

APPENDIX NEXT GENERATION DIGITAL LOOP CARRIER (NGDLC)

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1 INTRODUCTION

- 1.1 ***This Appendix NGDLC sets forth the terms and conditions for providing a Digital Subscriber Line (“DSL”) service over Next Generation Digital Loop Carrier (“NGDLC”) deployed in conjunction with the SBC ILLINOIS Project Pronto deployment consistent with the Illinois Commerce Commission (ICC) order on rehearing in Docket 00-0393. Furthermore, this Appendix establishes terms and conditions for the other Project Pronto related components specifically addressed in the Commission order in the same Docket mentioned above.***
- 1.2 ***This Appendix NGDLC Section is not intended to address additional unbundled network elements (“UNEs”) that may otherwise be available in the SBC ILLINOIS outside loop plant network. MCI may obtain UNEs that otherwise are available (e.g. copper subloops and/or dark fiber) under the terms and conditions provided in the interconnection agreement or tariff as applicable.***
- 1.3 ***Where SBC ILLINOIS has deployed remote terminals with NGDLC, SBC ILLINOIS must provide MCI with access to the transmission facility from the customers’ premises to the central office, including access to unbundled packet switching in order to transport the data signals from the RT to the terminating port on the Optical Concentrating Device (OCD).***
- 1.4 ***Access to the Broadband UNEs are provided under this Appendix NGDLC where NGDLC is deployed, operational, and facilities are available, unless otherwise provided by this agreement. Deployment of NGDLC will be at the sole discretion of SBC ILLINOIS, unless otherwise provided by this Appendix NGDLC, interconnection agreement, or as provided by the Commission’s Order in 00-0393. SBC ILLINOIS will provide to MCI information regarding the deployment of this technology through the DSL Tracking Inquiry Tool (“DTI”) available via CLEC Online.***
- 1.5 ***Any xDSL offering established under the terms of this Agreement must be technically feasible given the SBC ILLINOIS NGDLC deployed in a specific RT site. Additionally, any service provisioned over the network architecture described herein is subject to the technical specifications outlined in the SBC ILLINOIS “Broadband Service Technical Publication” located in the CLEC Handbook, as long as they are consistent with the Commission’s Order in 00-0393, any other applicable Commission or FCC Order, and state and federal law.***
- 1.6 ***At this time, the only form of xDSL offering available with the architecture implemented by SBC ILLINOIS is ADSL. To date, SBC ILLINOIS has deployed ADSL line cards in the ATM portion of the NGDLC equipment. The application of additional forms of xDSL and other ATM Quality of Service (“QoS”) offerings to this architecture consistent with the Commission order in 00-0393 is discussed in Section 9 of this Appendix.***
- 1.7 ***With respect to the end-to-end HFPL UNE, all line cards deployed in conjunction with the Project Pronto network architecture will be owned and maintained by SBC ILLINOIS.***

2 DEFINITIONS

- 2.1 *The term Digital Loop Electronics (“DLE”) refers to the specific outside plant loop network infrastructure that is described in detail above. For billing purposes, this term will be utilized interchangeably with the term NGDLC.*
- 2.2 *The term Digital Subscriber Line (“DSL”) for the purposes of this Appendix NGDLC describes various technologies and services. The “x” in “xDSL” is a place holder for the various types of DSL services, including, but not limited to ADSL (Asymmetric Digital Subscriber Line), HDSL (High-Speed Digital Subscriber Line), IDSL (ISDN Digital Subscriber Line), SDSL (Symmetrical Digital Subscriber Line), UDSL (Universal Digital Subscriber Line), VDSL (Very High-Speed Digital Subscriber Line), and RADSL (Rate-Adaptive Digital Subscriber Line).*
- 2.3 *Intentionally Omitted*
- 2.4 *The term Asynchronous Transfer Mode (“ATM”) for the purposes of this Appendix NGDLC describes a packet-based technology that offers the efficiency of packet switching and the reliability of a circuit switched network.*
- 2.5 *The term Packet Switching is defined as the function of routing individual data units, or “packets,” based on address or other routing information contained in the packets.*
- 2.6 *The term Serving Area Interface (“SAI”) or Feeder Distribution Interface (“FDI”) is where the trunk line, or “feeder,” leading back to the central office, and the “distribution” plant, branching out to the subscribers, meet, and “interface.” The SAI/FDI might be located in the utility room in a multi-dwelling unit, in a remote terminal, or in a controlled environment vault (CEV).*
- 2.7 *The term subloop is defined as any portion of the loop that is technically feasible to access at terminals in SBC ILLINOIS’s outside plant, including inside wire. An accessible terminal is any point on the loop where technicians can access the wire or fiber within the cable without removing a splice case to reach the wire or fiber within. Such points may include, but are not limited to, the pole or pedestal, the network interface device, the minimum point of entry, the single point of interconnection, the main distribution frame, the remote terminal, and the FDI.*
- 2.8 *The term Digital Loop Carrier (“DLC”) describes systems that digitally encode and aggregate, i.e. “multiplex,” the traffic from subscriber’s loops into DS1 signals or higher for more efficient transmission or extended range beyond that traditionally permitted by copper loops. The analog signals are carried from the customer premises to a remote terminal (RT) where they are converted to digital signals, multiplexed with other signals, and carried, generally over fiber, to the LEC central office.*
- 2.9 *The term Next Generation Digital Loop Carrier (“NGDLC”) for the purposes of this Appendix NGDLC describes a form of DLC that is capable of providing a time slot interchange functionality for the provision of voice (e.g. POTS traffic) from the RT to the CO local switch and capable of supporting xDSL via packetized (e.g. ATM traffic) from the RT to the central office.*

