



**Centers for Medicare & Medicaid Services**

# **Electronic Submission of Medical Documentation (esMD)**

## **X12N 278 Companion Guide AR2026.04.0**

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# 1. Introduction

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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 companion guide is to provide standardized data requirements and content for all trading partners participating in real-time Electronic Submission of Medical Documentation (esMD) Prior Authorization (PA) and Pre-Claim Review (PCR) programs and Durable Medical Equipment, Prosthetics, Orthotics, and Supplies (DMEPOS). The document also provides the information necessary for esMD trading partners to submit an electronic request for review and receive an electronic response from the esMD system. It is intended that this companion guide will be used in conjunction with the document *Accredited Standards Committee (ASC) X12N/005010X217 (278) Health Care Services Review — Request for Review and Response (278) Technical Report Type 3 (TR3)*. This companion guide supplements but does not modify or replace any guidelines or rules established by the ASC X12N/005010X217 (278) TR3.

## 1.2 Overview

This companion guide has been written to assist trading partners or Health Information Handlers (HIH) in implementing the ASC X12N/005010X217 version of X12N 278 PA/PCR Requests to meet esMD processing standards. It provides detailed explanations of the transaction set by defining data content, identifying valid code values as per the esMD PA/PCR programs offered by CMS, and specifying values that are applicable for Electronic Data Interchange (EDI) X12N 278 PA/PCR review requests and responses in X12N 278 EDI formats. The guidance is to support esMD trading partners, such as HIHs, to effectively submit X12N 278 Requests and receive X12N 278 Responses.

esMD implemented the Sequoia Project (formerly known as HealthWay and the Nationwide Health Information Network (NwHIN)) and Phase II Council for Affordable Quality Healthcare (CAQH) Committee on Operating Rules for Information Exchange (CORE) Rule 270: Connectivity Rule Version 2.2.0 to exchange ASC X12 administrative specification with HIHs via the internet. CONNECT support for CAQH profiles has been implemented as part of CONNECT v4.4 or higher. The *CAQH CORE X12 Document Submission Service Interface Specification* defines specific constraints on the use of the CAQH CORE Connectivity Rule. Additional details about CAQH CORE rule interface implementation can be found on the following website: <http://www.caqh.org/core>.

## 1.3 Assumption

This document was created with the assumption that the reader is familiar with and has available the *ASC X12N 278/005010X217 Standards for Electronic Data Interchange Technical Report Type 3 (TR3)*. The information presented in this companion guide is written from the

perspective of the esMD system. Refer to the ASC X12N 278/005010X217 TR3 for information that is not esMD specific.

Note: As part of the AR2024.04.0 Release, a new CAQH REST API approach is implemented and esMD now accepts 278 Requests and Supporting Documentation using both SOAP and REST API approaches. The points below must be considered when sending the supporting documentation:

- For requests that are sent using SOAP, esMD accepts supporting documentation in X12 275 and XDR CTC 13 format.
- For requests that are sent using the CAQH REST API, esMD does not accept supporting documentation sent in XDR CTC 13 format and will consider only the X12 275 supporting documentation.

## 2. Interchange Control Structure Specification – X12N 278 Request

This X12N 278 interchange control and transaction set contains the format and establishes the data contents of the Health Care Services Review Information Transaction Set (X12N 278) for use within the context of an EDI environment adhering to the integrity of the ASC *X12N/005010X217 (278) TR3 Implementation Guide*. The transaction set transmits health care service information, such as requester, subscriber, demographic, diagnosis, and proposed treatment data, for the purposes of requests for review and reporting the outcome of health care services reviews.

Table 1: Interchange Control Header through Table 6: Interchange Control Trailer define the use of this control structure as it relates to communication with esMD for the X12N 278 Request and Response transaction.

**Table 1: Interchange Control Header**

Segment Name	Interchange Control Header		
Segment ID	ISA		
Loop ID	Not assigned		
Usage	Mandatory		
Max Use	1		
Segment Notes	<ol style="list-style-type: none"> <li>All positions within each data element in the ISA segment must be filled.</li> <li>Delimiters are specified in the interchange header segment.</li> <li>The character immediately following the segment Identifier (ID), <i>ISA</i>, defines the data elements separator. 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.</li> <li>While it is not required that submitters use these specific delimiters, these are the ones that esMD uses for all outbound response transactions.</li> </ol> <p>Note: As per esMD Implementation for 278 Request, ISA14 must be set to 0.</p>		
	*	Asterisk	Data Element Separator
	+	Plus	Repetition Separator
	:	Colon	Component Element Separator
	~	Tilde	Segment Terminator
Example	ISA*00* *00* *ZZ*DBRRC *ZZ*TESTHIH *190318*1026**A*00501*000000020*0*P*+~		

**Table 2: 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	Insert 10 blanks	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	Insert 10 blanks	Always blank. Insert 10 blank spaces.

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
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 Review Contractor's (RC) esMD registered EDI ID in ISA08; left justified with trailing spaces to fill the 15 characters
ISA09	M	Interchange Date	Interchange Date	Interchange Date format is YYMMDD
ISA10	M	Interchange Time	Interchange Time	Interchange Time is HHMM
ISA13	M	Interchange Control Number	Interchange Control Number	Interchange Control Number ISA13 must be identical to IEA02
ISA14	M	Acknowledgment Requested	0	Enter 0 in ISA14 to prevent receipt of unnecessary TA1 success messages for every submission accepted by esMD.

**Table 3: Functional Group Header**

Segment Name	Functional Group Header
Segment ID	GS
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	Indicates the beginning of a functional group and to provide control information
Example	GS*HI*DBRRC*TESTHIH*20190318*102655*187597*X*005010X217~

**Table 4: GS Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
GS01	M	Functional Identifier Code	HI	GS01 must = HI
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.
GS04	M	Date	Date	GS04 must = Date the functional group creation date
GS05	M	Time	Creation Time	GS05 must = creation time. Format is HHMM
GS06	M	Group Control Number	Group Control Number	GS06 and GE02 must be identical.
GS07	M	Responsible Agency Code	X	GS07 must = X
GS08	M	Version	005010X217	GS08 must = 005010X217

**Table 5: Functional Group Trailer**

<b>Segment Name</b>	Functional Group Trailer
<b>Segment ID</b>	GE
<b>Loop ID</b>	Not assigned
<b>Usage</b>	Mandatory
<b>Max Use</b>	1
<b>Segment Notes</b>	Indicates the end of a functional group and to provide control information
<b>Example</b>	GE*1*1523~

**Table 6: Interchange Control Trailer**

<b>Segment Name</b>	Interchange Control Trailer
<b>Segment ID</b>	IEA
<b>Loop ID</b>	Not assigned
<b>Usage</b>	Mandatory
<b>Max Use</b>	1
<b>Segment Notes</b>	Defines the end of an interchange control segment
<b>Example</b>	IEA*1*000001523~

## 2.1 Sample Request Interchange Control

Figure 1: Sample EDI X12N 278 Envelope Request Transaction provides a sample X12N 278 PA/PCR EDI request transaction meant to demonstrate the sample or mock high-level hierarchical structure of an acceptable X12N 278 PA/PCR EDI request. Each loop, segment, and element would flow continuously within a single stream of data.

**Figure 1: Sample EDI X12N 278 Envelope Request Transaction**

```

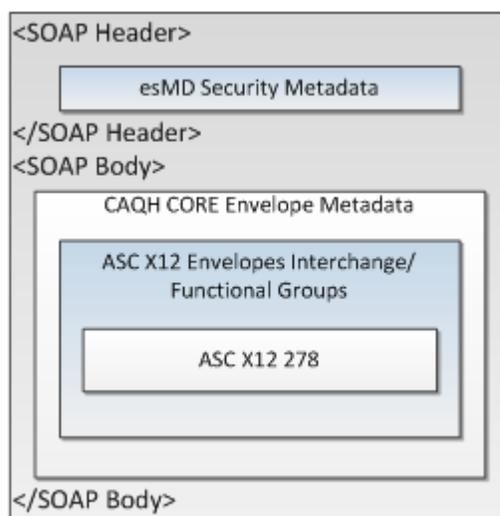
ISA*00*          *00*          *ZZ*9012345720000  *ZZ*9088877320000
*161026*0817*+*00501*000001525*0*T*:~
GS*HI*9012345720000*9088877320000*20180125*1700*1525*X*005010X217~
ST*278*1525*005010X217~
. . .
. . .
. . .
SE*10*1525~
GE*1*1525~
IEA*1*000001525~
    
```

### 3. The esMD System CAQH Profile

#### 3.1 Request Layout

esMD implemented the Sequoia Project (formerly known as Healthway) Phase II CAQH CORE Rule 270: Connectivity Rule Version v2.2.0 to exchange ASC X12 Administrative Transactions with HIHs via the Internet. CONNECT support for CAQH Profile has been implemented as part of the CONNECT release 4.4. The CAQH CORE X12 Document Submission Service Interface Specification defines specific constraints on the use of the CAQH CORE Connectivity Rule. Figure 2: ASC X12N 278 5010 over CONNECT (CAQH CORE 270) presents the components of a request or response message using 278 and CONNECT with the Nationwide Health Information Network (NHIN) CAQH CORE X12 Document Submission Service Interface Specification.

Figure 2: ASC X12N 278 5010 over CONNECT (CAQH CORE 270)



#### 3.2 CAQH CORE Real-Time Mode (Synchronous) and CAQH CORE Generic Batch Mode (Deferred) Messaging

HIHs planning to submit X12N 278 5010 requests to the esMD system must implement the Phase II CAQH CORE Rule 270 Connectivity Rule, Version 2.2.0. The connectivity rule allows for the following modes of messaging:

1. Real-time mode (i.e., Synchronous).
2. Batch mode (i.e., Deferred).

The HIH shall use the real time mode, i.e., synchronous messaging, for sending an X12N 278 5010 request to the esMD system. In the real-time mode, the HIH that sent the X12N 278 5010 request shall receive a response for that request within 20 seconds. This response is considered to be the equivalent of the first notification used in the Cross-Enterprise Document Reliable Interchange (XDR) profile.

The esMD system shall send the second notification, i.e., the pickup status/error notification and the third notification, i.e., the PA Review Response, using the Batch mode (i.e., for deferred messaging).

The difference between the real-time and batch modes, other than the response times, is that the Message Transmission Optimization Mechanism (MTOM) is used for sending an attachment in the batch mode.

### 3.3 HIH to the esMD - CAQH PA Request (Real Time)

1. HIH submits to the esMD a X12N 278 5010 real-time authorization request in CAQH envelope (see Figure 3: X12 PA Request in CAQH Real Mode and Figure 4: esMD Sample CAQH Real-Time X12N 278 Request). After esMD identifies the request as an X12N 278 5010, esMD has a fixed amount of time to process the request (20 seconds for real time); otherwise, the request times out. If the request times out, the HIH will receive a timeout error and must resubmit the request.

