

# **AT&T**

## **EDI Specifications Guide**

### **ELMS 6 For Firm Orders**

**Publication Date: 05/25/07**

## Notices

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## REVISION HISTORY

Changes from Issue FE6n, dated November 24, 2006, to Issue FE6o, dated May 14, 2007.							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#2487	25.0 / Documentation	850 855 860 865 997 836	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> <li>Rebranding of Bellsouth to AT&amp;T</li> </ul>

Changes from Issue FE6m, dated November 18, 2005, to Issue FE6n, dated November 24, 2006.							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#2417	24.0 / Documentation	860	H	N/A	REF02	ORDN	<ul style="list-style-type: none"> <li>Removed "PN" qualifier from REF02</li> </ul>

Changes from Issue FE6l, dated February 24, 2006, to Issue FE6m, dated July 21, 2006.							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#2191	Release 23.0	850 860	H	N/A	PID05	PROJINDR	<ul style="list-style-type: none"> <li>Added "PROJIND" qualifier to PID04</li> <li>ADDED "PROJINDR" field to PID05</li> </ul>

Changes from Issue FE6k, dated November 18, 2005, to Issue FE6l, dated February 24, 2006.							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
	21.0 / Documentation	865	H	N1	PER02	INIT	Corrected conditional statement to: If N101 PER01 PER02 78 AG INIT: Initiator Identification

Changes from Issue FE6j, dated November 18, 2005, to Issue FE6k, dated November 18, 2005.							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#2129	21.0 / Documentation	850/860	D	PO1	SI03	LMT	<ul style="list-style-type: none"> <li>Added "MJ" qualifier to SI02</li> <li>Added "LMT" field to SI03</li> </ul>

<b>Changes from Issue FE6i, dated March 25, 2005. to Issue FE6j, dated November 18, 2005.</b>							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#2129	21.0	850/860	D	PO1/SLN	PID05	BTRL	<ul style="list-style-type: none"> <li>PO1/SLN/PID segment changed from Not Used.</li> <li>Added "F" qualifier to PID01</li> <li>Added PO1/SLN/PID segment with BTRL field.</li> </ul>
N/A	Documentation	850	H	N/A	REF02	BOPI	<ul style="list-style-type: none"> <li>Added BOPI field to REF02.</li> <li>Added "BOPI" qualifier to REF03.</li> </ul>

<b>Changes from Issue FE6h, dated November 19, 2004 to Issue FE6i, dated March 25, 2005.</b>							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#1737	19.0	855/865	H	N/A	REF02	NOR	Added NOR field
CR#1536	19.0	836	--	--	--	--	<ul style="list-style-type: none"> <li>Section 1 – updated TOC, 1.1, 1.3, 1.3.2, 1.8, 1.8.2, 1.9, and 1.11 and inserted (1.10) section to address addition of 836 transaction set</li> <li>Added Section 7 for Procurement Notices (Line Loss Notification) for 836 Outbound Transaction Set</li> </ul>

<b>Changes from Issue FE6g, dated August 6, 2004 to Issue FE6h, dated November 19, 2004.</b>							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#1540	18.0	850/860	H	N/A	REF02	NAN	Added NAN field
CR#1540	18.0	855/865	H	N/A	REF02	NAN	Added NAN field
CR#1335	18.0	850/860	D	PO1	REF02	EOS	Added EOS field
CR#1962	17.0	850/860	D	PO1/POC		Notes	Added clarifying verbiage concerning required use of RNUM field for "A6" qualifiers of "DDPS", "DPG", "DTG", "DTT" or "SS."
N/A	Clarification	850/860	D	PO1/POC	PO107/ POC09	DL/DDPS	Moved DDPS to follow DL to group DDPS and subordinate qualifiers.

