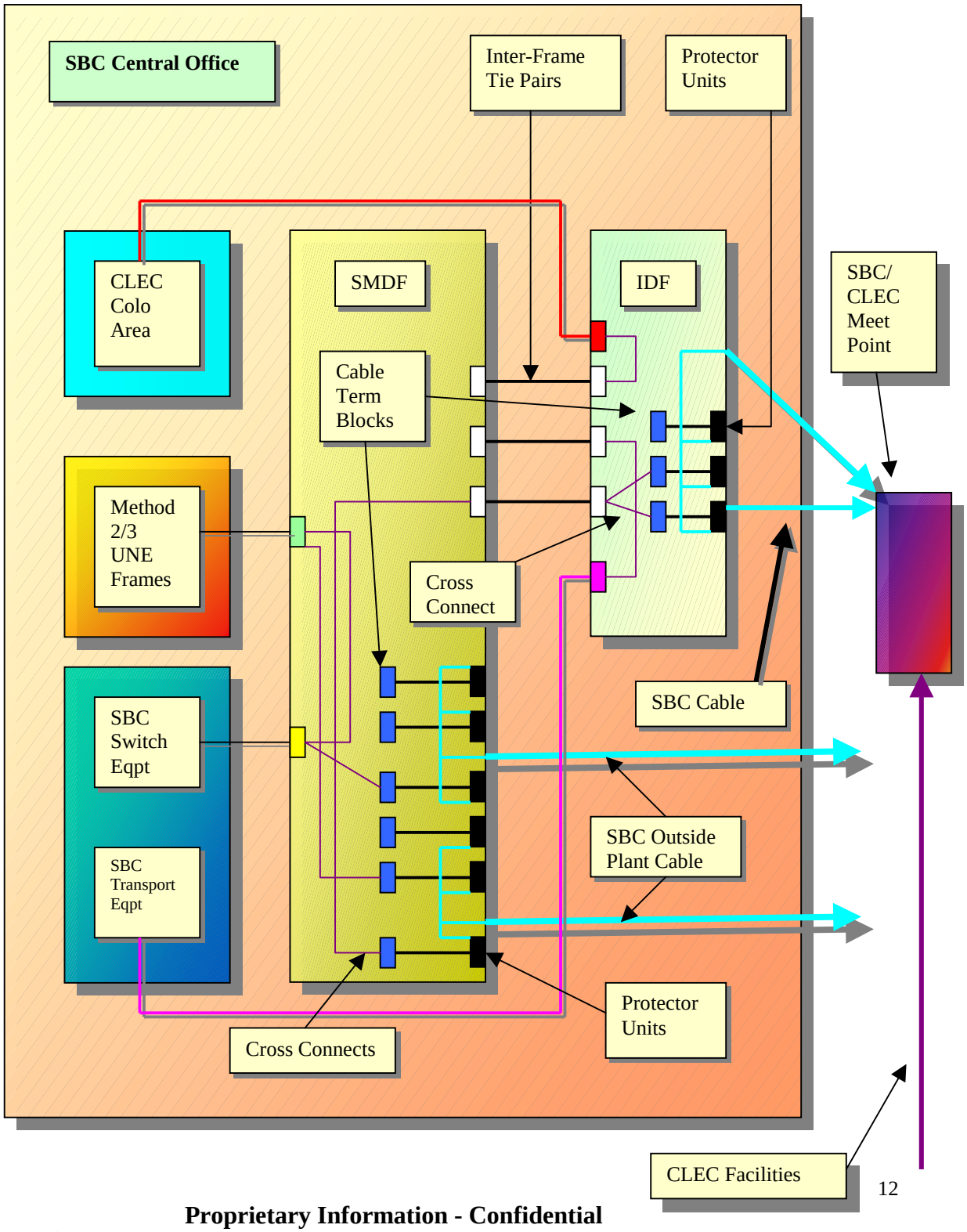
7.AUXILIARY FRAMING & BRACING

7.1 Auxiliary framing and bracing will be engineered and installed according to standard practices for the seismic location of the network building and the location of cable racks within the building. The requester must pay for the EFI requirements necessary to support their Frame service request.

