ATTACHMENT 4

PROVISIONING AND ORDERING
FOR UNBUNDLED NETWORK ELEMENTS

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Provisioning and Ordering

Network Deployment

1.1   GTE shall deploy and keep deployed network facilities in all its serving areas in every LATA from and after the Effective Date of this Agreement as necessary to provide on a timely basis each of the Elements or Combinations thereof, as defined below, that GTE is required to offer to AT&T pursuant to this Agreement.

1.2   Throughout the term of this Agreement, the quality of the technology, equipment, facilities, processes, and techniques (including, without limitation, such new architecture, equipment, facilities, and interfaces as GTE may deploy) that GTE provides to AT&T under this Agreement must be at least equal in quality to that provided by GTE to itself.

2.   **General Provisioning Requirements**

2.1   AT&T may order Elements either individually or in any combination. Combinations ("Combinations") consist of multiple Elements that are logically related to enable AT&T to provide service in a geographic area or to a specific customer and that are placed on the same order by AT&T.

2.2   Combinations shall be identified and described by AT&T so that they can be ordered and provisioned together and shall not require the enumeration of each Element within that Combination on each provisioning order.

2.3   Multiple individual Elements may be ordered by AT&T from GTE on a single order without the need to have AT&T send an order for each Element.

2.4   GTE shall provide provisioning services to AT&T Monday through Saturday from 8:00 a.m. to 8:00 p.m., within each respective continental U.S. time zone. AT&T may request GTE to provide Sunday, holiday, and/or off-hour provisioning services. If AT&T requests that GTE perform provisioning services at times or on days other than as required in the preceding sentence, GTE shall quote, within one (1) day of the request, a cost-based rate for such services. If AT&T accepts GTE's quote, GTE shall perform such provisioning services.

2.5   GTE shall provide a Single Point of Contact (SPOC) for all ordering and provisioning contacts and order flow involved in the purchase and provisioning of GTE's unbundled Elements or Combinations. The SPOC shall provide an electronic interface twenty-four (24) hours a day, seven (7) days a week for all ordering and provisioning order flows. The SPOC shall also provide to AT&T

a toll-free nationwide telephone number (operational from 8:00 a.m. to 8 p.m., Monday through Saturday, within each respective continental U.S. time zone) which will be answered by capable staff trained to answer questions and resolve problems in connection with the provisioning of Elements or Combinations.

2.6   GTE and AT&T shall jointly establish interface contingency and disaster recovery plans for the ordering and provisioning of GTE's unbundled Elements or Combinations.

2.7   GTE will recognize AT&T as the customer of record of all Elements or Combinations ordered by AT&T and will send all notices, invoices and pertinent information directly to AT&T.

3.   **Specific Provisioning Process Requirements**

3.1   When AT&T orders the Local Switching Elements (either individually or as part of a Combination), AT&T may also obtain all technically available features and functions from the specified GTE switch (e.g., BRCS, CLASS, and LASS features).

3.2   When requested by AT&T, GTE will schedule installation appointments (GTE employee dispatch) with GTE's representative on the line with AT&T's representative or provide AT&T access to GTE's scheduling system. GTE will provide appropriate training for all its employees who may interface with AT&T's Customers based on AT&T's instructions and materials.

3.3   Upon request from AT&T, GTE will provide an intercept referral message in the Tandem Switching Element that includes any new AT&T telephone number, for six (6) months, or until the next publication of GTE's directory. This message shall be approved by AT&T and shall be similar in format to the intercept referral messages currently provided by GTE for its own end-users.

3.4   GTE will provide AT&T with a Firm Order Confirmation (FOC) for each order, within twenty-four (24) hours of GTE's receipt of that order, or within a different time interval as specified by AT&T. The FOC must contain an enumeration of AT&T's ordered Elements or Combinations (and the specific GTE naming convention applied to that Element or Combination), features, options, physical interconnection, quantity, and GTE's commitment date for order completion (Committed Due Date).

3.5   Upon work completion, GTE will provide AT&T electronically (unless otherwise notified by AT&T) with an Order Completion per order that states when that order was completed. GTE shall respond with specific order detail as enumerated on the FOC and shall state any additional charges (e.g., Time and Cost charges) up to a previously agreed upon limit associated with that order.

3.6   GTE will perform pre-testing as per industry standards and will provide in writing, or electronically as directed by AT&T, all test and turn-up results in support of the Elements or Combinations ordered by AT&T. GTE shall provide these test results to AT&T at the same time GTE provides its order-specific Order Completion.

3.7   As soon as identified, GTE shall provide notification electronically (unless otherwise notified by AT&T) of Rejections/Errors contained in any of the data element(s) fields contained on any AT&T order.

3.8   As soon as identified, GTE shall provide notification electronically (unless otherwise notified by AT&T) of any instances when GTE's Committed Due Dates are in jeopardy of not being met by GTE on any element or feature contained in any order for Network Elements or Combinations. GTE shall concurrently indicate its new committed due date.

