class of services designated by MCIm (e.g., using line class codes or other switch specific provisioning methods) and shall route operator calls from MCIm subscribers as directed by MCIm at MCIm's option. For example, SWBT may translate 0- and 0+ intraLATA traffic, and route the call through appropriate trunks to an MCIm Operator Services Position System (OSPS). Calls from Local Switching must pass the ANI-II digits unchanged.

6.2.1.19 Local Switching shall be offered in accordance with the requirements of **the applicable technical references in Appendix 1.**

6.3 Interface Requirements:

6.3.1 The interface requirements described in this part shall be provided in a manner that is at least equal in quality to that SWBT provides itself, its affiliates or other LSPs for the purpose of interfacing with a local or tandem switch.

6.3.2 SWBT shall provide switch ports with, but not limited to, the following signaling options:

6.3.2.1 Analog Line Port;

6.3.2.2 Analog Line Port with Centrex-Like Applications;

6.3.2.3 Analog (DID) Trunk Port;

6.3.2.4 Digital DS 1 Trunk Port;

6.3.2.5 ISDN Basic Rate Interface (BRI) Port;

6.3.2.6 ISDN BRI Port with Centrex-Like Application; and

6.3.2.7 ISDN Primary Rate Interface (PRI) Trunk Side Port.

6.3.3 SWBT shall provide switch port options to accommodate, but not limited to, the following:

6.3.3.1 Standard Tip/Ring interface including loopstart or

groundstart, on-hook signaling (e.g., for calling number, calling name and intermittent dial tone);

6.3.3.2 Coin phone signaling;

6.3.3.3 Basic Rate Interface ISDN **adhering to ANSI standards Q.931, Q.932 and appropriate Bellcore Technical Requirements;**

6.3.3.4 Two-wire analog interface to PBX to include reverse battery, E&M, wink start and DID;

6.3.3.5 Four-wire analog interface to PBX to include reverse battery, E&M, wink start and DID;

6.3.3.6 Four-wire DS1 interface to PBX or subscriber provided equipment (e.g., computers and voice response systems);

6.3.3.7 Primary Rate ISDN to PBX **adhering to ANSI standards Q.931, Q.932 and appropriate Bellcore Technical Requirements**; and

6.3.3.8 Where available switched Fractional DS1 with capabilities to configure Nx64 channels (where N = 1 to 24).

6.3.4 SWBT will provide switch port options to accommodate, but not limited to, the following:

6.3.4.1 SS7 Signaling Network or Multi-Frequency trunking may be utilized when SS7 is unavailable;

6.3.4.2 Interface to MCIm operator services systems or Operator Services through appropriate trunk interconnections for the system; and

6.3.4.3 Interface to MCIm directory assistance services through the MCIm switched network or to Directory Services through the appropriate trunk interconnections for the system; and 950 access or other MCIm required access to interexchange carriers as requested through appropriate trunk interfaces.

6.4 Integrated Services Digital Network (ISDN)

6.4.1 Integrated Services Digital Network (ISDN) is defined in two variations. The first variation is Basic Rate ISDN (BRI). BRI consists of 2 Bearer (B) Channels and one Data (D) Channel. The second variation is Primary Rate ISDN (PRI). PRI consists of 23 B Channels and one D Channel. Both BRI and PRI B Channels may be used for voice, Circuit Switched Data (CSD) or Packet Switched Data (PSD). The BRI D Channel may be used for call related signaling, non-call related signaling or packet switched data. The PRI D Channel may be used for call related signaling.

6.4.2 Technical Requirements — ISDN

6.4.2.1 SWBT shall offer Data Switching providing ISDN that, at a minimum:

6.4.2.1.1 Provides integrated Packet handling capabilities;

6.4.2.1.2 Allows for full 2B+D Channel functionality for BRI; and

6.4.2.1.3 Allows for full 23B+D Channel functionality for PRI.

6.4.2.1.4 Each B Channel shall allow for voice, 64 Kbps CSD, and PSD of 128 logical channels at minimum speeds of 19 Kbps throughput of each logical channel up to the total capacity of the B Channel.

6.4.2.1.5 Each B Channel shall provide capabilities for alternate voice and data on a per call basis.

6.4.2.1.6 The BRI D Channel shall allow for call associated signaling, non-call associated signaling and PSD of 16 logical channels at minimum speeds of 9.6 Kbps throughput of each logical channel up to the total capacity of the D Channel.

6.4.2.1.7 The PRI D Channel shall allow for call

associated signaling.