- 2.10 ***A Remote Terminal (“RT”) site is defined as either a Controlled Environmental Vault (“CEV”); Hut; and/or Cabinet.***
- 2.11 ***A Serving Wire Center (“SWC”) is defined as an end office equipped with an OCD with subtending RT sites equipped with the Project Pronto NGDLC architecture.***
- 2.12 ***An Optical Concentration Device (“OCD”) for the purposes of this Appendix NGDLC is defined as a packet switch and router deployed in an end office for the purposes of routing and aggregation of incoming data traffic from an NGDLC equipped RT.***
- 2.13 ***A Permanent Virtual Circuit (“PVC”) for the purposes of this Appendix NGDLC is defined as a virtual circuit that provides the equivalent of a dedicated private line service over a packet switched network architecture.***
- 2.14 ***The term Constant Bit Rate (“CBR”) for the purposes of this Appendix NGDLC is defined as an ATM Quality of Service (“QoS”) set by the International Telecommunications Union-Telecommunications Services Sector (ITU-T). CBR provides a transmission path through the packet switched portion of a network architecture at dedicated rates of speed (e.g. bandwidth).***
- 2.15 ***A Unspecified Bit Rate (“UBR”) for the purposes of this Appendix NGDLC is defined as an ATM QoS set by the ITU-T. UBR provides a transmission path through the packet switched portion of the Project Pronto network architecture (the OC level data transport and the OCD) at unspecified rates of speed using only the available bandwidth.***
- 2.16 ***The term Constant Bit Rate Permanent Virtual Circuit (“CBR PVC”) for the purposes of this Appendix NGDLC is defined as PVC providing a constant, dedicated allocation of bandwidth through the packet switched portion of the Project Pronto network architecture.***
- 2.17 ***The term Unspecified Bit Rate/Constant Bit Rate (“UBR+CBR”) for the purposes of this Appendix NGDLC is defined as an arrangement offering one or more UBR PVC(s) and one more or CBR PVC(s) as technically feasible.***

3 NETWORK ARCHITECTURE

- 3.1 ***The Project Pronto infrastructure deployed by SBC ILLINOIS currently consists of the following network architecture: an RT site equipped with NGDLC; RT derived copper facilities extending from the RT site to the customer premises; dedicated fiber strands from the NGDLC RT to the central office with individual strands specific to voice and data respectively; NGDLC deployed in the Central Office Terminal (“COT”) for the transport of the voice traffic from the RT site to the SBC ILLINOIS voice switch and/or Main Distribution Frame (“MDF”); and ATM capacity that will act as an OCD for the purpose of routing “packets” from the data facilities to a MCI leased port on the OCD. Nothing in this section precludes either party to seek additional functionalities as set forth in section nine of this Appendix NGDLC.***
- 3.2 ***NGDLC has been or will be installed in RT sites to effectively shorten the copper facility, as measured from the RT location, to less than 12 Kilofeet (“Kft”) in most instances. The feeder cable is currently spliced to the backplane of the NGDLC***

placed in the RT site, although SBC ILLINOIS is required to provide MCIIm with unbundled access to subloops to access the copper wire portion of the loop with pricing based on a forward-looking, efficient network design which will be determined in the permanent pricing phase of Docket No. 00-0393. A 2-wire copper cross-connect will be made in the SAI to migrate an existing distribution copper facility (associated with a subscriber address) from its existing copper feeder facility to the NGDLC. This cross-connect will serve to move the end-users line from the existing copper based network topology onto the fiber/copper network architecture, effectively shortening the length of the copper facilities (feeder and distribution) from the RT site to the end user premises. MCIIm access to subloops is addressed in Section 10.

- 3.3 *A combination voice and data card or data card will be placed in the NGDLC equipment in the RT site. At this time the only card being deployed by SBC ILLINOIS for xDSL offerings over the ATM network is an ADSL line card. SBC ILLINOIS is deploying HDSL-4 cards on the TDM portion of the network. The procedure for introducing new xDSL line cards consistent with the Commission order in Docket 00-0393 is discussed in Section 9 of this Appendix. This card contains the electronics that generate and receive data transmissions carried from the end-user to the central office via a remote terminal. The card also performs multiplexing and splitter functions that the system cannot otherwise provide. One or more PVCs will be established to route the data signal from the NGDLC to the OCn level ATM data transport facility to the central office and subsequently to the MCIIm leased OCD port.*
- 3.4 *From the RT site, OCn level transport will be utilized to transport voice and data from the RT site to the Central Office on a non-protected fiber. An Asynchronous Transfer Mode (“ATM”) based OCn level transport facility will be provided for the data portion, and a Time Division Multiplexed (“TDM”) based OCn level transport facility will be provided for the voice path. In the central office, the incoming data OCn level transport facility terminates on the FDF and will be delivered to the OCD. The OCD aggregates OCn level transport facilities from multiple RTs and routes the traffic to the appropriate MCIIm outbound OCn level, DS3c, or DS1 port leased on the OCD. The voice OCn level transport facility also terminates on the FDF and will be delivered to the COT. From the COT the voice path is extended to the SBC ILLINOIS voice switch or to the MDF.*