<b>Changes from Issue FE6f, dated April 9, 2004 to Issue FE6g, dated August 6, 2004.</b>							
<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#1096	17.0	850/860	H	N1	N104	RCC	Added new RCC field

CR#1962	17.0	850/860	D	PO1/POC	PO107/ POC09	DE234	Added additional A6 qualifiers to resolve issue with the ESOC Industry guidelines for submitting DID/ PBX data. The guidelines do not provide an alternative mapping solution for the common fields when both DID/ DOD and Trunk Service detail is being sent in by the CLEC. Added verbiage in PO1/POC segment notes to clarify usage of new A6 qualifiers.
N/A	Documentation	855/865	H	N9	MTX02	ERROR- CODE	N901 value changed from IQ to 1Q.
N/A	Clarification	855/865	D	PO1/POC	REF02	DLORD	Changed description from: "DLORD: Loop Order Number" to "DLORD: Directory Listing Order Number ( LNP only)".

**Changes from Issue FE6e, dated December 12, 2003 to Issue FE6f, dated April 9, 2004.**

<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#813	16.0	850/860	H	N/A	SI DE234	IWBAN	Added new IWBAN field
CR#813	16.0	855/865	H	N/A	SI DE234	IWBAN	Added new IWBAN field
CR#813	16.0	850/860	H	N/A	REF02	AAN	Added new AAN field
CR#813	16.0	855/865	H	N/A	REF02	AAN	Added new AAN field
CR#813	16.0	850/860	D	SLN	SLN DE234	IWT	Added new IWT field
CR#813	16.0	850/860	D	SLN	SLN04	IWTQ	Added new IWTQ field Clarified mapping for IWJQ field
CR#877	16.0	850/860	H	N1	NX202	SACTL	Added new SACTL field
CR#877	16.0	850/860	D	PID	PID05	SCFA	Added new SCFA field
CR#877	16.0	855/865	D	PID	PID05	SCFA	Added new SCFA field
CR#1704	Documentation	850/860	H	N/A	PAM03		Added 'UC' code set for Telecommunications Ports
CR#1704	Documentation	850/860	D	PO1	SI03		Clarified mapping for CHAN/PAIR, CHAN/PAIR 2, CABLE ID and CABLE ID 2.
CR#1704	Documentation	850/860	D	PO1/SLN	SI03		For Loop Services only, added mapping for CHAN/PAIR, CHAN/PAIR 2, CABLE ID and CABLE ID 2.

**Changes from Issue FE6d, dated November 7, 2003 to Issue FE6e, dated December 12, 2003.**

<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
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	14.0	855/865	D	PO1/POC	REF02 REF03	LOCNUM- SECLOC	Deleted LOCNUM-SECLOC to match AT&T User Requirements.
CR#1534	Documentation	855/865	D	PO1/POC SLN/N9	N903		Corrected typo "N902" to "N903"

**Changes from Issue FE6c, dated October 17, 2003 to Issue FE6d, dated November 7, 2003.**

<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR #1472	Documentation	850/860	D	PO1	SI03	LMT	Changed LMT from "Supported" to "Not Supported" to match AT&T User Requirements and corrected mapping instructions to remove the LMT field.
CR #1473	Documentation	850/860	D	PO1/N1	N403	ZIPCODE	Changed ZIPCODE to ZIP to match AT&T User Requirements.
CR #1473	Documentation	850/860	D	PO1/SLN/N1	N102	TCNAME	Changed TCNAME to TC NAME to match AT&T User Requirements and clarified mapping to add REF03 qualifier info.
CR #1473	Documentation	855/865	H	N/A	DTM02	D/SENT	Changed D/SENT to D/SENT to match AT&T User Requirements.
CR # 1460	Documentation	855/865	H	N1	PER04	DSGCON- TEL NO	Changed DSGCON-TEL NO from "Not Supported" to "Supported" to match AT&T User Requirements and corrected mapping instructions to add DSGCON-TEL NO field.
CR #1471	Documentation	850/860	D	PO1/SLN	SI03	TNS	Corrected mapping instructions to add TNS field.
CR #1471	Documentation	850/860	D	PO1/SLN	SI03	OTN	Corrected mapping instructions to add OTN field.