6.4.3 Interface Requirements — ISDN

6.4.3.1 SWBT shall provide the BRI U interface using 2-wire copper loops in accordance with TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.

6.4.3.2 SWBT shall provide the BRI interface using Digital Subscriber Loops adhering to Bellcore TR-NWT-303 specifications to interconnect Digital Loop Carriers.

6.4.3.3 SWBT shall offer PSD interfaces adhering to the X.25, X.75 and X.75' ANSI and Bellcore requirements.

6.4.3.4 SWBT shall offer PSD trunk interfaces operating at 56 Kbps.

6.4.4 Terms

6.4.4.1 When MCIm chooses to use ULS in conjunction with Unbundled Common Transport, SWBT shall provide Unbundled Local Switching (ULS) in conformance with local exchange boundaries, so that the dialing plan associated with the port will be equal to the dialing plan established in the office for SWBT's own customers

6.4.4.2 SWBT shall route IntraLATA Toll calls via the Commission mandated dual PIC method (when implemented) when MCIm uses ULS. SWBT shall route InterLATA calls via the Commission-mandated dual PIC method when MCIm uses ULS.

6.4.4.3 MCIm may connect ULS with SWBT's Unbundled Common Transport (UCT), Unbundled Dedicated Transport (UDT) or other facilities provided by MCIm, or a third party.

6.4.4.4 Features generically available by switch type shall be those identified in the LATA Switching Systems Generic Requirements document, Technical Reference TR-NWT-00504, Section 4, published by Bellcore. SWBT shall make all vertical

features currently deployed on a switching entity specific basis available for that switch. SWBT shall make available features that require resources outside the switch, but MCIm shall pay additional charges (i.e., TCAP messages, SS7 Signaling, database queries, etc.) for such features.

6.4.5 Maintenance

6.4.5.1 SWBT shall handle requests for maintenance or repair of ULS as described in Attachment VIII, and ULS will be maintained **compatible with the standard technical specifications referenced in Appendix 1.**

6.4.6 Ordering

6.4.6.1 MCIm may order Local Switching on a per port basis, with no minimum quantities required. MCIm must associate each Centrex-like port with a Centrex-like Common Block which MCIm must order separately.

6.4.7 Billing Information

SWBT shall provide daily ULS Expanded Message Record (EMR) records as well as monthly bills to MCIm in industry standard formats. These feeds and summaries will provide pertinent information that MCIm may choose to use to bill its end user. Attachment VIII provides additional information on the billing information that SWBT will provide.

6.4.8 Application of Rates

This Section governs the rates and charges that are applicable to unbundled local switching. Rates and Charges are specified in Attachment I.

<u>SWBT 6.4.8.1-1 MCIm shall pay SWBT for unbundled local switching ports and usage at the rates contained in Attachment I.</u>

6.4.8.1.1 Unbundled Local Switching Rate Elements

There are two basic rate categories of rate elements applicable to unbundled switching. These rate categories are Port and Usage.

6.4.8.1.2 Port

6.4.8.1.2.1 There are five Port categories:

(1) Analog Line Port; (2) Analog (DID) Trunk Port; (3) DS1 Trunk Port; (4) ISDN Basic Rate Interface (BRI) Port; and (5) ISDN Primary Rate Interface (PRI) Trunk Side Port.

6.4.8.1.2.2 ULS Port Charges

6.4.8.1.2.2.1 **MCIm shall pay an NRC for each type of ULS Port when the ULS Port is established. MCIm shall pay SWBT a monthly recurring charge for each ULS Port that is provided.** MCIm shall pay additional nonrecurring charges for changes or additions to a particular ULS Port subsequent to its activation. **When the NXX of the telephone number provided to MCIm is one associated with an EAS arrangement, MCIm shall pay a flat-rated monthly port additive for the EAS toll package(s) inherent in the telephone number.**

6.4.8.1.3 Usage

The price for unbundled switching usage is set forth in Attachment I of this Agreement.

6.5 Custom Routing

Custom Routing as covered in Appendix Customized Routing is a functionality of ULS which will permit MCIm to direct Operator Services and Directory Assistance Calls to MCIm's own service bureaus. Custom Routing also permits MCIm to direct local calls to UDT or MCIm owned facilities rather than to SWBT's shared UCT and provides certain screening capabilities (e.g., 900 call blocking).

7. Operator Systems

See Attachment VIII, Section 7.1.2 - Directory Assistance and Listings Service Requirements for Facilities Based Unbundled Network Elements and 7.1.3 - Directory Listings General Requirements.

8. [Reserved]

9. Common Transport

This Section set forth the terms and conditions under which SWBT agrees to provide unbundled Common Transport.