3.9   Within twenty-four (24) hours of AT&T's request, GTE will perform cooperative testing with AT&T (including trouble shooting to isolate any problems) to test Elements or Combinations purchased by AT&T in order to identify any performance problems.

3.10   GTE will provide AT&T and its customers with Directory Listings as specified in the General Terms and Conditions of this Agreement.

3.11   GTE will provide a disaster recovery plan associated with the recovery of any systems and or functions connected with the ordering and provisioning processes acceptable to AT&T.

3.12   AT&T may choose between SCE/SMS AIN Access and SS7 AIN Access as designated on AT&T's provisioning order.

3.13   GTE shall inform AT&T if a customer action results in reassignment of an AIN trigger from an AT&T AIN application to some other service provider's application. Such notification shall be completed within twenty-four (24) hours of the action via electronic interface as described in the Account Maintenance requirements specified in the Customer Billing section of this Agreement.

3.14   GTE shall maintain a database containing AIN trigger configuration and other data necessary to allow AIN service and feature interactions to be determined by AT&T. GTE shall provide AT&T the capability to make queries on a demand basis to such database.

GTE shall provision AIN triggers as requested by AT&T on its provisioning order.

4.   **General Ordering Requirements**

4.1   Upon AT&T's request through a Suspend/Restore Order, GTE shall suspend

or restore the functionality of any Network Element or Combination. GTE shall implement any restoration priority on a per Network Element or Combination basis in a manner that conforms with AT&T requested priorities and any applicable regulatory policy or procedures.

4.2   GTE shall provide to AT&T the functionality of blocking calls (e.g., 800, 900, 976 international calls) by line or trunk on an individual switching element basis.

4.3   When ordering a Local Switching Element, AT&T may order from GTE separate interLATA and intraLATA capabilities (i.e., 2 PICs where available) on a line or trunk basis.

4.4   Unless otherwise directed by AT&T, when AT&T orders an Element or Combination, all pre-assigned trunk or telephone numbers currently associated with that Network Element or Combination shall be retained without loss of feature capability and without loss of associated Ancillary Functions including, but not limited to, Directory Assistance and 911/E911 capability.

4.5   When AT&T orders Elements or Combinations that are currently interconnected and functional, such Elements and Combinations will remain interconnected and functional without any disconnection or disruption of functionality. This shall be known as Contiguous Network Interconnection of network elements. There shall be no charge for such interconnection.

5.   **Ordering Interfaces**

5.1   GTE shall provide to AT&T an Electronic Interface (EI) for transferring and receiving orders, FOCs, Service Completions, and other provisioning data and materials (e.g., access to Street Address Guide (SAG) and Telephone Number Assignment Data Base). This EI shall be administered through a gateway that will serve as a single point of contact for the transmission of such data from AT&T to GTE, and from GTE to AT&T. The requirements and implementation of such a data transfer system are subject to future agreement by AT&T and GTE. Until such time as a gateway is established, the EI to be used shall be the same EI as is currently utilized by GTE, as may be modified during the interim period.

When ordering a Local Switching Element, AT&T's representatives will have real-time access to GTE customer information systems which will allow the AT&T representatives to perform the following tasks:

5.2.1   Obtain customer profile, including customer name, billing and residence address, billed telephone numbers, and identification of features and services

subscribed to by customer;

5.2.2   Obtain information on all features and services available, in end-office where customer is provisioned;

5.2.3   Enter the order for the desired features and services;

5.2.4   Provide an assigned telephone number (if the customer does not have one assigned). Reservation and aging of these numbers remain GTE's responsibility;

5.2.5   Establish the appropriate directory listing;

5.2.6   Determine if a service call is needed to install the line or service;

5.2.7   Provide service availability dates to the customer;

5.2.8   Provide information regarding dispatch/installation schedule, if applicable;

5.2.9   Order intraLATA toll and access to long distance service in a single, unified order;

5.2.10   Suspension, termination, or restoral of service.

6.   **GTE Provision of Information**

6.1   GTE shall provide to AT&T upon request:

6.1.1   a list of all services and features technically available from each switch that GTE may use to provide a Local Switching Element, by switch CLLI;

6.1.2   a listing by street address detail, of the service coverage area of each switch CLLI;

6.1.3   all engineering design and layout information for each network Element and Combination;

6.1.4   a listing of all technically available functionalities for each Element or Combination; and

advanced information on the details and requirement for planning and implementation of NPA splits.

6.2   Promptly after the Effective Date of this Agreement, GTE shall provide AT&T an initial electronic copy and a hard copy of the SAG or its equivalent. Updates shall be provided to AT&T electronically as changes are made to the

SAG.