**Changes from Issue FE6b, dated September 12, 2003 to Issue FE6c, dated October 17, 2003.**

<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
CR#1404	Documentation	850/860	D	PO1/POC	N902	YPH	Moved from N9 to PO1/N9
CR#1423	Documentation	850		N/A		N/A	Transaction Set Index – Detail: PO1 Segment – - removed "Must Use" condition - changed Req/Des of M to O
	Documentation	850	D	PO1			PO1 Loop: - changed all occurrences of "PO1 Mandatory" to "PO1 Optional" PO1 Usage: - changed Usage: Mandatory to Usage: Optional

	Documentation	860		N/A		N/A	Transaction Set Index – Detail: POC Segment – - removed “Must Use” condition
	Documentation	860	D	POC			POC Loop: - changed all occurrences of “POC Optional (Must Use)” to “POC Optional” POC Usage: - changed Usage: Optional (Must Use) to Usage: Optional
	Documentation	850	N/A	N/A	N/A	N/A	Creation of Note 6 of Introduction to 850 transaction set using the following existing verbiage and including additional Detail information verbiage. Note 6 to read: “AT&T's usage of this transaction set for Local Exchange Ordering allows submission without Detail information. The 850 transaction set can contain Heading and Summary information only. If Detail information is included, the PO1 segment is required.”
	Documentation	860	N/A	N/A	N/A	N/A	Creation of Note 6 of Introduction to 860 transaction set using the following existing verbiage and including additional Detail information verbiage. Note 6 to read: “AT&T's usage of this transaction set for Local Exchange Ordering allows submission without Detail information. The 860 transaction set can contain Heading and Summary information only. If Detail information is included, the POC segment is required.”
CR# 135	Rel. 15.0	850/860	H	N/A	REF02	NATN	Added new NATN field
	Rel. 15.0	855/865	H	N/A	REF02	NATN	Added new NATN field

**Changes from Issue FE6a, dated July 11, 2003 to Issue FE6b, dated September 12, 2003.**

<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
N/A	Documentation Defect	850/860	D	PO1- POC/SLN	DE234	FATN	Moved from PO1/SI to PO1/SLN/SI
N/A	Documentation Defect	850/860	D	PO1/POC	DE234	SO	Removed from PO1/POC segment – remains at SLN segment

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<u>Change #</u>	<u>Release # Documen- tation Defect</u>	<u>Trans. Set</u>	<u>Hdr/ Dtl</u>	<u>Loop</u>	<u>Data Element</u>	<u>Field(s)</u>	<u>Description</u>
1.0 07/11/03	CR# 0687 Release 14.0						Initial Issue

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## Table of Contents

	<u>Page</u>
<b>1.0 Section 1 - Administration</b>	
1.1 Purpose.....	1-1
1.2 Intended Audience.....	1-1
1.3 How To Use This Guide.....	1-1
1.4 Acronyms.....	1-3
1.5 General Assumptions.....	1-3
1.6 Electronic Data Interchange (EDI) Overview.....	1-3
1.7 EDI Communications.....	1-4
1.8 EDI Transaction Sets/Data Elements.....	1-6
1.9 Return Documents.....	1-9
1.10 Line Loss Notification Outbound Documents.....	1-10
1.11 EDI Batch Processing.....	1-10
1.12 Functional Acknowledgment Timeliness.....	1-11
1.13 TCIF Service Order Feature Codes.....	1-11
<b>2.0 Section 2 - 850 Purchase Order Transaction Set.....</b>	<b>2-1</b>
<b>3.0 Section 3 - 855 Purchase Order Acknowledgment Transaction Set....</b>	<b>3-1</b>
<b>4.0 Section 4 - 860 Purchase Order Change Request Transaction Set.....</b>	<b>4-1</b>
<b>5.0 Section 5 - 865 Purchase Order Change Ack/Req Transaction Set.....</b>	<b>5-1</b>
<b>6.0 Section 6 - 997 Functional Acknowledgment Transaction Set.....</b>	<b>6-1</b>
<b>7.0 Section 7 - 836 Procurement Notices (Line Loss Notification) Transaction Set.....</b>	<b>7-1</b>

