



# **EXHIBIT OSS – 10**

## **BellSouth EDI Specifications Guide (Administration Link)**

# **BellSouth**

## **EDI Specifications Guide**

**Publication Date: 11/01/00**

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## REVISION HISTORY

Changes from Version 1.0, dated April 13, 1999 to Version 1.1, dated May 3, 1999						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
850/860	H	SI		DE 234	AACT	Moved from Detail PO1/SI to Header SI
850/860	H	NI	NI	N104	ONSP	Removed data element – N/A in BellSouth
850/860	H	N1	N1	N104	NNSP	Added "(LNP)" at end of description
850/860	H	NX2	NI	NX202	FLOOR-DSGCON & ROOM/MAILSTOP-DSGCON	Corrected field names
850/860	H	PER	N1	PER02	BILLCON-FB	Corrected field name
850/860	D	PO1				Added statement referring to Issue 9 Business Models for usage of PO1 segment
850/860	D	SI	PO1/SI	DE 234	AACT	Moved to Header SI (see above)
850/860	D	SI	PO1/SI	DE 234	TER or TERS	Corrected field name
850/860	D	PID	PO1/PID	PID07	n/a	Removed the "Not Used" status
850/860	D	N1	PO1/N1	N104	LTN	Removed N1 loop mapping...mapped only to PO1/SI segment
850/860	D	N4	PO1/NI	N402	LAST	Corrected field description
850/860	D	N4	PO1/NI	N402	SAST	Moved to "Not currently being utilized by BellSouth" list
850/860	D	NX2	PO1/NI	NX202	SALO	Added to "Not currently being utilized by BellSouth" list
855/865	H	REF		REF02 REF03	EAN and EATN	Moved from Header N1/REF loop to Header REF loop
855/865	H	DTM		DTM05 DTM06	FDT	Added mapping for a range of time...not just single time
855/865	H	SI		DE 1000 DE 234	SC	Removed SC and its qualifier
855/865	H	N9	N9	N902	ERROR-CODE	Corrected typo in N901 qualifier from IQ to 1Q
855/865	H	N9	N9	N902	LECODE	Moved to Detail PO1/N9
855/865	H	MSG		MSG01	LEFIELD	Moved to Detail PO1/N9 loop MSG
855/865	H	N1	N1	N101	n/a	Removed valid code of "IT"
855/865	H	N1	N1	N102 N104	ONSP	Removed data element – N/A in BellSouth
855/865	H	N1	N1	N104	NNSP	Added "(LNP)" at end of description
855/865	H	REF	N1	REF02 REF03	EAN and EATN	N1/REF segment now not used... Moved to Header REF (see above)
855/865	D	REF	PO1	REF02	ALI	Corrected mapping by removing qualifier of REF03=ALI
855/865	D	N9	PO1/N9	N902	LECODE	Moved from Header N9 to Detail PO1/N9
855/865	D	N9	PO1/N9	N907	LTXNUM	Corrected mapping to show N902=LTXTY value

<b>Changes from Version 1.0, dated April 13, 1999 to Version 1.1, dated May 3, 1999</b>						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
855/865	D	N9	PO1/N9	MSG01	LEFIELD	Moved from Header N9 to Detail PO1/N9 loop MSG
855/865	D	REF	N1/REF	REF02 REF03	EAN and EATN	Moved to Header REF loop (see above)
855/865	D	SLN	PO1/SLN POC/SLN	SLN04	n/a	Removed the "Not Used" status