4 NETWORK CONFIGURATIONS

- 4.1 *SBC ILLINOIS must provide MCIIm access to the unbundled loop element from the demarcation point at the customer’s premises to the termination (port) on the OCD in the central office, including the associated electronics at the RT and the central office.*
- 4.2 *MCIIm access to the SBC ILLINOIS Project Pronto architecture pursuant to this Appendix NGDLC will be offered in two network configurations: A Data configuration in which the MCIIm is provided several different means to provision xDSL offerings over the Project Pronto architecture; and a Combined Voice and Data configuration in which MCIIm is provided the means to provision both voice and data over the Project Pronto network architecture.*

- 4.3 ***One of MCI's means of access to the data portion of the Project Pronto architecture (as provisioned through the OCD), whether in the Data configuration or Combined Voice and Data configuration, is via collocation in the end office. If MCI decides to access Project Pronto via collocation, MCI is required to be collocated at each end office in which MCI desires to access the Project Pronto architecture. MCI is responsible to ensure that any necessary collocation arrangement, whether virtual and/or physical, and any subsequent collocation augments are completed and in place in each serving wire center in which MCI desires to place an order for any of the network components described within this Agreement.***
- 4.4 ***MCI's means of access to the voice portion of the Project Pronto in the Combined Voice and Data configuration is provided in two different manners. In the instance in which MCI desires to receive the voice physically in their collocation arrangement from the MDF SBC ILLINOIS will extend the voice signal to MCI's collocation arrangement in a like manner to a standard unbundled loop. Alternatively, subject to the same terms governing availability of the UNE-P with respect to UNE loops in MCI's interconnection agreement or tariff as applicable, MCI may order voice service through the Combined Voice and Data configuration in a UNE-Platform ("UNE-P") where no cross-connect to collocation will be necessary.***
- 4.5 ***The procedures for introducing new features and functions are addressed in Section 9 of this Appendix NGDLC.***

5 DATA CONFIGURATION

- 5.1 ***The data configuration provides MCI the capability to provision data connectivity from an end user location through the SBC ILLINOIS OCD. Such configuration will provide MCI the capability of provisioning an xDSL offering to the end user location. Under this configuration, any underlying voice service will continue to be provided by SBC ILLINOIS. The following network components outlined in Section 5 of this Appendix NGDLC will be necessary in order for MCI to provision an xDSL service over NGDLC.***
- 5.2 ***The procedures for introducing new features and functions are addressed in section 9 of this Appendix NGDLC.***
- 5.3 ***Subloops***
- 5.3.1 ***MCI can order at least (2) Subloop options in order to provide MCI the capability of provisioning data connectivity from the customer premises to the RT site over existing distribution copper facilities:***
- 5.3.2 ***HFPSL. In the case in which MCI desires to transport its customers' data with SBC ILLINOIS transporting the customers' voice over the same copper facility from the RT to the end user, MCI will order the High Frequency Portion of the Subloop ("HFPSL") option. The HFPSL is equivalent to the high frequency portion of the existing copper facility from the RT site to the end user premises and is shared with the AMERITECH IL existing voice service.***

- 5.3.3 ***Data Only Subloop.*** In the case in which MCI_m desires to provide an xDSL service utilizing the full copper facility from the RT site to the end user premises (non-line shared), MCI_m will order a Data Only Subloop. This Subloop is the full physical copper facility from the RT site to the NID at the customer premise and constitutes a separate copper facility to the existing copper facility used to provide voice service.
- 5.3.4 ***Intentionally Omitted.***
- 5.3.5 ***The existing loop qualification rates and process available in conjunction with unbundled DSL capable loops, modified to include NGDLC specific information, will be made available to MCI_m upon request in order to determine which locations can be served via this arrangement.***
- 5.4 ***Permanent Virtual Circuit (“PVC”)***
 - 5.4.1 ***ADSL PVC.*** In addition to the Subloop components outlined above, MCI_m will order a PVC from the RT to the MCI_m leased OCD Port.
 - 5.4.2 ***The PVC network component, which will include the use of the line card, common control software and equipment and other supporting software and equipment necessary for use of the PVC, will consist of a permanent virtual circuit to transmit the data signal from the NGDLC equipped RT over the OC_n level fiber facility to the OCD in the central office and subsequently aggregate traffic through the OCD to the MCI_m OCD Port Termination. This network component will be required in addition to the HFPSL, Data Only Subloop, or Combined Voice and Data Loop and the OCD Port Termination.***
 - 5.4.3 ***Initially, SBC ILLINOIS is only offering an ADSL Class of Service PVC. The potential deployment of additional PVC Classes of Service are outlined in detail in Section 9 of this Appendix NGDLC.***
 - 5.4.4 ***Intentionally Omitted.***
 - 5.4.5 ***PVCs are made available by SBC ILLINOIS at the ATM Qualities of Service outlined below in Section 7.0 of this Appendix NGDLC. SBC ILLINOIS is offering three basic PVCs as of this time: CBR, UBR and CBR+UBR.***
- 5.5 ***OCD Port Termination***
 - 5.5.1 ***OCD Port Termination.*** In addition to the Subloop and PVC components outlined above, MCI_m will order an OCD Port Termination. At this time, the OCD will aggregate incoming PVCs from multiple RT locations and route MCI_m traffic to the MCI_m leased port on the SBC ILLINOIS OCD.
 - 5.5.2 ***SBC ILLINOIS is offering three forms of OCD Port Termination: OC-3c, DS3 and DS1. Specific terms and conditions for the use of the various OCD Ports is outlined in Section 8 of this Appendix NGDLC.***
- 5.6 ***Cross-Connects***
 - 5.6.1 ***The following additional cross-connects may be applicable:***