Figure 3: X12 PA Request in CAQH Real Mode

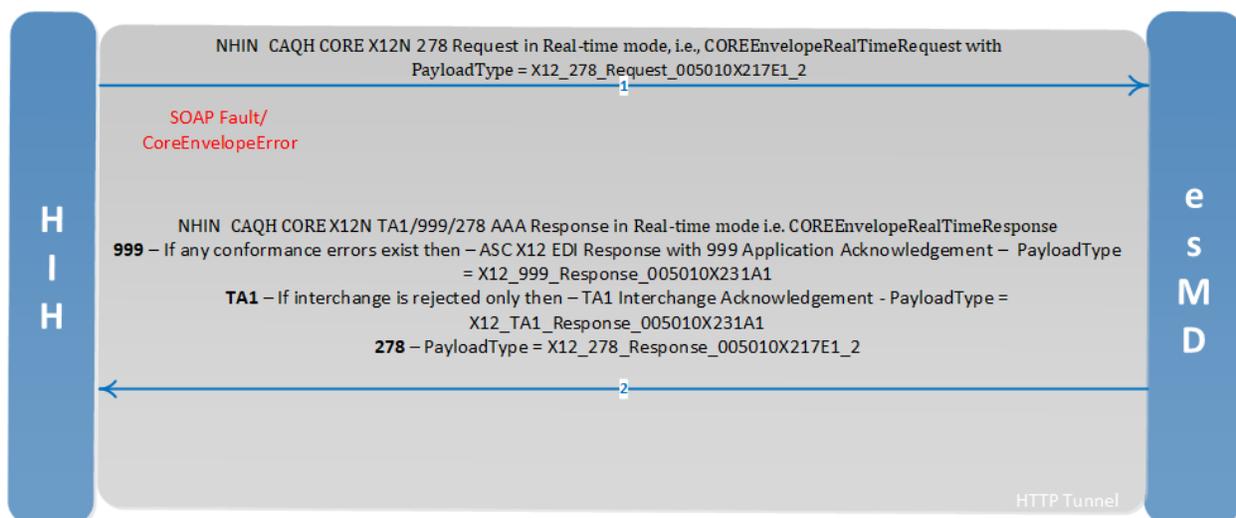


Figure 4: esMD Sample CAQH Real-Time X12N 278 Request

```
<?xml version="1.0" encoding="UTF-8"?>
<n1:COREEnvelopeRealTimeRequest
xsi:schemaLocation="http://www.caqh.org/SOAP/WSDL/CORERule2.2.0.xsd CORERule2.2.0.xsd"
xmlns:n1="http://www.caqh.org/SOAP/WSDL/CORERule2.2.0.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <PayloadType>X12_278_Request_005010X217E1_2</PayloadType>
  <ProcessingMode>RealTime</ProcessingMode>
  <PayloadID>AA569852P_1234567838</PayloadID>
  <TimeStamp>2019-03-18T15:46:37.893-04:00</TimeStamp>
  <SenderID>urn:oid:123.456.657.126</SenderID>
  <ReceiverID>urn:oid:2.16.840.1.113883.13.34.110.1.999.50</ReceiverID>
  <CORERuleVersion>v2.2.0</CORERuleVersion>
  <Payload>
ISA*00*                *00*                *ZZ*TESTHIH          *ZZ*DBRRC
*190109*1534**+*00501*000165455*0*P*:!
GS*HI*TESTHIH*DBRRC*20190109*153413*165455*X*005010X217!
```

```

ST*278*1235*005010X217!
BHT*0007*13*3920394930203*20150724*0817!
HL*1**20*1!
NM1*X3*2*REVIEW ORG NAME*****PI*50505!
HL*2*1*21*1!
NM1*1P*1*REQUESTERLASTNAME*REQUESTERFIRSTNAME***PH.D*XX*111111112!
N3*REQUESTER STREET LOOP 2010B!
N4*WINDSORMILL*MD*21244!
PER*IC*DR.AMBULANCECONTACT*FX*8189991235*TE*4035556789*EX*6788!
HL*3*2*22*1!
NM1*IL*1*AMBLSUBSCRIBERLASTNAME*AMBLSUBSCRIBERFIRSTNAME*T*MR*M.D.*MI*215123556A!
N3*AMBBENEFICIARY LOOP2010C ADDR LINE 1*SUB ADDR2!
N4*WINDSORMILL*MD*21244!
DMG*D8*19511204*M!
HL*4*3*EV*1!
TRN*1*201507221235*1311235567*NEUROLOGY!
UM*HS*I*1*13:B*AA:EM:AP:ON:CA*U*3*4*Y*1!
DTP*439*D8*20150722!
DTP*ABC*D8*19511204!
DTP*AAH*RD8*20150901-20151030!
HI*BK:78609*BF:85135*BF:8488*BF:8471*BF:8472*BF:84510*BF:8461*BF:8502*BF:8500*BF:85106
*BF:8489*BF:8431!
HSD*FL*80!
PWK*77*FX***AC*LANCEATYACHCTLNJSWL1ND0523!
NM1*FA*2*FACILITY ORG NAME*****XX*1234567893!
N3*AMBSTREET SERVICE PROVIDER 2010EA!
N4*WINDSORMILL*MD*21244!
NM1*DK*1*AMBORDERINGPHYLASTNAME*AMBORDERINGPHYFNAME***XX*1234567893!
N3*AMBSTREET ORDERING PHYSICIAN 2010EA!
N4*WINDSORMILL*MD*21244!
NM1*72*1*OPERATINGPHYLASTNME*OPERATINGPHYFNAME***XX*1234567893!
N3*OPRTSTREET OPERATING PHYSICIAN 2010EA!
N4*WINDSORMILL*MD*21244!
HL*5*4*SS*0!
TRN*1*0001-201501150001COVERTEST-AMBLNCE*955555555*AMBLNCREQUEST!
DTP*472*RD8*20150930-20151030!
SV1*HC:G0277:22*10.50*UN*80!
PWK*77*FX***AC*LANCEATYACHCTLNJSWL1ND0523!
SE*38*1235!
GE*1*1235!
IEA*1*000001235!
</Payload>
</nl:COREEnvelopeRealTimeRequest>
    
```

1. If the esMD is unavailable, the HIH will receive an HTTP 500 error.
2. If there are any errors in the CAQH envelope, the HIH will receive a COREEnvelopeRealTimeResponse with PayloadType as CoreEnvelopError.
3. The esMD will process the CAQH request and retrieve the EDI payload. A response is created the same business day (within 20 seconds) that the file is submitted and returned to the HIH:
  - a. If data in the Interconnection Security Agreement (ISA) segment is not valid and the EDI payload could not be extracted, the esMD will send a COREEnvelopeRealTimeResponse with PayloadType as CoreEnvelopError and appropriate error message.
  - b. If the interchange is rejected, a TA1 Interchange Acknowledgement is generated and returned to the HIH.

- c. If the submitted X12N 278 5010 file fails format edits, a real-time acknowledgement is created and returned to the HIH:
- d. If there are any conformance errors, a 999 error response is generated, unless a TA1 rejection occurred. Transactions that pass the validation process but fail further in the processing (e.g., ineligible member) will generate a 278 real-time error indicating the nature of the error.

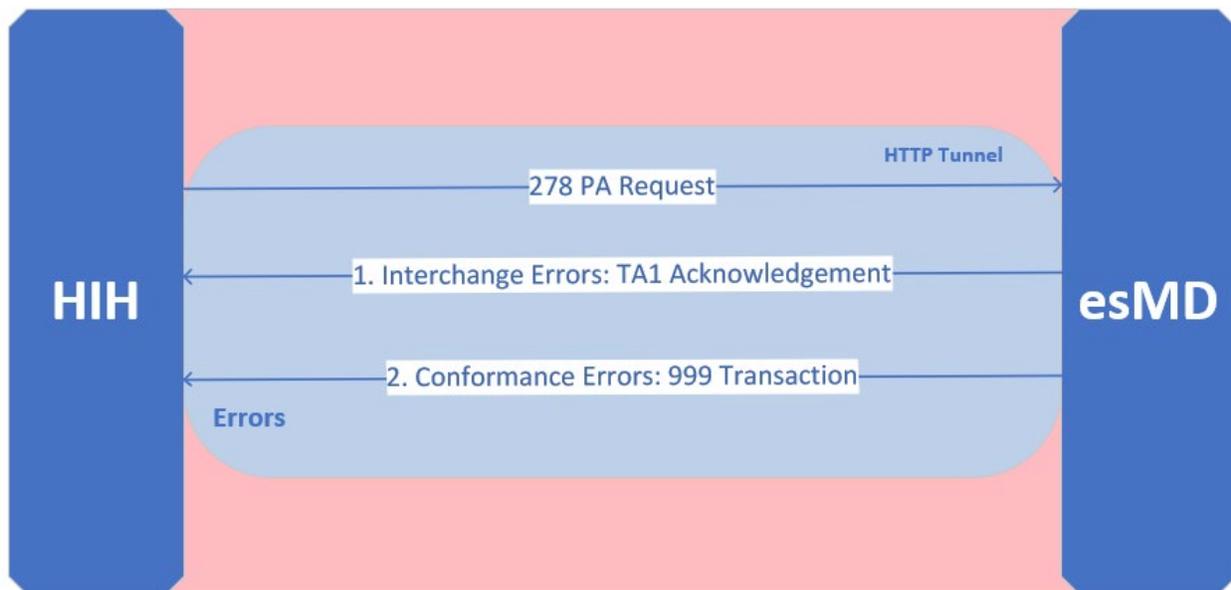
### 3.4 Traceability Between Requests and Responses

The X12 278 5010 provides several methods to trace documents between requesters and match them to responses to the original requests. Refer to Section 1.11.4 of the ASC X12N 278 5010 (005010X217) Implementation Guide (<http://store.x12.org/store/healthcare-5010-original-guides>) for additional information on the use of these methods to trace and match requests with responses. Traceability is important in both paper-based and electronic exchanges of documents. Matching responses to their original requests should be accommodated through the available X12 data segments, which should appear in metadata or paper cover sheets (e.g., fax transactions). There are three primary methods of providing traceability in the X12 278 5010:

1. The BHT03 element (Reference Identification, also known as the Submitter Transaction Identifier) must be returned in a response 278 (in the same BHT03 element). This data element provides traceability at the transaction level (as opposed to the event/service level).
2. The TRN segment appears in the 2000E loop (Patient Event), where it serves as the Patient Event Tracking Number, and in the 2000F loop (Service) as the Service Trace Number.
3. The PWK06 element (Identification Code, also known as the Attachment Control Number (ACN)) within the 2000E and 2000F loops is required when responding to requests for electronic data when using another ASC X12N standard (e.g., the ASC X12N 275 (006020X278) or Logical Observation Identifier Names and Codes (LOINC) codes as used in the HI segment of the 278). When using the ASC X12N 275 transaction set to support sending documentation in response to a 278, the required TRN02 element (Attachment Control Trace Number)—found in loop 2000A of the 275 Companion Guide—is populated with the PWK06 code found in the 278.
4. The supporting documentation submitted in XDR format shall include the same ACN as the original EDI X12N 278 5010 request in order for esMD to associate the request with its supporting documentation. As soon as the documentation is received, esMD locates the EDI X12N 278 5010 request in the esMD database using the ACN. After the matching request and documentation are found with the same ACN and National Provider Identifier (NPI) combination, the esMD packages the request and the documentation together and forwards the package to the RC. The supporting documentation can also be submitted in X12N 275 transactions.

### 3.5 X12N 278 5010 Acknowledgements

Figure 5: X12N 278 5010 Acknowledgements provides a summary of X12 transaction errors and acknowledgments for the 278.

