Centers for Medicare & Medicaid Services
CMS eXpedited Life Cycle (XLC)

Electronic Submission of Medical Documentation (esMD)

X12N 275 Companion Guide: Additional Information to Support Health Care Claim or Encounter AR2024.04.0

Version 2.0

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Table of Contents

List of Figures

List of Tables

1.   Introduction

The Centers for Medicare & Medicaid Services (CMS) is a federal agency that ensures health care coverage for more than 100 million Americans. CMS administers Medicare and provides funds and guidance for all states, territories, and protectorates in the nation, for their Medicaid programs and Children's Health Insurance Program (CHIP). CMS works together with the health care community and organizations in delivering improved and better-coordinated care.

1.1   Scope

The purpose of this *Accredited Standards Committee (ASC)* ASC X12N/006020X314 275 Claims or Encounters Companion Guide is to provide standardized data requirements and content for all trading partners participating in the Electronic Submission of Medical Documentation (esMD) system to submit Unsolicited Paperwork (PWK) claim documentation in structured or unstructured formats using the X12N 275 specifications. The X12N 275 transactions must be submitted using the non-synchronous batch mode. Use this companion guide in conjunction with the *X12N (275) Additional Information to Support Health Care Claim or Encounter (TR3).* This companion guide supplements but does not modify or replace any guidelines or rules established by the X12N 275 TR3.

1.2   Overview

This companion guide has been written to assist trading partners or Health Information Handlers (HIH) in implementing the ASC X12N 275 Unsolicited PWK Claim documentation to meet esMD processing standards. It provides detailed explanations of the transaction set by defining data content, identifies valid code values per the esMD programs offered by CMS, and specifies values that are applicable for Electronic Data Interchange (EDI) X12N 275 Additional Information to Support a Health Care Claim or Encounter. The guidance is to support esMD trading partners, such as HIHs, to effectively submit X12N 275 Unsolicited PWK Claim Documentation.

1.3   Assumption

This document was created with the assumption that the reader is familiar with and has available the *ASC X12N 275/006020X314 Additional Information to Support a Health Care Services Review Technical Report Type 3 (TR3).* The information presented in this companion guide is written from the perspective of esMD. Refer to the ASC X12N 275/006020X314 TR3 for information that is not specific to esMD.

2.   X12 Version Information

The esMD system supports specific version/release/industry identifier codes for processing X12N 275 transaction sets and sending any acknowledgements.

The version/release/industry identifier codes in Table 1: Transaction Type Supported Version are the applicable Functional Identifier codes that must be transmitted in the Functional Group Header (GS Segment) at the start of the functional group of an X12 transaction set.

Table 1: Transaction Type Supported Version

Standard	Transaction Type	Version/Release/Industry Identifier Code
HIPAA/X12	275 (Additional Information to Support a Claim or Encounter)	006020X314
HIPAA/X12	999 (Implementation Acknowledgment for Health Care Insurance)	005010X231A1
HIPAA/X12	TA1 (Interchange Acknowledgement)	005010X231A1

3.   esMD Program-level Notes for X12N 006020X314 (X12N 275)

esMD imposes a few global business rules and limitations on the X12N 275 transaction in order to process requests. The following information describes the esMD X12N 275 transaction requirements to be used in conjunction with the standards outlined in the ASC X12 275 version 006020X314 TR3. Adhering to these requirements will ensure that the X12N 275 submission passes the esMD business edits.

The esMD trading partners or HIH must adhere to the following business rules and limitations for submitting transactions in batch submission mode:

1. Only one transaction per functional group.

2. Only one functional group per interchange.

3. Interchange Delimiter identifies the preferred delimiters that esMD uses for the X12 transactions it generates.

4. Interchange acknowledgements for successful deliveries are honored for submitters using the deferred batch response method.

5. Multiple 2000A loops (Assigned Number) can be submitted if the same Attachment Control Number (ACN) is supplied in the TRN02 element in all loops.

6. The X12N 275 Transaction Allowed Codes lists the constraints on the esMD-specific acceptable code value that must be supplied for an element within a segment of a particular loop. The HIH must use code values defined in the TR3 guidelines for the elements that are not listed in the table.

7. The Receiver ID provided in ISA08 must be the EDI ID assigned to each Review Contractor (RC). In the future, EDI IDs will be published on the esMD website. Until then, contact the esMD Service Desk to obtain the information.

8. The Transaction Set Reference Identification number provided in BGN02 must be a unique value.

9. The Claim ID must be submitted in the REF (Provider's Assigned Claim Identifier) segment of Loop 1000D. The REF01 qualifier must be submitted as "X1".

10. The esMD system accepts standard formats for Claim IDs in X12N 275.

    Note: All segments submitted that are not identified in this document must conform to the ASC X12N 006020X314 TR3 specification to enable a successful submission.

4.   CAQH Metadata

The CAQH CORE Rule defines a set of metadata used for message routing, transaction auditing, transaction scheduling, resource allocation, backward compatibility, error handling, and audit logging. The metadata is provided at the CORE Envelope Level of the Soap Reuqest. Table 2: CORE Envelope Metadata lists the required CAQH CORE Metadata for esMD.

