

AT&T

EDI Specifications Guide

ELMS 10 for Firm Orders

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REVISION HISTORY

Changes from Issue FE10b, dated July 21, 2006, to Issue FE10c, 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	Release 25.0	850 855 860 865 997 836	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> Rebranding of Bellsouth to AT&T

Changes from Issue FE10a, dated February 24, 2006, to Issue FE10b, 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"> Added "PROJIND" qualifier to PID04 ADDED "PROJINDR" field to PID05

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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>
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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 10 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 10.

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 10 transaction sets and specifications that are to be used when conducting local exchange ordering with AT&T.
- Section 7 describes the EDI ELMS 10 836 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.	Data		Attributes
	Des.	Element	Name	
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	M 1 AN 4/9
The value of the data element in ST02 in the Transaction Set Header (ST) must match the value of				

				<code>this same data element in SE02 in the Transaction Set Trailer (SE).</code>					
<code>Not Used</code>	<code>ST03</code>	<code>1705</code>	<code>Implementation Convention Reference</code>	<code>O</code>	<code>1</code>	<code>AN</code>	<code>1/35</code>		
			<code>Reference assigned to identify Implementation Convention</code>						

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:

ANSI	American National Standards Institute
ASC	Accredited Standards Committee
ATIS	Alliance of Telecommunications Industry Solutions
CLEC	Competitive Local Exchange Carrier
EDI	Electronic Data Interchange
ELMS	EDI Local Service Order Guideline Mechanization Specifications
ESOC	EDI Service Order Committee
FOC	Firm Order Confirmation
LEO	Local Exchange Ordering
OBF	Ordering and Billing Forum
TCIF	Telecommunications Industry Forum
VAN	Value Added Network

1.5 General Assumptions

It is assumed that:

- The readers of this guide have a good working knowledge of EDI ELMS 10 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

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.

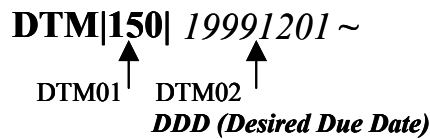
AT&T Electronic Commerce Account Team Representatives will provide additional details for those CLECs/Vendors interested in the Interactive Agent mode of connectivity.

1.8 EDI Transaction Sets/Data Elements

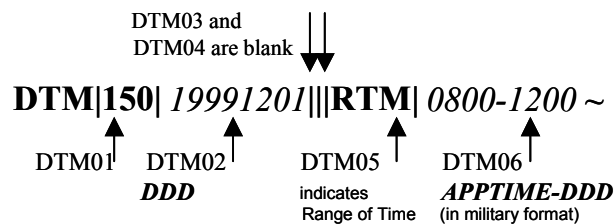
- 1.8.1 To transmit and receive the appropriate data for local exchange ordering via EDI, six specific EDI ELMS 10 transaction sets and OBF, as well as a few AT&T specific, data fields are used. The data fields are described in detail in the *AT&T Business Rules for Local Ordering*. As stated earlier, 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 10 850, 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.

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 AT&T 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 their own set of EDI usage and syntactical rules. They are listed in the EDI transaction set specifications. The specifications, along with the AT&T usage rules described in the *AT&T 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).



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.



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 AT&T 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. Characters that are used as element delimiters and segment terminators cannot be sent as data in a transaction set; therefore, the use of such characters as asterisks and exclamation points are discouraged.

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~	SI01 = TI	Code for Telecommunications Industry
SI TI TY 1AF~	SI02 = AA	Qualifier indicating ACT (Account Activity Type) will be next
SI TI RE EB~	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 10 855, 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 BAK01	BAK02
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.

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 10 836 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")

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

Appendix A – Interchange Control Structures

These examples are not intended to provide specific information on establishing connectivity with AT&T. For complete information to complete the ISA and GS segments, contact your AT&T Electronic Commerce Account Team Representative.

Segment: **ISA** Interchange Control Header
Position: 0010
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ISA01	I01	Authorization Information Qualifier Code identifying the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	M 1 ID 2/2
Must Use	ISA02	I02	Authorization Information Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) Spaces will be sent.	M 1 AN 10/10
Must Use	ISA03	I03	Security Information Qualifier Code identifying the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	M 1 ID 2/2
Must Use	ISA04	I04	Security Information This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) Spaces will be sent.	M 1 AN 10/10
Must Use	ISA05	I05	Interchange ID Qualifier Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet) 12 Phone (Telephone Companies) ZZ Mutually Defined	M 1 ID 2/2
Must Use	ISA06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element Inbound to AT&T: Sender ID - Your ID (assigned by AT&T) Outbound from AT&T:	M 1 AN 15/15