- 5.6.1.1 ***Serving Area Interface (“SAI”) Cross-Connect. The SAI Cross-Connect will be required in the field to connect the feeder copper cable pair from the NGDLC equipped RT site to the distribution cable pair serving the individual customer premises. If the end user has already been converted to the NGDLC architecture for the provision of voice services this cross-connect will continue to be required to convert the customer from the voice portion of the NGDLC system to an xDSL capable line card. If the end user has already been converted to the NGDLC architecture for the provision of xDSL service this cross-connect will not be required.***
- 5.6.1.2 ***OCD Cross-Connect to Collocation. An OCD cross-connect may be purchased by MCI to extend the OCD Port Termination to either a virtual or physical collocation arrangement. This cross-connect will be provided for at like speed to MCI’s chosen OCD Port: OC-3c, DS3 or DS1.***

6 **COMBINED VOICE AND DATA CONFIGURATION**

- 6.1 ***The Combined Voice and Data Configuration provides a means by which MCI may provide both the voice and data service to an end user over the Project Pronto architecture.***
- 6.2 ***This network configuration will utilize an underlying voice path provisioned over NGDLC delivered to the MDF and/or provided to MCI in a UNE-P arrangement. Use of this network component in addition to the PVC and OCD Port Termination network components will provide MCI a combined voice and data solution. Such network configuration provides MCI the capability to provision both voice and data services via a single copper facility from the remote terminal to the customer premises.***
- 6.3 ***MCI will be provided the capability to access the data traffic in a like manner as that outlined above for the data configuration: via a leased port on the OCD. MCI will have the option to purchase a cross-connect from the OCD to a collocation cage of MCI’s choice in the central office.***
- 6.4 ***MCI will be provided the capability to access the voice traffic in two different manners. The first is via collocation, in which case SBC ILLINOIS will extend a physical copper connection from the MDF to MCI’s collocation arrangement in the serving wire center. The second is via a UNE-P arrangement, in which case no collocation will be necessary. Under the UNE-P option, SBC ILLINOIS is required to take the voice traffic from the remote terminal to the MDF and cross connect the traffic to the appropriate switch port.***
- 6.5 ***Although it is technically feasible to carry both voice and data on a single fiber, due to the current nature of the Project Pronto infrastructure voice and data traffic from a common copper facility will be split into two distinct paths in the NGDLC equipped RT as addressed above. In the instance in which MCI desires to access the voice and data directly at their collocation arrangement (in lieu of a UNE-P arrangement or other arrangement for data) SBC ILLINOIS will provide MCI with***

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two distinct hand-off points at their selected virtual or physical collocation arrangement for voice and data traffic respectively.

6.6 **Combined Voice & Data Network Components**

- 6.6.1 *In addition to the existing PVC and OCD Port Termination Components outlined above, in order to provision a combined voice and data service over NGDLC, MCI can order one of the two versions of the Combined Voice and Data Voice Path outlined below. The subloop components outlined with the data configuration are not available for use in the Combined Voice and Data configuration and are replaced by the use of one of the Combined Voice and Data Voice Paths.*
- 6.6.2 *Combined Voice and Data Loop. MCI may order a voice path consisting of a full 2-wire copper facility from the RT site to the end user location together with the voice path from the NGDLC equipped RT site to the MDF in the central office. Both voice and data will be provisioned over the copper facility. MCI can purchase a cross-connect from the MDF to the appropriate switch port.*
- 6.6.3 *Combined Voice and Data UNE-P Loop. This path will be the same as the Combined Voice and Data Loop however it will be extended directly to an unbundled switch port. In this instance MCI will not be required to collocate to access the voice traffic.*
- 6.6.4 *The specific terms for the provision of UNE-P voice in this arrangement will be the same as those terms provided for in the provision of UNE-P in the Agreement. Rates for the new Combined Voice and Data UNE-P Loop will be set in the permanent pricing phase of Docket No. 00-0393.*
- 6.6.5 *Voice Only Configuration. MCI can purchase an unbundled loop from the demarcation point at the customer's premises to the MDF in the central office, with associated cross connects to a collocation cage or an unbundled switch port, as a UNE over the Project Pronto facilities. Prices for this unbundled loop will be established in the permanent pricing phase of Docket No. 00-0393.*

7 **ATM QUALITIES OF SERVICE ("QoS")**

- 7.1 *Initially, SBC ILLINOIS is offering two forms of ATM QoS options in conjunction with the PVC components outlined in this Appendix: 1) UBR and 2) CBR.*
- 7.2 **UBR**
- 7.2.1 *SBC ILLINOIS is offering MCI an Unspecified Bit Rate ("UBR") QoS PVC for the establishment of MCI ADSL service.*
- 7.2.2 *The UBR PVC will provide MCI an allocation of the "available" (nondedicated) bandwidth at the time an individual end user accesses the Project Pronto architecture.*