## 1.0 Administration

### 1.1 Purpose

This document was developed to assist CLECs and Software Vendors in gaining a better understanding of the processes involved in conducting business with AT&T 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) firm order process and to support Competitive Local Exchange Carriers (CLECs) and Software Vendors who provide products and services for CLECs doing business in the AT&T region with detailed information regarding the six EDI ELMS 6 transaction sets and their specifications. The correct use of these specifications is critical for CLECs/Vendors that are engaged in ordering local exchange services from AT&T. This document is not intended to provide specific information on establishing connectivity with AT&T. For additional information concerning connectivity with AT&T and EDI testing guidelines, CLECs/Vendors should contact their AT&T Electronic Commerce Account Team Representative.

### 1.2 Intended Audience

This document is intended for CLECs and Software Vendors who have contracted with AT&T and plan to order local exchange products and services from AT&T via EDI ELMS 6.

### 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/Vendor in conducting business with AT&T via EDI.

- Section 1, the Administration section, provides an overview of the AT&T EDI environment and provides insight as to how to use Sections 2 through 7.
- Sections 2 through 6 describe the EDI ELMS 6 transaction sets and specifications that are to be used when conducting local exchange ordering with AT&T.
- Section 7 describes the EDI ELMS 6 836 Procurement Notices (Line Loss Notification) transaction set that is used by AT&T to provide notification that the CLEC is losing a line or provide notification of no line losses for a specific day.

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

- Understanding of the EDI specifications in Sections 2 - 7
- The AT&T usage rules as stated in the *AT&T Business Rules for Local Ordering*

For the most part, the data element characteristics and valid entries detailed in

the *AT&T 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 firm order specifications contained in the transaction sets. In some instances it has been necessary for AT&T to vary from the established guidelines in order to meet the needs of local exchange ordering at AT&T. 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. AT&T usage rules, as detailed in the *AT&T 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: 0100  
 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).  
 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M 1 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 The value of the data element in ST02 in the	M 1 AN 4/9

Transaction Set Header (ST) must match the value of this same data element in SE02 in the Transaction Set Trailer (SE).

Not Used ST03 1705 Implementation Convention Reference 0 1 AN 1/35  
Reference assigned to identify Implementation Convention

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 AT&T 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 AT&T usage rules listed in the *AT&T 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>ELMS</b>	EDI Local Service Order Guideline Mechanization Specifications
<b>ESOC</b>	EDI Service Order Committee
<b>FOC</b>	Firm Order Confirmation
<b>LEO</b>	Local Exchange Ordering
<b>OBF</b>	Ordering and Billing Forum
<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 ELMS 6 specifications and AT&T business rules
- The CLEC/Vendor must be legally certified to provide local phone services in the state where they are doing business
- The CLEC/Vendor must have a signed Interconnection Agreement with AT&T for local exchange ordering
- The CLEC/Vendor must have an established billing account with AT&T

## 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

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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 AT&T, 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. Two EDI committees of TCIF develop proposed EDI transaction sets and/or implementation guidelines for use within the industry.

- EDI Telecommunications Billing
- EDI Service Order Committee (ESOC)

**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 AT&T'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. AT&T currently has the capability to connect and transmit EDI documents via three methods—VAN-to-VAN, CONNECT:Direct®, and Interactive Agent.

## 1.7 EDI Communications

1.7.1 Value Added Network Service

AT&T uses Inovis VAN service as its primary Value Added Network (VAN) service. AT&T 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. AT&T, 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.