<b>Changes from Version 1.1, dated May 3, 1999 to Version 1.2, dated July 30, 1999</b>						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
850/860/ 855/865		CTT			n/a	CTT segment marked "Must Use"
850	H	BEG		BEG04	VER	Added as "Not currently being utilized by BellSouth" (for 850 trans set only)
850/860	H	PWK		PWK07	n/a	PWK07 marked "Not Used"
850/860	H	MSG	N9	MSG01	REMARKS	Corrected mapping on first REMARKS field listed as "Not currently being utilized by BellSouth"
850/860	H	NX2	N1	NX201	n/a	Removed qualifier "59" which was shown erroneously as a valid code
850/860	D	SI	PO1/POC	SI DE234	AACT	Removed AACT which is a Header level field
850/860	D	SI	PO1/POC	SI DE234	PTLI	Moved to "Not currently being utilized by BellSouth" list
850/860	D	PID	PO1/POC	PID04 PID08	EUMI	Moved to "Not currently being utilized by BellSouth" list (at the detail level)
850/860	D	MSG	PO1/N9 POC/N9	MSG01	DDADLO	<ol style="list-style-type: none"> <li>In "Not currently being utilized..." list, corrected typo on field name from DDALO to DDADLO.</li> <li>In "Not currently being utilized..." list, removed 2<sup>nd</sup></li> </ol>
850/860	D	MSG	PO1/N9 POC/N9	MSG01	LSNP	In "Not currently being utilized..." list, corrected typo on field name from LNRP to LSNP.
850/860	D	N1	PO1/N1 POC/N1	N104	LTN	Reinstated N1 loop mapping. LTN field is mapped to PO1/SI or POC/SI segment as well as N104.
850/860	D	N4  NX2	PO1/N1 PO3/N1	N401  NX201 NX202	DDALOC	<ol style="list-style-type: none"> <li>Moved to NX202 to accommodate 35-char size</li> <li>Marked as "Not currently being utilized..." in N401 data element</li> <li>Mapping now shows DDALOC as follows: NX202 when N101=DA and NX201=07</li> </ol>
850/860	D	N4  NX2	PO1/N1 PO3/N1	N401  NX201 NX202	LALOC	<ol style="list-style-type: none"> <li>Moved to NX202 to accommodate 35-char size</li> <li>Marked as "Not currently being utilized..." in N401 data element</li> </ol>

<b>Changes from Version 1.1, dated May 3, 1999 to Version 1.2, dated July 30, 1999</b>						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
						3. Mapping now shows LALOC as follows: NX202 when N101=DH and NX201=07
850/860	D	NX2	PO1/N1	NX201	n/a	Removed qualifiers "90" and "91" which were shown erroneously as valid codes; valid at header level only
850/860	D	PID	PO1/SLN	n/a	n/a	Removed PID data segment at this level because the field shown was not part of Issue 8 or 9.
860	D	POC		POC05	n/a	Removed "Must Use" status from POC05 Moved valid BellSouth code of "EA" and "Must Use" status to C00101 element from C00104. Marked C00104 as "Not Used"
865	H	PAM		PAM02	n/a	For clarity purposes, marked PAM02 as "Not currently being utilized by BellSouth"

<b>Changes from Version 1.2, dated July 30, 1999 to Version 1.3, dated September 22, 1999</b>						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
850/860						Added note indicating BellSouth allows 850 and 860 without Detail information.
850/860/ 855/865		CTT			n/a	CTT segment Req. Des. marked "Mandatory"
850/860	D	N9	PO1/N9 POC/N9	N902 & N903	LXTY	Moved to N903 with qualifying data of N901=82 and N902=LXTY (to correct mapping problem)
850/860	D	N9	PO1/N9 POC/N9	N902 & N907	LTXNUM	Changed N902 qualifying data to N902=LXTY (instead of LXTY value) (to correct mapping problem)
850/860	D	MSG	PO1/N9 POC/N9	MSG01	LTEXT	Changed N902 qualifying data to N902=LXTY (instead of LXTY value) (to correct mapping problem)
850/860	D	N9	SLN/N9	N902		Corrected typo for BellSouth valid code: SEQADDR1 (instead of SEQADDR)
860	H	SI		SI DE234	AACT	Corrected typo for AACT qualifier to If DE1000 = AD (instead of AA)
855/865	D	N9	PO1/N9 POC/N9	N901		Removed 55 from list of BellSouth valid codes
855/865	D	N9	PO1/N9 POC/N9	N902		Corrected list of valid entries for N902 Deleted LISTTEXT and added LXTY
855/865	D	N9	PO1/N9 POC/N9	N902 & N903	LXTY	Moved to N903 with qualifying data of N901=82 and N902=LXTY (to correct mapping problem)

Changes from Version 1.2, dated July 30, 1999 to Version 1.3, dated September 22, 1999						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
855/865	D	N9	PO1/N9 POC/N9	N907	LTXNUM	1. Changed N902 qualifying data of N902=LTXTY (instead of LTXTY value) 2. Added qualifying data of N907 (C040:1) = 55 (to correct mapping problem)
855/865	D	MSG	PO1/N9 POC/N9	MSG01	LIST TEXT	Changed N902 qualifying data to N902=LTXTY (instead of LIST TEXT) (to correct mapping problem)

Changes from Version 1.3, dated September 22, 1999 to Version 1.4, dated October 29, 1999						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
865	H	BCA		BCA02		Change: If BCA01=06 and BCA02=RD then acknowledgment type = Reject (860 required) (to correct error)

Changes from Issue 9a, dated October 29, 1999 to Issue 9b, dated April 7, 2000						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
N/A	N/A	N/A	N/A	N/A		Technical specifications did not change. Clarification and changes made to document to simplify CLEC access to EDI documentation on the website.