Table 2: CORE Envelope Metadata

CORE Field	Requirement	Data Type	Definition	Value or Field Constraints for the esMD's eDoC
PayloadType	R	Coded Set	Specifies the type of payload included within the request/response for an Unsolicited PWK submissions.	X12_275_Request_006020 X314
ProcessingMode	R	Coded Set	Indicates Batch or Real-time processing mode (as defined by CORE)	Batch
PayloadID	R	String	Payload ID is a unique identifier assigned by the sender.	The Payload ID must be unique for every 275 Unsolicited PWK submissions
PayloadLength	R	Integer	Specifies the length of the actual payload in bytes.	Base 10
TimeStamp	R	dateTime	The Sender (request) or Receiver (response) TimeStamp combines time and date message metadata into a single Coordinated Universal Time (UTC) time stamp (including time zone information) specifying when a message is created and sent to a receiver. This does not require a shared time server for consistent time.	Date and Time the Message was created http://www.w3.org/TR/xmlschema11-2/#dateTime
SenderID	R	String	A unique business entity identifier representing the message envelope creator.	HIH OID
ReceiverID	R	String	A unique business entity identifier representing the next-hop receiver.	RC OID
CORERuleVersion	R	Coded Set	The CORE Rule version that this envelope is using. This value can be used to maintain backward compatibility when parsing/processing messages.	v2.2.0

CORE Field	Requirement	Data Type	Definition	Value or Field Constraints for the esMD's eDoC
CheckSum	R	String	An element used to allow receiving site to verify the integrity of the message that is sent.	Algorithm is SHA-1, Encoding is hexadecimal. Checksum must be computed only on the payload and not on the metadata.
ErrorCode	R (for a response to an ASC X12 transaction)	Coded Set	Error code to indicate the error when processing the envelope (includes "Success" response).	Refer to Phase II CAQH CORE Rule 270: Connectivity Rule Version v2.2.0 Section 4.3.3.2 for appropriate codes
ErrorMessage	R (for a response to an ASC X12 transaction)	String	Text Error message that describes the condition that caused the error. The text of the ErrorMessage must provide additional information describing how the Error can be resolved, and must not provide conflicting information from that provided in the ErrorCode.	N/A

Figure 1: esMD CAQH Metadta Sample

```
<PayloadType>X12_275_Request_006020X314</PayloadType>
<ProcessingMode>Batch</ProcessingMode>
<PayloadID>SG321325T_0127152012320211153</PayloadID>
<PayloadLength>2048</PayloadLength>
<TimeStamp>2022-11-28T11:20:37.893-04:00</TimeStamp>
<SenderID>urn:oid:123.456.657.126</SenderID>
<ReceiverID>urn:oid:2.16.840.1.113883.13.34.110.1.999.2</ReceiverID>
<CORERuleVersion>2.2.0</CORERuleVersion>
<CheckSum>String</CheckSum>
```

5.   X12N 275 Claim or Encounter Structure Specification.

5.1   Interchange Control Structure

This X12N 275 interchange control and transaction set contains the format and establishes the data contents of the *Additional Information to Support Health Care Claim or Encounter* (X12N 275) for use within the context of an EDI environment that implements the requirements defined in the X12N 275 TR3 with the esMD-specific limitations and requirements identified in this guide. The transaction set is used to transmit health care service information, such as Payer, Submitter, Patient, and Provider Information for the purposes of sending Unsolicited Claim documentation for health care services reviews. The information is transmitted to the organization that will perform the review of the submitted information.

Table 3: Interchange Control Header through Table 8: GE Segment Information define the use of this control structure as it relates to communication with esMD for the X12N 275 transaction.

Table 3: Interchange Control Header

Segment Name	Interchange Control Header		
Segment ID	ISA		
Loop ID	Not assigned		
Usage	Mandatory		
Max Use	1		
Segment Notes	The ISA Segment is the interchange header for the X12 document and is the outermost layer of the EDI envelope; it contains sender and recipient information for a set of X12 documents.		
	1. All positions within each data element in the ISA segment must be filled.		
	2. Delimiters are specified in the interchange header segment.		
	3. The character immediately following the segment ID, ISA, defines the data elements separator.		
	4. The last element in the segment defines the component element separator, and the ISA segment terminator (following the component element separator) defines the character that will be used as the segment terminator for the entire transaction set.		
	5. While it is not required that submitters use these specific delimiters, these are the ones that esMD uses for all outbound response transactions.		
	esMD Implementation Note:		
	ISA14 must be set to zero.		
	Character	**Name**	**Delimiter**
	*	Asterisk	Data Element Separator
	+	Plus	Repetition Separator
	:	Colon	Component Element Separator
	~	Tilde	Segment Terminator
Example	ISA*00* *00* *ZZ*Test HIH *ZZ*111222333 *180514*2303*+*00602*000000001*0*T*:~		

Table 4: ISA Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
ISA01	M	Authorization Information Qualifier	00	The Authorization and Security Information Qualifiers must be 00.
ISA02	M	Authorization Information	10 blank spaces	Always blank. Insert 10 blank spaces.
ISA03	M	Security Information Qualifier	00	The Authorization and Security Information Qualifiers must be 00.
ISA04	M	Security Information	10 blank spaces	Always blank. Insert 10 blank spaces.
ISA05	M	Interchange ID Qualifier (Sender)	ZZ	The Interchange ID Qualifier must be ZZ.
ISA06	M	Interchange Sender ID	Per esMD requirement	The HIH must use its esMD-registered EDI ID in ISA06, left justified with trailing spaces to fill the 15 characters.
ISA07	M	Interchange ID Qualifier (Receiver)	ZZ	The Interchange ID Qualifier must be ZZ.
ISA08	M	Interchange Receiver ID	Per esMD requirement	The HIH must use the esMD RC's esMD-registered EDI ID in ISA08, left justified with trailing spaces to fill the 15 characters
ISA14	M	Acknowledgment Requested	0	Enter 0 in ISA14 to prevent receipt of unnecessary TA1 success messages for every submission accepted by esMD.
ISA15	M	Interchange Usage Indicator	P	The Interchange Usage ID must be set to "P" for Production Data.