9.1 Definition:

Common Transport is an interoffice transmission path between SWBT Network Elements (illustrated in Figure 2) shared by carriers. **Where SWBT Network Elements are connected by intra-office wiring, such wiring is provided as a part of the Network Elements and is not Common Transport.** SWBT shall offer Common Transport as of the effective date of the agreement, at DS0, DS1, DS3, STS-1 or higher transmission bit rate circuits. Common Transport consists of SWBT inter-office transport facilities and is distinct and separate from local switching.

Figure 2

9.2 Technical Requirements

9.2.1 SWBT shall be responsible for the engineering, provisioning, and maintenance of the underlying equipment and facilities that are used to provide Common Transport.

9.2.2 At a minimum, Common Transport shall meet all of the requirements set forth in the **technical references (as applicable for the transport technology being used), specified in Appendix 1.**

9.3 Provisioning Intervals

9.3.1 The "Installation Interval" is the time required to provision the Unbundled Common Transport Offering (i.e., the period between the application date and the install date). SWBT shall establish installation intervals in accordance with published SWBT interval guidelines and provide them to MCIm for further discussion.

9.3.2 SWBT will establish schedules that specify installation intervals and the elements and quantities that can be provided within the published intervals.

9.4 Performance Standards

9.4.1 At a minimum, Common Transport shall meet all of the requirements set forth in the applicable Technical References in Appendix 1.

9.5 Rates and Charges

9.5.1 Rate and Charges are specified in Attachment I.

10. Unbundled Dedicated Transport (UDT)

Dedicated Transport (UDT) is an interoffice transmission path dedicated to a particular customer or carrier that provides telecommunications between wire centers owned by SWBT or MCIm or third parties acting on behalf of MCIm, or between switches owned by SWBT or MCIm or third parties acting on behalf of MCIm. Dedicated Transport includes interoffice dark fiber and Digital cross-connect (DCS) functionality.

10.1 UDT Offering Description - General

10.1.1 SWBT shall provide UDT through the use of unbundled network transmission facilities and equipment between SWBT wire center offices and MCIm premises, with bandwidth dedicated for MCIm's use. SWBT shall use the existing infrastructure facilities and equipment which are used to provide local exchange calling areas, intraLATA toll and telecommunications switched and special access services. Such locations may include SWBT wire centers collocation arrangements and MCIm premise or other locations, MCIm Network components, other carrier

network components, **or subscriber premises.**

10.1.2 This Section describes the unbundled network components for dedicated, point to point entrance facility, Interoffice (I/O) transport facilities, Multiplexing, Cross Connects and Digital Cross Connect Systems (DCS). Each of these elements are dedicated only to MCIm whether or not each component is used at the components' maximum capacity.

10.1.3 SWBT offers UDT hereunder for MCIm's use in conjunction with other unbundled network components for the purposes of originating and terminating telephone exchange service, or exchange access service, in accordance with the Telecommunications Act of 1996. SWBT shall provide UDT at the following speeds: DS1 (1.544Mbps); DS3 (45Mbps); OC3 (155.520Mbps); and, OC12 (622.080Mbps). In addition, SWBT offers OC48 (2488.320Mbps) bandwidth as an option for interoffice capacity.

10.1.4 This Section does not offer an interface handoff for OC48 and OC96. These arrangements are not currently technically feasible due to Fujitsu equipment availability. MCIm may order a combination of OC3 or OC12 interfaces to obtain service compatible with most OC48 or OC96 requirements.

10.1.5 SWBT shall provide UDT where technically feasible, where facilities and equipment are available, **and under the technical specifications discussed in Appendix 1.**

10.1.6 *SWBT shall offer dark fiber in the dedicated interoffice transport segment of the network as an unbundled element under the following conditions: SWBT must offer its dark fiber to MCIm when it has collocation space in a SWBT tandem or end office, but may offer it pursuant to agreements that would permit revocation of MCIm's right to use the dark fiber upon twelve (12) months' notice by SWBT. To exercise its right of revocation, SWBT must demonstrate that the subject dark fiber is needed to meet SWBT's bandwidth requirements, or the bandwidth requirement of another LSP. MCIm may not, in a twenty-four month period, lease more than twenty-five (25) percent of SWBT's excess dark fiber capacity in a particular dedicated interoffice transport segment.* [Missouri Award No. 6]