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- 7.2.3 *Initially, MCIIm is restricted to the provision of Discrete Multi-Tone (“DMT”) service in conjunction with the UBR and CBR PVCs.*
- 7.2.4 *Initially, the maximum number of PVCs that can be provisioned over the Project Pronto architecture is dependent upon the form of OCD Port Termination purchased by MCIIm. Additionally, upstream and downstream bandwidth specified by MCIIm will further impact the volume of PVCs capable of being provisioned through the OCD. MCIIm will be responsible for ensuring that there is sufficient capacity on its leased OCD ports (DS1, DS3c or OC-3c) to support MCIIm provided PVCs over this infrastructure.*
- 7.2.5 *SBC ILLINOIS should provide MCIIm with options for different amount of bandwidth. Some QoS classes are currently available and additional QoS classes will become available in the near future to allow MCIIm the opportunity to provide distinctive offerings, if it so chooses. SBC ILLINOIS is required to provide evidence that different QoS classes are not technically feasible. If MCIIm wishes to provide a certain service, it is up to SBC ILLINOIS to provide that the service is incompatible with the current architecture. This process is described in further detail in Section 9.*
- 7.2.6 *PVCs are configured in advance by ATM service providers between the MCIIm end user customer and a single service provider. Under the terms of this Agreement, MCIIm represents the single service provider. MCIIm is responsible for providing the information necessary for SBC ILLINOIS to provision the PVC over the SBC ILLINOIS Project Pronto network architecture. This information will be provided by MCIIm to SBC ILLINOIS pursuant to the CLEC Information Form (CLIF) process and the CLEC Profile Process as outlined in this Agreement, as addressed in the CLEC Handbook, so long as the terms of the handbook are consistent with the Commission’s Order in 00-0393.*
- 7.2.7 *SBC ILLINOIS will be responsible for network monitoring of the use of the common OCn level loops between the central office and the RT site. In the provisioning of a PVC, MCIIm will be restricted to upstream and downstream bandwidth, aggregate power and noise settings which are technically feasible given the card vintage deployed in the NGDLC equipment. SBC ILLINOIS must prove to the Commission that MCIIm’s PVC is not technically feasible.*
- 7.2.8 *Intentionally Omitted.*
- 7.3 **CBR**
- 7.3.1 *SBC ILLINOIS will make available and MCIIm may order a Constant Bit Rate (“CBR”) QoS PVC for the establishment of MCIIm DSL service.*
- 7.3.2 *The CBR PVC will provide MCIIm a dedicated, fixed allocation bandwidth to the end user across the Project Pronto architecture. The standard CBR PVC offering will be 96 kbps. Subject to the Special Request Process contained in the Broadband Services Agreement, MCIIm may order CBR service in excess of 96 kbps CBR to meet customer requirements. These products will be provided unless AMERITECH demonstrates that such provisioning is either technically or economically infeasible. MCIIm is aware*

that the permanent pricing of the NGDLC UNE-P has not been completed and that the price of a CBR PVC tends to increase with the increase in bandwidth. The potential of offering higher bandwidth CBR services is outlined in Section 9 of this Appendix NGDLC on Future Features and Functions.

- 7.3.3 *Omitted intentionally.*
- 7.3.4 *Omitted intentionally.*
- 7.3.5 *Omitted intentionally.*
- 7.3.6 *Initially, CBR bandwidth will be allocated on a first come first serve basis. The potential of offering higher bandwidth CBR services is outlined in Section 9 of this Appendix NGDLC on Future Features and Functions.*
- 7.3.7 *Initially, in provisioning a CBR PVC, SBC ILLINOIS will apply the following QoS parameters.*
 - 7.3.7.1 *Upstream Cell Transfer Delay 3ms;*
 - 7.3.7.2 *Downstream Cell Transfer Delay 2 ms;*
 - 7.3.7.3 *Upstream Cell Delay Variance 1.2 ms;*
 - 7.3.7.4 *Downstream Cell Delay Variance .7 ms;*
 - 7.3.7.5 *Cell Loss Ratio 7x10-9*
- 7.3.8 *The potential of offering higher bandwidth or different CBR services is outlined in Section 9 of this Appendix NGDLC on Future Features and Functions.*
- 7.3.9 *Initially, SBC ILLINOIS will provide two CBR serving arrangements: CBR PVC within which a CBR PVC will be offered in a like manner to the UBR PVC offering outlined above; and CBR+UBR within which MCIIm will be provided the use of both a CBR and a UBR PVC per end user. The potential of offering higher bandwidth or different CBR services is outlined in Section 9 of this Appendix NGDLC on Future Features and Functions.*
- 7.3.10 *Omitted intentionally.*

8 OCD PORT TERMINATION

- 8.1 *The incoming dedicated OCn level transport for data will terminate on the OCD. An OCD will be placed in each end office where this element is made available. MCIIm will be required to purchase a port termination on the OCD. The OCD Port Termination will be provided at the DS1, DS3c or OC-3c port rate as ports on the OCD where technically feasible and/or supported by the OCD manufacturer.*
- 8.2 *Omitted intentionally.*
- 8.3 *In addition to the OCD Port Termination, MCIIm may purchase a physical OCD cross-connect. This cross-connect will be an optical cross-connect in the case of an OC-3c, or electrical in the case of a DS3c or DS1 OCD port. MCIIm must*

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establish the necessary collocation arrangement capable of accepting the OCD cross-connect prior to placing an order for the OCD Cross-Connect.

- 8.4 *In the case of a DS1 or DS3c port, the necessary collocation arrangement must consist of a physical piece of equipment capable of accepting a DS1/DS3c cross-connect consistent with the collocation tariffs approved by the Illinois Commission.*
- 8.5 *In the case of an OC-3c port, the necessary collocation arrangement must consist of a physical piece of equipment capable of accepting an OC-3c optical crossconnect consistent with the collocation tariffs approved by the Illinois Commission.*
- 8.6 *The OCD OC-3c, DS3c, or DS1 cross-connect consists of an optical or electrical cross-connect from the FDF or DSX location respectively in the SWC that will allow for the OCD Port Termination to be extended to MCI's physical or virtual point of collocation, consistent with the collocation tariffs approved by the Illinois Commission.*
- 8.7 *Omitted intentionally.*
- 8.8 *Until such time as SBC ILLINOIS provides MCI with the ability to order DS1 functionality, SBC ILLINOIS shall provide MCI with current capabilities (DS3 or OC3), but shall charge no more than the price for a DS1 OCD port. When DS1 functionality is made available, MCI are required to either move off of the higher bandwidth facility or continue with the DS3 level and pay the appropriate charge. The timeframe for MCI to transfer service is five business days from when SBC ILLINOIS notifies MCI that DS1 functionality is available.*
- 8.9 *Intentionally omitted.*
- 8.10 *Intentionally omitted.*
- 8.11 *SBC ILLINOIS reserves the right to provide a DS1 OCD port via the demultiplexing of a DS3 OCD port into individual DS1s.*