Table 5: GS-Functional Group Header

Segment Name	Functional Group Header
Segment ID	GS
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	This segment is the functional group header segment for a set of X12 documents (transaction sets) of the same document type. The data elements in this segment provide information relating to the functional group, such as the codes identifying the sender and recipient and the date and time of preparation.
Example	GS*PI*Test HIH*111222333*20180514*2303*1*X*006020X314~

Table 6: GS Segment Information

Reference Designator	Usage	Element Name	Valid Values esMD/TR3	esMD Requirement or Element Description
GS02	M	Application Sender's Code	Per esMD requirement	Enter the value from ISA06 into GS02; any trailing spaces in the ISA06 element are not required in the GS02 element.
GS03	M	Application Receiver's Code	Per esMD requirement	Enter the value from ISA08 into GS03; any trailing spaces in the ISA08 element are not required in the GS03 element.

Reference Designator	Usage	Element Name	Valid Values esMD/TR3	esMD Requirement or Element Description
GS08	M	Version/Release/Industry Identifier Code	Per esMD requirement	The Version/Release/Industry Identifier Code must be 006020X314.

Table 7: GE-Functional Group Trailer

Segment Name	Functional Group Trailer
Segment ID	GE
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	This segment is the functional group trailer segment of a set of X12 documents (transaction sets) of the same document type. This segment indicates the end of a group of transaction sets in an interchange.
Example	GE*1*1~

Table 8: GE Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
GE01	M	Number of Transaction Sets Included	Per esMD requirement	The total number of transaction sets included in the functional group or interchanges, as per esMD there is only one transaction set allowed.
GE02	M	Group Control Number	Per esMD requirement	The value must be identical to the value in the GS06.

Table 9: IEA-Interchange Control Trailer

Segment Name	Interchange Control Trailer
Segment ID	IEA
Loop ID	Not assigned
Usage	Mandatory
Segment Notes	This is the Interchange Trailer segment of an X12 functional group. This segment indicates the end of an interchange. The elements in the IEA segment provide information about the number of functional groups included in the interchange, and the interchange control reference number.
Example	IEA*1*000000001~

5.2   Sample Interchange Control

Figure 2: Sample EDI X12N 275 Envelope Transaction provides a sample X12N 275 EDI transaction meant to demonstrate the sample or mock high-level hierarchical structure of an acceptable X12N 275 EDI transaction. Each loop, segment, and element flows continuously within a single stream of data.

Figure 2: Sample EDI X12N 275 Envelope Transaction

```
ISA*00*          *00*          *ZZ*9012345720000 *ZZ*9088877320000
*170726*0817*+*00602*000001525*0*P*:~
GS*HI*9012345720000*9088877320000*20170726*0900*1523*X*006020X314~
ST*275*1523*006020X314~
. . .
. . .
. . .
SE*17*1523~
GE*1*1523~
IEA*1*000001525~
```

5.3   X12N 275 Claim or Encounter Transaction Segment Usage

This section lists the usage of levels, loops, and segments that are required to support esMD X12N 275 transactions.

Table 10: X12N 275 Claim or Encounter Segments identifies the importance of the loop, segment, and element information required to support the esMD program requirements that comply with the *X12N 275 TR3 Implementation Guide*. The table includes a usage column identifying the submission requirements for loops and segments as follows:

1. Mandatory (M): Mandatory loops and segments must appear in all transactions. Failure to include a mandatory loop or segment results in a compliance error. In some cases information for mandatory loops and segments is required by RCs for adjudicating the transaction.

2. Conditional (C): The submission of conditional segments is based on the presence or absence of a data element value within the same or a different segment.

3. Not Used (N/U): Any segment identified as N/U by esMD must not be submitted. Submission of such segments (or data elements) results in a compliance error.

4. Optional (O): Any segment identified as optional by esMD is not required; this applies for any optional loops, segments, or elements.

Table 10: X12N 275 Claim or Encounter Segments

Segment ID	Loop ID	Segment Name	esMD Usage
ST	Not assigned	Transaction Set Header	M
BGN	Not assigned	Beginning Segment	M
NM1	1000A	Information Source Name	M
NM1	1000B	Information Receiver Name	M
NM1	1000C	Patient Name	M
NX1	1100C	Provider Identification	M
N3	1100C	Provider Address	M
N4	1100C	Provider City, State, Zip Code	M
NM1	1000D	Patient Name	M
REF	1000D	Provider's Assigned Claim Identifier	M
LX	2000A	Assigned Number	M

Segment ID	Loop ID	Segment Name	esMD Usage
TRN	2000A	Provider Attachment Control Trace Number	M
DTP	2100B	Additional Information Submitted Date	M
CAT	2100B	Format and Version Identifier	M
OOI	2110B	Associated Object Type Identification	M
BDS	2110B	Binary Data Segment	M
SE	Not assigned	Transaction Set Trailer	M

5.4   Segment and Data Element Description

Table 11: Segment and Data Element Description through Table 43: SE–275 Transaction Set Trailer represent segments as Mandatory (M), Conditional (C), Not Used (N/U), or Optional (O) for the esMD implementation of the X12N 275 transaction. Each segment table contains rows and columns describing the different elements of the particular segment.

Table 11: Segment and Data Element Description

Segment/Data Element	Description
Segment Name	The TR3-assigned segment name.
Segment ID	The TR3-assigned segment ID.
Loop ID	The loop in which the segment appears.
Usage	The Usage value identifies the segment as required or conditional.
Max Use	Maximum iterations of allowed segment in the transaction.
Segment Notes	A brief description of the purpose or use of the segment including esMD-specific usage.
Example	An example of complete segment.
Reference Designator	This identifies the segment ID and element number.
Usage	This identifies the data element as M, C, O, or N/U.
Element Name	The TR3 assigned alias, implementation name, or name associated with the data element.
Valid Values	This column lists the values and/or code sets accepted by esMD. If any column contains the value "Refer to TR3," it indicates that there are no fixed acceptable values for that element. HIHs can submit values per theTR3 guidelines. If any column contains the value "Per esMD requirement," it indicates an esMD-specific requirement for the X12N 275 transaction.
esMD Requirement or Element Description	Description of the contents of the data elements and/or esMD-specific requirement notes.