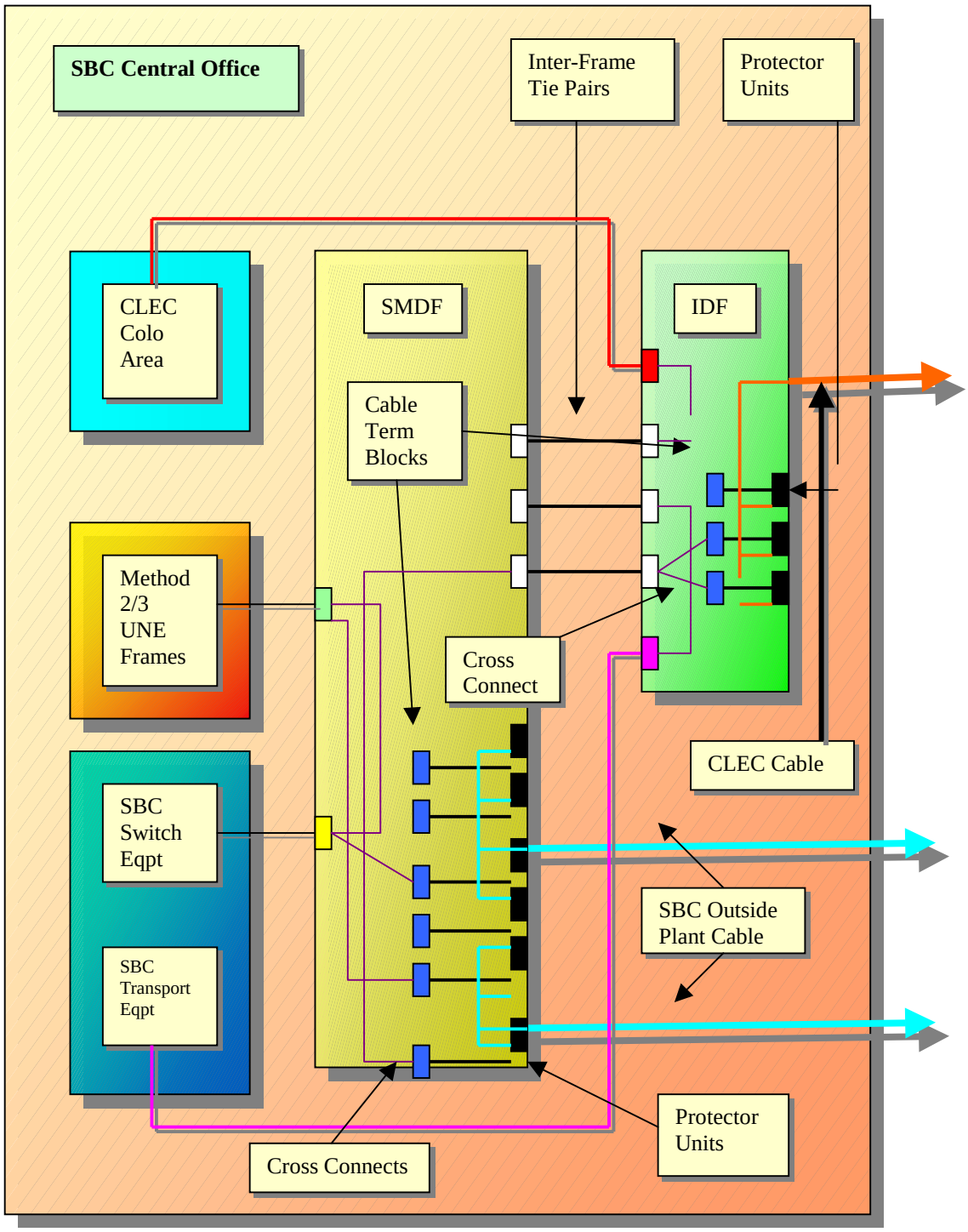
8.GROUNDING & BONDING

8.1 A #2 AWG insulated copper conductor will be extended from the central office ground system into the collocation cage. The grounding of all equipment and power systems within the cage must conform to the requirements of BSP 802-001-180MP, *Grounding and Bonding Requirements, Telecommunications Equipment, Power Systems, Central Offices and Other Structures*. Unless otherwise agreed to, equipment within a cage will be considered part of the Common Bonding Network (CBN).

The illustration below provides a pictorial layout of a SBC Exchange Carrier cable and a CLEC cable **WHERE THE CABLE FACILITIES ARE DEDICATED TO A CLEC:**



The illustration below provides a pictorial layout of a SBC Exchange Carrier cable and a CLEC cable
The Cable Facilities are Owned and Managed by the CLEC