**Figure 5: X12N 278 5010 Acknowledgements**

Because transactions in this guide are limited to exchange of the ASC X12N 278 5010, transaction-level error handling occurs, as defined by the relevant ASC X12 standards:

1. ASC X12 Interchange Envelope Conformance errors in the esMD ASC X12N 278 5010 transaction are communicated in an ASC X12 TA1 response. The possible TA1 error codes are located in the ASC X12 TA1 005010X231A1 Implementation Specification.
2. ASC X12 Standard Conformance & Implementation Guide Conformance errors in the esMD ASC X12N 278 5010 transaction are communicated in an ASC X12 999 response. The possible 999 error codes are located in the ASC X12 999 005010X231A1 Implementation Specification.

Refer to the companion guide that is available at <http://store.x12.org/store/healthcare-5010-original-guides> for more details. The relevant ASC X12 implementation guides for error and acknowledgment handling are also available at <http://store.x12.org/store/healthcare-5010-original-guides>.

### 3.6 The esMD X12N 278 5010 PA Request with XDR Additional Documentation

Figure 6: X12N 278 5010 PA Request with Additional XDR Documentation depicts the X12N 278 5010 workflow with additional XDR document submission(s) and the PA Review Responses coming from the RC to the HIH.

Figure 6: X12N 278 5010 PA Request with Additional XDR Documentation



100073

1. The HIH sends the X12N 278 5010 PA Request in CAQH format (i.e., COREEnvelopeRealTimeRequest with PayloadType=X12\_278\_Request\_005010X217E1\_2) to the esMD.
2. esMD processes the PA request.
3. esMD generates the appropriate response, as described in the Section 3.2 CAQH CORE Real-Time Mode (Synchronous) and CAQH CORE Generic Batch Mode (Deferred) Messaging.
4. HIHs planning to submit X12N 278 5010 requests to the esMD system must implement the Phase II CAQH CORE Rule 270 Connectivity Rule, Version 2.2.0. This connectivity rule allows for the following modes of messaging:

- a. Real-time mode (i.e., Synchronous).
  - b. Batch mode (i.e., Deferred).
    - i. The HIH shall use the real-time mode, i.e., synchronous messaging, for sending an X12N 278 5010 request to the esMD system. In the real-time mode, the HIH that sent the X12N 278 5010 request shall receive a response for that request within 20 seconds. The response is considered to be the equivalent of the first notification used in the XDR profile.
    - ii. The esMD system shall send the second notification, i.e., the pickup status/error notification and the third notification, i.e., the PA Review Response, using the batch mode (i.e., for deferred messaging).
    - iii. The difference between the real-time and the batch modes, other than the response times, is that the MTOM is used for sending an attachment in batch mode.
5. The HIH sends the CAQH PA Request (in Real Time) to the esMD.
  6. The esMD system verifies that only a single PWK06 element (Identification Code, also known as the ACN) is submitted within any given X12N 278 Request, and that the value is unique for the combination of the submitting NPI and the receiving RC.
  7. If any of the fields present in X12N 278 Request fail validation, the request is rejected immediately.
  8. The esMD waits for the supporting documentation to be sent by the HIH in an XDR Deferred Document Submission or an X12N 275 Transaction.
  9. After 2 business days, an X12N 278 5010 response with a pending status that requests the documentation be sent immediately will be received by the HIH:
    - a. A value of 19 in Segment BHT and Element Position 06 denotes "Further updates to follow".
    - b. A value of A4 in Segment HCR and element position 01 denotes "Pended" for 2-business day notification.
    - c. A value of "Request pending; documentation should be sent immediately" in Segment "MSG" and Element Position "01" provides the action expected from the HIH.
  10. The HIH responds to the 2-day notification with an X12N success status or a 999 error/TA1 acknowledgement in case of error.
  11. If the HIH has not responded to the 2-day notification with supporting documentation in XDR format, 4 business days after the initial X12N 278 5010 was sent:
    - a. The esMD sends a X12N 278 5010 rejection response to the HIH:
      - i. A value of 18 in Segment BHT and Element Position 06 denotes a "Final" status.
      - ii. A value of C in Segment HCR and Element Position 01 denotes "Rejection".
      - iii. A value of "Supporting documentation was not received within the time limit; resubmit your request along with supporting documentation" in Segment MSG and Element Position 01 provides the action expected from the HIH.
    - b. The HIH responds with an X12N 999 success status or a 999 error/TA1 acknowledgement in case of error.
  12. The HIH sends the supporting documentation to esMD in an XDR Deferred Document Submission or an X12N 275 Transaction with the ACN that corresponds to the X12N 278 5010 PA Request sent earlier.

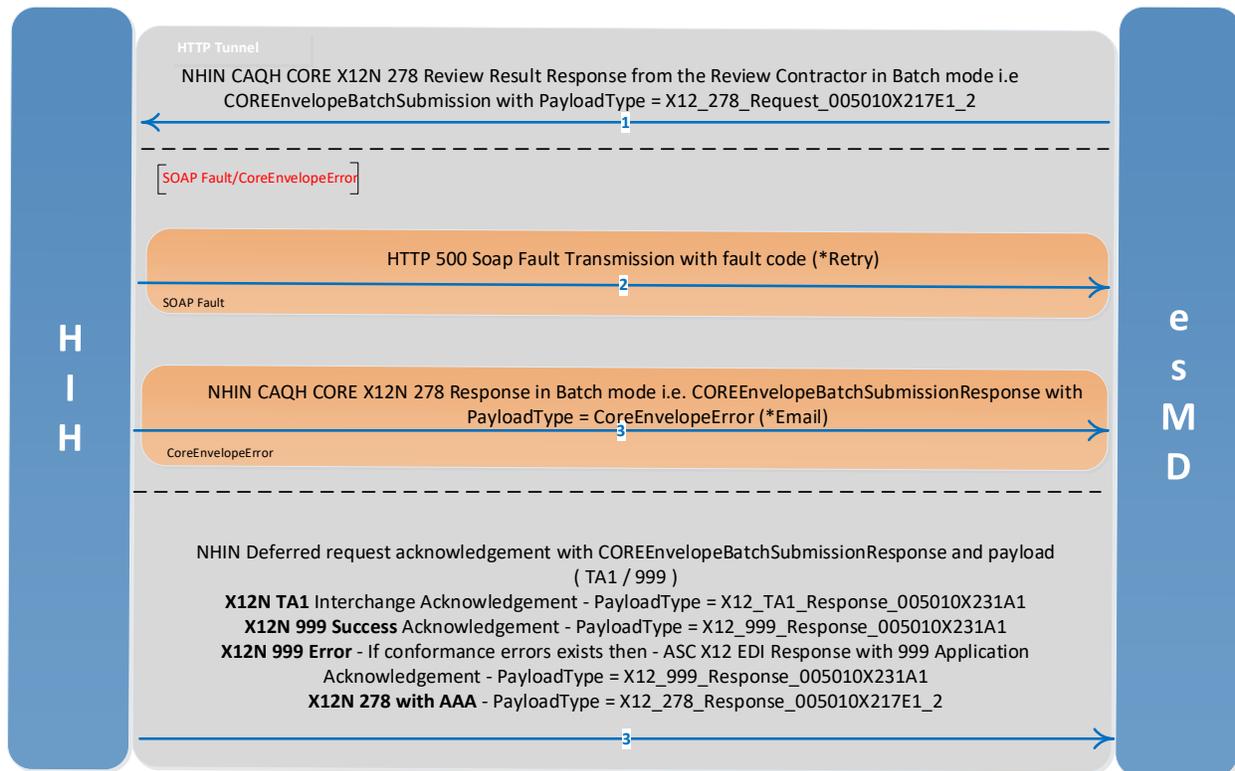
13. The esMD packages the XDR additional documentation and the PA Request together and sends the package to the RC.
  - a. The RC pulls the PA request package using the RC Client.
  - b. The RC processes the PA request package in their downstream systems.
14. If there are any errors in processing or unzipping the RC package, the RC sends a pickup notification with the corresponding error to the esMD which will be forwarded to the HIH as a Review Contractor Pickup Failure Notification. The HIH must resubmit the PA request to the esMD.
15. The X12 Pickup Notification will be sent to the HIH, if the RC was successful in processing the package sent from the esMD or if the Shared System Workload processing was able to validate the request.
16. The RC generates a PA Review Results Response and sends it to esMD via the Shared System Workload Response File:
  - a. The esMD processes the PA Review Results Response received from the RC.
  - b. If there are any errors in the PA Review Results Response received from the RC, the esMD sends a validation error to the Workload Acknowledgment/Error Response file.
  - c. The RC corrects the errors and resubmits the PA Review Results Response.
  - d. The esMD generates the X12N 278 5010 PA response as described in Section 3.7 The esMD to HIH - CAQH PA Review Result Response (Batch Mode) and sends it to the HIH.
17. The HIH responds to the esMD with appropriate response for the PA Response received (see Section 3.7 The esMD to HIH - CAQH PA Review Result Response (Batch Mode)).

### 3.7 The esMD to HIH - CAQH PA Review Result Response (Batch Mode)

1. esMD sends the PA Review Results Response from the RC to the HIH using the CAQH Batch mode transactions. The CAQH Batch mode transactions differ from the CAQH Real-time transactions in two ways:
  - a. The response to the Batch mode transaction does not have to be synchronous or timed as in Real-time transactions.
  - b. The payload is sent as an attachment using MTOM in Batch mode transactions whereas in Real-time transactions, the payload is sent inline.
2. The Batch mode response can carry the following payload types:
  - a. TA1 for interchange errors.
  - b. 999 error in case of conformance errors.
  - c. 999 success in case of successful receipt.
3. Most responses to X12N 278 Request transactions from the RC to the HIH will be in the form of X12N 278 PA/PCR Response transactions instead of TA1 failures, 999 failures, or 999 success messages. Occasional X12N 278 AAA Response transactions may also be sent.

Figure 7: X12 PA Review Result Response in CAQH Batch Mode illustrates the PA Review Result Response in CAQH Batch Mode.

**Figure 7: X12 PA Review Result Response in CAQH Batch Mode**



1. The esMD receives a PA Review Results Response from the RC:
  - a. esMD validates the PA Review Results Response and processes it.
  - b. esMD generates an X12N 278 5010 Response from the PA Review Result Response received from the Shared System Workload Response File.
  - c. esMD sends the X12N 278 5010 Response to the HIH in the Phase II CAQH CORE Rule 270: Connectivity Rule Version v2.2.0 Simple Object Access Protocol (SOAP) envelope over Hypertext Transfer Protocol (HTTP) .
  - d. The CAQH COREEnvelopeBatchSubmission with PayloadType X12\_278\_Response\_005010X217E1\_2 sends the X12N 278 5010 Response to the HIH.
2. If the HIH Gateway is unavailable or encounters an internal server error, the esMD will receive an HTTP 500 error:
  - a. The esMD Gateway tries to send the response again as a new request.
  - b. If the second attempt fails, the esMD scheduler tries to resend the PA Review Results Response after 4 hours.
  - c. The retries are limited to 3 attempts.
  - d. If all three resend attempts fail, esMD notifies the Service Desk of the incident in order to communicate the failure to the HIH.
3. If the HIH encounters an error processing the CAQH Batch Request sent from esMD, the HIH returns a CoreEnvelopeError to esMD. The esMD system generates and sends an email notification to the Service Desk to inform the esMD team of the error. The

Service Desk contacts the HIH to debug if there are any issues with processing the CAQH Batch requests.