9 AVAILABILITY OF FUTURE FEATURES AND FUNCTIONALITIES

- 9.1 *At this time only ADSL/UBR and ADSL/CBR QoS are available in conjunction with the Broadband UNEs as outlined in this Appendix NGDLC. SBC ILLINOIS will encourage its vendors in consultation with CLECs to develop line cards that support other xDSL services or that are universal in application. When new cards become available, SBC ILLINOIS shall have the same obligations as it does with respect to ADSL cards. Any line card produced or licensed by the manufacturer of the NGDLC will be presumed to be technically feasible to provision and acceptable for deployment. SBC ILLINOIS will deploy any new line card within 30 calendar days of MCI's request. If SBC ILLINOIS does not deploy commercially available line cards within 30 calendar days, AMERITECH IL shall be required to show the Commission why a certain technology is not technically or economically feasible to provision.*

- 9.2 ***SBC ILLINOIS shall continue its collaborative efforts with CLECs to ensure that additional capabilities that are technically feasible are introduced for the benefit of all end-users.***
- 9.3 ***Should the vendor(s) of the NGDLC deployed in conjunction with Project Pronto develop in the future, for use with the Project Pronto NGDLC equipment a feature or functionality (such as other versions of xDSL or additional ATM QoS offerings) desired by MCI, or should MCI desire a higher grade ATM QoS than currently made available, SBC ILLINOIS shall have the burden to show, why, from either a technical or economic feasibility standpoint, it cannot be provisioned at MCI's request. The Illinois Commission is the appropriate forum to address additional concerns of the parties should they arise.***

10 ACCESS TO UNBUNDLED SUBLOOPS AND/OR DARK FIBER

- 10.1 ***Where technically feasible, SBC ILLINOIS must provide MCI access to the copper subloop at the remote terminal, with pricing based on a forward-looking, efficient network design (such pricing will be developed in the permanent pricing phase of Docket No. 00-0393). If the only technical solution to access subloops for a particular RT is the Engineering Controlled Splice (ECS), SBC ILLINOIS must build an ECS for MCI. The intervals for providing copper subloops that are in the existing interconnection agreement between the parties shall apply to SBC ILLINOIS's obligations to provide access to the copper subloop at the remote terminal, unless the parties agree to different time intervals. SBC ILLINOIS must provide dark fiber to MCI as specified in the existing interconnection agreement or tariff as applicable.***

11 REUSE OF FACILITIES

- 11.1 ***Each Party will abide by applicable federal and state laws and regulations in obtaining End User authorization prior to changing an End User's Local Exchange Carrier to itself and in assuming responsibility for any applicable charges as specified in the FCC's rules regarding Subscriber Carrier Selection Changes (47 CFR 64.1100 through 64.1170) and any applicable state regulation.***
- 11.2 ***The provisions for CPNI, end user authorization, and reuse of UNE facilities in the existing interconnection agreement or tariff as applicable will apply to this Appendix NGDLC section, subject to applicable federal and state laws and regulations.***
- 11.3 ***Intentionally omitted.***
- 11.4 ***Each Party shall cooperate with any investigation of a complaint alleging an unauthorized change in local exchange service at the request of the FCC or the Commission.***
- 11.5 ***Intentionally omitted.***

12 OCD PORT SHARING

- 12.1 *MCIIm can share an OCD Port leased by MCIIm with third parties to this agreement requesting shared use of the MCIIm OCD Port Termination. Such arrangement shall be offered at the sole discretion of MCIIm, without any involvement or facilitation by SBC ILLINOIS. MCIIm shall agree upon one single point of contact for Ameritech IL. The single point of contact is responsible for all matters surrounding the lease of an OCD port. Ameritech IL will bill the single point of contact for the entire OCD port. It is MCIIm's responsibility to bill each other in the case of OCD port sharing.*
- 12.2 *Intentionally omitted.*
- 12.3 *Intentionally omitted.*