SWBT shall not be required to make available for lease more than 25 percent of its dark fiber capacity in a particular dedicated interoffice transport segment. The fiber available for lease must be allocated among MCIm and other requesting CLECs on a first-come, first-served, basis, and distributed in a competitively neutral manner. If SWBT can demonstrate within a twelve month period after the date of a dark fiber lease that MCIm is using the leased dark fiber capacity at a level of transmission less than the optical carrier OC-12 (622.08 million bits per second), SWBT may revoke the lease agreement with MCIm and provide MCIm a reasonable and sufficient alternative means of transporting the traffic. [Missouri Award No. 6]

10.2 Scope

10.2.1 SWBT does not undertake to transmit messages or offer any telecommunication services under this Agreement.

10.2.2 SWBT shall be responsible only for the installation, operation and maintenance of the UDT elements it provides.

10.2.3 SWBT shall, for maintenance purposes, test the UDT elements only to the extent necessary to detect and/or clear trouble.

10.2.4 SWBT provides UDT elements 24 hours daily, seven days per week except as set forth in other sections of this Attachment.

10.2.5 Facilities utilized by SWBT to provide UDT elements under the provisions of this Attachment shall remain the property of SWBT.

10.2.6 SWBT does not warrant that its facilities and equipment meet standards other than those set forth in specifically referenced technical publications in Appendix 1.

10.3 Service Provisioning

10.3.1 General

10.3.1.1 SWBT shall provide to MCIm, upon reasonable notice and to the extent technically feasible, UDT elements described in this Attachment at the specified rates and charges.

10.3.1.2 In the event that SWBT cannot fulfill MCIm's request for

UDT with existing facilities and equipment or the request is not consistent with **Appendix I** and technical references contained therein, SWBT may provide alternative designs to MCIm.

10.3.1.3 UDT elements are provided under this Section over such routes, facilities and technologies as SWBT may elect in its own discretion. If MCIm requests special facilities, equipment or routing of UDT elements, SWBT shall respond to such requests under the procedures for Wholesale Construction or pursuant to Network Element Bona Fide Request. Wholesale Construction provisions are found in Section 2 of Attachment III.

10.3.1.4 SWBT shall provide UDT elements consistent with Part 68 of the FCC's Rules and Regulations, including the entrance cable or drop wiring to the point of termination.

10.3.1.5 If MCIm requires that the point of termination at MCIm's premises **or MCIm's end user's premises** be moved, such activity shall be treated as Wholesale Construction.

10.3.1.6 SWBT shall provide MCIm reasonable notification of activities affecting UDT that may occur in normal operation of SWBT's business. Such activities may include, but are not limited to, equipment or facilities additions, removals or rearrangements, routine preventative maintenance and major switching machine change-out. Generally, such activities are not individual MCIm specific, but affect many operations. No specific advance notification period is applicable to all such activities. Reasonable notification procedures shall be negotiated between SWBT and MCIm.

10.3.1.7 Each Party is solely responsible for the services it provides to its end users and to other telecommunications carriers.

10.3.2 Ordering UDT Elements

10.3.2.1 MCIm may order UDT elements together or on separate orders by providing valid termination points as described in this Attachment. SWBT shall handle subsequent changes to UDT elements as follows:

10.3.2.1.1 Changes to only a portion of UDT elements will

result in changes to the entire point-to-point facilities when MCIm requests multiple UDT elements on one order.

10.3.2.1.2 Changes to terminating points of UDT elements when ordered separately will apply only for those UDT elements directly affected by the change.

10.3.3 UDT Order processing and the disconnection and new connection of UDT element(s) are contained in Attachment VIII.

10.4 Obligations of MCIm

10.4.1 Subject to the provisions set forth above, MCIm shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of SWBT, minimum network protection criteria, operating or maintenance characteristics of the facilities.

10.5 UDT Billing Regulations

10.5.1 Minimum Periods

10.5.1.1 The minimum period for which the UDT offering is provided and for which rates and charges are applicable is set forth in each section of this Attachment, where appropriate.

10.5.1.2 When MCIm discontinues using an element prior to the expiration of the minimum period, charges are applicable whether the service is used or not, as follows:

10.5.1.2.1 When a UDT element with a one month minimum period is discontinued prior to the expiration of the minimum period, a one month charge will apply at the rate level in effect at the time service is discontinued.

10.5.1.2.2 When a UDT element with a minimum period greater than one (1) month is discontinued prior to the expiration of the minimum period, the applicable charge will be the total monthly charges, at the rate level in effect at the time the UDT element is discontinued, for the

Key: Regular Text = MCIm/SWBT negotiated language; **Bold Text** = MCIm language disagreed to by SWBT; *Italics* = Missouri PSC Arbitration Award and stipulation language. ***Bold Italics*** = ***Conformed to Award but disagreed to by SWBT.*** **Bold Underline = SWBT language disagreed to by MCIm.**

remainder of the minimum period.