Table 12: ST-Transaction Set Header

Segment Name	Transaction Set Header
Segment ID	ST
Loop ID	Not assigned
Usage	Mandatory
Max Use	1

Segment Name	Transaction Set Header
Segment Notes	This is the Transaction Set Header segment of an X12 document. The ST segment indicates the start of a transaction set in an interchange. esMD Implementation Note: 1. Each submission must contain only one transaction set. 2. The value provided in ST03 match with the value from GS08.
Example	ST*275*0001*006020X314~

Table 13: ST Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
ST01	M	Transaction Set Identifier Code	Per esMD requirement	ST01 must = 275
ST02	M	Transaction Set Control Number	Per esMD requirement	BGN02 (Payload ID) must be unique
ST03	M	Implementation Convention Reference	Refer to TR3	ST03 must = 006020X314, this filed must contain the same value as provided in GS08.

Table 14: BGN-Beginning Segment

Segment Name	Beginning Segment
Segment ID	BGN
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	This segment marks the beginning of the transaction and has identifying information. esMD Implementation Notes: 1. The Transaction Set Purpose Code must be 02. 2. The Payload ID must be unique.
Example	BGN*02*3920394930203*20180514~

Table 15: BGN Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
BGN01	M	Transaction Set Purpose Code	02 – Add When submitting and unsolicited attachment	BGN01 must = 02
BGN02	M	Transaction Set Reference Number	Unique Payload ID	BGN02 (Payload ID) must be unique
BGN03	M	Transaction Set Creation Date	Date in CCYYMMDD	BGN03 is the transaction set date and must be set in CCYYMMDD format.

Table 16: 1000A/NM1-Payer Name

Segment Name	Individual or Organizational Name
Segment ID	NM1
Loop ID	1000A
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the full name of the individual or organizational entity. esMD Implementation Notes: 1. The Entity Identifier Code must be PR. 2. The Identification Code Qualifier must be PI. 3. If either NM108 or NM109 is present, the other is required.
Example	NM1*PR*2*CARROL*****PI*9012345918341~

Table 17: 1000A-NM1 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	PR	1000A.NM101 must = PR (Information Source)
NM102	M	Entity Type Qualifier	2	1000A.NM102 must = 2 (Non-Person Entity)
NM103	M	Individual Last Name or Organization Name	Refer to TR3	Individual Last Name or Organizational Name
NM104	O	First Name	Refer to TR3	Payers First Name
NM105	O	Middle Name	Refer to TR3	Payers Middle Name or initial
NM108	M	Identification Code Qualifier	Per esMD requirement	1000A.NM108 must = PI (Centers for Medicare and Medicaid Services National Provider Identifier)
NM109	M	Identification Code	Refer to TR3	Code identifying Payer identification

Table 18: 1000B/NM1– Submitter Information

Segment Name	Submitter Information
Segment ID	NM1
Loop ID	1000B
Usage	Mandatory
Max Use	1

Segment Name	Submitter Information
Segment Notes	This segment provides identifying information about the Submitter.
	esMD Implementation Notes:
	1. The Entity Identifier Code must be 41.
	2. The Entity Type Qualifier must be 1 or 2.
	3. The Identification Code Qualifier must be 46.
	4. The Identification Code must have the Workload ID.
	5. If either NM108 or NM109 is present, the other is required.
Example	NM1*41*1*SMITH*JENNIFER*T***46*111222333~

Table 19: 1000B-NM1 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	Submitter Code - 41	1000B.NM101 must = 41
NM102	M	Entity Type Qualifier	Person – 1 Non-Person Entity - 2	1000B.NM102 must =1 or 2
NM103	M	Information Receiver Last Name or Organization Name	Last Name	Submitter Last Name or Organizational Name
NM108	M	Identification Code Qualifier	ETIN – Electronic Transmitter Identification Number - 46	1000B.NM108 must =46
NM109	M	Identification Code	Submitter Identifier	The Identification Code of the Submitter

Table 20: 1000C/NM1–Provider Name Information Segment

Segment Name	Provider Name Information
Segment ID	NM1
Loop ID	1000C
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the information of the Provider Name .
	esMD Implementation Notes:
	1. The Entity Identifier must be IP.
	2. The Identification Code Qualifier must be XX.
	3. If either NM108 or NM109 is present, the other is required.
Example	NM1*1P*2*JOHN*MUFFY*M**M.D.*XX*1234567893~

Table 21: 1000C–NM1 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	Provider - IP	1000C.NM101 must = IP
NM102	M	Entity Type Qualifier	Person – 1 Non-Person Entity - 2	1000C.NM102 must = 1 or 2
NM103	M	Provider Last Name	Last Name	Patient's Last Name
NM104	C	Provider First Name	First Name	Patient's First Name
NM105	C	Provider Middle Name or Initial	Middle Name	Patient's Middle name/Initial
NM107	C	Provider Name Suffix	Suffix	Patient's Suffix to Individual Name
NM108	C	Identification Code Qualifier	XX	1000C.NM108 must = XX
NM109	C	Identification Code	NPI	The National Provider Identification Code of the Provider

Table 22: 1100C/NX1-Provider Identification Segment

Segment Name	Provider Identification
Segment ID	NX1
Loop ID	1100C
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides identifying information about the Provider. esMD Implementation Notes: The Entity Identifier must be 'IP for Provider'.
Example	NX1*1P~

Table 23: 1100C–NX1 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	Per esMD requirement	1100C.NM101 must = 1P

Table 24: 1100C/N3-Provider Address

Segment Name	Requester Address
Segment ID	N3
Loop ID	1100C
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the Provider's Address Information.
Example	N3*PO BOX 123*157 WEST 57TH STREET~

Table 25: 1100C-N3 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N301	M	Provider Address Information	Valid U.S. Address	1100C.N301: Provider's first line of address.
N302	C	Provider Address Information	Valid U.S. Address	1100C.N302: Provider's second address line, if available.