7.   **Order Format and Data Elements for Individual Network Elements**

7.1   In ordering Elements or Combinations, AT&T will utilize standard industry
order formats and data elements developed by the Order and Billing Forum
(OBF). Industry standards do not currently exist for the ordering of Elements
or Combinations. Therefore, until such standards industry order formats and
data elements are developed by the OBF, AT&T will utilize the format
described in this Section to address the specific data requirements necessary
for the ordering of Network Elements or Combinations.

7.2   AT&T and GTE shall agree upon the appropriate ordering and provisioning
codes to be used for each Element or Combination. These codes shall be
known as data elements.

7.3   Each order for an Element or a Combination will contain the following order-
level sections, as currently defined by the OBF: Administration, Bill, Contact,
and End User Information.

7.4   In addition to the above OBF sections, AT&T will provide provisioning data in
the format defined below when ordering Elements or Combinations. First,
AT&T will state whether it is ordering an Element (one or more of the Elements
described in this Agreement) or a Combination (multiple Elements on the
same order). AT&T will then provide data in the following provisioning
categories, such data to be provided on the OBF ordering form as completed
data fields:

7.4.1   Activity. The activity field will include *one* of the following entries:

(A) - Add. This will apply when a new Element or Combination is   being ordered.

(C) - Change. This will apply when an existing Element or
Combination is being altered in some way.

(D) - Disconnect. This will apply when an existing Element or   Combination is b

(R) - Record Only. This will apply when there is no physical or   logical work requ
change to these databases will be handled under an   Add, Change, or
Disconnect order.

7.4.2   Order Activity Description. For each activity, a further description of the Order
Activity may be required. The following Order Activity Descriptions may be
applied to any Add, Change, Disconnect or Record Only order. In some

cases, more than one of these may apply to a particular order.

Modify: This will apply when the order has been modified in some way.

Cancel: This will apply when the order has been canceled, and   no provisioning a

Expedite: This will apply when the provisioning activity is
required to be completed in less time than stipulated by the
minimum element intervals as defined in Section 9.1. The
Desired Due Date category will reflect the date the activity needs to
be completed.

Sequence: This will apply when components of the order must be worked in the pr

Coordinated: This will apply when components of the order must   be worked simult

Suspend: This will apply when the function of the Network
Element or Combination is to be suspended until further notice.   The exact nature

Restore: This will apply when previously suspended functionality   is to be restored.

Purpose of Order. The Purpose of Order will contain a brief statement describing the
overall purpose of the order (e.g., Add new ISDN loop or build dedicated
trunking/transport from local end office to AT&T OSPS 5E).

7.4.4   Type of Element or Combination. The Type of Element or Combination
category consists of two parts. First, an E (Element) or C (Combination)
followed by a dash and then the two-character code for the Element(s) (e.g.,
E-LS (Local Switching) and C-DT/LS (Combination of Dedicated Transport
and Local Switching)). Below are the Elements and their two-character codes:

LD   Loop Distribution
LC   Loop Concentrator/Multiplexer
LF   Loop Feeder
LS   Local Switching
OS   Operator Systems
CT   Common Transport
DT   Dedicated Transport
SS   Signal Transfer Points
SL   Signaling Link Transport
DB   SCPs/Databases (LNP, LIDB, Toll Free, ALI/DMS)
TS   Tandem Switching

7.4.5   Interconnection Locations. This category describes the beginning and end-point of the Element or Combination. For example, the point of termination (POT) may be listed as a switch CLLI, a frame tie down location, a channel on a T3, or a customer address. Various types of POT are described in the tables shown in Appendix A.

7.4.6   Interconnection Specific. The Interconnection Specific category describes the nature of the interconnection and the appropriate relationships within the Network Element/Combination. The appropriate type of Interconnection Specifics is described for each Network Element/Combination in the tables shown in Appendix A. The following definitions apply:

Contiguous: All cross-connects, muxing, cross-office ties, etc. will   be included betw

Routing: Indicates that routing is part of the necessary interconnection.

Functionally Inclusive: All functionality as it is defined within the   Unbundled Netw

7.4.7   Element Identification. This field includes the precise identifier of the Network Element. For example, the identifier can be a circuit ID, facility name, switch CLLI, or Working Telephone Number. The appropriate type of Element ID is described for each Network Element/Combination within the tables shown in Appendix A.

7.4.8   Object. The Object identifies the basic unit of the Network Element or Combination. Examples include Network Trunk (for the Element LS) and DS1 (for the Element DT). The Objects related specifically to each Element or Combination are provided in the tables shown in Appendix A.

7.4.9   Quantity/Capacity. This field lists the Quantity/Capacity of Objects. For example, for the Loop Combination (see description in Section 8.3 below), the number "1" in this field would indicate that one loop combination was being ordered.   On the other hand, for the Object "DT" the number "4" would indicate that a capacity of 4 DS1 are being ordered.