Changes from Issue 9b, dated April 07, 2000 to Issue 9c, dated May 22, 2000						
<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
N/A	N/A	N/A	N/A	N/A	N/A	Changed revision history header to reflect that Issue 9b was dated April 7, 2000 (not March 24).
N/A	N/A	N/A	N/A	N/A	N/A	In Section 1—Administration: New Section 1.10 on EDI Batch Processing.
850/860	H	REF		REF02 REF03	RESID	Added new RESID field
850/860	D	SI	PO1/ POC	SI DE234	CHAN/PAIR2	Added new CHAN/PAIR2 field
850/860	D	SI	PO1/ POC	SI DE234	DTKID	Moved from "Not currently being utilized by BellSouth" to valid field
855/865	D	SI	PO1/ POC	SI DE234	CHAN/PAIR2	Added new CHAN/PAIR2 field
855/865	D	SI	PO1/ POC	SI DE234	DTKID	Moved from "Not currently being utilized by BellSouth" to valid field



<b>Changes from Issue 9c, dated May 22, 2000 to Issue 9d, dated August 30, 2000</b>						
<u>Trans. Set</u>	<u>Hdr/Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
N/A	N/A	N/A	N/A	N/A	N/A	Testing Guidelines section 7.1 – Corrected 4 typos : Changed 'CLECs ability to 'CLEC's ability' twice Changed 'BellSouths ability to 'BellSouth's ability' twice
850/860 855/865	N/A	N/A	N/A	N/A	N/A	Added notes at the beginning of each transaction set to assist in interpretation of the specifications.
850/860	D	SI	PO1/ POC	SI DE1000	N/A	Removed 'SF' as a valid DE1000 data element code. Only valid at SLN loop level.
850/860	D	SI	PO1/ POC	SI DE234	SLTN	Added new SLTN field
855/865	D	SI	PO1/ POC	SI DE234	SLTN	Added new SLTN field
855/865	H	REF		REF02 REF03	RESID	Added new RESID field

<b>Changes from Issue 9d, dated August 30, 2000 to Issue 9e, dated November 1, 2000</b>						
<u>Trans. Set</u>	<u>Hdr/Dtl</u>	<u>Segment</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Change</u>
N/A	N/A	N/A	N/A	N/A	N/A	In Section 1—Administration: Added "LSR" to Section 1.4 Acronyms.
N/A	N/A	N/A	N/A	N/A	N/A	In Section 1—Administration: Rewrote Section 1.10 EDI Batch Processing to include information about LSR size limitations.
N/A	N/A	N/A	N/A	N/A	N/A	In Section 1—Administration: New Section 1.11 – FA Timeliness
N/A	N/A	N/A	N/A	N/A	N/A	In Section 1—Administration: Moved TCIF Service Order Feature Codes to Section 1.12
850	H	BEG	N/A	BEG04	VER	Removed statement: "Not currently being utilized by BellSouth."
855/865	H	REF	N/A	REF02 REF03	DLORD	Moved from "Not currently being utilized by BellSouth" to valid field for LNP use only.
N/A	N/A	N/A	N/A	N/A	N/A	In Section 7—EDI Testing Guidelines for CLECs: Removed references to specific EDI Tester (i.e., Tom Hill) In EDI Testing Agreement, changed "Interim Number Portability" to "Number Portability" In EDI Testing Agreement, changed 4 hours to 90 minutes for FA returns

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## 1.0 Administration

### 1.1 Purpose

This document was developed to assist CLECs in gaining a better understanding of the processes involved in conducting business with BellSouth via EDI. Since each transaction set in this document is presented as a separate reference tool, the reader is able to use sections independently.