Table 26: 1100C/N4-Provider City, State, Zip Code

Segment Name	Requester City, State, Zip Code
Segment ID	N4
Loop ID	1100C
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. A valid city name must be submitted for the Requester. 2. A valid state code must be submitted for the Requester. 3. A valid U.S. Zip Code must be submitted for the Requester's City and State Code. If the Zip+4 is known, submit it without including the hyphen in the element value. 4. If the Requester is the Service Provider, the Patient must receive services in one of the states covered by the Prior Authorization (PA)/Pre-Claim Review (PCR) Program or the ambulance must be garaged in a state covered by the Ambulance PA Program.
Example	N4*CINCINNATI*OH*43017~

Table 27: 1100C-N4 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N401	M	Requester City Name	Valid U.S. City	2010B.N401 must = a valid U.S. city name.
N402	M	Requester State Code	Valid U.S. State	2010B.N402 must = a valid U.S. state code
N403	M	Requester postal Zip Code	Valid U.S. Zip Code	2010B.N403 must = the valid U.S. zip code for the Requester City and State. If the Zip+4 value is known, submit the full zip code without a hyphen in the value; otherwise, submit the 5-digit zip code.

Table 28: 1000D/NM1-Patient Name Segment

Segment Name	Provider Name Information
Segment ID	NM1
Loop ID	1000D

Segment Name	Provider Name Information
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides identifying information about the Patient (Subscriber/Beneficiary). esMD Implementation Notes: 1. The Entity Identifier must be QC. 2. The Identification Code Qualifier must be MI.
Example	NM1*QC*1*CARROL*JENNIFER*T**PH.D*MI*9012345918341~

Table 29: 1000D–NM1 Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	Patient Identifier - QC	1000C.NM101 must = QC
NM102	M	Entity Type Qualifier	Person - 1	1000C.NM102 must = 1
NM103	M	Patient Last Name	Valid Last Name	Patient's Last Name
NM104	C	Patient First Name	Valid First Name	Patient's First Name
NM105	C	Patient Middle Name or Initial	Valid Middle Name	Patient's Middle name/Initial
NM107	C	Patient Name Suffix	Valid Suffix	Patient's Suffix to Individual Name
NM108	M	Identification Code Qualifier	MI	1000C.NM108 must = MI
NM109	M	Identifier Coder	Patient Primary Identifier	The Patient's Primary Identifier Code

Table 30: 1000D–Provider's Assigned Claim Identifier

Segment Name	Reference Information
Segment ID	REF
Loop ID	1000D
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the Providers assigned Claim Identification. esMD Implementation Note: 1. The REF02/Reference Identification must be the standard format of Claim ID. Claim ID Standard Format: a. 8 numeric characters (shall not be all zeroes); b. 13–15 numeric characters (shall not be all zeroes); or c. 17–23 alphanumeric characters, hyphens, spaces, and underscores (shall not be all spaces or zeroes and shall not be all a single special character). 2. The 1000D/REF segment must be present if missing the system will throw a 999 error.
Example	REF*X1*3920394930203~

Table 31: REF Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
REF01	M	Reference Identification Qualifier	Provider Claim Number Identifier - X1	1000D.REF01 must = X1
REF02	M	Patient Event Tracking Number	Claim ID	The Standard format of Claim ID and must be in the following format: 1. 8 numeric characters (shall not be all zeroes); 2. 13–15 numeric characters (shall not be all zeroes); or 3. 17–23 alphanumeric characters, hyphens, spaces, and underscores (shall not be all spaces or zeroes and shall not be all a single special character).

Table 32: 2000A–Assigned Number

Segment Name	Transaction Set Line Number
Segment ID	LX
Loop ID	2000A
Usage	Mandatory
Max Use	1
Segment Notes	This segment refers to the line number in a transaction set. The 275 transaction allows the submitters to send only one claim in each 275 transaction.
Example	LX*293212~

Table 33: 2000A–Provider Attachment Control Trace Number

Segment Name	Trace
Segment ID	TRN
Loop ID	2000A
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the Provider ACN per X12N 275 Request, which will be submitted in the TRN segment for each LX loop required to submit the full set of documentation. esMD Implementation Note: 1) Multiple 2000A loops (Assigned Number) can be submitted if the same ACN is supplied in the TRN02 element in all loops. 2) The Attachment Control Number accepted must min 2 and max 80 AN char in length.
Example	TRN*1*ACN500~

Table 34: TRN Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
TRN01	M	Trace Type Code	Current Transaction Trace Number	2000A.TRN01 must = 1
TRN02	M	Attachment Control Number	Attachment Control Number	The TRN02 must = ACN (Provider Attachment Control Number) Note: As per esMD the Attachment Control Number must be 2-80 AN in length.