9.DOCUMENTATION STANDARDS

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

Document	Description	Issue & Date
SBC-002-316-002	Collocation Provisioning Guidelines	Issue 11.1, Jan 2001
SBC-002-316-001	UNE Deployment in the Central Office	Issue 2, Dec 2000
SBC-002-316-004	Tie Pair Management on MDF/IDF Frames	Issue 1, Jan 2001
SBC-002-316-006	Line Sharing Deployment M&P	Issue 7.3, Dec 2000
SBC-002-316-007	Special Interconnection Arrangement (SIA-BFR)	Issue 4.1, Jan 2001
SBC-002-316-008	CLEC Cable Placement	Issue 3.1, Jan 2001
SBC-002-316-009	ADSL for the Central Office M&P	Issue 12.1, Jan 2001
SBC-002-316-003	Frame Forecast M&P	Issue 7, Jan 2001
SBC-002-316-010	CLEC Line Sharing (CLEC Version)	Issue 7.0, Nov 2000
SBC-002-316-011	SingleMode Fiberoptic Optical Splitters	Issue 2, Dec 2000
SBC-002-316-012	Line Splitting	Issue 1, Jan 2001 (Pending)
SBC-002-316-015	Decommissioning of CLEC Equipment/Wiring M&P	Issue 1, Jan 2001 (Pending)
Infrastructure Deployment Guidelines (IDG), Transport, Tab 13	Digital Cross-Connect Systems (DSX1, DSX-3)	Aug 2000
Infrastructure Deployment Guidelines (IDG), Transport, Tab 3	Fiber Distribution Frames	May 2000
Infrastructure Deployment Guidelines (IDG), Switch, Tab 11	Subscriber Main Distributing Frames	Aug 2000
TP 76200MP	Network Equipment – Building Systems	Issue 4, Apr 2000
TP 76300MP	Installation Guide within the Central Office	Issue 5, Jul 2000
TP 76400MP	Detail Engineer Requirements for the C.O.	Issue 5, Aug 2000
TP 76299MP	Unbundled Network Elements	Issue 1, 2000
SBC-002-316-101	Wire Center Planning M&P, Space Planning for the C.O.	Issue 7, Nov 2000
BSP 800-003-100MP	Standards for Network Equipment Eng & Space Planning	Issue A, Nov 1999
BSP 636-299-900MP	SBC – Fiber Distributing Frames	Issue A, Jan 2000
BSP 800-500-900MP	SBC – Digital Cross-Connect DSX-1 Standards	Draft for Rel 9/2000
BSP 800-500-901MP	SBC – Digital Cross-Connect DSX-3 Standards	Draft for Rel 9/2000
BSP 201-222-900MP	SBC – Conventional Frame Standards	Draft for Rel 9/2000
BSP 201-222-901MP	SBC – Modular Frame Standards	Draft for Rel 9/2000
BSP 790-100-652MP	SBC – Power Plant Planning	Issue A, 1999
BSP 790-100-654MP	SBC – DC Plants	Issue A, 1999
BSP 790-100-656MP	SBC – DC Distribution	Issue A, 1999
BSP 790-100-655MP	SBC - Batteries	Issue A, 1999
BSP 790-100-659MP	SBC – AC Plants	Issue A, 1999
BSP 800-000-100MP	SBC – Common Systems – Hardware Products	Issue A, 1998
BSP 800-000-101MP	SBC – Network Equipment Anchoring Requirements	Issue A, 1998
BSP 800-000-102MP	SBC – Central Office Equip. Framework Design Req.	Issue A, 1998
BSP 800-000-104MP	SBC – Bracing Requirements for Equip. on Raised Floor	Issue A, 1998
BSP 800-000-150MP	SBC – CO Cable & Wire Inst Req. Racks and Raceways	Issue A, 1998
BSP 800-003-100MP	SBC – Space Planning Stds for Network Equip. Environ.	Issue A, 1998
BSP 800-006-150MP	SBC – Common Systems Net. Fac. Aux Frame & Bracing	Issue A, 1998
BSP 800-006-151MP	SBC – Network Facility Cable Rack Requirements	Issue A, 1998
BSP 800-006-152MP	SBC – Floor Stanchion Supported Cable Rack Req.	Issue A, 1998
BSP 800-068-150MP	SBC – Central Office Equip. Framework Support Req.	Issue A, 1998
BSP 802-001-180MP	SBC – Grounding and Bonding Requirements	Issue A, 1998
Building Block 0740	Line Sharing Equipment	Issue 1, Aug 2000
PBSD ID-1891	SBC Interconnection Drawings for SWBT/PB/NB	Issue 9, Nov 2000
PBSD ED-1891	SBC Engineer Drawings for SWBT/PB/NB	Issue 11, Jun 2000
AM-E-01578-10	SBC Design Equipment Drawings for Ameritech	Issue 10, Nov 2000
AM-W-01578-11	SBC Design Wiring Drawings for Ameritech	Issue 11, Nov 2000
SNE J95215-71	SBC Line Sharing Equipment for SNET	Issue 8, Nov 2000
SNE T95215-31	SBC Line Sharing Wiring for SNET	Issue 6, Nov 2000
SNE J99121-71	SBC Physical Collocation Equipment for SNET	Issue 21, Nov 2000