10.5.1.2.3 For UDT provided pursuant to Wholesale Construction, the minimum period is twelve (12) months unless a different minimum period is established.

10.6 Ordering for the UDT Offering

10.6.1 General

10.6.1.1 An UDT order is an order to provide MCIm with UDT elements or to provide modifications to existing UDT elements. Depending upon the UDT elements, facilities or interval dates requested, SWBT may require one or more orders to provide MCIm with the UDT offering.

10.7 Ordering Requirements for UDT Elements

10.7.1 Entrance Facility

10.7.1.1 If the Entrance Facility is new, MCIm shall specify the MCIm premises (CLLI code) and terminating points, the connection type (e.g., DS1 or DS3), i.e., NC and NCI codes, the interface group and the related connecting point (e.g., Multiplexing, I/O Transport).

10.7.1.2 Entrance Facilities will provide the connection between premises designated by MCIm and SWBT serving wire centers.

10.7.2 Interoffice Transport

10.7.2.1 If the Interoffice Transport is new, MCIm shall specify the connection type (DS1, DS3 or OC3), the channel interface and the related connecting point (Multiplexing, end office switch, Cage).

10.7.2.2 MCIm shall also specify the termination point of the facility and the cross connect to which the Interoffice Transport is to be connected (**Interoffice Transport Facility,** Multiplexing, DCS) and whether or not the other termination points are new or

existing. The other connecting points must have an interface that is compatible with the Interoffice Transport being requested.

10.7.3 Multiplexing

10.7.3.1 MCIm shall specify the related UDT facility to which the Multiplexing is to be connected. MCIm shall specify the order in which the Multiplexing is to be connected in relation to the other unbundled network elements.

10.7.3.2 MCIm shall only request Multiplexing with compatible interface to the element to which the Multiplexing is being connected.

10.7.4 Cross Connects

10.7.4.1 MCIm shall order Cross Connects to connect UDT elements with other compatible UDT elements. MCIm shall specify, when placing an UDT order, the order in which the unbundled network components are to be connected.

10.7.4.2 MCIm shall only request Cross Connect with compatible interfaces to the elements which the Cross Connect is joining together.

10.7.5 Digital Cross Connect System (DCS)

10.7.5.1 SWBT must provide access to Digital Cross Connect Systems (DCS) functionality as an unbundled network element. SWBT is not required to install the unbundled DCS in MCIm's physical collocation space, but must allow virtual collocation of DCS as an unbundled network element. As an unbundled network element, prices for DCS functionality shall be based on TELRIC; prior to the setting of permanent rates, SWBT may charge the interim rates determined by the Commission and set forth in Attachment I.

10.7.5.2 DCS is a function which provides automated cross connection of Digital Signal level 0 (DS0) or higher transmission bit rate digital channels within physical interface facilities. Types of DCSs include but are not limited to DCS 1/0s, DCS 3/1s, and

DCS 3/3s, where the nomenclature 1/0 denotes interfaces typically at the DS1 rate or greater with cross-connection typically at the DS0 rate. This same nomenclature, at the appropriate rate substitution, extends to the other types of DCSs specifically cited as 3/1 and 3/3. SWBT shall offer additional DCS port options for SONET as such technology becomes available.

10.7.5.3 Multiplexing may be provided as an option to DCS in locations where automated cross connection capability does not exist. **Where automated DCS is not available, DCS will be defined as the combination of the functionality provided by a Digital Signal Cross-Connect (DSX) or Light Guide Cross-Connect (LGX) patch panels, and D4 channel banks or other DS0 and above multiplexing equipment used to provide the function of a manual cross connection.**

10.7.5.4 Interconnection between a DSX or LGX to a switch, another cross-connect, or other service platform device, is included as part of DCS.

10.7.5.5 MCIm shall order DCS after establishment, on a per port basis (DS0, DS1 or DS3). MCIm shall specify the other UDT elements to which the DCS is to be connected.

10.7.5.6 MCIm shall specify interfaces for the DCS which are compatible with the other unbundled network components to which it is being connected.

10.7.6 UDT Provisioning Intervals

10.7.6.1 The Installation Interval is the time required to provision the UDT offering (i.e., the period between the application date and the install date). SWBT shall establish Installation Intervals in accordance with published SWBT interval guidelines and where possible, will reflect MCIm's requested installation date.

10.7.6.1.1 SWBT shall establish schedules that specify installation intervals, and the UDT elements and quantities that can be provided within the published interval.