Table 35: Additional Information Submitted Date

Segment Name	Date or Time or Period
Segment ID	DTP
Loop ID	2100B
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the date the supporting documentation is being submitted.
Example	DTP*368*D8*20180514~

Table 36: 2100B-DTP Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
DTP01	M	Date/Time Qualifier	Must be 368	2100B.DTP01 must = 368. The code specifies the type of date or time or both
DTP02	M	Date Time Period Format qualifier	Must be D8	2100B.DTP02 must = D8. The code identifies the format of date or time or both
DTP03	M	Date Time Period	Date in CCYYMMDD	The expression of date or time or ranges of dates and times

Table 37: CAT–Format and Version Identifier

Segment Name	Category of Patient Information Service
Segment ID	CAT
Loop ID	2100B
Usage	Mandatory
Max Use	1
Segment Notes	This segment provides the format of the additional documentation being submitted. For example, HL denotes the Health Industry Level 7 Interface Standards (HL7). esMD Implementation Note: CAT02 must be HL or MB.
Example	CAT*AE*HL~

Table 38: 2100B-CAT Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
CAT01	M	Attachment Report Type Code	For Attachment - AE	2100A.CAT01 must = AE
CAT02	M	Attachment Information Format Code	Per esMD requirement it is HLor MB accepted	2100A.CAT02 must = HL (HL7 Interface Standards) or MB (Binary Image)

Table 39: OOI–Associated Object Type Identification

Segment Name	Associated Object Type Identification
Segment ID	OOI
Loop ID	2110B
Usage	Mandatory
Max Use	1
Segment Notes	This segment identifies attributes and status related to the TR3
Example	OOI*1*47*ATTACHMENT~

Table 40: 2110B–OOI Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
OOI01	M	Object Identification Group	Refer to TR3	2110B/OOI01 must = 1
OOI02	M	Object Type Qualifier	Refer to TR3	2110B/OOI02 must = 47
OOI03	M	Object Attribute Identification	Refer to TR3	2110B/OOI03 must = ATTACHMENT

Table 41: 2110B–Binary Data Segment

Segment Name	Binary Data Structure
Segment ID	BDS
Loop ID	2110B
Usage	Mandatory
Max Use	1
Segment Notes	This segment is used to send a clinical attachment in a B64 format. esMD Implementation Note: Multiple BDS segments must not exceed a total of 200 MB. Note: esMD allows a maximum of 200 Megabytes (MB) for documents in one batch submission, but all documents larger than 64 MB must be reformatted into smaller fully formatted documents of not more than 64 MB wrapped with Health Level Seven International (HL7) clinical Extensible Markup Language (XML). The length of the binary data in each Binary Data Segment (BDS) must not exceed 64 MB, and the binary data must be well formed HL7 clinical XML documents.

Segment Name	Binary Data Structure
Example	BDS*B64*53*THIS IS CLINICAL DOCUMENT PLACE HOLDER IN BINARY FORM~

Table 42: 2110B–BDS Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
BDS01	M	Filter ID Code	Per esMD requirement only Base 64 = B64	2110A.BDS01 must = B64
BDS02	M	Length of Binary Data	Refer to TR3	The count is equal to the byte count of the contents in the BDS03.
BDS03	M	Binary Data	Refer to TR3	A string of octets that can assume any binary pattern from hexadecimal 00 to FF. **Note:** The segment terminator used for the transaction must not be a character that occurs within the document being sent.

Table 43: SE–275 Transaction Set Trailer

Segment Name	Transaction Set Trailer
Segment ID	SE
Loop ID	Not Assigned
Usage	Mandatory
Max Use	1
Segment Notes	The SE segment is the transaction set trailer segment of an X12 transaction set. The SE segment indicates the end of a transaction set. The SE segment data elements provide information about the number of segments in a transaction set and the control number for that particular transaction set.
Example	SE*17*0001~

6.   Example of an X12N 275 Transaction

Figure 3: esMD Sample X12N 275 (Claim Encounter) EDI Request through Figure 5: 999 Transaction (Rejected) provide X12 example files for illustration purposes.

No real data is included in either of the figures or the example file. Each loop, segment, and element would flow continuously within a single stream of data.

Note: When a 275 transaction is sent with a 6020 Version, the system will send a 999 Response with a 5010 version in the 999 Acknowledgement transaction.

Figure 3: esMD Sample X12N 275 (Claim Encounter) EDI Request

```
ISA*00*          *00*          *ZZ*TESTHIH        *ZZ*111222333
*170320*1110*^^00602*000001100*0*T*:~
GS*PI*TESTHIH*111222333*20170320*1528*1*X*006020X314~
ST*275*0001*006020X314~
BGN*02*112220221*20180514~
NM1*PR*2*CARROL*****XV*1234~
NM1*41*1*SMITH*JENNIFER*T***46*1112229993~
NM1*1P*2*JOHN*MUFFY*M**M.D.*XX*1234567893~
NX1*1P~
N3*PO BOX 123*157 WEST 57TH STREET~
N4*CINCINNATI*OH*43017~
NM1*QC*1*CARROL*JENNIFER*T**PH.D*MI*9012345918341~
REF*X1*3920394930203~
LX*1~
TRN*1*SURA1234451~
DTP*368*D8*20180514~
CAT*AE*HL~
OOI*1*47*ATTACHMENT~
BDS*B64*16*THIS IS CLINICAL DOCUMENT PLACE HOLDER IN BINARY FORM~
SE*17*0001~
GE*1*1~
IEA*1*000001100~
```

Figure 4: 999 Transaction (Accepted)

```
ISA*00*          *00*          *ZZ*1112229993     *ZZ*Test HIH
*230405*1209*+*00602*000000005*0*T*:~
GS*FA*1112229993*Test HIH*20230405*1209*1*X*005010~
ST*999*0001*006020X314~
AK1*PI*1*006020X314~
AK2*275*0001*006020X314~
IK5*A~
AK9*A*1*1*1~
SE*6*0001~
GE*1*1~
IEA*1*000000005~
```

Figure 5: 999 Transaction (Rejected)

```
ISA*00*          *00*          *ZZ*111222333     *ZZ*TESTHIH
*230417*1600*+*00602*000000068*0*T*:~
GS*FA*111222333*TESTHIH*20230417*1600*1*X*005010~
ST*999*0001*005010~
AK1*PI*1*006020X314~
AK2*275*0001~
IK3*NM1*3**8~
IK4*8*66*7*PK~
IK5*R*5~
AK9*R*1*1*0~
SE*8*0001~
GE*1*1~
IEA*1*000000068~
```

7.   Error Codes and Error Messages

Table 44: Functional Group Response Trailer through Table 49: Inbound X12N 275 (Claim or Encounter) 999 Error Codes and Error Descriptions provide the possible error codes and error descriptions received on the Inbound X12N 275 validations.