SNE T99121-31	SBC Physical Collocation Wiring for SNET	Issue 14, Nov 2000
SNE J95215-71	SBC Engineer Drawings for SNET	Issue 2, Jun 2000
PBSD-ED-1175	SBC Equipment Drawing DSX-1 for PB/SWBT	Issue 4
PBSD-ID-1175	SBC Interconnect Drawing DSX-1 for PB/SWBT	Issue 4
SNE J95197-71	SBC Equipment Drawing DSX-1 for SNET	Issue 4
SNE T95197-31	SBC Interconnect Drawing DSX-1 for SNET	Issue 2
SNE SD95197-01	SBC Schematic Drawing DSX-1 for SNET	Issue 1
AM-E-01436-10	SBC Equipment Drawing DSX-1 for AIT	Issue 8
AM-W-01436-11	SBC Interconnect Drawing DSX-1 for AIT	Issue 10
PBSD-ED-1115	SBC Equipment Drawing DSX-3 for PB	Issue 4
PBSD-ID-1115	SBC Interconnect Drawing DSX-3 for PB	Issue 9
PBSD-ED-1117	SBC Equipment Drawing DSX-3 for SWBT	Issue 1
PBSD-ID-1117	SBC Interconnect Drawing DSX-3 for SWBT	Issue 1
SNE J95213-71	SBC Equipment Drawing DSX-3 for SNET	Issue 1
SNE T95213-31	SBC Interconnect Drawing DSX-3 for SNET	Issue 1
AM-E-01447-10	SBC Equipment Drawing DSX-3 for AIT	Issue 10
AM-W-01447-11	SBC Interconnect Drawing DSX-3 for AIT	Issue 11
PBSD-ED-1140	SBC Equipment Drawing FDF for PB/SWBT	Issue 2
PBSD-ID-1140	SBC Interconnect Drawing FDF for PB/SWBT	Issue 1
SNE J95145-71	SBC Equipment Drawing FDF 12" for SNET	Issue 13
SNE T95145-31	SBC Interconnect Drawing FDF 12" for SNET	Issue 6
SNE J95218-71	SBC Equipment Drawing FDF 15" for SNET	Issue 3
SNE T95218-31	SBC Interconnect Drawing FDF 15" for SNET	Issue 1
AM-E-01582-10	SBC Interconnect Drawing FDF for AIT	Issue 1
SBC-C-10001-E-00 SBC-C-10001-W-00	128-port High Density Line Sharing POTS-SPLITTER	Issue 1, 2nd Qtr, 2000
SBC-C-10002-E-00 SBC-C-10002-W-00	96-port standard Line Sharing POTS-SPLITTER	Issue 1, 2nd Qtr, 2000
PAN 20001017	96-port POTS-SPLITTER Approval for Use	May 2000
PAN 2000737	128-port POTS-SPLITTER Approval for Use	Aug 2000
PAN 20001000	Main Distributing Frames Approval for Use	Jan 2000
PAN 19995316	Connector Blocks Approval for Use	Jan 2000
PAN 19985029	Covers for Unit Protector and Cross-Connect fields for ADSL/xDSL Approval for Use	1999
PAN 19985018	Tight Twist Wire for 1.544 Mb/s/T1 Approval for Use	1998
PAN 19985037	Cover for Unit Protectors & Cross-Connect Fields for T1/1.544 Mb/s Approval for Use	1998
PAN 19985036	Cover for Unit Protector & Cross-Connect Fields for High Voltage Approval for Use	1998
MMP 98-06-001	Broadband Twisted Pair Wiring for Distribution and Protector Frames	Issue 2, Jan 2000
SIP 10-4500-025	Line Sharing-Non-Digital Loop Electronics ADSL for Network Services and LFO Operations	Issue 3, Jul 2000
SBC-C-20000-E-00 SBC-C-20000-W-00	SBC Drawings, Engineering & Wiring for MDF Frames	Issue 1, Issue 1, 2nd Qtr, 2000
SBC-C-20001-E-00 SBC-C-20001-W-00	SBC Drawings, Engineering & Wiring for a Single Sided Bay Frame	Issue 1, Issue 1, 2nd Qtr, 2000
SBC-C-20002-E-00 SBC-C-20002-W-00	SBC Drawings, Engineering & Wiring for a DSX-1 Bay	Issue 1, Issue 1, 2nd Qtr, 2000
SBC-C-20003-E-00 SBC-C-20003-W-00	SBC Drawings, Engineering & Wiring for a DSX-3 Bay	Issue 1, Issue 1, 2nd Qtr, 2000
SBC-C-20004-E-00 SBC-C-20004-W-00	SBC Drawings, Engineering & Wiring for a Fiber Distribution Frame Bay	Issue 1, Issue 1, 2nd Qtr, 2000
Building Block 0740	SBC Building Block for Main Distributing Frames	Issue 1, Dec 2000
SBC-FLASH 00-030R2	SBC Equipment Deviation for oversized Equipment	Issue 2, Nov 2000
SBC-FLASH-000-000-035	SBC IDF Installation Standard	Issue 1, Jan 2001

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