7.4.10   Options. For each Object, there may be numerous Options. This category identifies the specific Option of the selected Object. In most cases, only *one* Option applies for each Object. One example is LC (Loop Concentrator/Multiplexer). This exception is noted within the tables shown in Appendix A. The specific Options for each Object are contained within the Provisioning Network Element/Combination tables. Examples include 2-wire (for the Object Analog Loop), DID (for the Object Customer Trunk), and ESF (for the Object DS1).

7.4.11   Characteristics. For each Option, there may be multiple Characteristics that require additional details. This category identifies those Characteristics, along with the necessary details. The appropriate type of Characteristics are described for each Element or Combination within the tables shown in Appendix A. Examples include ISDN conditioned (for the Option 2-wire) and TSG (for the option DID).

7.4.12   Features. This field identifies the Features specific to the Network Element/Combination. For example, when the Network Element is Local Switching, the CLASS/LASS features would be included in this category. AT&T will direct GTE as to which of these features to activate for a specific customer.

7.4.13   Desired Due Date. This field identifies the date the entire order is expected to be completed.

7.4.13   Due Date Detail. This field identifies interim dates (for Combinations where the Element Due Dates differ), and the relationship between the provisioning activities internal to the order, and those provisioning activities outside the order that may be related. Coordination and sequencing requirements will be reflected in this field.

7.4.15   Remarks. This field will include any remarks that are related to the provisioning order that are not reflected elsewhere.

7.5   When ordering an Element (individually or as part of a Combination), the interconnection and functionality internal to that Element will not be specifically ordered by AT&T and will automatically be provided by GTE. For example, when ordering the element DT (Dedicated Transport), the use of Digital Cross Connects that might be necessary to provide the connectivity between two interconnection locations will not be described on AT&T's order.

7.6   Examples of the provisioning format to be used by AT&T when ordering certain provisioning activities for individual Network Elements are shown in Appendix B.

8.   **Order Format and Data Elements for Combinations**

8.1   AT&T may purchase Network Elements either individually or in combinations. Combinations of Contiguous Network Elements can be ordered (i) on a case-by-case basis for those elements that are customer-specific; or (ii) on a common-use basis for those elements that are shared by multiple customers.

8.2   When ordering a Combination, AT&T will have the option of ordering all capabilities and functionalities of each of the underlying individual Elements.

8.3   When ordering either customer-specific or common-usage Combinations, AT&T may specify the functionality of that Combination without the need to specify the configuration of the individual Elements needed to perform that functionality. For example, AT&T has identified a Combination, designated as the *Loop Combination*, with the functionality described in Appendix A. This Combination shall be identified as C-LOOP, with its functionality as described in Appendix C, LOOP Combination. This Combination can be comprised of all or some of the following Elements, depending on the individual customer: LD (Loop Distribution), LC (Loop Concentrator/Multiplexer) and LF (Loop Feeder). When ordering this Combination, AT&T will order the C-Loop functionality and GTE will provision those Elements needed, as appropriate, on a case-by-case basis. AT&T will order the *Loop Combination* as illustrated in Appendix C, example 1.

8.4   AT&T may also choose to purchase from GTE a *LOOP and Switching Combination* which would be comprised of the LOOP Combination described above and Network Element LS (Local Switching). This Combination would allow AT&T to purchase switching features (such as Class features) and functionalities on a per-customer basis. AT&T will order the *LOOP and Switching Combination* as illustrated in Appendix C, example 2.

8.5   Prior to providing Local Service in a specific geographic area or when AT&T requires a change of network configuration, AT&T may place an order with GTE requiring GTE to prepare certain common-usage elements and functionalities for AT&T. AT&T has identified one possible set of these elements and functionalities as the *Local Switching Conditioning Combination*. This Combination may be comprised of all or some of the following individual Network Elements: LS (Local Switching), CT (Common Transport), SS (Signal Transfer Points), DB (SCPs/Databases) and TS (Tandem Switching). In order to provide these elements and their respective functionalities to AT&T, GTE shall prepare its network for AT&T's use of these common elements by readying each necessary switch with an AT&T Line Class Code. AT&T will order the *Local Switching Conditioning Combination* as illustrated in Appendix C, example 3.

8.6   AT&T may also use unbundled network elements to originate and terminate toll traffic. AT&T has identified the following two Combinations which will allow such functionality: *Toll Traffic Combination 1* which is comprised of the Network Elements DT (Dedicated Transport) and LS (Local Switching); and *Toll Traffic Combination 2* which is comprised of DT (Dedicated Transport), TS (Tandem Switching), CT (Common Transport), and LS (Local Switching). AT&T will order the *Toll Traffic Combination 1,* as illustrated in Appendix C, example 4.

8.7   There are many additional Combinations which AT&T may choose to order

from GTE. AT&T includes examples of some such additional Combinations and their ordering formats in Appendix C, example 5.