1.7.2 CONNECT:Direct® (formerly Network Data Mover [NDM])

CONNECT:Direct® is a file transfer product licensed by Sterling Commerce. AT&T trading partners selecting this communications option must provide a dedicated line between their facility and AT&T's EDI gateway.

CONNECT:Direct® at AT&T requires that the trading partner be licensed by Sterling Commerce to use this product and that both AT&T and the trading partner have a supported version of CONNECT:Direct® installed.

AT&T is currently running mainframe and UNIX versions of this product, although this product is available on multiple platforms for its trading partners. AT&T 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 AT&T, CLECs/Vendors should contact their AT&T Electronic Commerce Account Team Representative.

1.7.3 Interactive Agent

AT&T supports Interactive Agent standards as outlined in the "TCIF Electronic Communications Interactive Agent Functional Specifications," TCIF-98-006 Issue 3, Revision 2, dated December 5, 2001 and Issue 2, Revision 1, dated June 13, 2001. AT&T trading partners selecting this communications option must provide a dedicated private circuit between their facility and AT&T's Interactive Agent. Trading partners are responsible for developing or purchasing their own Interactive Agent client/server to communicate with AT&T's Interactive Agent. Preorder functionality through the EDI interface must flow through an Interactive Agent environment.

AT&T Electronic Commerce Account Team Representatives will provide additional details for those CLECs/Vendors interested in the Interactive Agent mode of connectivity.

## 1.8 EDI Transaction Sets/Data Elements

- 1.8.1 To transmit and receive the appropriate data for local exchange ordering via EDI, six specific EDI ELMS 6 transaction sets and OBF, as well as a few AT&T specific, data fields are used. The data fields are described in detail in the *AT&T Business Rules for Local Ordering*. As stated earlier, both ANSI and AT&T business rules must be adhered to in order to ensure valid orders.
- 1.8.2 Detailed EDI specifications for the ELMS 6 850, 855, 860, 865, 997, and 836 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 AT&T 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 AT&T 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 AT&T and its trading partners for notification purposes. Upon receipt of any 850 or 860 transaction set from a trading partner, AT&T will generate a 997 transaction set as an acknowledgment. A 997 transaction set is required as an acknowledgement when a trading partner receives any 855, 865 or 836 transaction set from AT&T. AT&T 997s indicate whether the transaction set was accepted or rejected; in the case of rejected 997s, the nature of the error is provided.
  - **836 Procurement Notices (Line Loss Notification)** is used by AT&T to provide notification to a CLEC of a line loss or notification of no line losses for a specific day.
- 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.



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:

<b>SI TI AA N~</b>	SI01 = TI	Code for Telecommunications Industry
<b>SI TI TY 1AF~</b>	SI02 = AA	Qualifier indicating ACT (Account Activity Type) will be next
<b>SI TI RE EB~</b>	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~**

**Example 4 (strung out)**

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

## SI|TI|SA|C|NPT|A~

Other data segments process in the same way. AT&T 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.

- 1.8.7 OBF practices are the basis for receiving local exchange ordering data at AT&T. As new practices are put into effect, it is essential that AT&T systems correctly determine the types of data being received at the detail level. To assist in identifying this data, AT&T employs the use of the industry "A6" list of codes in a DE 235/234 pair of the PO1/POC data segment. The PO1 and POC segments of the 850 and 860 transaction sets detail the appropriate codes for each type of data being transmitted.

## 1.9 Return Documents

The ELMS 6 855, 865 and 997 ANSI transaction sets are considered "return" documents.