The primary purpose of this document is to provide an overview of the Electronic Data Interchange (EDI) process and to support Competitive Local Exchange Carriers (CLECs) with detailed information regarding the five EDI transaction sets and their specifications. The correct use of these specifications is critical for CLECs that are engaged in ordering local exchange services from BellSouth. This document is not intended to provide specific information on establishing connectivity with BellSouth. For additional information concerning connectivity with BellSouth, CLECs should contact their BellSouth Account Representative.

The testing guidelines section outlines the entrance and exit criteria for each step of the testing process. This process will ensure the CLEC's EDI transmissions meet standards for connectivity, ANSI ASC X12 syntactical correctness and BellSouth process requirements.

### 1.2 Intended Audience

This document is intended for Competitive Local Exchange Carriers who have contracted with BellSouth and plan to order local exchange products and services from BellSouth via EDI.

### 1.3 How To Use This Guide

1.3.1 This Guide is made up of seven sections and is designed to assist the CLEC in conducting business with BellSouth via EDI.

- Section 1, the Administration section, provides an overview of the BellSouth EDI environment and provides insight as to how to use Sections 2 through 6.
- Sections 2 through 6 describe the EDI transaction sets and specifications that are to be used when conducting local exchange ordering with BellSouth.
- Section 7, the EDI Testing Guidelines, is intended to assist the CLEC during connectivity, syntax and end-to-end testing with BellSouth. CLEC/ BellSouth testing agreements are also included in this section.

1.3.2 Ordering local exchange services from BellSouth within the context of an Electronic Data Interchange environment requires the following:

- Understanding of the EDI specifications in Sections 2 - 6
- The BellSouth usage rules as stated in the *BellSouth Business Rules for Local Ordering*

For the most part, the data element characteristics and valid entries detailed in the *BellSouth Business Rules for Local Ordering* are the exact rules to be followed when transmitting data via EDI. There are, however, a few instances where EDI standards rules dictate a data element characteristic or valid entry other than what is specified by the OBF rules. These few exceptions are listed on the appropriate data segment pages in the EDI Transaction Set specifications.

The Telecommunications Industry Forum's (TCIF) guidelines for implementing the ANSI ASC X12 (American National Standards Institute, Accredited Standards Committee) standards are the basis for the specifications contained in the transaction sets. In some instances it has been necessary for BellSouth to vary from the established guidelines in order to meet the needs of local exchange ordering at BellSouth. These few instances are clearly indicated in the transaction set specifications.

In the transaction set specifications, the standards state where an entry is required (marked "Must Use" and attributes show M) or where optional (attributes show an O or an X). Where an ANSI data element attribute shows AN (alphanumeric) and minimum and maximum field lengths, these rules also must be adhered to. BellSouth usage rules, as detailed in the *BellSouth Business Rules for Local Ordering*, further define the data characteristics to be passed in the relevant data elements.

**Example:** The following example provides the reader an opportunity to view a portion of a page from a transaction set. This example is of the ST segment in the 850 Purchase Order Transaction Set and displays such information as whether the data element is optional or "must use," the data element field length and if the data element is numeric or alphanumeric (Attributes column).

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:**1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**

Data Element Summary				
	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <b>The value of the data element in ST02 in the Transaction Set Header (ST) must match the value of this same data element in SE02 in the Transaction Set Trailer (SE).</b>	M AN 4/9

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In summary, use of the transaction sets for local exchange ordering requires adherence to the rules stated in the specifications based on ANSI ASC X12 standards and the BellSouth usage rules defined for each applicable data field. It is critical that the specifications in each transaction set be followed to avoid translator rejections. It is equally important that the BellSouth usage rules listed in the *BellSouth Business Rules for Local Ordering* be followed when creating data content to avoid errors further downstream.

#### 1.4 Acronyms

The following acronyms are used throughout the sections of this document:

<b>ANSI</b>	American National Standards Institute
<b>ASC</b>	Accredited Standards Committee
<b>ATIS</b>	Alliance of Telecommunications Industry Solutions
<b>CLEC</b>	Competitive Local Exchange Carrier
<b>EDI</b>	Electronic Data Interchange
<b>FOC</b>	Firm Order Confirmation
<b>LEO</b>	Local Exchange Ordering
<b>LSR</b>	Local Service Request
<b>OBF</b>	Ordering and Billing Forum
<b>SOSC</b>	Service Order Sub-committee
<b>TCIF</b>	Telecommunications Industry Forum
<b>VAN</b>	Value Added Network

#### 1.5 General Assumptions

It is assumed that:

- The readers of this guide have a good working knowledge of EDI specifications and BellSouth business rules
- The CLEC must be legally certified to provide local phone services in the state where they are doing business
- The CLEC must have a signed Interconnection Agreement with BellSouth for local exchange ordering
- The CLEC must have an established billing account with BellSouth

#### 1.6 Electronic Data Interchange Overview

1.6.1 EDI is defined as the computer application to computer application exchange of business documents in a standard format. EDI is a means for companies to exchange business documents via one computer to another over a communications path.