9.   **Performance Requirements**

9.1   AT&T will specify on each order its Desired Due Date (DDD) for completion of that particular order. Standard intervals do not apply to orders under this Agreement. GTE will not complete the order prior to DDD or later than DDD unless authorized by AT&T. If the DDD is less than the following element intervals, the order will be considered an expedited order.

INTERVALS FOR ORDER COMPLETION	
Network Element	Number of Days
LD	2
LC	2
LF	2
LS	2
OS	2
DT	
DS0, DS-1, T 1.5	3
STS-1, DS3/T3	5
OC-3, +	15
SS	3
SL	2
DB	2
TS	2
C-Loop	2
C-Local Switch Conditioning Combination	20

9.2   Within two (2) business hours after a request from AT&T for an expedited order, GTE shall notify AT&T of GTE's confirmation to complete, or not complete, the order within the expedited interval. A Business Hour is any hour occurring on a business day between 8 a.m. and 8 p.m. within each respective continental U.S. time zone.

9.3   Once an order has been issued by AT&T and AT&T subsequently requires a new DDD that is less than the minimum interval defined, AT&T will issue an expedited modify order. GTE will notify AT&T within two (2) Business Hours of its confirmation to complete, or not complete, the order requesting the new DDD.

9.4   AT&T and GTE will agree to escalation procedures and contacts. GTE shall notify AT&T of any modifications to these contacts within one (1) week of such modifications.

9.5   GTE shall satisfy the following Direct Measures of Quality: (i) at least 90% of all orders must be completed by DDD; (ii) at least 98% of all orders must be completed by Committed Due Date; and (iii) at least 99% of all orders will be completed without error.

Unbundled Network Element Provisioning Format

1) Loop Distribution

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	LD	Cust. address CLLI/POT	CONTIGUOUS	Loop/circuit ID	Copper	2-wire 4-wire	Special Conditioning
					Fiber	Single mode Multi mode	Connector type
					Coax		
					Stand Alone NI	2-wire 4-wire 4-wire/smart jack	

Unbundled Network Element Provisioning Format

2) Loop Concentrator/Multiplexer

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Options (combination of)	Characteristics
A,C,D,R	LC	Location CLLI	FUNCTIONALLY INCLUSIVE	Equip. CLLI	Integrated DLC	A/D conversion Multiplexing Concentration	Interface rate Multiplex from-to interface protocol (TR08, TR303) Framing format Concentration ratio Circuit pack (card) type
					Universal DLC	A/D conversion Multiplexing Concentration	Interface rate Multiplex from-to interface protocol (TR08, TR303) Framing format Concentration ratio Circuit pack (card) type
					Channel Bank	A/D conversion Multiplexing	Multiplex from-to Framing format
					Multiplexer	Multiplexing	Multiplex from-to Framing format

3) Loop Feeder

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	LF	Location CLLI	CONTIGUOUS	Facility name Circuit ID	Copper	DS0 DS1	ISDN Conditioned

Unbundled Network Element Provisioning Format

		CLLI/POT					DS1 Conditioned
					Fiber	Single mode Multi mode	Connector type

4) Local Switching

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	LS	WTN Location CLLI Switch CLLI	FUNCTIONALLY INCLUSIVE ROUTING	WTN TSG Designation Switch CLLI	Line (may be Concentrated if so designated)	POTS ISDN Centrex	Signaling Line Class Code WTN E911 Concentration Ratio Interface rate (DS1, DS3) Interface protocol (TR08, TR303)
					Non-concentrated Line	POTS ISDN Centrex	Signaling Line Class Code WTN E911 Interface rate (DS0, DS1, DS3)
					Network Trunk	SS7 MF	One-way Two-way Routing Screening TSG
					Customer Trunk	DID DOD Two-way	Signaling Routing Screening TSG
					Routing	Operator Services	

Unbundled Network Element Provisioning Format

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
						Directory Assistance Messaging	
					LNP	RCF DNRI RIPH LERG	Ported number(s) Shadow number(s) Number of call paths
					AIN trigger	Triggers (e.g. Off-hook immediate, off-hook delay)	Subscribed Office-based Dialing plan Translation type Digit sequence
					Data Switch UNI Port	Switch type (e.g. ATM, Frame Relay)	Policing Congestion control
					Data Switch NNI Port	Switch type (e.g. ATM, Frame Relay)	Policing Congestion control

5) Operator Systems

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	OS	Serving area (NPA-NXX, LATA, State, Rate center)	FUNCTIONALLY INCLUSIVE		Operator Services		O+ O- Busy Line Verification (BLV) Emergency Line

Unbundled Network Element Provisioning Format

						Interrupt (ELI) 911 overflow
				Directory Assistance	Service Area Customer	411 555-1212

6) Common Transport

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	CT	Serving area (NPA-NXX, LATA, State, Rate center)	CONTIGUOUS FUNCTIONALLY INCLUSIVE				