4. The HIH responds with a HTTP 200, i.e., COREEnvelopeBatchSubmissionResponse with PayloadType X12\_BatchReceiptConfirmation. The HIH generates the First Notification, i.e., COREEnvelopeBatchSubmission with one of the following and sends it to the esMD:
  - a. In the event of an error, i.e., X12 Transaction/Application Conformance/Validation Error:
    - i. TA1: If interchange is rejected only – TA1 Interchange Acknowledgement - PayloadType = X12\_TA1\_Response\_005010X231A1.
    - ii. 999 Error: If any conformance errors exist then – ASC X12 EDI Response with 999 Application Acknowledgement – PayloadType = X12\_999\_Response\_005010X231A1.
    - iii. If the HIH has successfully received the PA Review Response, the esMD will receive a 999 Success Acknowledgement with PayloadType = X12\_999\_Response\_005010X231A1.

### 3.8 CAQH Metadata

Phase II CAQH CORE Rule 270: Connectivity Rule Version v2.2.0 defines a set of metadata used for message routing, transaction auditing, transaction scheduling, resource allocation, backward compatibility, error handling, and audit logging. Table 7: CORE Envelope Metadata lists the required CAQH CORE Metadata for esMD.

**Table 7: 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, (e.g., Health Insurance Portability and Accountability Act (HIPAA) ASC X12 transaction set 278).	X12_278_Request_005010X217E1_2 X12_278_Response_005010X217E1_2 CoreEnvelopeError X12_TA1_Response_00501X231A1 X12_999_Response_005010X231A1
ProcessingMode	R	Coded Set	Indicates Batch or Real-time processing mode (as defined by CORE)	RealTime/Batch
PayloadLength	R	Integer	Specifies the length of the actual payload in bytes.	Base 10

CORE Field	Requirement	Data Type	Definition	Value or Field Constraints for the esMD's eDoC
PayloadID	R	String	<p>Payload ID (unique within the domain of the party that sets this value) is a payload identifier assigned by the sender. If the payload is being resent in the absence of confirmation of receipt to persistent storage, the same PayloadID may be reused.</p> <p>PayloadID conforms to International Organization for Standardization (ISO) Universally Unique Identifier (UUID) standards (described at <a href="ftp://ftp.rfc-editor.org/in-notes/rfc4122.txt">ftp://ftp.rfc-editor.org/in-notes/rfc4122.txt</a>), with hexadecimal notation, generated using a combination of local timestamp (in milliseconds) as well as the hardware (MAC) address, to ensure uniqueness.</p>	The Payload ID must be unique for every 278 request
TimeStamp	R	dateTime	<p>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.</p>	<p>Date and Time the Message was created  <a href="http://www.w3.org/TR/xmlschema11-2/#dateTime">http://www.w3.org/TR/xmlschema11-2/#dateTime</a>  <b>"timeStamp"</b> format:            yyyy-MM-ddTHH:mm:ss.SSS-UTC</p> <p>Rule 1: The system checks timestamp format and mandates that it must be "yyyy-MM-ddTHH:mm:ss.SSS-UTC"</p> <p>Rule 2: The milliseconds and Zone are optional; if they are present in the request they will be validated against the format.</p> <p>Example: 2024-01-22T02:36:37.228-04:00</p>
SenderID	R	String	A unique business entity identifier representing the message envelope creator.	HIH OID

CORE Field	Requirement	Data Type	Definition	Value or Field Constraints for the esMD's eDoC
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
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

### 3.9 Error Handling

Envelope-level errors shall be handled in accordance with Phase II CAQH CORE Rule 270: Connectivity Rule Version v2.2.0. Refer to the error handling specified in Section 4.3.3 of the Phase II CAQH CORE 270: Connectivity Rule Version v2.2.0. To handle CORE-compliant envelope processing status and error codes, two fields, errorCode and errorMessage, are included in the CORE-compliant Envelope. The errorMessage is a freeform text field that describes the error for the purpose of troubleshooting/logging. When an error occurs, PayloadType is set to "CoreEnvelopeError."

### 3.10 CONNECT SAML Assertions

CONNECT Security Assertion Markup Language (SAML) Assertions define the exchange of metadata used to characterize the initiator of a request. The purpose of the SAML Assertion

exchange is to provide esMD with the information needed to make an authorization decision using the policy enforcement point for the requested the esMD function. Each HII initiating SOAP message must convey information regarding the sender's attributes and authentication using SAML 2.0 Assertions. SAML assertions for the esMD Electronic Determination of Coverage (eDoC) must conform to the NHIN Authorization Framework Specification v3.0.

## 4. Health Care Services – PA/PCR Request for Review

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### 4.1 esMD Program-level Notes for X12N 005010X217 (X12N 278) PA/PCR Requests

The following notes apply to X12N 005010X217 (X12N 278) PA/PCR Requests:

1. esMD accepts X12N 278 Request transactions for the following PA/PCR Programs: Non-Emergent, Repetitive, Scheduled Ambulance Transport (AMB), Durable Medical Equipment, Prosthetics, Orthotics & Supplies (DMEPOS) Requests; Pre-Claim Review Demonstration for Home Health Services, which is hereafter referred to as Home Health Pre-Claim Review (HHPCR); Hospital Outpatient Department (HOPD) Services, Inpatient Rehabilitation Facility (IRF), and Ambulatory Surgical Center (ASC).
2. HIHs, using an API CONNECT Gateway which will support the existing CONNECT v4.4 (or higher). HIHs may use any CONNECT-compatible software as long as esMD requirements are met, e.g., the software must send receipt acknowledgments as required by esMD and as described in the *HIH esMD Implementation Guide*. For HIHs submitting X12 transactions, a CONNECT-compatible X12 Gateway must be used.
3. Initial X12N 278 Requests must be submitted within a CAQH CORE envelope using a real-time connection. esMD responds within 20 seconds of receipt using the open connection.
4. For Repetitive, Scheduled Ambulance Transport (AMB), DMEPOS PA Program, HHPCR Requests, HOPD, IRF, and ASC with accompanying documentation continue to be accepted in XDR submissions using Content Type Codes 8.1, 8.4, 8.3, 8.5 8.6, and 8.7.
5. For X12N 278 Requests submitted to esMD, the Procedure Code in the SV1 or SV2 segment of the 2000F loop determines the PA/PCR Program for which the Request was submitted; HHPCR, HOPD and IRF must be submitted only in SV2 segment and DMEPOS, AMB, and ASC programs must be submitted in SV1.
6. esMD accepts only one Transaction Set Header (ST)/Transaction Set Trailer (SE) set per X12N 278 Request.
7. HHPCR and HOPD will accept a minimum of one service to a maximum of 40 services in one record. esMD accepts up to 40 2000F Service Loops per X12N 278 Request.  
7.1 For a given episode the request can be sent with 40 unique procedure codes for HHPCR.
8. IRF will accept only single service for single procedure code in the SV2 segment.
9. ASC request submitted for Blepharoplasty, Panniculectomy, Rhinoplasty, Vein ablation (B004) must contain only one procedure code.
10. ASC request submitted for Botulinum Toxin services (B005) must contain both an administrative code and a drug code.
11. Any specific provider types required for a PA/PCR Program are identified in the 2010EA loops Segment and Data Element tables described in Section 4.3 Segment and Data Element Description.
12. The ISA14 element is required to be zero for transactions submitted to the system because esMD returns an X12N 278 Response transaction containing an HCR segment for successful submissions. For unsuccessful transmissions, esMD returns an X12N 278 Response transaction with an error message, 999 failure transaction, or TA1 failure. It is redundant to also send a TA1 success message for successful submissions.

13. Supporting documentation is required for each X12N 278 Request and may be submitted as soon as the successful X12N 278 Response is received by the HIH. The XDR or X12N 275 format submits supporting documentation.

**Note:** XDR CTC 13 format is only accepted for Requests sent via SOAP. HIHs are requested not to send XDR CTC 13 for any CAQH REST API approach but send it in X12N 275 format only.

- a. When submitting supporting documentation via an XDR transaction:
  - i. Content Type Code 13 is required for XDR transactions.
  - ii. The metadata elements must include the ACN and NPI. The ACN in the XDR transaction must match the X12N 278 Request 2000E.PWK06 or 2000F.PWK06. The Requester's NPI must match the 2010B.NM109 in the X12N 278 Request.
  - iii. If the full set of documentation exceeds the 200MB limit for a single submission to esMD and more than one XDR submission is needed to send the full set of documentation required for the PA/PCR Request, the additional submission(s) must continue to use Content Type Code 13, ACN, and the Requester's NPI that were submitted in the X12N 278 Request.
  - iv. Mandatory tags for ParentUniqueID and SplitNumber are required for a 1-of-N function with split payloads to ensure the RC is able to associate all related submissions into a consolidated set of documents (e.g., 1 of 3, 2 of 3, and 3 of 3). Refer to the *HIH Implementation Guide*, Table 14.

**Note:** esMD does not valid the format of the Diagnosis Codes. esMD allows sending a maximum of 12 Diagnosis Codes in the request, but the medical reviewer only uses the first five diagnosis codes.

- b. When submitting documentation via X12N 275; the values submitted in the X12N 275 transaction must match the values in the associated elements submitted in the X12N 278 request:
  - i. The NPI, 1000A.NM109, in the X12N 275 must match the X12N 278 2010B.NM109.
  - ii. The Workload ID, 1000B.NM109, in the X12N 275 must match the X12N 278 2010A.NM109.
  - iii. The Patient Event Tracking Number, 1000C.REF02, in the X12N 275 must match the X12N 278 2000E.TRN02 (esMD-assigned 15-Alphanumeric-character Transaction ID).
  - iv. The Patient's Health Insurance Claim (HIC) Number (MBI), 1000C.NM109, in the X12N 275 must match the X12N 278 2010C.NM109.
  - v. The ACN, X12N 275 2000A.TRN02, must match the X12N 278 2000E.PWK06 or X12N 278 2000F.PWK06.

**Note:** Use the *esMD X12N 275 Companion Guide* and *ASC X12N 006020X316 (275) Additional Information to Support Health Care Services Review TR3* for all requirements regarding submission of X12N 275 transactions to esMD.

Use the *ASC X12N 005010X217 Standard for Electronic Data Interchange TR3* requirements unless otherwise noted in the following usage segments and/or data element sections.

**Note:** All segments submitted that are not identified in this document must conform to the ASC X12N 005010X217 TR3 specification to enable a successful submission.

## 4.2 Segment Usage – X12N 278 PA/PCR Request

This section lists the usage of levels, loops, and segments that are required to support esMD PA/PCR requests made through real-time submissions.

Table 8: X12N 278 Request Segments identifies the importance of the loop, segment, and element information required to support the esMD program. The esMD requirements are compliant with the *ASC X12N/005010X217 (278) TR3 Implementation Guide*. Table 8 includes a usage column identifying the submission requirements for loops and segments as follows:

1. **Mandatory (M):** Mandatory loops and segments must appear on 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 request.
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. **Optional (O):** Optional segments are not required or used by esMD; however, esMD does not restrict the user from sending optional segments in requests.
4. **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.