1.6.2 Companies that exchange transactions using EDI are called trading partners. Trading partners must define the business information that is necessary to transact business. This information is encoded to fit a standard EDI transaction set for data transmission. EDI requires the use of industry standards that define the format and the data content of the business transaction. This allows each trading partner's system to clearly understand the transaction expected and the data necessary to conduct that transaction.

1.6.3 In the case of local exchange ordering with BellSouth, if a trading partner desires to make a purchase electronically via EDI, the 850 Purchase Order Transaction Set would be used. Required data such as contact and billing information, type of service ordered, service features, etc., are transmitted by way of an 850 Transaction Set document using pre-defined data fields passed in pre-defined data segments and elements.

1.6.4 There are three basic components of EDI:

- Standards
- Software
- Communications

**Standards**, developed by American National Standards Institute (ANSI) Accredited Standards X12 Committee (ASC), are utilized within the EDI environment. As a committee of the Alliance of Telecommunications Industry Solutions (ATIS), the Telecommunications Industry Forum (TCIF) acts to ensure that the ANSI ASC X12 standards used appropriately address the business needs within the telecommunications industry. TCIF acts as a guideline-setting organization to promote understanding and implementation of these standards and the use of technology for the execution of electronic data interchange. Four EDI sub-committees of TCIF develop proposed EDI transaction sets and/or implementation guidelines for use within the industry.

- Financial EDI
- Procurement
- Telephone Bill Work Group
- Service Order Sub-committee (SOSC)

**Software**, the second component of EDI is ordinarily referred to as translation software or “the translator.” The translator is a data formatter that executes rules dictating translation processing of documents (purchase orders, invoices, etc.). It is the EDI system component responsible for converting data between an internal application (such as BellSouth’s Local Exchange Ordering System) and an industry standard format. Each trading partner is responsible for maintaining their “translator” software in accordance with ANSI ASC X12 standards, unless otherwise required by telecommunications industry business rules.

**Communications**, is the means for transmitting the EDI message (document) containing the EDI data. BellSouth currently has the capability to connect and transmit EDI documents via three methods—INDIAL, VAN-to-VAN, and CONNECT:Direct™.

## 1.7 EDI Communications

### 1.7.1 INDIAL Directly to BellSouth

The INDIAL method allows trading partners to dial into BellSouth’s EDI gateway and drop off and retrieve documents that belong to them. Trading partners selecting this method for EDI communications with BellSouth are

assigned a log-on ID and password for their mailbox, which must be sent at log-on time. The telephone number used for INDIAL is a Birmingham, Alabama local telephone number which is connected to a bank of BellSouth's AT&T Paradyne Comsphere 3810 PLUS V.34 modems.

AT&T Paradyne has provided a list of modem brands that were successfully tested against the Comsphere 3810 PLUS modem during its Beta testing. Those passing tests in synchronous dial mode are: Comsphere 3810, Comsphere 3800 PLUS V.34 Series, UDS V 3400, and UDS V 3229. Other modems may work, but are unproved. Current modem requirements for in-dial service are:

- Acceptable speeds are 4800 - 14.4 baud
- Bisync protocol

#### 1.7.2 Value Added Network Service

BellSouth uses Harbinger VAN service as its primary Value Added Network (VAN) service. BellSouth trading partners may subscribe to any VAN of their choice. Most registered VANs provide interconnection among themselves so that data can be transferred to the appropriate trading partner's VAN. BellSouth, however, would like to note that interconnection may cause slower delivery of documents. These conditions must be recognized and considered if guaranteed time delivery of documents is critical.

Trading partners are responsible for their own delivery method to their VAN of choice. Most VANs can accommodate various methods of connectivity to their services.