13 PROVISIONING AND INSTALLATION

- 13.1 *SBC ILLINOIS will not guarantee that the copper subloop arrangements provided in conjunction with this Appendix NGDLC will perform as desired by MCIIm for xDSL-based or other advanced services, but will guarantee basic metallic loop parameters, including continuity and pair balance. MCIIm-requested testing by SBC ILLINOIS beyond these parameters will be billed on a time and materials basis at the applicable tariffed rates. On loops where MCIIm have requested that no conditioning be performed, SBC ILLINOIS's maintenance will be limited to verifying loop suitability based on POTS design. For loops having had partial or extensive conditioning performed at MCIIm's request, SBC ILLINOIS will verify continuity, the completion of all requested conditioning, and will repair at no charge to MCIIm any gross defects which would be unacceptable based on current POTS design criteria and which do not result from the loop's modified design.*
- 13.2 *MCIIm shall designate, at the MCIIm's sole discretion, what loop conditioning SBC ILLINOIS is to perform in provisioning subloop orders. Conditioning may be ordered on any of the copper subloops outlined herein of any length. Rates for loop conditioning are the same as those set forth for standard xDSL contained in Pricing Appendix to the interconnection agreement or tariff as applicable.*
- 13.3 *Provisioning and installation of the network components and service configurations described in this Appendix NGDLC will be provided for in two separate service orders: MCIIm infrastructure orders and MCIIm End User specific orders.*
- 13.4 *Infrastructure Service Order*
- 13.4.1 *The Infrastructure Service order is required for the establishment of data connectivity from the OCD to the MCIIm collocation arrangement (at MCIIm's option) and subsequent ATM network. This order consists of the OCD Port Termination and associated Cross-Connect to Collocation (at 00-0393 MCIIm's option). These components will be provided for on one Access Service Request ("ASR").*
- 13.4.2 *MCIIm must complete the necessary network infrastructure to support its DSL service in the NGDLC environment two (2) business days prior to placing an end user specific order as defined below.*

- 13.4.3 *In conjunction with each ASR submitted, MCI must also submit a CLEC Information Form (“CLIF”) indicating virtual parameters that must be established in conjunction with the MCI leased OCD Port Termination. These parameters include the following: Customer Address (Point of Presence (“POP”) Location); Connection Speed (OC-3c, DS3c, or DS1); Connection Type (UNI DCE or UNI DTE); Virtual Path Indicator (“VPI”) and Virtual Channel Indicator (“VCI”) Ranges; and Number of Connections. These parameters may change if additional features or functionalities are added pursuant to Section 9 of this Appendix NGDLC .*
- 13.4.4 *Specific VPI/VCI values provided on the CLIF must be consistent with published parameters outlined in the SBC ILLINOIS “Broadband Service UNE Technical Publication,” as approved by the Illinois Commission so long as the parameter does not conflict with the Commission’s Order in 00-0393. This document outlines the compatible VPI/VCI ordering ranges with SBC ILLINOIS equipment deployed in conjunction with this architecture.*

13.5 *End User Specific Order*

- 13.5.1 *The MCI end user specific orders consist of the DLE-xDSL HFPSL; the DLE-Subloop; or the DLE Combined Voice and Data Loop. These elements plus the PVC element to establish data connectivity will provide the configurations outlined above, to end user location. These network components will be ordered on one Local Service Request (“LSR”).*
- 13.5.2 *Prior to the issuance of an end user specific order MCI must build the prospective CLEC Profile (“CLEC Profile”) MCI desires to offer in conjunction with the UNEs outlined in this Agreement. Terms and conditions for the establishment of the CLEC Profile are outlined in the following section CLEC Profile.*
- 13.5.3 *If MCI elects to receive both voice and data at collocation arrangements under the Combined Voice and Data arrangement outlined above, MCI must complete the Dual Inventory Collocation process as referenced in the Broadband Service Ordering Guidelines and/or CLEC Handbook section outlining ordering of this offering, so long as the process does not conflict with the Commission’s Order in 00-0393.*

14 **PROVISIONING INTERVALS**

14.1 *End User Specific Interval*

- 14.1.1 *The provisioning and installation interval for the end user component where no conditioning is requested and MCI is ordering the HFPSL as provided in this Appendix will be equal to the interval for the standard line shared HFPL UNE established by the applicable Commission orders and state law.. The provisioning and installation interval for the end user component where no conditioning is requested and MCI is utilizing the Data Only Subloop or Combined Voice and Data loop components outlined above will be 1business day, or will be equal to the provisioning and*

installation interval applicable to SBC ILLINOIS's tariffed xDSL based services, or its affiliate's, whichever is less.

- 14.1.2 *The provisioning and installation intervals for the various end user components provided in this Appendix NGDLC where conditioning is requested will be five (5) business days, or the provisioning and installation interval applicable to SBC ILLINOIS tariffed xDSL-based services or its affiliate's xDSL-based services where conditioning is required, whichever is less.*
- 14.1.3 *Intentionally omitted.*
- 14.1.4 *Intentionally omitted.*
- 14.1.5 *Subsequent to the initial order for the end user components provided in this Appendix NGDLC, additional conditioning may be requested on such loop(s) at the rates and under the terms and conditions set forth in MCI's Interconnection Agreement or tariff as applicable.*
- 14.1.6 *The OCD Port Termination and OCD Cross-Connect to collocation (at MCI's discretion) must be in place two (2) business days prior to MCI's placing of any subloop (and PVC) service orders.*

14.2 *Infrastructure Specific Interval*

- 14.2.1 *The provisioning and installation intervals for DS3 OCD Port Terminations will be ten (10) business days from receipt of an accurate and valid ASR. Five business days are required for facilities verification and 5 business days are required for the provision of service.*
- 14.2.2 *The provisioning and installation intervals for OC-3c OCD Port Terminations will be negotiated by the parties and agreed upon on an individual case basis. Any disputes on the proper interval will be resolved pursuant to the dispute resolution provisions in the parties' existing interconnection agreements or the applicable tariff provisions.*
- 14.2.3 *Until such time as SBC ILLINOIS provides MCI with the ability to order DS1 functionality, SBC ILLINOIS shall provide MCI with current capabilities (DS3 or OC3), but shall charge no more than the price for a DS1. When DS1 functionality is made available, MCI are required to either move off of the higher bandwidth facility or continue with the DS3 level and pay the appropriate charge. The timeframe for MCI to transfer service is five business days from when SBC ILLINOIS notifies MCI that DS1 functionality is available.*