7) Dedicated Transport

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics

A,C,D,R	DT	Location CLLI
		
		CLLI/POT
			CONTIGUOUS	Facility name
				CLFI
					DS0	No DCS
						
						D4 Channel
						  Bank
						DCS 1/0
							Routing Avoidance
							
							A/D Conversion
							Multiplexing/
							De-multiplexing
							Format conversion
							Signal conversion
							Performance
							monitoring
							SONET to Asynch.
							  gateway
							Broadcasting
							Mapping

					DS1	No DCS	Signal format
							  (e.g. B8ZS,
							  AMI)

Unbundled Network Element Provisioning Format

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
						DSX DCS 1/0 DCS 3/1	Framing format (e.g. ESF, D4, unframed) Multiplexing/ Demultiplexing Format conversion Signal conversion Performance monitoring SONET to Asynch. gateway Broadcasting Mapping
					DS3	No DCS DSX DCS 3/1 DCS 3/3	Secure Interface Framing format (e.g. C-bit parity, M13, unframed) Multiplexing/ Demultiplexing Format conversion Signal conversion Performance monitoring SONET to Asynch. gateway Broadcasting

Unbundled Network Element Provisioning Format

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
							Mapping
					VT1.5		
					STSn	LGX	

8) Signal Transfer Points

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	SS	Serving area (NPA-NXX, LATA, State, Rate center) CLLI/POT	CONTIGUOUS FUNCTIONALLY INCLUSIVE ROUTING	STP CLLI (pair)	A-link interface (pair)	DS0 DS1	
					D-link interface (quad)	DS0 DS1	

9) Signaling Link Transport

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	SL	Location CLLI CLLI/POT	CONTIGUOUS	Facility name Circuit ID	Pair	DS0 DS1	
					Quad	DS0 DS1	

Unbundled Network Element Provisioning Format

10) SCPs/Databases

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	DB	Serving area (NPA-NXX, LATA, State, Rate center, region) Customer	FUNCTIONALLY INCLUSIVE		LNP	Serving Area	NPA-NXX LATA Region
				WTN	LIDB	Serving Area Customer	NPA-NXX VNS Calling Card
					Toll Free (800)	Serving Area	NPA-NXX
				WTN	E911 (ALI/DMS)	Serving Area Customer	NPA-NXX Rate Center Region Customer Address, etc.
				WTN	AIN	Customer	WTN Dialing sequence
					SCE/SMS/SCP Access	AIN Triggers (e.g. Off-hook)	Subscribed Office-based

Unbundled Network Element Provisioning Format

11) Tandem Switching

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (one of)	Option (one of)	Characteristics
A,C,D,R	TS	Serving area (NPA-NXX, LATA, State, Rate center) Location CLLI	FUNCTIONALLY INCLUSIVE ROUTING	Switch CLLI	Network Trunk	SS7 MF	One-way Two-way Routing Screening TSG
					Routing	Operator Services Directory Assistance Messaging	
					LNP	RIPH	Overflow Primary

Unbundled Network Element Provisioning Format

Example 1

Purpose of Order: Modify Dedicated transport order, Customer PBX to AT&T 4ESS

Order Activity:	A	***Order Activity Description:***	**Modify __X___ Cancel _____ Expedite _____ Suspend _____ Restore _____** **Sequence _____ Coordinated _____ Associated Order(s):**
		Type Element/Comb:	E - DT
		Interconnection Location:	**From:** [Customer prem CLLI] **To:** [AT&T CFA T3 slot]
		Interconnection Specific:	CONTIGUOUS
Desired Due Date:	11/03/96	***Due Date Details:***	
		Remarks:	Order modified to reflect different CFA assignment

Element/Combination: DT - Dedicated Transport

Element ID:	[LEC will return facility name, CLFI]
Object:	DS1
Qty/Capacity:	1
Option:	Framing: D4
Characteristi	Signal: B8ZS

Unbundled Network Element Provisioning Format

cs:	
Features:	

Unbundled Network Element Provisioning Format

Example 2

Purpose of Order: Route PBX customer's traffic from end-office to PBX trunk group to end-office to 4ESS trunk group in support of LNP

Order Activity:	C	***Order Activity Description:***	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** _____ **Restore** _____ **Sequence** _____ **Coordinated** __X___ **Associated Order(s):**
		Type Element/Comb:	E - LS
		Interconnection Location:	**From:** [LEC Switch CLLI] **To:** [LEC-Switch-to-AT&T-4ESS TSG designation]
		Interconnection Specific:	ROUTING
Desired Due Date:	11/03/96	***Due Date Details:***	Activate routing in coordination with AT&T contact
		Remarks:	

Element/Combination: LS - Local Switching

Element ID:	[LEC Switch CLLI]
Object:	LNP
Qty/Capacity:	N/A
Option:	RIPH (Route Index Portability Hub)
Characteristics:	[Ported Numbers] Number of call paths: max