#### 1.7.3 CONNECT:Direct™ (formerly Network Data Mover [NDM])

CONNECT:Direct™ is a file transfer product licensed by Sterling Commerce. BellSouth trading partners selecting this communications option must provide a dedicated line between their facility and BellSouth's EDI gateway. CONNECT:Direct™ at BellSouth requires that the trading partner be licensed by Sterling Commerce to use this product and that both BellSouth and the trading partner have a supported version of CONNECT:Direct™ installed.

BellSouth is currently running the mainframe version of this product, although this product is available on multiple platforms for its trading partners. BellSouth presently has working solutions with CONNECT:Direct™ trading partners using the following platforms:

##### SNA

IBM MVS	DEC VAX	SUN UNIX
IBM AS/400	IBM VSE	IBM RS/6000

##### TCP/IP

IBM MVS	Tandem	IBM RS/6000	HP UNIX
SUN UNIX	IBM AS/400	Windows95	Windows NT

For additional information concerning connectivity with BellSouth, CLECs should contact their BellSouth Account Representative.

## 1.8 EDI Transaction Sets/Data Elements

- 1.8.1 To transmit and receive the appropriate data for local exchange ordering via EDI, five specific EDI transaction sets and OBF, as well as a few BellSouth specific, data fields are used. The data fields are described in detail in the *BellSouth Business Rules for Local Ordering*. As stated earlier, both ANSI and BellSouth business rules must be adhered to in order to ensure valid orders.
- 1.8.2 Detailed EDI specifications for the 850, 855, 860, 865 and 997 transaction sets are listed below.
- **850 Purchase Order** is used by a trading partner to place a local exchange order.
  - **855 Purchase Order Acknowledgment** is sent by BellSouth to indicate a Firm Order Confirmation (FOC) or to notify a trading partner of a pending order status change, a reject, or where clarification is required.
  - **860 Purchase Order Change Request** is used by a trading partner to make a change to a local exchange order.
  - **865 Purchase Order Change Acknowledgment** is used by BellSouth to provide a trading partner a Firm Order Confirmation for an order that has been changed (860-type) or as a completion notice. It is also used to notify a trading partner of a pending order status change, a reject, or where clarification is required.
  - **997 Functional Acknowledgments** are transmitted between BellSouth and its trading partners for notification purposes. Receipt of any 850, 860, 855, or 865 transaction set by BellSouth or a trading partner requires a 997 transaction set as an acknowledgment. BellSouth 997s indicate whether the transaction set was accepted or rejected; in the case of rejected 997s, the nature of the error is provided.
- 1.8.3 Transaction sets are separated into three areas: Header, Detail, and Summary. Within the Header and Detail areas, the usage of specific data segments and data elements is dependent upon the type of information being transferred. The Header and Detail areas also contain looping areas, where groupings of information can be sent. The Summary area data segment and data elements are common to all transaction sets; the information contained is, as the name suggests, summary-type information. The number of times a segment, loop, or data element can be used is dictated by a combination of the ANSI ASC X12 EDI standards and the BellSouth usage rules that apply.
- 1.8.4 Each EDI data segment has a specific purpose. There are data segments that contain reference numbers, date/time references, identification of



service characteristics, product/item descriptions, name information, address information, etc. Each data segment and its data elements have its own set of EDI usage and syntactical rules. They are listed in the EDI transaction set specifications. The specifications, along with the BellSouth usage rules described in the *BellSouth Business Rules for Local Ordering*, provide the necessary information for the user to understand how information is to be transferred in the EDI transaction set (document).

- 1.8.5 EDI data elements within each data segment are referenced by the name of the data segment and a number identifier. For example, in the header area, the DTM01 EDI data element could contain a '150' which is used as a qualifier identifying that the data that will be contained in DTM02 is a 'DDD' (desired due date).

**DTM\*150\*19991201~**  
 DTM01 ↑ DTM02 ↑  
*DDD (Desired Due Date)*

Further, the 'APPTIME-DDD' (appointment time for the desired due date) is sent in the same DTM segment with the same DTM01 qualifier of '150.' The DTM05 indicates that the time being sent is a range of time and the DTM06 contains the value.