**Table 8: X12N 278 Request Segments**

Segment ID	Loop ID	Segment Name	esMD Usage
ST	Not assigned	Transaction Set Header	M
BHT	Not assigned	Beginning of Hierarchical Transaction	M
HL	Loop ID-2000A	Utilization Management Organization (UMO) Level	M
NM1	Loop ID-2010A	Utilization Management Organization (UMO) Name	M
HL	Loop ID-2000B	Requester Level	M
NM1	Loop ID-2010B	Requester Name	M
REF	2010B	Requester Supplemental Identification	O
N3	2010B	Requester Address	M
N4	2010B	Requester City, State, Zip Code	M
PER	2010B	Requester Contact Information	M
PRV	2010B	Requester Provider Information	O
HL	Loop ID-2000C	Subscriber Level	M
NM1	Loop ID-2010C	Subscriber Name	M
REF	2010C	Subscriber Supplemental Identification	O
N3	2010C	Subscriber Address	M
N4	2010C	Subscriber City, State, Zip Code	M
DMG	2010C	Subscriber Demographic Information	M
INS	2010C	Subscriber Relationship	N/U
HL	Loop ID-2000D	Dependent Level	N/U
HL	Loop ID-2000E	Patient Event Level	M
TRN	2000E	Patient Event Tracking Number	O
UM	2000E	Health Care Services Review Information	M
REF	2000E	Previous Review Authorization Number	O
REF	2000E	Previous Review Administrative Reference Number	O
DTP	2000E	Accident Date	O
DTP	2000E	Last Menstrual Period Date	O
DTP	2000E	Estimated Date of Birth	O

Segment ID	Loop ID	Segment Name	esMD Usage
DTP	2000E	Onset of Current Symptoms or Illness Date	O
DTP	2000E	Event Date	M
HI	2000E	Patient Diagnosis	O
HSD	2000E	Health Care Services Delivery	C
CRC	2000E	Ambulance Certification Information	O
CRC	2000E	Chiropractic Certification Information	O
CRC	2000E	Durable Medical Equipment Information	O
CRC	2000E	Oxygen Therapy Certification Information	O
CRC	2000E	Functional Limitations Information	O
CRC	2000E	Activities Permitted Information	O
CRC	2000E	Mental Status Information	O
CL1	2000E	Institutional Claim Code	O
CR1	2000E	Ambulance Transport Information	O
CR2	2000E	Spinal Manipulation Service Information	O
CR5	2000E	Home Oxygen Therapy Information	O
CR6	2000E	Home Health Care Information	O
PWK	2000E	Additional Patient Information	C
MSG	2000E	Message Text	C
NM1	Loop ID-2010EA	Patient Event Provider Name	C
NM103	2010EA	Patient Event Provider Last or Organization Name	C
NM104	2010EA	Patient Event Provider First Name	C
NM105	2010EA	Patient Event Provider Middle Name	O
NM107	2010EA	Patient Event Provider Name Suffix	O
NM108	2010EA	Identification Code Qualifier	C
NM109	2010EA	Patient Event Provider Identifier	C
REF	2010EA	Patient Event Provider Supplemental Information	O
N3	2010EA	Patient Event Provider Address	C
N4	2010EA	Patient Event Provider City, State, Zip Code	C
PER	2010EA	Patient Event Provider Contact Information	O
PRV	2010EA	Patient Event Provider Information	O
NM1	Loop ID-2010EB	Patient Event Transport Information	O
N3	2010EB	Patient Event Transport Location Address	O
N4	2010EB	Patient Event Transport Location City/State/Zip Code	O
NM1	Loop ID-2010EC	Patient Event Other UMO Name	O
REF	2010EC	Other UMO Denial Reason	O
DTP	2010EC	Other UMO Denial Date	O
HL	Loop ID-2000F	Service Level	M
TRN	2000F	Service Trace Number	O
UM	2000F	Health Care Services Review Information	O
REF	2000F	Previous Review Authorization Number	O
REF	2000F	Previous Review Administrative Reference Number	O
DTP	2000F	Service Date	O
SV1	2000F	Professional Service	C
SV2	2000F	Institutional Service Line	C
SV3	2000F	Dental Service	N/U
TOO	2000F	Tooth Information	N/U
HSD	2000F	Health Care Services Delivery	C
PWK	2000F	Additional Service Information	C
MSG	2000F	Message Text	O
SE	Not assigned	Transaction Set Trailer	M

### 4.3 Segment and Data Element Description

Table 9: Segment and Data Element Description through Table 66: Transaction Set Trailer represent segments as Mandatory (M), Conditional (C), Optional (O), or Not Used (N/U) for the esMD implementation of the X12N 278 Request transaction. Each segment table contains rows and columns describing the different elements of the particular segment.

**Table 9: 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 request.
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 columns contain the value "Refer to TR3," it indicates that there are no fixed acceptable values for that element. HHS can submit values per the TR3 guidelines. If any columns contain the value "Per esMD requirement," it indicates an esMD-specific requirement for the X12N 278 Request.
esMD Requirement or Element Description	Description of the contents of the data elements and/or esMD-specific requirement notes.

**Table 10: Transaction Set Header**

Segment Name	Transaction Set Header
Segment ID	ST
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	This segment indicates the start of the transaction. esMD Implementation Notes for Request: Each submission must contain only one transaction set.
Example	ST*278*152790*005010X217~

**Table 11: Beginning of Hierarchical Transaction**

Segment Name	Beginning of Hierarchical Transaction
Segment ID	BHT
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. The Transaction Set Purpose Code must be 13. 2. The Transaction Type Code must be empty.
Example	BHT*0007*13*4000000000001*20180125*1700~

**Table 12: BHT Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
BHT02	M	Transaction Set Purpose Code	13	BHT02 must = 13.
BHT06	N/U	Transaction Type Code	Per esMD requirement	BHT06 must not be present.

**Table 13: UMO Level**

Segment Name	Utilization Management Organization (UMO) Level
Segment ID	HL
Loop ID	2000A
Usage	Mandatory
Max Use	1
Segment Notes	This segment defines the UMO level hierarchy.
Example	HL*1**20*1~

**Table 14: UMO Name**

Segment Name	Utilization Management Organization (UMO) Name
Segment ID	NM1
Loop ID	2010A
Usage	Mandatory
Max Use	1
Segment Notes	To supply the full name of an individual or the name of an organizational entity (using the Last Name element only). esMD Implementation Notes for Request: <ol style="list-style-type: none"> <li>The Entity Identifier Code must be X3.</li> <li>The Identification Code Qualifier must be PI.</li> <li>The UMO Identifier must be the specific 5-digit Shared System Workload number for this provider and must be associated with the RC's Organizational Identifier (OID), submitted in the CAQH CORE envelope, and the RC's EDI ID, submitted in ISA08 and GS03.</li> <li>The RCs' EDI (Sender/Receiver) IDs, OIDs, Workload Numbers for each RC, and the Lines of Business supported by each RC can be found on the esMD website <a href="https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html">[https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html]</a>.</li> </ol>
Example	NM1*X3*2*NORIDIAN*****PI*01212~

**Table 15: 2010A-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	X3	2010A.NM101 must = X3. (Utilization Management Organization)
NM102	M	Entity Type Qualifier	2	2010A.NM102 must = 2 (Non-Person Entity) as the RCs are organizations and not individuals
NM108	M	Identification Code Qualifier	PI	2010A.NM108 must = PI. (Payer ID)
NM109	M	Utilization Management Organization Identifier	Per esMD requirement	2010A.NM109 must = the 5-digit Shared System Workload Number associated with the RC OID. (The Workload

				Numbers and OIDs are validated against the values in the esMD Database.)
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**Table 16: Requester Level**

Segment Name	Requester Level
Segment ID	HL
Loop ID	2000B
Usage	Mandatory
Max Use	1
Segment Notes	This segment defines the Requester level hierarchy.
Example	HL*2*1*21*1~

**Table 17: Requester Name**

Segment Name	Requester Name
Segment ID	NM1
Loop ID	2010B
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. The Entity Identifier Code must be 1P or FA. 2. The Identification Code Qualifier must be XX. 3. The Requester Identifier must be the Requester's NPI.
Example	NM1*1P*1*DOE*JOHN***MD*XX*1789012344~

**Table 18: 2010B-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	1P FA	2010B.NM101 must = 1P (Provider) or FA (Facility)
NM102	M	Entity Type Qualifier	1 2	2010B.NM102 must = 1 (Person) or 2 (Non – Person Entity)
NM103	M	Last Name or Organization Name	Last Name or Organization Name	Last Name or Organization Name
NM104	S	First Name	First Name	2010B.NM104 = First Name when 2010B.NM103 is present and 2010B.NM102 = 1
NM108	M	Identification Code Qualifier	XX	2010B.NM108 must = XX. (Centers for Medicare & Medicaid Services National Provider Identifier)
NM109	M	Requester Identifier	Per esMD requirement	2010B.NM109 must = the Requester's NPI. The X12N 275 1000A.NM109 must = the X12N 278 2010B.NM109.

**Table 19: Requester Address**

Segment Name	Requester Address
Segment ID	N3
Loop ID	2010B
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: Address information is required for the Requester.
Example	N3*2545 LORD BALTIMORE DR~

**Table 20: 2010B-N3 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N301	M	Requester Address Line	Valid U.S. Address	2010B.N301: esMD requires the Requester's first line of address.
N302	C	Requester Address Line	Valid U.S. Address	2010B.N302: submit a second address line, if available.

**Table 21: Requester City, State, Zip Code**

Segment Name	Requester City, State, Zip Code
Segment ID	N4
Loop ID	2010B
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: <ul style="list-style-type: none"> <li>4. A valid city name must be submitted for the Requester.</li> <li>5. A valid state code must be submitted for the Requester.</li> <li>6. 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.</li> <li>7. If the Requester is the Service Provider, the Patient must receive services in one of the states covered by the PA/PCR Program or the Ambulance must be garaged in a state covered by the Ambulance PA Program.</li> </ul>
Example	N4*WINDSORMILL*MD*212447034~

**Table 22: 2010B-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 23: Requester Contact Information**

Segment Name	Requester Contact Information
Segment ID	PER
Loop ID	2010B
Usage	Mandatory
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. Personal contact information is required for the Requester.</li> <li>2. The Requester Contact Name submitted may also be the Requester's name as submitted in the Requester's 2010B.NM1 segment.</li> <li>3. A Communication Number Qualifier element must be submitted.</li> <li>4. The Requester Contact Communication Number element must contain the Requester's contact telephone number; if available, the extension should also be provided.</li> <li>5. If an extension is available, it should be submitted using the Communication Number Qualifier of EX.</li> </ol>
Example	PER*IC*WILBER*FX*4105850054*TE*4105850064*EX*7854~

**Table 24: 2010B-PER Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
PER01	M	Contact Function Code	IC	2010B.PER01 must = IC
PER02	M	Requester Contact Name	Contact Name	esMD requires a contact name at the Requester's office or organization. 2010B.PER02 may be, but is not required to be, the person identified in 2010B.NM1.
PER03	C	Communication Number Qualifier	EM FX TE UR	One of the elements 2010B.PER03, PER05, or PER07 must = TE.
PER04	C	Requester Contact Communication Number	Communication Number Value	One of the Communication Numbers must be the Requester's Telephone Number.
PER05	C	Communication Number Qualifier	EM EX FX TE UR	If the extension is known, it should be submitted in the Contact Communication Number immediately following the telephone number and the Communication Number Qualifier would = EX.
PER06	C	Requester Contact Communication Number	Communication Number Value	If an Extension Number is available, it must be submitted in the Contact Communication Number element immediately following the Contact Communication element containing the Requester's Telephone Number.
PER07	C	Communication Number Qualifier	EM EX FX TE UR	One of the elements 2010B.PER03, PER05, or PER07 must = TE. If the extension is known, it should be submitted in the Contact Communication Number immediately

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				following the telephone number and use the Communication Number Qualifier = EX.
PER08	C	Requester Contact Communication Number	Communication Number value	2010B.PER04, PER06, or PER08 must be present for the 2010B.PER03, PER05, or PER07 element with the value = TE.