Unbundled Network Element Provisioning Format

Features:	

Example 3

Purpose of Order: Suspend Local Switching functionality

Order Activity:	C	*Order Activity Description:*	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** __X___ **Restore** _____ **Sequence** _____ **Coordinated** _____ **Associated Order(s):**
		Type Element/Comb:	E - LS
		Interconnection Location:	**Inclusive:** [LEC Switch CLLI]
		Interconnection Specific:	FUNCTIONALLY INCLUSIVE
Desired Due Date:	NOW	*Due Date Details:*	
		Remarks:	Suspend all functionally except access to E911

Element/Combination: LS - Local Switching

Element ID:	WTN
Object:	Line
Qty/Capacity:	1

Unbundled Network Element Provisioning Format

Option:	POTS
Characteristics:	
Features:	

Unbundled Network Element Provisioning Format

Example 4

Purpose of Order: Add LEC signaling access/capability to AT&T Switch

Order Activity:	A	***Order Activity Description:***	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** _____ **Restore** _____ **Sequence** _____ **Coordinated** __X___ **Associated Order(s):**
		Type Element/Comb:	E - SS
		Interconnection Location:	**Inclusive:** [Rate Center] **From:** [STP CLLI pair] **To:** [AT&T POP CLLI and DSX tie down] **To:** [AT&T POP CLLI and DSX tie down]
		Interconnection Specific:	CONTIGUOUS, FUNCTIONALLY INCLUSIVE, ROUTING
Desired Due Date:	11/03/96	***Due Date Details:***	Turn up signaling network in coordination with AT&T contact
		Remarks:	

Element/Combination: SS -Signal Transfer Points

Element ID:	[STP CLLI pair] [Circuit ID's for links]
Object:	A-link
Qty/Capacity:	2 (pair)
Option:	DS0

Unbundled Network Element Provisioning Format

Characteristics:	
Features:	

Unbundled Network Element Provisioning Format

Example 5

Purpose of Order: Update ALI/DMS (E911) database with new customer information

Order Activity:	C	***Order Activity Description:***	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** _____ **Restore** _____ **Sequence** _____ **Coordinated** __X___ **Associated Order(s):**
		Type Element/Comb:	E - DB
		Interconnection Location:	**Inclusive:** [Rate Center served by ALI/DMS database]
		Interconnection Specific:	FUNCTIONALLY INCLUSIVE
Desired Due Date:	11/03/96	***Due Date Details:***	Activate new database entry in coordination with AT&T contact
		Remarks:	

Element/Combination: DB - SCPs/Database

Element ID:	WTN
Object:	E911 (ALI/DMS)
Qty/Capacity:	1
Option:	Customer
Characteristics:	[New customer-specific information]

Unbundled Network Element Provisioning Format

Features:	

Unbundled Network Element Provisioning Format

Example 6

Purpose of Order: Disconnect Local Switching

Order Activity:	D	*Order Activity Description:*	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** _____ **Restore** _____ **Sequence** _____ **Coordinated** __X___ **Associated Order(s):**
		Type Element/Comb:	E - DB
		Interconnection Location:	**Inclusive:** [LEC Switch CLLI]
		Interconnection Specific:	FUNCTIONALLY INCLUSIVE
Desired Due Date:	11/03/96	*Due Date Details:*	Disconnect in coordination with AT&T contact
		Remarks:	

Element/Combination: LS - Local Switching

Element ID:	WTN
Object:	Line
Qty/Capacity:	1
Option:	POTS
Characteristics:	

<u>Unbundled Network Element Provisioning Format</u>

Features:	

Unbundled Combination Provisioning Format

Loop Combination Functionality

Activity (one of)	Type	Interconnection Location	Interconnection Specific	Element ID	Object (One of)	Option (one of)	Characteristics
A,C,D,R	LOOP	Customer Address LSO CLLI/POT	CONTIGUOUS	Loop ID	Digital	2-wire 4-wire	ISDN Conditioned DS1 Conditioned Non-concentrated Max-concentration Interface rate Interface protocol (TR08, TR303)
					Analog	2-wire 4-wire	Non-concentrated Max-concentration Interface rate Interface protocol (TR08, TR303) Analog interface Digital interface

<u>Unbundled Combination Provisioning Format</u>

Example 1

Purpose of Order: LOOP Combination - Add ISDN Loop Combination

Order Activity:	A	Order Activity Description:	Modify _____ Cancel _____ Expedite _____ Suspend _____ Restore _____ Sequence _____ Coordinated __X___ Associated Order(s):
		Type Element/Comb:	C - LOOP
		Interconnection Location:	**From:** [Customer location] **To:** [LSO CLLI, AT&T DSX frame tie down]
		Interconnection Specific:	CONTIGUOUS
Desired Due Date:	11/03/96	Due Date Details:	Swing loop in coordination with AT&T contact
		Remarks:	