DTM03 and  
 DTM04 are blank ↓ ↓  
**DTM\*150\*19991201\*\*\*RTM\*0800-1200~**  
 ↑ ↑ ↑ ↑  
 DTM01 ↑ DTM02 ↑ DTM05 ↑ DTM06 ↑  
*DDD* indicates *APPTIME-DDD*  
 Range of Time (in military format)

An element delimiter isolates each piece of information and a segment terminator ends each segment. These delimiters and separators must be EDI valid characters used for terminator/delimiter purposes and must be identified when the trading partner begins testing with BellSouth as the characters that will be used in their transactions. In the example shown above, the \* acts as the element delimiter and the ~ as the segment terminator.

Data can be sent in a loop so that the receiving computer recognizes it as belonging to a group. An N1 loop is a good example of this. The example below shows how the N1, N2, N3, and N4 EDI data segments, when sent as part of an N1 loop in an 850 transaction set, transmit a customer's final billing information. Please reference the specific page in the 850 transaction set EDI specifications for complete EDI details.

**N1\*X1\*Alexander Johnson~**  
**N2\*Jon Applebee~**

**N3\*312 Main Street~**  
**N4\*Tuscaloosa\*AL\*35401~**

1.8.6 Data element information must be sent in the appropriate EDI data segment. Most often, data being sent requires a corresponding qualifier. A good example of this is when sending information that uses the SI data segment for transmission. As in the earlier example that showed a '150' qualifier to indicate Desired Due Date, SI data elements also require qualifiers.

These transmitted EDI lines of code are translated as follows:

**SI\*TI\*AA\*N~**  
**SI\*TI\*TY\*1AF~**  
**SI\*TI\*RE\*EB~**

SI01 = TI	Code for Telecommunications Industry
SI02 = AA	Qualifier indicating ACT (Account Activity Type) will be next
SI03 = N	Data indicating ACT of N (New Installation)
SI01 = TI	Code for Telecommunications Industry
SI02 = TY	Qualifier indicating TOS (Type of Service) will be next
SI03 = 1AF	Data indicating TOS is business, multi line, fixed rate
SI01 = TI	Code for Telecommunications Industry
SI02 = RE	Qualifier indicating LSR REQ TYP will be next
SI03 = EB	Data indicating REQ TYP of 'Resale'

Within the proper data segment, EDI data elements can be sent in a number of ways. For example, in the SI data segment, SI02 through SI21 data elements may be transmitted in pairs ("stacked" or "strung out") in one line, in any order, as long as the appropriate Service Characteristics Qualifier precedes the Product/Service ID value. Please refer to the SI data segment pages in the EDI specification sections of this guide for further information.

Examples 1 through 4 all correctly transmit the same values.

**Example 1 (stacked)**

**SI\*TI\*SA\* C\*TN\*2055551111~**  
**SI\*TI\*SA\* C\*NPT\*A~**  
**SI\*TI\*SA\* C\*RTI\*A22222~**

**Example 3 (strung out)**

**SI\*TI\*SA\* C\*TN\*2055551111\*NPT\*A\*RTI\*A22222~**

**Example 2 (stacked)**

**SI\*TI\*SA\* C\*TN\*2055551111~**  
**SI\*TI\*SA\* C\*RTI\*A22222~**  
**SI\*TI\*SA\* C\*NPT\*A~**

**Example 4 (strung out)**

**SI\*TI\*SA\* C\*TN\*2055551111\* RTI\*A22222\* NPT\*A~**

Other data segments process in the same way. BellSouth Local Exchange Ordering uses the PER data segment for transmitting contact name and number information. The PER03 through PER08 data elements can be used much the same as SI usage is described above. The elements can be sent in pairs (stacked" or "strung out") in one line, in any order, as long as the appropriate Communication Number Qualifier precedes the value being sent in the Communications Number data element. Please reference the PER data segment pages in the EDI specifications for further details.

## 1.9 Return Documents

The 855, 865 and 997 ANSI transaction sets are considered "return" documents.

- The 855 and 865 EDI transaction sets are used to notify the CLEC of a Firm Order Confirmation (FOC), pending order status change, rejection, need for clarification, or as a completion notice.
- An 855 transaction set is returned in response to an 850 from the CLEC. If BAK data elements are populated as follows, the CLEC is being notified accordingly.

If <b>BAK01</b>	<b>BAK02</b>
06	AT = Accepted FOC
06	AH = Clarification
06	RD = Reject
08	NA = Status
21	AC = Jeopardy

Additionally, the N9 and MSG header segments are used to convey error or status codes and messages.