10.7.6.1.2 SWBT shall install the UDT offering during SWBT normally scheduled work hours. If MCIm requests

that installation be done outside of normally scheduled work hours, and SWBT agrees to this request, MCIm will be subject to applicable charges described in Attachment I.

10.8 UDT Offering Configurations

10.8.1 Entrance Facility

10.8.1.1 The Entrance Facility UDT element provides for the transmission path between MCIm **designated** premises and the SWBT serving wire center of that premises.

10.8.1.2 MCIm may connect the Entrance Facility to other unbundled network components, including UDT elements (e.g., Multiplexing, I/O Transport or DCS), by the use of cross connects. Configurations for Cross Connects are listed in 10.8.4 and 10.8.5, following.

10.8.2 Unbundled Transport

10.8.2.1 The I/O Transport UDT element provides for the point to point transmission facilities between SWBT end office switches and/or wire centers, **and MCIm designated Locations**.

10.8.2.2 MCIm may connect I/O Transport to other unbundled network components, including UDT elements (Multiplexing, or DCS), by the use of cross connects. Configurations for Cross Connects are listed in 10.8.4 and 10.8.5 following.

10.8.2.3 SWBT offers the following UDT Bandwidths with Unbundled Transport.

- DS1 (1.544Mbps)
- DS3 (44.736Mbps)
- **OC3 (155.520Mbps)**
- **OC12 (622.080Mbps)**
- **OC48 (2,488.320Mbps)**

10.8.2.4 SWBT provides the Unbundled Transport element dedicated to MCIm. When MCIm requests a facility bandwidth, MCIm shall pay the rate for that facilities bandwidth whether or

not the facility is used to capacity of the bandwidth.

10.8.3 Multiplexing

10.8.3.1 The Multiplexing UDT element allows the conversion of higher capacity facilities to lower capacity facilities. Multiplexing cannot automatically rearrange entrance facilities, Unbundled Transport, or to provide for connections between the same Unbundled Transport. Multiplexing cannot be used to provide connections between DS3 to DS3; but, multiplexing can be used to convert SONET based facilities and Unbundled Transport to an equivalent synchronous transmission rate. SWBT will provide the following types of multiplexing:

10.8.3.1.1 DS1 to Voice Grade

Converts a 1.544Mbps signal into 24 Voice Grade channels.

10.8.3.1.2 DS3 to DS1

Converts a 44.736Mbps signal to 28 1.544Mbps channels using digital time division multiplexing.

10.8.3.1.3 OC3 to DS1

Converts a 155.520Mbps signal into 84 1.544Mbps channels.

10.8.3.1.4 OC3 to DS3

Converts a 155.520Mbps signal into 3 44.736Mbps channels.

10.8.3.1.5 OC12 to DS3

Converts a 622.080Mbps signal into 12 44.736Mbps channels.

10.8.3.1.6 OC12 to OC3

Converts a 622.080Mbps signal into 4 155.520Mbps channels.

10.8.3.1.7 OC48 to OC3

Converts a 2,488.320Mbps signal into 16 155.520Mbps channels.

10.8.3.1.8 OC48 to OC12

Converts a 2,488.320Mbps signal into 4 622.080Mbps channels.

10.8.3.2 MCIm shall order Multiplexing in accordance with the National Exchange Carrier Association, Inc. (NECA) Tariff F.C.C. No. 4, Subtending Wire Center section(s) and Wire Center section(s), and MCIm shall select the appropriate SWBT wire center when ordering.

10.8.3.3 MCIm shall only order Multiplexing connected to other unbundled network components, by the use of cross connects. Configurations for Cross Connects are listed in 10.8.4and 10.8.5 following.

10.8.3.4 SWBT provides the Multiplexing element dedicated to MCIm. MCIm shall pay for the multiplexing requested whether or not the equipment is used to capacity of the equipment.

10.8.3.5 MCIm shall use multiplexing when connecting a DS1 or greater bandwidth UDT element to SWBT analog end office switch.