**Table 25: Subscriber Level**

Segment ID	Subscriber Name
Segment ID	HL
Loop ID	2000C
Usage	Mandatory
Max Use	1
Segment Notes	This segment defines the Subscriber/Beneficiary (Patient) level hierarchy.
Example	HL*3*2*22*1~

**Table 26: Subscriber Name**

Segment Name	Subscriber Name
Segment ID	NM1
Loop ID	2010C
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: <ol style="list-style-type: none"> <li>The Patient's (Beneficiary's) Identification Code Qualifier must be MI.</li> <li>The Subscriber Member Number (Patient's Health MBI) must be submitted.</li> </ol>
Example	NM1*IL*1*CLINGTON*TONY*DR***MI*UHG123456~

**Table 27: 2010C-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	IL	2010C.NM101 must = IL
NM102	M	Entity Type Qualifier	1	2010C.NM102 must = 1
NM103	M	Last Name or Organization Name	Subscriber Last Name	Subscriber Last Name or Organization Name
NM104	M	First Name	Subscriber First Name	Subscriber First Name
NM108	M	Identification Code Qualifier	MI	2010C.NM108 must = MI.
NM109	M	Subscriber Member Number	Per esMD requirement	2010C.NM109 must be a Medicare or Railroad Board ID (Beneficiary MBI) must not be null and must be a maximum of 12 characters in length in the submitted X12 PA Request. The X12N 275 1000C.NM109 must = the X12N 278 2010C.NM109 per the

				TR3 guidelines; if provided, esMD does not perform any format checks on the MBI.
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**Table 28: Subscriber Address**

Segment Name	Subscriber Address
Segment ID	N3
Loop ID	2010C
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: The Patient's address is required.
Example	N3*7111 SECURITY BLVD~

**Table 29: 2010C-N3 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N301	M	Subscriber Address Line	Valid U.S. Address	2010C.N301: esMD requires the Subscriber's first line of address.
N302	C	Subscriber Address Line	Valid U.S. Address	2010C.N302: submit a second address line, if available.

**Table 30: Subscriber City, State, Zip Code**

Segment Name	Subscriber City, State, Zip Code
Segment ID	N4
Loop ID	2010C
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: <ol style="list-style-type: none"> <li>1. A valid Subscriber City Name must be submitted for the Patient.</li> <li>2. A valid Subscriber State Code must be submitted for the Patient.</li> <li>3. A valid U.S. Zip Code must be submitted for the Patient's City and State Code; if the Zip+4 value is known, it should be submitted without including the hyphen within the element value; otherwise, submit the 5-digit zip code.</li> </ol>
Example	N4*BALTIMORE*MD*21244~

**Table 31: 2010C-N4 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N401	M	Subscriber City Name	Valid U.S. City	2010C.N401 must = a valid U.S. city name.
N402	M	Subscriber State Code	Valid U.S. State	2010C.N402 must = a valid U.S. state code

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N403	M	Subscriber Zip Code	Valid U.S. Zip Code	2010C.N403 must = the valid U.S. zip code for the Subscriber’s 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 32: Subscriber Demographic Information**

Segment Name	Subscriber Demographic Information
Segment ID	DMG
Loop ID	2010C
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: <ol style="list-style-type: none"> <li>1. The Subscriber’s Birth Date is required.</li> <li>2. The Subscriber’s Gender Code is required.</li> </ol>
Example	DMG*D8*19611111*M~

**Table 33: 2010C-DMG Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
DMG01	M	Date Time Period Format Qualifier	D8	2010C.DMG01 MUST = D8
DMG02	M	Subscriber Birth Date	Valid Date	2010C.DMG02: esMD requires the Subscriber’s Birth Date submitted in the format CCYYMMDD
DMG03	M	Subscriber Gender Code	Per esMD requirement	2010C.DMG03: esMD requires the Subscriber’s Gender Code.

**Table 34: Subscriber Relationship**

Segment Name	Subscriber Relationship
Segment ID	INS
Loop ID	2010C
Usage	Not Used
Max Use	0
Segment Notes	esMD Implementation Notes for Request: No INS segment is to be submitted for the Patient.
Example	None

**Table 35: Dependent Level**

Segment Name	Dependent Level
Segment ID	HL
Loop ID	2000D
Usage	Not Used
Max Use	0
Segment Notes	esMD Implementation Notes for Request: The 2000D and 2010D loops must NOT be present
Example	None

**Table 36: Patient Event Level**

Segment Name	Patient Event Level
Segment ID	HL
Loop ID	2000E
Usage	Mandatory
Max Use	1
Segment Notes	This segment defines the Patient Event level hierarchy.
Example	HL*4*3*EV*1~

**Table 37: Health Care Services Review Information**

Segment Name	Health Care Services Review Information
Segment ID	UM
Loop ID	2000E
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: <ol style="list-style-type: none"> <li>The Request Category Code must be HS.</li> <li>The Certification Type Code must be I.</li> <li>The Health Care Service Location Information must be present.</li> <li>The elements UM05 through UM010 are not required by esMD.</li> <li>For HHPCR, UM04-1 must be 32 and the UM04-2 must be A.</li> <li>For IRF, UM04-1 must be 11 and UM04-2 must be always A.</li> </ol>
Example	UM*HS*I*56*41:B~

**Table 38: 2000E-UM Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
UM01	M	Request Category Code	HS	2000E.UM01 must = HS. (Health Services Review)
UM02	M	Certification Type Code	I	2000E.UM02 must = I. (Initial)
UM04	M	Health Care Service Location Information	Refer to TR3	2000E.UM04 must be present.
UM04-1	M	Facility Type Code	Refer to TR3	Code identifying where services will be performed.
UM04-2	M	Facility Code Qualifier	A B	Code identifying the type of facility referenced: A: Uniform Billing Claims Form (Institutional)

				B: Place of Service Codes for Professional Services
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**Table 39: Event Date**

Segment Name	Event Date
Segment ID	DTP
Loop ID	2000E
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Request: Program coverage rules require the Event Date/Date Range for the request to be submitted in the Patient Event Date segment. For ASC, the Date/ Date Range in the request must be in the past.
Example	DTP*AAH*RD8*20161020-20161219~

**Table 40: 2000E- DTP Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
DTP01	M	Event Date or Time Qualifier	AAH	2000E.DTP01 = AAH
DTP02	M	Date Time Period Format Qualifier	D8 RD8	2000E.DTP02 must be D8 (Event Date) or RD8 (Date Range)
DTP03	M	Date Time Period	Date Time Period	2000E.DTP03 must = Date Time Period; for date, the format is expressed in format CCYYMMDD, and for date range in format CCYYMMDD- CCYYMMDD

**Table 41: Patient Diagnosis**

Segment Name	Patient Diagnosis
Segment ID	HI
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. Program coverage rules require, at a minimum, that the primary (first) ICD-10 diagnosis code be submitted. 2. Other diagnosis codes may be submitted, as the situation requires, up to a maximum of 12 codes. 3. CMS considers only the first five diagnosis codes when conducting a medical review; ensure that the diagnosis codes are submitted in priority order with the most significant diagnosis codes submitted in HI01 – HI05.
Example	HI*ABK: R0600~

**Table 42: 2000E-HI Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
HI01	M	Diagnosis 1	Refer to TR3	2000E.HI01: esMD allows the Patient’s Primary Diagnosis Code

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
HI01 – 1	M	Diagnosis Type Code	Refer to TR3	2000E.HI01 – 1: The Diagnosis Type Code defines the category for the Diagnosis Code
HI02 – 2	M	Diagnosis Code	Refer to TR3	2000E.HI01 – 2: The Primary Diagnosis Code must be submitted if the HI segment is submitted.

**Table 43: Health Care Services Delivery**

Segment Name	Health Care Services Delivery
Segment ID	HSD
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. The requested Quantity Qualifier and Quantity must be submitted in the 2000F SV1/SV2, the 2000E.HSD, or the 2000F.HSD segment. esMD recommends using the 2000F SV1/SV2 segment.</li> <li>2. While the Quantity Qualifier and Quantity may be submitted in the HSD segment, program coverage rules, for the esMD PA/PCR Programs currently available via the CMS esMD system, do not support Patterns of Delivery and the elements supporting Patterns of Delivery should not be submitted.</li> <li>3. If submitted in the HSD segment, the Quantity Qualifier must be FL.</li> <li>4. One of the requested quantities in the 2000E.HSD, 2000F.HSD or 2000F SV1/SV2 segments must be greater than 0.</li> </ol>
Example	HSD*FL*80~

**Table 44: 2000E-HSD Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
HSD01	M	Quantity Qualifier	FL	If the 2000E HSD segment is submitted, 2000E.HSD01 must = FL.
HSD02	M	Quantity	Per esMD requirement	Submit the number of services that will be provided under the requested PA/PCR Program. 2000E.HSD02 must be present if 2000E.HSD01 is present.

**Table 45: Additional Patient Information**

Segment Name	Additional Patient Information
Segment ID	PWK
Loop ID	2000E
Usage	Conditional
Max Use	10
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. If the Paperwork segment is not submitted in the Patient Event loop, it must be submitted in the 2000F Service loop.</li> <li>2. The single ACN allowed per Request must be unique for each Requester NPI (2010B.NM109).</li> <li>3. If multiple Report Type Codes (2000E.PWK01 and/or 2000F.PWK01) are submitted, program coverage rules require that each PWK segment be submitted using the same ACN value in every 2000E.PWK06 and/or 2000F.PWK06 element.</li> <li>4. The PWK06 element must be a minimum of 1 and a maximum of 50 alphanumeric characters.</li> </ol> <p>Note: The HHS are requested to send minimum 1 and maximum of 50 alphanumeric characters accepted by esMD.</p>
Example	PWK*M1*EL ***AC*ACN1~

**Table 46: 2000E-PWK Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
PWK02	M	Report Transmission Code	EL	2000E.PWK02 MUST = EL
PWK06	M	Attachment Control Number	Per esMD requirement	<p>2000E.PWK06 must be alphanumeric (A-Z, a-z, or 0-9).</p> <p>The PWK06 element must be a minimum of 1 and a maximum of 50 in length an alphanumeric If the PWK segment is present, one, and only one, value must be present in 2000E.PWK06 and/or 2000F.PWK06 for all PWK segments.</p> <p>Note: Ensure the Attachment Control Number provided in X12N 275 2000A.TRN02 must = the X12N 278 2000E.PWK06.</p>

**Table 47: MSG Segment**

Segment Name	Message Text
Segment ID	MSG
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <p>This segment specifies the program type as the procedure codes for ASC and HOPD are the same. It is mandatory for ASC and HOPD, and optional for other program types.</p>
Example	MSG*ASC~

**Table 48: MSG Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
MSG01	C	Free-form Message Text	ASC, HOPD	2000E.MSG01 MUST = ASC 2000E. MSG01 MUST = HOPD