Note 1:

    a. **TA1 Interchange Acknowledgement Transaction:** All X12 file submissions are pre-screened upon receipt to determine if the interchange control header (ISA) or interchange control trailer (IEA) segments are readable. If errors are found, a TA1 response transaction is sent to notify the trading partner that the file could not be processed. After the file is read, validation is performed on the ISA and IEA loop information. If these segments have a non-standard structure, the file receives a full file reject and the TA1 response transaction is sent to the trading partner.

    b. **999 Functional Acknowledgement Transaction:** After performing the preceding ISA/IEA screening, the system starts verifying for the compliance errors. When the compliance check is complete, a 999 is sent to the trading partner to inform them whether the transaction failed the compliance check.

Note 2: If unable to determine the source of the failure based on the error information in the 999 transaction, the HIH can contact the esMD Support Desk for assistance. The support technicians can provide the audit exception message description from the database.

Note 3: The HIH should check the *esMD HIH Implementation Guide* to understand any administrative errors that might be generated in response to an X12N 275 Claim or Encounter transaction when the Instream processing fails. Failures in the Instream processing do not provide information that allow the TA1 and 999 responses to be sent.

Note 4: The EDI Validations Success/Failure message is unique and combines the error messages for all of the errors. As such, an example of the precise error message cannot be provided.

Table 44: Functional Group Response Trailer

Segment Name	Implementation Data Element Note
Segment ID	AK9
Loop	N/A
Usage	Required
Segment Notes	This segment acknowledges the acceptance or rejection of a functional group and reports the number of transaction sets originally included, received, and accepted.
Example	AK9*R*1*1*0~

Table 45: Implementation Data Element Note

Segment Name	Implementation Data Element Note
Segment ID	Implementation Data Element Note
Loop	AK2/IK3/IK4
Usage	Situational
Segment Notes	This segment reports data element and composite errors in the submitted transaction.
Example	IK4*9**67*1~

Table 46: Transaction Set Response Trailer

Segment Name	Transaction Set Response Trailer
Segment ID	IK5
Loop	2000 - AK2
Usage	Required
Segment Notes	This segment acknowledges the acceptance or rejection of a transaction and reports errors.
Example	IK5*R*

Table 47: X12N 275 Element 999 Error Descriptions

Element ID	Usage	Guide Description/Valid Values	Comments
IK304	R	Segment Syntax Error Code: 1: Unrecognized segment ID 2: Unexpected segment 3: Required segment missing 4: Loop occurs over maximum times 5: Segment exceeds maximum use 6: Segment not in defined transaction set 7: Segment not in proper sequence 8: Segment has data element errors I4: Implementation "Not Used" segment present I6: Implementation dependent segment missing I7: Implementation loop occurs under minimum times I8: Implementation segment below minimum use I9: Implementation dependent "Not Used" segment present	Describes the type of error encountered.

Element ID	Usage	Guide Description/Valid Values	Comments
IK403	R	Implementation Data Element Syntax Error Code: 1: Required data element missing 2: Conditional required data element missing 3: Too many data elements 4: Data element too short 5: Data element too long 6: Invalid character in data element 7: Invalid code value 8: Invalid date 9: Invalid time 10: Exclusion condition violated 12: Too many repetitions 13: Too many components I6: Code value not used in Implementation I9: Implementation-dependent data element missing I10: Implementation "Not Used" data element present I11: Implementation too few repetitions I12: Implementation pattern match failure I13: Implementation-dependent "Not Used" data element present	Describes the type of error encountered
IK502	S	Transaction Set Syntax Error Code: 1: Transaction set not supported 2: Transaction set trailer missing 3: Transaction set control number in header and trailer do not match 4: Number of included segments does not match actual count 5: One or more segments in error 6: Missing or invalid transaction set identifier 7: Missing or invalid transaction set control number 18: Transaction set not in functional group 19: Invalid transaction set implementation convention reference I6: Implementation convention not supported	Code indicating implementation error found based on the syntax
AK905	S	Functional Group Syntax Error Code: 1: Functional group not supported 2: Functional group version not supported 3: Functional group trailer missing 4: Group control number in the functional group header and trailer do not agree 5: Number of included transaction sets does not match actual count 6: Group control number violates syntax 19: Functional group control number not unique with interchange	Code indicating error found based on the syntax editing of the functional group

Table 48: Inbound X12N 275 TA1 Error Codes and Error Descriptions

ID	Scenario	Error Code	TA1 Error Description
1	The Authorization Information Qualifier (ISA01) must be set to "00".	010	Invalid Authorization Information Qualifier value

ID	Scenario	Error Code	TA1 Error Description
2	The Author Information (ISA02) must be blank.	011	Invalid Authorization Information value
3	The Security Information Qualifier (ISA03) must be set to "00"	012	Invalid Security Information Qualifier value
4	The Security Information (ISA04) must be blank.	013	Invalid Security Information value
5	The Interchange ID Qualifier - Sender (ISA05) must be set to "ZZ"	007	Invalid Interchange ID Qualifier for Receiver
6	The Interchange ID Qualifier – Receiver (ISA07) must be set to "ZZ".	019	Invalid Acknowledgment Requested Value
7	The Acknowledgment Requested (ISA14) must be set to "0"	005	Invalid Interchange ID Qualifier for Sender