10.8.4 Cross Connect

10.8.4.1 The Cross Connect UDT element connects unbundled network components, including UDT elements.

10.8.4.2 MCIm shall utilize a Cross Connect with each UDT element requested.

10.8.4.3 SWBT shall offer the Cross Connect UDT element in the following configurations, with or without automated testing equipment:

10.8.4.3.1 Voice Grade (2-Wire and 4-Wire)

10.8.4.3.2 DS1 (1.544Mbps)

10.8.4.3.3 DSO DCS to Cage Only

10.8.4.3.4 DS3 (44.736Mbps)

10.8.4.3.5 OC3 (155.520Mbps)

10.8.4.3.6 OC12 (622.080Mbps)

10.8.4.3.7 Dark Fiber

10.8.4.4 Cross Connects from a Collocation cage to UDT must be ordered as UDT Cross Connects.

10.8.5 Digital Cross Connect System (DCS)

10.8.5.1 The DCS is a central office cross-connect system for the remote reconfiguration of UDT facilities.

10.8.5.2 MCIm may utilize the DCS UDT element through the use of a terminal on MCIm premises to access a database maintained by SWBT to reconfigure MCIm's UDT facilities.

SWBT 10.8.5.2-1 MCIm may utilize the DCS UDT element through the use of a terminal on MCIm premises to access a database maintained by SWBT to reconfigure MCIm's UDT facilities. MCIm database setup is a grid, built by SWBT, that contains all the circuits MCIm shall be able to control and reconfigure. SWBT will provide MCIm training in the use of the DCS.

10.8.5.3 MCIm may use the DCS to directly access and control MCIm's 45Mbps services, 1.544Mbps services, subtending channels, and intermodal facilities (the facilities that connect a DCS in one central office with a DCS in another central office).

10.8.5.4 MCIm shall access the DCS by using a terminal on MCIm's premises in conjunction with MCIm's facilities or SWBT UDT elements, Entrance Facilities and/or I/O Transport, or in conjunction with a local telephone line with a seven digit telephone number.

10.8.5.5 SWBT shall make DCS available at those hubs where SWBT cross-connect systems are located. The DCS designations

are listed in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

10.8.5.6 DCS Options

10.8.5.6.1 SWBT shall make two DCS options available to MCIm:

- On-demand
- Reservation

10.8.5.6.2 The on-demand option allows MCIm to make immediate changes to the network, while the reservation option allows MCIm to execute a change at a specified time designated by MCIm.

10.8.5.7 DCS Functions

10.8.5.7.1 MCIm may use DCS to perform the following functions:

10.8.5.7.1.1 Routing/Rerouting

- The routing feature allows MCIm to select the routes that will be used to connect circuits between DCSs. MCIm may control the route selection process by various parameters according to MCIm's needs. MCIm may also reroute circuits from a failed internodal facility to a working one.

10.8.5.7.1.2 Renaming

-MCIm may rename their network locations, circuits, and facilities.

10.8.5.7.1.3 Special Day Definition

- MCIm may specify circuit reconfiguration on special days, e.g., payday, holidays.

10.8.5.7.1.4 Resource Verification

- MCIm may verify the resource availability for the reservation period in their reconfiguration request prior to the system's confirmation or denial of the request.

10.8.5.7.1.5 Transaction Log

- MCIm is provided the database log that contains every transaction involving reconfigurations.

10.8.5.7.1.6 Compatibility Table

- MCIm may view the allowable access line combinations that can be used with the DCS.

10.8.5.7.1.7 Path Priority

- MCIm may arrange its circuit paths in order of priority when multiple routes exist.

10.8.5.7.1.8 Reservation Summary Screen

- MCIm may view the status of its reconfiguration reservations.

10.8.5.7.1.9 MACRO Command/Network Modeling

- MCIm may initiate with one command, multiple two-point cross-connections. MCIm can build separate network models, such as day-time models, night-time models, and disaster recovery models and invoke their activation or switch from one to the other.

10.8.5.7.1.10 Variable Bandwidth

- On internodal facilities, MCIm may use the variable bandwidth feature interchangeably to connect full 45Mbps or 1.544Mbps services, or to connect one or more individual subtending

channels.

10.8.5.8 Technical Specifications

10.8.5.8.1 MCIm shall only cross-connect with DCS that have identical technical characteristics for compatibility and proper operations, e.g., Data to Data, Voice to Voice.

10.8.5.8.2 DCS specifications are delineated in Technical Reference TR-TSY-000366.

10.9 UDT Bandwidth Provisions

10.9.1 General

10.9.1.1 There are five types of UDT bandwidths, as follows:

- DS1 (1.544Mbps)
- DS3 (44.736Mbps)
- OC3 (155.520Mbps)
- OC12 (622.080Mbps)
- OC48 (2,488.320Mbps)

10.9.1.2 SWBT only provides each of the five channel types with specific:

- Transmission specifications
- Bandwidth
- Speed (i.e., bit rate)
- Spectrum.