**Table 49: Patient Event Provider Name**

Segment Name	Patient Event Provider Name
Segment ID	NM1
Loop ID	2010EA
Usage	Conditional
Max Use	10
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>esMD requires all provider information for PA requests must be submitted in the 2010EA loop. If provider information is submitted in the 2010F Loop, the request will be rejected. For all PA Program requests, esMD requires that at least two Patient Event Provider/Service Name loops must be submitted in the 2010EA/NM1.                             <ul style="list-style-type: none"> <li>Ordering Physician – DK</li> <li>Referring Provider – DN</li> <li>Facility -FA</li> <li>Service Provider – SJ</li> <li>Operating Physician (72);</li> <li>Referring Provider (DN);</li> <li>Attending Physician (71).</li> </ul> </li> </ol> <p>DMEPOS:</p> <ol style="list-style-type: none"> <li>For DMEPOS the Entity Identifier Code = SJ is required.</li> <li>Other Patient Event Providers mentioned above can be sent as combination.</li> </ol> <p>AMBULANCE:</p> <ol style="list-style-type: none"> <li>For Ambulance, the Entity Identifier Code = DK is required.</li> <li>This combination must be required for Ambulance.                             <ol style="list-style-type: none"> <li>DK - Ordering Physician &amp; SJ - Service Provider</li> <li>DK - Ordering Physician &amp; FA - Facility</li> </ol> </li> <li>Other provider types 'DN','71','72' must not be sent in the request.</li> </ol>

Segment Name	Patient Event Provider Name
	<p>HHPCR:</p> <ol style="list-style-type: none"> <li>For HHPCR requests, esMD requires that at least one Patient Event Provider Name loop must be submitted with an Entity Identifier Code = FA.</li> <li>Other acceptable "DK, DN, 71 and 72" Patient Event Providers may be submitted.</li> <li>For HHPCR the Entity Identifier Code "SJ" must not submit.</li> <li>If the Operating Physician (72) is submitted, then the other acceptable Patient Event Providers combination that can be submitted are "71/DK/DN/FA" when an HHPCR procedure code is submitted in 2000F/SV202-2.</li> </ol> <p>HOPD:</p> <ol style="list-style-type: none"> <li>For HOPD requests, there is no combination check performed by the system for the Provider Type. As per the TR3, all 14 identifiers are accepted by the system in SV202-2.</li> <li>HIH can send only these Provider Type Indicators, "DK, DN, SJ, 71, 72 and FA," in the Flat File. (All 14 qualifiers are acceptable, as per the TR3, but the above-mentioned qualifiers needs to be sent to the SSM.</li> </ol> <p>71 Attending Physician            72 Operating Physician            73 Other Physician            77 Service Location            AAJ Admitting Services            DD Assistant Surgeon            DK Ordering Physician            DN Referring Provider            FA Facility            G3 Clinic            P3 Primary Care Provider            QB Purchase Service Provider            QV Group Practice            SJ Service Provider</p> <p>IRF:</p> <ol style="list-style-type: none"> <li>For IRF Program, one of the Provider Types must be always "FA Facility".</li> <li>The HIH can send all Provider Types listed in the TR3, and Providers are free to send all identifiers. Even though the 14 identifiers are received, the system will process only the following six: "SJ, DK, DN, FA, 71, &amp; 72" to the SSM and will not reject and ignore the remaining provider types if sent.</li> </ol> <p>ASC:</p> <ol style="list-style-type: none"> <li>For the ASC program, the two provider types are 'Facility' (FA) and 'Service Provider' (SJ).</li> </ol> <p>NM1*DK*1*HANDLE*CARE****XX*1234567893~</p>

**Table 50: 2010EA-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	Per esMD requirement	For Fall PA Program requests, esMD requires that at least two Patient Event Provider/Service Name loops must be submitted in the 2010EA/NM1. Ordering Physician - DK Referring Provider - DN Facility -FA Service Provider - SJ Operating Physician (72);

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				<p>Referring Provider (DN); or Attending Physician (71).</p> <p>DMEPOS:                      1. For DMEPOS the Entity Identifier Code = SJ is required.                      2. Other Patient Event Providers mentioned above can be sent as combination.</p> <p>AMBULANCE:                      1. For Ambulance, the Entity Identifier Code = DK is required.                      2. This combination must be required for Ambulance.                      a. DK - Ordering Physician &amp; SJ - Service Provider                      b. DK - Ordering Physician &amp; FA - Facility</p> <p>3. Other provider types 'DN','71','72' must not be sent in the request.</p> <p>HHPCR:                      1. For HHPCR requests, esMD requires that at least one Patient Event Provider Name loop must be submitted with an Entity Identifier Code = FA.                      2. Other acceptable "DK, DN,71 and 72" Patient Event Providers may be submitted.                      3. For HHPCR the Entity Identifier Code "SJ" must not submit.                      4. If the Operating Physician (72) is submitted, then the other acceptable Patient Event Providers combination that can be submitted are "71/DK/DN/FA" when an HHPCR procedure code is submitted in 2000F/SV202-2.</p> <p>IRF:                      1. For IRF requests, esMD requires that at least one Patient Event Provider Name loop must be submitted with an Entity Identifier Code = FA.                      2. Even though the 14 identifiers are received, the system will process only the following six: "SJ, DK, DN, FA, 71, &amp; 72" to the SSM. esMD will ignore and not reject when the other providers apart from "SJ, DK, DN, FA, 71, &amp; 72" are sent.</p>

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				ASC: For the ASC program, the two provider types are 'Facility' (FA) and 'Service Provider' (SJ).
NM103	M	Patient Event Provider Last or Organization Name	Provider Last Name	Patient Event Provider Last or Organization Name
NM104	M	Patient Event Provider First Name	Provider First Name	Patient Event Provider First Name
NM105	O	Patient Event Provider Middle Name	Provider Middle Name	Provider Middle Name
NM107	O	Patient Event Provider Name Suffix	Provider Middle Name	Provider Name Suffix
NM108	M	Identification Code Qualifier	XX	2010EA.NM108 must = XX.
NM109	M	Patient Event Provider Identifier	Patient Event Provider's NPI	2010EA.NM109 must = the Patient Event Provider's NPI

**Table 51: Patient Event Provider Address**

Segment Name	Patient Event Provider Address
Segment ID	N3
Loop ID	2010EA
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. If Patient Event Provider Name loops are submitted that fulfill the Entity Identifier Code combinations requirement for PA Programs, program coverage rules require the Patient Event Provider Address segment to be submitted in each of the two loops. 2. If the Patient Event Provider Name loop is submitted with the Entity Identifier Code of FA for an HHPCR request, program coverage rules require the Patient Event Provider Address segment to be submitted for the FA provider.
Example	N3*188 MAIN ST~

**Table 52: 2010EA-N3 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N301	M	Patient Event Provider Address Line	Valid U.S. Address	esMD requires a valid Patient Event Provider Address for Providers that fulfill the Entity Identifier Code requirement. 2010EA.N301: For providers fulfilling the Entity Identifier Code requirement, esMD requires the Patient Event Provider's first line of address.
N302	C	Patient Event Provider Address Line	Valid U.S. Address	esMD requires a valid Patient Event Provider Address for Providers that fulfill the Entity Identifier Code requirement. 2010EA.N302: submit a second address line, if available.

**Table 53: Patient Event Provider City, State, Zip Code**

Segment Name	Patient Event Provider City, State, Zip Code
Segment ID	N4
Loop ID	2010EA
Usage	Conditional
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. If Patient Event Provider Name loops are submitted that fulfill the Entity Identifier Code combinations requirement for PA Programs, program coverage rules require the Patient Event Provider City, State, Zip Code segment to be submitted in each of the two loops.</li> <li>2. If the Patient Event Provider Name loop is submitted with the Entity Identifier Code of FA for an HHPCR request, program coverage rules require the Patient Event Provider City, State, Zip Code segment to be submitted for the FA provider.</li> <li>3. Program coverage rules require the Patient Event Provider City Name to be submitted for each provider that fulfills the Entity Identifier Code combination requirement.</li> <li>4. Program coverage rules require the Patient Event Provider State Code to be submitted for each provider that fulfills the Entity Identifier Code combination requirement.</li> <li>5. The Zip Code element must be valid for the U.S. for the Patient Event Provider’s City and State Code; if the Zip+4 value is known, it should be submitted without including the hyphen within the element value, otherwise, submit the 5-digit zip code.</li> <li>6. If this is the Service Provider (NM101 = SJ) or the Facility (NM101 = FA), the Patient must receive services in one of the states covered by the PA/PCR Program – or the Ambulance must be garaged in a state covered by the Ambulance PA Program.</li> </ol>
Example	N4*CINCINNATI*OH*43017~

**Table 54: 2010EA-N4 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N401	M	Patient Event Provider City Name	Valid U.S. City	esMD requires a valid U.S. City Name for Providers that fulfill the Entity Identifier Code requirement. 2010EA.N401 must be a valid U.S. City Name.
N402	M	Patient Event Provider State Code	Valid U.S. State	esMD requires a valid U.S. State Code for Providers that fulfill the Entity Identifier Code requirement. 2010EA.N402 must be a valid U.S. State Code.
N403	M	Patient Event Provider Zip Code	Valid U.S. Zip Code	201EA.N403 must be a valid U.S. zip code for Providers that fulfill the Entity Identifier Code requirement. 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 55: Service Level**

Segment Name	Service Level
Segment ID	HL
Loop ID	2000F
Usage	Mandatory
Max Use	1
Segment Notes	This segment defines the Service Level hierarchy. esMD Implementation Notes for Request: esMD requires and allows only one iteration of the 2000F loop
Example	HL*5*4*SS*0~

**Table 56: Event Date**

Segment Name	Event Date
Segment ID	DTP
Loop ID	2000F
Usage	Situational
Max Use	1
Segment Notes	esMD Implementation Notes for Request: <ul style="list-style-type: none"> <li>Program coverage rules require the Event Date Range for the request to be submitted in the Service Level when the proposed date, actual date, or range of dates of dates differs from the Patient Event Date in Loop 2000E.</li> <li>For IRF and HHPCR, the Proposed Date of Service (PDOS) may be submitted as a single date or a date range.</li> <li>For HHPCR, the date range must be between a one to 30-day billing period. For HHPCR, the date can be either a current, future, or past date.</li> <li>For IRF, the PDOS does not represent a billing period, but simply a date range. The date/date range can either be a current, future, or past date.</li> <li>For ASC, the date/ date range must always be a future date.</li> </ul>
Example	DTP*472*D8*20160101-20160130~

**Table 57: 2000F-DTP Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
2000F/DTP 01	M	Date or Time Qualifier	472	2000F.DTP01 = 472
2000F/DTP 02	M	Date Time Period Format Qualifier	RD8/D8	2000F.DTP02 must = RD8 (Date Range) 2000F.DTP02 must = D8 (Date)
2000F/DTP 03	M	Date Time Period	Date Time Period	2000F.DTP03 must = Date range in format CCYYMMDD- CCYYMMDD 2000F.DTP03 must = Date in CCYYMMDD