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			<p>AT&T Sender ID - ELMS 6: 044891349E6C (CAVE) 044891349E6P (Production) 044891349E6T (Test)</p> <p>AT&T Sender ID - ELMS 10: 044891349E10C (CAVE) 044891349E10P (Production) 044891349E10T (Test)</p>		
Must Use	ISA07	I05	<p>Interchange ID Qualifier M 1 ID 2/2 Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet) ZZ Mutually Defined</p>		
Must Use	ISA08	I07	<p>Interchange Receiver ID M 1 AN 15/15 Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them</p> <p>Outbound from AT&T: Receiver ID - Your ID (assigned by AT&T)</p> <p>Inbound to AT&T: AT&T Receiver ID - ELMS 6: 044891349E6C (CAVE) 044891349E6P (Production) 044891349E6T (Test)</p> <p>AT&T Receiver ID - ELMS 10: 044891349E10C (CAVE) 044891349E10P (Production) 044891349E10T (Test)</p>		
Must Use	ISA09	I08	<p>Interchange Date M 1 DT 6/6 Date of the interchange</p> <p>Format: YYMMDD</p>		
Must Use	ISA10	I09	<p>Interchange Time M 1 TM 4/4 Time of the interchange</p> <p>Format: HHMM (24 hour clock)</p>		
Must Use	ISA11	I65	<p>Repetition Separator M 1 AN 1/1 Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator</p> <p>AT&T valid code: U</p>		
Must Use	ISA12	I11	<p>Interchange Control Version Number M 1 ID 5/5 Code specifying the version number of the interchange control segments</p> <p>AT&T Valid Codes: 00401 ELMS6 - Draft Standards for Trail Use Approved for Publication by ASC X12 Procedures Board through October 1997 00405 ELMS10 - Draft Standards for Trail Use Approved for Publication by ASC X12 Procedures Board through October 2001</p>		
Must Use	ISA13	I12	<p>Interchange Control Number M 1 N0 9/9 A control number assigned by the interchange sender</p>		
Must Use	ISA14	I13	<p>Acknowledgment Requested M 1 ID 1/1</p>		

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			Code indicating sender's request for an interchange acknowledgment		
			0 No Acknowledgment Requested		
Must Use	ISA15	I14	Usage Indicator	M 1	ID 1/1
			Code indicating whether data enclosed by this interchange envelope is test, production or information		
			P Production Data		
			T Test Data		
Must Use	ISA16	I15	Component Element Separator	M 1	AN 1/1
			Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator		
			Mutually agreed-upon value.		

Segment: **GS** Functional Group Header
Position: 0030
Loop:
Level:
Usage: Optional
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes:

- 1 GS04 is the group date.
- 2 GS05 is the group time.
- 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

- 1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets CA Purchase Order Change Acknowledgment/Request - Seller Initiated (865) FA Functional Acknowledgment (997) PC Purchase Order Change Request - Buyer Initiated (860) PO Purchase Order (850) PR Purchase Order Acknowledgment (855) RQ Request for Quotation (840) and Procurement Notices (836)	M 1 ID 2/2
Must Use	GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners Inbound to AT&T: Sender's Code - Your Code (assigned by AT&T) Outbound from AT&T: AT&T Sender's Code - ELMS 6: 044891349E6C (CAVE) 044891349E6P (Production) 044891349E6T (Test) AT&T Sender's Code - ELMS 10: 044891349E10C (CAVE) 044891349E10P (Production) 044891349E10T (Test)	M 1 AN 2/15
Must Use	GS03	124	Application Receiver's Code Code identifying party receiving transmission; codes agreed to by trading partners Outbound from AT&T: Receiver's Code - Your code (assigned by AT&T) Inbound to AT&T: AT&T Receiver's Code - ELMS 6: 044891349E6C (CAVE) 044891349E6P (Production)	M 1 AN 2/15

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			044891349E6T (Test)	
			AT&T Receiver's Code - ELMS 10: 044891349E10C (CAVE) 044891349E10P (Production) 044891349E10T (Test)	
Must Use	GS04	373	Date	M 1 DT 8/8
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
			Date of the Functional Group (CCYYMMDD)	
Must Use	GS05	337	Time	M 1 TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
			Time of the Functional Group HHMM (24 hour clock).	
Must Use	GS06	28	Group Control Number	M 1 N0 1/9
			Assigned number originated and maintained by the sender	
			Sender assigned sequential number.	
Must Use	GS07	455	Responsible Agency Code	M 1 ID 1/2
			Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	
			X Accredited Standards Committee X12	
Must Use	GS08	480	Version / Release / Industry Identifier Code	M 1 AN 1/12
			Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	
			004030 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1999	
			004050 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 2001	