Element/Combination: LOOP - Loop

Element ID:	[LEC will return Loop ID]
Object:	Digital
Qty/Capacity:	1
Option:	2-wire
Characteristi	ISDN conditioned

Unbundled Combination Provisioning Format

cs:	Non-concentrated Interface rate: DS1 Interface protocol: TR303
Features:	

Example 2

Purpose of Order: LOOP and Switching Combination

Order Activity:	A	***Order Activity Description:***	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** _____ **Restore** _____ **Sequence** _____ **Coordinated** __X___ **Associated Order(s):**
		Type Element/Comb:	C - LOOP/LS
		Interconnection Location:	**From:** [Customer prem] **To:** [LSO CLLI, AT&T IDF frame tie down]
		Interconnection Specific:	CONTIGUOUS, ROUTING
Desired Due Date:	11/03/96	***Due Date Details:***	Swing loop and activate remote call forward simultaneously
		Remarks:	

Element/Combination: LOOP - Loop		***Element/Combination:*** LS - Local Switching	
Element ID:	[LEC will return loop ID]	***Element ID:***	[LEC Switch CLLI]
Object:	Analog	***Object:***	LNP

Unbundled Combination Provisioning Format

Qty/Capacity:	1	*Qty/Capacity:*	N/A
Option:	2-wire	*Option:*	RCF
Characteristics:	Interface: Analog	*Characteristics:*	[Shadow number] Number of call paths: 2
Features:		*Features:*	

Unbundled Combination Provisioning Format

Example 3

Purpose of Order: Local Switching Conditioning Combination

Order Activity:	A	*Order Activity Description:*	Modify _____ Cancel _____ Expedite _____ Suspend _____ Restore _____ Sequence _____ Coordinated _____ Associated Order(s):
		Type Element/Comb:	C - LS/CT/SS/DB/TS
		Interconnection Location:	**Inclusive:** [NPA]
		Interconnection Specific:	FUNCTIONALLY INCLUSIVE
Desired Due Date:	11/03/96	*Due Date Details:*	
		Remarks:	Prepare NPA for AT&T use of all Local Switching, Common Transport, Signaling, Database and Tandem Switching elements. Return AT&T Line Class Codes for all switches

Unbundled Combination Provisioning Format

Example 4

Purpose of Order: Toll Traffic Combination 1 - Add toll trunking and transport between LEC end office and AT&T Switch

Order Activity:	A	***Order Activity Description:***	**Modify** _____ **Cancel** _____ **Expedite** _____ **Suspend** _____ **Restore** _____ **Sequence** _____ **Coordinated** __X___ **Associated Order(s):**
		Type Element/Comb:	C - DT/LS
		Interconnection Location:	**From:** [LEC Switch CLLI] **To:** [CFA T3 slot]
		Interconnection Specific:	CONTIGUOUS, FUNCTIONALLY INCLUSIVE, ROUTING
Desired Due Date:	11/03/96	***Due Date Details:***	Do not activate routing until notified by AT&T contact
		Remarks:	

Element/Combination: DT - Dedicated Transport		***Element/Combination:*** LS - Local Switching	
Element ID:	[LEC will return facility name, CLFI]	***Element ID:***	[LEC will return TSG designation]
Object:	DS1	***Object:***	Network Trunk
Qty/Capacity:	1	***Qty/Capacity:***	24
Option:	Framing: ESF	***Option:***	SS7
Characteristics:	Signal: B8ZS	***Characteristics:***	Two-way [Screening]

Unbundled Combination Provisioning Format

			[TSG characteristics] [Routing]
Features:		*Features:*	

Unbundled Combination Provisioning Format

Example 5

Purpose of Order: Cancel order to Add trunking and transport between LEC end-office and AT&T OSPS Switch

Order Activity:	A	*Order Activity Description:*	Modify _____ Cancel __X___ Expedite _____ Suspend _____ Restore _____ Sequence _____ Coordinated _____ Associated Order(s):
		Type Element/Comb:	C - DT/LS
		Interconnection Location:	**From:** [LEC Switch CLLI] **To:** [AT&T POP CLLI and DSX tie down]
		Interconnection Specific:	CONTIGUOUS, FUNCTIONALLY INCLUSIVE
Desired Due Date:	11/03/96	*Due Date Details:*	
		Remarks:	

Element/Combination: DT - Dedicated Transport

Element/Combination: LS - Local Switching

Element ID:	[LEC will return facility name, CLFI]	*Element ID:*	[LEC will return TSG designation]
Object:	DS1	*Object:*	Network Trunk
Qty/Capacity:	2	*Qty/Capacity:*	48
Option:	Framing: D4	*Option:*	SS7
Characteristi	Signal: B8ZS	*Characteristic*	One-way (out from LEC switch)

Unbundled Combination Provisioning Format

cs:		s:	[Screening] [TSG characteristics]
Features:		Features:	