15 **CLEC PROFILE**

- 15.1 *Prior to ordering end user specific elements as provided in this Appendix NGDLC, MCI must establish a CLEC Profile in the Broadband Ordering Profile ("BOP") graphical user interface. This interface will provide MCI the capability to establish values associated with their end user's specific elements in the Network Management System ("NMS") controlling both the OCD and the NGDLC in the RT*

- site. MCI will establish a profile that consists of combinations of upstream and downstream minimum and maximum bandwidth settings. MCI will be allowed via the BOP interface to establish a profile driven by MCI AECN that consists of different combinations of these factors.*
- 15.2 *MCI is restricted to valid combinations that are technically feasible within the NGDLC equipment deployed by SBC ILLINOIS. Such values are outlined in the SBC ILLINOIS "Broadband Service Technical Publication," if not inconsistent with the Commission's order in 00-0393, and subject to new features and functionalities that are introduced pursuant to Section 9 of this Appendix NGDLC.*
- 15.3 *In the instance of MCI utilizing the UBR PVC option, SBC ILLINOIS will not guarantee any amount of upstream or downstream minimum or maximum bandwidth as established by MCI in a specific service profile. MCI will be provided whatever amount of bandwidth is generally available and the individual end user line synchronization over this architecture consistent with ADSL type service offerings.*
- 15.4 *An initial Profile must be built by MCI five (5) business days prior to issuing any LSRs associated with end user specific elements as provided in this agreement. The CLEC Profile of services as established via the BOP interface will encompass the entire SBC ILLINOIS region.*
- 15.5 *MCI will have the ability to make changes to the CLEC Profile. The changed CLEC profile will be available to MCI when MCI orders new end user specific elements. However, previously established end user specific elements will not be automatically changed by the change of CLEC Profile. Instead, should MCI desire to change the CLEC Profile for existing end user specific elements, MCI must submit a "change" order for the existing xDSL service establishing the end user specific elements under the new Profile parameters. The standard charges for processing service orders shall apply for all change orders. Initially, SBC ILLINOIS will not offer a CLEC-to-CLEC conversion of service profiles or non-intrusive change of service profile values on a line-by-line basis. This restriction is subject to the requirements of Section 9 of this Appendix NGDLC.*
- 15.6 *SBC ILLINOIS has developed the BOP-GUI interface to encompass parameter values consistent across all vintages of NGDLC being deployed in conjunction with the Broadband Infrastructure (e.g. "Project Pronto").*
- 15.7 *SBC ILLINOIS can only restrict the number of service profiles that MCI is provided in conjunction with this element if SBC ILLINOIS can prove to the Commission that such restriction is necessary because it is technically infeasible to provide additional service profiles due to technical considerations involving the vintage of NGDLC deployed in the SBC ILLINOIS network. At this time, SBC ILLINOIS recommends, but does not require, that MCI establish not more than 10 individual service profiles due to such concerns.*
- 15.8 *Additional instructions in relation to BOP system can be found in the "Broadband Ordering Profile User's Guide" available in the CLEC Handbook so long as the instructions are consistent with the Commission's order in 00-0393.*

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16 OPERATIONS SUPPORT SYSTEMS

- 16.1 *Ameritech-IL shall make available to MCI_m unfiltered gateway access to its OSS databases that contain loop qualification information that is available to Ameritech, Ameritech's affiliates or any employees of any of them. This information shall be provided in whatever form or format that information is made available to Ameritech, its affiliates or any of its employees.*
- 16.2 *Ameritech-IL shall make available to all MCI_m the results of the audit of all OSS databases, and backend systems as ordered in Dockets 00-0312.00-0313 and 00-0393, in order to determine all OSS data useful in pre-ordering, ordering, provisioning, maintenance and repair and billing for line shared xDSL. Such audit shall include in advance, all documentation needed to audit the systems and databases, including but not limited to user guides, data dictionaries, glossaries, job cards and table guides, with a description of each data field, all valid entries and an explanation of the data in that field.*
- 16.3 *Ameritech-IL shall make available to MCI_m all functionality for analyzing data in its backend systems and databases listed in 16.1. Such functionality shall include, but not be limited to, generating reports and inquiries.*

17 MAINTENANCE /SERVICE ASSURANCE

- 17.1 *The terms and conditions for maintenance and service assurance for the end-to-end UNE loop provisioned over the Project Pronto network architecture will be the same as the terms and conditions for maintenance and service assurance outlined in interconnection agreement or tariff as applicable as they related to line sharing.*

18 LOOP CONDITIONING

- 18.1 *Loop conditioning may be necessary in such instance as the distribution copper portion of the loop from the RT site to the end user (including the copper feeder to the SAI) contains copper disturbers in the network. In such instance loop conditioning will be required in conjunction with this offering. Such conditioning will be performed by SBC ILLINOIS when requested by MCI_m. In such instance as Loop Conditioning is requested by MCI_m for a loop provided for with this service offering, such conditioning will be governed by the associated rates, terms and conditions for loop conditioning that would apply to xDSL Capable Loops in the Agreement or the applicable tariff.*

19 PRICING

- 19.1 *The Broadband UNEs will be priced by SBC ILLINOIS in accordance with the pricing methodology applicable to Unbundled Network Elements under Sections 251 (c)(3) and 252(d)(1) of the Telecommunications Act of 1996. Interim prices for the Broadband UNEs described herein are set forth in the Broadband UNE Generic Pricing Appendix as modified by Staff's witness Koch's testimony in 00-0393 and are subject to true up when final prices are established following the Commission's review of Ameritech's UNE cost studies.*