10.9.2 Technical Specifications Packages

10.9.2.1 A matrix is included with each bandwidth description in this section which indicates the transmission parameters that are available with each Technical Specifications Package. The codes used to design the packages are constructed using the information shown across the top of the matrix as follows:

10.9.3 UDT DS1 Bandwidth

10.9.3.1 A DS1 channel is a channel for the transmission of 1.544

Mbps. SWBT shall provide DS1 channels **between MCIm designated premises.**

10.9.3.2 MCIm shall arrange for the Network Channel Terminating Equipment associated with the DS1 channel at the MCIm premises. MCIm shall use multiplexing when connecting DS1's to SWBT an SWBT analog and office switch.

10.9.3.3 Technical specifications for DS1 bandwidth are listed in the following Technical Reference Publications:

10.9.3.3.1 Technical Publication TP-76625

10.9.3.3.2 Technical Publication TR-INS-000342

10.9.3.4 Channel Interfaces (CI)

10.9.3.4.1 The following channel interface defines the bit rate that is available for a DS1 channel:

CI	Bit Rate
DS-15	1.544Mbps (DS1)

10.9.4 UDT DS3 Bandwidth

10.9.4.1 UDT DS3 bandwidth is a bandwidth utilizing DS3 (44.736Mbps) technology to provide dedicated high capacity transport. SWBT shall provide DS3 channels between MCIm **designated** premises, or between SWBT wire centers.

10.9.4.2 Technical References for DS3 bandwidth are listed in the following Technical Reference Publications:

10.9.4.2.1 Publication TP-76625

10.9.4.2.2 Technical Reference TR-INS-000342

10.9.5 UDT OC3 Bandwidth

10.9.5.1 UDT OC3 bandwidth is a bandwidth utilizing SONET

OC3 (155.520Mbps) technology to provide dedicated high capacity transport. **SWBT shall provide UDT OC3 channels between MCIm designated premises, or between SWBT wire centers.**

10.9.5.2 Technical specifications for OC3 bandwidth are listed in Technical Publication SWBT TP-76839 and Bellcore GR-253-CORE.

10.9.6 UDT OC12 Bandwidth

10.9.6.1 UDT OC12 bandwidth is a bandwidth utilizing SONET OC12 (622.080Mbps) technology to provide dedicated high capacity transport between MCIm **designated** premises. SWBT shall provide UDT OC12 channels between SWBT wire centers.

10.9.6.2 SWBT shall provide OC12 bandwidth with an optical interface at MCIm premises.

10.9.6.3 Technical specifications for OC12 bandwidth are listed in the publications: Technical Reference Bellcore GR-253-CORE and SWBT TP-76839.

10.9.7 UDT OC48 Bandwidth

10.9.7.1 UDT OC48 bandwidth is a bandwidth utilizing SONET OC48 (2,488,320Mbps) technology to provide dedicated high capacity transport. SWBT shall provide OC48 channels between SWBT wire centers.

10.9.7.2 Technical specifications for OC48 bandwidth are listed in the following publications: Technical Publication Bellcore GR-253-CORE and SWBT TP-76839.

10.10 Application of Rates

10.10.1 General

10.10.1.1 MCIm shall pay SWBT for UDT elements at the rates contained in Attachment I. SWBT shall apply rates and charges (both monthly and nonrecurring) for Missouri, based on Pricing

Zones, Urban, Suburban and Rural. The Pricing Zone for each serving wire center is specified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4. Additionally, the rate for UDT includes between zone charges when a facility terminates in two different zone offices.

10.10.2 UDT

10.10.2.1 MCIm shall pay the UDT I/O Transport First Mile rate for the facility termination charges and up to 1 mile of interoffice mileage. MCIm shall pay the UDT I/O Transport Per Mile rate per month for UDT for each additional mile over the first mile.

10.10.3 Multiplexing

10.10.3.1 MCIm shall pay a rate per month per Multiplexing used.

10.10.3.2 MCIm shall use DS1 to Voice Grade Multiplexing, when connecting DS1 or higher UDT facility elements to a SWBT analog end office switch.

10.10.4 Digital Cross-Connect System

10.10.4.1 DCS Establishment Charge

10.10.4.1.1 MCIm shall pay the DCS establishment charge per MCIm database setup. MCIm database setup is a grid, built by SWBT, that contains all the circuits MCIm shall be able to control and reconfigure. SWBT will provide MCIm training in the use of the DCS.

10.10.4.2 Database Modification Charge

10.10.4.2.1 MCIm shall pay this charge (per MCIm contact, or request) each time MCIm requests a subsequent modification of its database. A modification can be an addition or deletion of circuits terminating on the cross-connect system, or a rearrangement of the