- An 865 transaction set is returned in response to an 860 from the CLEC. The 865 is used for all Completion notices. If BCA data elements are populated as follows, the CLEC is being notified accordingly.

If <b>BCA01</b>	<b>BCA02</b>
06	AT = Accepted FOC
06	AH = Clarification
06	RD = Reject
08	NA = Status
21	AC = Jeopardy
CN	AT = Completion

Additionally, the N9 and MSG header segments are used to convey error or status codes and messages.

- A 997 transaction set is used to inform CLECs that a document was received at BellSouth and to inform CLECs of syntax errors. If a negative 997 transaction set is returned to the CLEC, syntax errors occurred in the CLEC's transmission. The AK3, AK4, AK5 data segments indicate the type and position of the syntax errors received from the CLEC.

## 1.10 EDI Batch Processing

Local Exchange Ordering via the BellSouth EDI interface is performed as a batch processing operation. BellSouth's EDI process is based on ANSI standards, as published by Data Interchange Standards Association, Inc. (DISA), in ASC X12 standards documentation. Local exchange ordering guidelines developed by the Telecommunications Industry Forum Service Order Subcommittee, an ATIS organization, are also followed.

There is, for all practical purposes, no limitation to the size of an ANSI X12 batch file that can be submitted. However, BellSouth's downstream ordering systems have size limitations. To accommodate the downstream systems necessary for electronic ordering, the maximum size of an EDI LSR (Local Service Request)

should not exceed 1 Megabyte (1 million characters). Adherence to good EDI business practices and BellSouth's business rules governing local exchange ordering would place reasonable limits on the size of files submitted. Multiple LSRs should be grouped into one EDI enveloping structure for batch processing.

The number of files and frequency of submission is limited only by the file transport and EDI products being utilized by the CLEC. BellSouth recommends employing a reasonable time interval between submissions to avoid file contention.

The EDI sending party (CLEC for 850/860s; BellSouth for 855/865s) is responsible for ensuring successful submission of its EDI data. The BellSouth EDI translation jobs are operational 24 x 7, except during normal scheduled maintenance.

### 1.11 Functional Acknowledgment Timeliness

Functional Acknowledgment (FA) timeliness is based on measuring from the time a document enters the EDI translator software until the 997 Functional Acknowledgment is transmitted to the CLEC.

Due to limitations in BellSouth's current EDI infrastructure, the current target turnaround time on FAs is 90 minutes; specifically, the goal is to return 95% of 997s within 90 minutes.

In the near future BellSouth's EDI infrastructure will be upgraded, whereupon the target turnaround time on FAs will become 30 minutes; specifically the goal will be to return 95% of 997s within 30 minutes.

### 1.12 TCIF Service Order Feature Codes

The TCIF SOSC committee maintains a list of TCIF Service Order Feature Codes that can be transmitted to order features via EDI. The following subset of that list, supported by BellSouth, displays selected feature codes and their associated translated USOC and SOFC description.

FEATURE	TRANSLATED USOC	SOFC DESCRIPTION
3WC	ESC	Three Way Calling
ACR001	NSS	Call Return
ACR003	NSQ	Repeat Dialing
CFW002	GCE	Call Forwarding Busy Line
CFW004	GJP	Customer Control Call Forward Busy Line
CFW021	GCJ	Call Forwarding Don't Answer
CFW024	GJC	Customer Control Call Forward No Answer
CFW035	GCZ	Remote Access Call Forwarding Variable
CFW038	ESM	Call Forwarding Variable
CID005	NXM	Caller ID Deluxe
CID006	NXMCR	Caller ID Deluxe with anonymous Call Rejection
CID010	NSD	Basic Caller ID
CID011	NOB	Calling Number Delivery Block

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FEATURE	TRANSLATED USOC	SOFC DESCRIPTION
CPU001	ELY2N	Prestige - Call Pickup
CSC002	NSK	Call Selector
CSC003	NCE	Preferred Call Forwarding
CSC004	NSY	Call Block
CWG004	ESX	Call Waiting
DRG001	DRS1X	RingMaster Service II - 1st Number
DRG002	DRS2X	RingMaster Service II - 2nd Number
DRG004	DRS	RingMaster Service I
MWG003	MWW	Message Waiting Indicator
SCG008	ESF	Speed Calling 30 Code
SCG012	ESTPA	Prestige Speed Call 6 Code
SCG014	ESL	Speed Calling 8 Code