- The 855 and 865 EDI transaction sets are used to notify the CLEC/Vendor of a Firm Order Confirmation (FOC), pending order status change, rejection, need for clarification, or as a completion notice. Additionally, the 855s and 865s are used to inform a CLEC/Vendor of missing or invalid EDI-required data that would prohibit further processing of the order. Examples of this include invalid or missing PO1/POC "A6" identification codes, receipt of a pre-order query in a file with firm orders, invalid transaction set purpose code or purchase order type in the BEG01/BCH01 and BEG02/BCH02 segments, etc.
- An 855 transaction set is returned in response to an 850 from the CLEC/Vendor. If BAK data elements are populated as follows, the CLEC/Vendor 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
44	RN = Rejection—missing or invalid EDI-required data

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/Vendor. The 865 is used for all Completion notices. If BCA data elements are populated as follows, the CLEC/Vendor is being notified accordingly.

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If	BCA01	BCA02
	06	AT = Accepted FOC
	06	AH = Clarification
	06	RD = Reject
	08	NA = Status
	21	AC = Jeopardy
	CN	AT = Completion
	53	AT = Billing Completion
	44	RN = Rejection—missing or invalid EDI-required data

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/Vendors that a document was received at AT&T and to inform them of any syntax errors. If a negative 997 transaction set is returned to the CLEC/Vendor, syntax errors occurred in the transmission. The AK3, AK4, AK5 data segments indicate the type and position of the syntax errors received.

#### 1.10 Line Loss Notification Outbound Documents

An ELMS 6 836 transaction set is used to notify CLECs/Vendors of line losses or notification of no line losses for a specific day.

#### 1.11 EDI Batch Processing

Local Exchange Ordering via the AT&T EDI interface is performed as a batch processing operation for VAN to VAN and CONNECT:Direct® transport methods. AT&T'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 EDI Service Order Committee, an ATIS organization, are also followed.

There is, for all practical purposes, no limitation to the size of an ANSI X12 file that can be submitted. However, AT&T's downstream ordering systems have size limitations. To accommodate the downstream systems necessary for electronic ordering, the maximum size of a single EDI LSR (Local Service Request) should not exceed 1 Megabyte (1 million characters). Multiple LSRs shall be grouped into one EDI enveloping structure for batch processing. This larger file containing the individual LSRs may be as large as is necessary for ordering local exchange services via AT&T EDI.

For CLECs/Vendors utilizing an Interactive Agent type of file transport, AT&T does not employ batch processing. For this type of operation, single transactions are processed both into the AT&T systems and back to the trading partner.

For CLECs/Vendors utilizing a CONNECT:Direct® type of file transport, AT&T advises employing a two-minute interval between submissions to avoid file contention. AT&T cannot guarantee successful file delivery when files are received at less than two-minute intervals.

For CLECs/Vendors utilizing a Value Added Network, restrictions on the timing and size of submissions would be communicated by their VAN of choice. All local exchange ordering VAN traffic is networked through Inovis, AT&T's VAN of choice. AT&T's arrangement for Inovis VAN services conforms with the two-minute interval restrictions.

The EDI sending party (CLEC/Vendor for 850/860s; AT&T for 855/865/836s) is responsible for ensuring successful submission of its EDI data. The AT&T EDI translation jobs are operational 24 x 7, except during normal scheduled maintenance.

**1.12 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/Vendor.

AT&T's current target turnaround time on FAs is 30 minutes.

**1.13 TCIF Service Order Feature Codes**

The TCIF ESOC 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 AT&T, 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
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

AT&T Alabama, AT&T Florida, AT&T Georgia, AT&T Kentucky, AT&T Louisiana, AT&T Mississippi, AT&T North Carolina, AT&T South Carolina and AT&T Tennessee (collectively referred to for purposes of this document as "AT&T")

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<b>FEATURE</b>	<b>TRANSLATED USOC</b>	<b>SOFC DESCRIPTION</b>
MWG003	MWW	Message Waiting Indicator
SCG008	ESF	Speed Calling 30 Code
SCG012	ESTPA	Prestige Speed Call 6 Code
SCG014	ESL	Speed Calling 8 Code