Table 49: Inbound X12N 275 (Claim or Encounter) 999 Error Codes and Error Descriptions

ID	Scenario	IK304 Error Codes	IK403 Error Codes	AK905 Error Codes
1	The Transaction Set Purpose Code (BGN01) must be set to "02"	8	7	N/A
2	The Identification Code Qualifier (1000A.NM108) must be set to "PI".	8	7	N/A
3	The Identification Code Qualifier (1000B.NM108) must be set to "46".	8	7	N/A
4	The Entity Identifier Code (1000C.NM101) must be set to "1P".	8	7	N/A
5	The Identification Code Qualifier (1000C.NM108) must be set to "XX".	8	7	N/A
6	The Identification Code Qualifier (1000D.NM108) must be set to "M1".	8	7	N/A
7	The Trace Type Code (2000A.TRN01) must be set to "1".	8	7	N/A
8	The Attachment Information Format Code (2100A.CAT02) must be either "HL" or "TX" or "MB".	8	7	N/A
9	The Filter ID Code (BDS01) must be set to "B64"	8	7	N/A
10	The Application Sender's Code matches the Interchange Sender ID (GS02 = ISA06)	N/A	N/A	N/A
11	The Application Receiver's Code matches the Interchange Receiver ID (GS03 = ISA08)	N/A	N/A	N/A
12	The Reference Identification Modifier (1000C.REF01) must be set to "X1".	8	7	N/A
13	The Version/Release/Industry Identifier Code (GS08) must be set to "006020X314".	N/A	N/A	2
14	The Payload ID must be unique (BGN02)	8	I12	N/A
15	The Length of the Binary Data (BDS02) must be greater than Zero	8	4	N/A
16	The ACN (2000A.TRN02)	8	I12	N/A
17	The Transaction Set Creation Time provided in (BGN04) must have the format set to "HHMMSS".	8	9	N/A

8. Contacts

Table 50: Support Points of Contact provides the contact list for esMD.

Table 50: Support Points of Contact

Contact	Phone	Email	Hours of Operation
esMD Helpdesk	1-844-CMS-esMD (1-844-267-3763)	esMD_Support@cms.hhs.gov esMDSD@unissant.com	Regular Business Hours: 8 a.m. to 8 p.m. Eastern Time (ET).

Appendix A: Acronyms

Table 51: Acronyms

Acronym	Literal Translation
ACN	Attachment Control Number
ASC	Accredited Standards Committee
BDS	Binary Data Segment
CAQH	Council for Affordable Quality Healthcare
CHIP	Children's Health Insurance Program
CMS	Centers for Medicare & Medicaid Services
CORE	Committee on Operating Rules for Information Exchange
EDI	Electronic Data Interchange
esMD	Electronic Submission of Medical Documentation
HIH	Health Information Handler
HL7	Health Level Seven International
ID	Identifier
MB	Megabytes
PA	Prior Authorization
PWK	Paperwork
RC	Review Contractor
TR3	ASC X12 Standard for Electronic Data Interchange Technical Report Type 3
URL	Universal Resource Locater
WPC	Washington Publishing Company
XML	Extensible Markup Language

Appendix B: Glossary

Table 52: Glossary

Glossary	Description
CONNECT	CONNECT implements a flexible, open-source gateway solution that enables healthcare entities—Federal agencies or private-sector health organizations or networks—to connect their existing health information systems to the eHealth Exchange. CONNECT is fully functional out-of-the-box, while at the same time configurable and flexible to allow organizations to customize it to meet their needs and those of their existing health information systems.
Electronic Submission of Medical Documentation	A mechanism for submitting medical documentation via a secure internet gateway connecting Providers to the Centers for Medicare & Medicaid Services.
TR3	ASC X12 Standard for Electronic Data Interchange Technical Report Type 3. The ASC X12 TR3s detail the full requirements for EDI transactions can be found or purchased from the publisher, Washington Publishing Company (WPC) at their website: http://store.x12.org/store/

Appendix C: Referenced Documents

Table 53: Referenced Documents

Document Name	Document Location and/or URL	Issuance Date
ASC X12N 275/006020X314 Standards for Electronic Data Interchange Technical Report Type 3 (TR3)	http://store.x12.org/store/	September 2014
CAQH CORE X12 Document Submission Service Interface Specification[1]	http://www.caqh.org/sites/default/files/core/phase-ii/policy-rules/270-v5010.pdf	03/18/2011
esMD Health Information Handler (HIH) Implementation Guide	https://www.cms.gov/research-statistics-data-and-systems/computer-data-and-systems/esmd/information_for_hihs	01/03/2023

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[1] The CAQH CORE X12 Document Submission Service Interface Specification document is no longer available at the URL documented in this guide. CAQH has removed this document. The location of the updated version will be added once it has been identified.

Appendix D: Record of Changes

Table 54: Record of Changes

Version Number	Date	Author/Owner	Description of Change
1.0	04/28/2023	Sridevi Muthili	Initial version for AR2023.07.0
2.0	02/29/2024	Sridevi Muthili / Rohini Kolan	Release AR2024.04.0 Version 2.0 contains the following changes: • Updated Table(s): 33 and 34 for changes made to address defect fixes that will be included in the April 2024 release.

Appendix E: Approvals

The undersigned acknowledge that they have reviewed the X12N 275 Companion Guide: Additional Information to Support Health Care Claim or Encounter AR2024.04.0 and agree with the information presented within this document. Changes to this Guide will be coordinated with, and approved by, the undersigned, or their designated representatives.

Signature:		Date:	
Print Name:	Brenda Barksdale		
Title:	Contracting Officer's Representative		
Role:	CMS Approving Authority		