**Table 58: Professional Service**

Segment Name	Professional Service
Segment ID	SV1
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>If 2000E.UM04 – 2 = B, the 2000F.SV1 segment is required.</li> <li>Only one of the SV1 segment or the SV2 segment can be submitted within a single X12N 005010X217 (278) Request.</li> <li>The Product or Service ID Qualifier must be HC.</li> <li>Program coverage rules require the Procedure Code to be one of the following values:             <ol style="list-style-type: none"> <li>Non-Emergent, Repetitive, Scheduled Ambulance Transport: A0426 or A0428,</li> </ol> </li> <li>DMEPOS: K0813, K0814, K0815, K0816, , K0820, K0821, K0822, K0823, K0824, K0825, K0826, K0827, K0828, K0829, K0835, K0836, K0837, K0838, K0839, K0840, K0841, K0842, K0843, K0848, K0849, K0850, K0851, K0852, K0853, K0854, K0855, K0856, K0861, K0857, K0858, K0859, K0860, K0862, K0863, K0864, E0193, E0277, E0371, E0372, E0373, L5856, L5857, L5858, L5973, L5980, and L5987 Procedure Code Pricing Modifiers must be submitted in the SV101-3 and SV101-4 (Part B PA only) elements.</li> <li>ASC - For Blepharoplasty, Panniculectomy, Rhinoplasty, Vein ablation (B004): 21210, 30400, 30410, 30420, 30430, 30435, 30450, 30460, 30462, 30465, 30520, 36473, 36474, 36475, 36476, 36478, 36479, 36482, 36483, 15820, 15821, 15822, 15823, 67900, 67901, 67902, 67903, 67904, 67906, 67908, 15830, 15847, 15877, 20912</li> <li>ASC - For Botulinum Toxin services (B005): Administrative code: 64612, 64615, Drug Code: J0585, J0586, J0587, J0588, J0589</li> <li>For Blepharoplasty, Panniculectomy, Rhinoplasty, Vein ablation ( B004) only one procedure code must be submitted.</li> <li>For Botulinum Toxin services (B005): One administrative code, and one drug code must be submitted.</li> <li>Program coverage rules require that only a primary procedure code be submitted. If a range of procedure codes is submitted, the request is rejected.</li> <li>If the Service Unit Count is submitted in the SV1 segment, the Unit or Basis for Measurement Code (Quantity Qualifier) must be UN.</li> <li>The requested Quantity Qualifier and requested Quantity must be submitted in the 2000E.HSD, 2000F.HSD, or SV1/SV2 segment.</li> <li>One of the requested quantities in the 2000E.HSD, 2000F.HSD or SV1/SV2 segment must be an integer greater than zero.</li> <li>We recommend submitting the requested Quantity Qualifier and requested Quantity in the 2000F SV1/SV2 segment.</li> </ol>
Example	SV1*HC:A0428:QM**UN*30~

**Table 59: 2000F-SV1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
SV101	M	Composite Medical Procedure Identifier	Per esMD requirement	esMD requires the composite element 2000F.SV101, when the SV1 segment is submitted.
SV101-1	M	Product or Service ID Qualifier	HC	2000F.SV101 – 1 must = HC. (Health Care Financing Administration Common Procedure Coding System (HCPCS) Codes) This component element is required if the composite element is submitted

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
SV101-2	M	Procedure Code	Valid Industry Code	2000F.SV101 – 2 must be a primary Procedure Code for one of the esMD PA Programs for Non-Emergent, Repetitive, Scheduled Ambulance Transport, DMEPOS, or ASC.
SV103	M	Quantity Qualifier	UN	If 2000F.SV103 must = UN, then HSD Quantity or Qualifier value is not required in the 2000F or 2000E HSD segment.If 2000F.SV104 is present, then 2000F.SV103 is required. The 2000F SV1/SV2 segment is the preferred location for submitting the required Qualifier for the type of services.
SV104	M	Quantity	Per esMD requirement	The SV1/SV2 segment is the preferred location for submitting the requested number of services. If 2000F.SV103 is present, then 2000F.SV104 is required. If present, the quantity must an integer greater than 0.

**Table 60: Institutional Service Line**

Segment Name	Institutional Service Line
Segment ID	SV2
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. If 2000E.UM04 – 2 = A, the 2000F.SV2 segment is required.</li> <li>2. Only one of the SV2 segment or the SV1 segment can be submitted within a single X12N 005010X217 (278) Request.</li> <li>3. The Product Service Qualifier must be HC.</li> <li>4. Program coverage rules require the Procedure Code to be one of the following values:             <ol style="list-style-type: none"> <li>a. HOPD: 22551, 22552, 63650, 64612, J0585, J0586, J0587, J0588, 64615, 15820, 15821, 15822, 15823, 67900, 67901, 67902, 67903, 67904, 67906, 67908, 67911, 15830, 15847, 15877, 20912, 21210, 30400, 30410, 30420, 30430, 30435, 30450, 30460, 30462, 30465, 30520, 36473, 36474, 36475, 36476, 36478, 36479, 36482, 36483.</li> </ol> </li> <li>5. Program coverage rules require items 5.a and 5.b for HHPCR Request transactions; other conditions apply as shown in items 5.c and 5.d.             <ol style="list-style-type: none"> <li>a. The presence of one of the following procedure codes in element SV202 in the SV2 segment: G0151 – G0153, G0155 – G0162, or G0299 – G0300, G0493; G0494, G0495, G0496 and</li> <li>b. The Type of Bill (UM04 – 1) = 32</li> <li>c. If the conditions in 5.a and 5.b are not met, esMD shall reject the HHPCR Request transaction.</li> <li>d. For any PA programs, if provider information is submitted in the 2010F loop, esMD will reject the Request transaction.</li> </ol> </li> </ol>

<b>Segment Notes</b>	<p><b>6. Program coverage rules require the following procedure codes for the IRF Program:</b></p> <p>A0101, A0102, A0103, A0104, A0105, A0106, A0201, A0202, A0203, A0204, A0205, A0301, A0302, A0303, A0304, A0305, A0401, A0402, A0403, A0404, A0405, A0406, A0407, A0501, A0502, A0503, A0504, A0505, A0601, A0602, A0603, A0604, A0701, A0702, A0703, A0704, A0801, A0802, A0803, A0804, A0805, A0901, A0902, A0903, A0904, A1001, A1002, A1003, A1004, A1101, A1102, A1103, A1201, A1202, A1203, A1204, A1301, A1302, A1303, A1304, A1305, A1401, A1402, A1403, A1404, A1501, A1502, A1503, A1504, A1601, A1602, A1603, A1604, A1701, A1702, A1703, A1704, A1705, A1801, A1802, A1803, A1804, A1805, A1806, A1901, A1902, A1903, A1904, A2001, A2002, A2003, A2004, A2005, A2101, A2102</p> <p>B0101, B0102, B0103, B0104, B0105, B0106, B0201, B0202, B0203, B0204, B0205, B0301, B0302, B0303, B0304, B0305, B0401, B0402, B0403, B0404, B0405, B0406, B0407, B0501, B0502, B0503, B0504, B0505, B0601, B0602, B0603, B0604, B0701, B0702, B0703, B0704, B0801, B0802, B0803, B0804, B0805, B0901, B0902, B0903, B0904, B1001, B1002, B1003, B1004, B1101, B1102, B1103, B1201, B1202, B1203, B1204, B1301, B1302, B1303, B1304, B1305, B1401, B1402, B1403, B1404, B1501, B1502, B1503, B1504, B1601, B1602, B1603, B1604, B1701, B1702, B1703, B1704, B1705, B1801, B1802, B1803, B1804, B1805, B1806, B1901, B1902, B1903, B1904, B2001, B2002, B2003, B2004, B2005, B2101, B2102</p> <p>C0101, C0102, C0103, C0104, C0105, C0106, C0201, C0202, C0203, C0204, C0205, C0301, C0302, C0303, C0304, C0305, C0401, C0402, C0403, C0404, C0405, C0406, C0407, C0501, C0502, C0503, C0504, C0505, C0601, C0602, C0603, C0604, C0701, C0702, C0703, C0704, C0801, C0802, C0803, C0804, C0805, C0901, C0902, C0903, C0904, C1001, C1002, C1003, C1004, C1101, C1102, C1103, C1201, C1202, C1203, C1204, C1301, C1302, C1303, C1304, C1305, C1401, C1402, C1403, C1404, C1501, C1502, C1503, C1504, C1601, C1602, C1603, C1604, C1701, C1702, C1703, C1704, C1705, C1801, C1802, C1803, C1804, C1805, C1806, C1901, C1902, C1903, C1904, C2001, C2002, C2003, C2004, C2005, C2101, C2102</p> <p>D0101, D0102, D0103, D0104, D0105, D0106, D0201, D0202, D0203, D0204, D0205, D0301, D0302, D0303, D0304, D0305, D0401, D0402, D0403, D0404, D0405, D0406, D0407, D0501, D0502, D0503, D0504, D0505, D0601, D0602, D0603, D0604, D0701, D0702, D0703, D0704, D0801, D0802, D0803, D0804, D0805, D0901, D0902, D0903, D0904, D1001, D1002, D1003, D1004, D1101, D1102, D1103, D1201, D1202, D1203, D1204, D1301, D1302, D1303, D1304, D1305, D1401, D1402, D1403, D1404, D1501, D1502, D1503, D1504, D1601, D1602, D1603, D1604, D1701, D1702, D1703, D1704, D1705, D1801, D1802, D1803, D1804, D1805, D1806, D1901, D1902, D1903, D1904, D2001, D2002, D2003, D2004, D2005, D2101, D2102</p>
	<ol style="list-style-type: none"> <li>a. The presence of one of the above procedure codes in element SV202 in the SV2 segment is mandatory for IRF.</li> <li>b. The Type of Bill for IRF (UM04 – 1) = 11.</li> <li>c. If the conditions in 6.a and 6.b are not met, esMD shall reject the IRF Request transaction.</li> </ol> <ol style="list-style-type: none"> <li>7. HHPCR, HOPD and IRF must be submitted in the SV2 Segment. 999 error would be received if the X12 278 request if submitted in Sv1 Segment.</li> <li>8. Procedure Code Pricing Modifiers may be submitted as appropriate for the Procedure Code submitted in the request. (Note: Only the first two procedure code modifier elements are used for Part A Requests. If submitted, they should be sent in the first two procedure code modifier elements (SV202–3 and SV202–4).)</li> <li>9. Program coverage rules require that only a primary procedure code be submitted. If a range of procedure codes is submitted, the request will be rejected.</li> <li>10. If the Quantity is submitted in the SV2 segment, the Unit or Basis for Measurement Code (Quantity Qualifier) must be UN.</li> <li>11. The Quantity Qualifier and requested Quantity must be submitted in the 2000E.HSD, the 2000F.HSD, or the 2000F SV1/SV2 segment.</li> <li>12. One of the requested quantities in the 2000E.HSD, 2000F.HSD or SV1/SV2 segment must an integer greater than 0.</li> <li>13. Submitting the Quantity Qualifier and requested Quantity in the 2000F SV1/SV2 segment are recommended.</li> </ol>
<b>Example</b>	SV2**HC:15820:22*10.50*UN*2~

**Table 61: 2000F-SV2 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
SV202	M	Composite Medical Procedure Identifier	Refer to TR3	esMD requires the composite element 2000F.SV202, when the SV2 segment is submitted.
SV202-1	M	Product or Service ID Qualifier	HC	2000F.SV202 – 1 must = HC. This component element is required if the composite element is submitted
SV202-2	M	Procedure Code	Per esMD requirement	2000F.SV202 – 2 must be a primary Procedure Code for one of the esMD PA/PCR Programs. See Table 60: Institutional Service Line for esMD acceptable procedure codes. This component element is required if the composite element is submitted.
SV204	M	Quantity Qualifier	UN	2000F.SV204 must = UN, if the Quantity Qualifier value and Quantity are not present in the 2000E or 2000F HSD segment.
SV205	M	Quantity	Service Unit Count	The SV1/SV2 segment is the preferred location for submitting the requested number of services. If the 2000F.SV204 is present, then the 2000F.SV205 must be present. If present, the quantity must be an integer greater than 0.

**Table 62: Health Care Services Delivery**

Segment Name	Health Care Services Delivery
Segment ID	HSD
Loop ID	2000F
Usage	Optional
Max Use	1
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. The requested Quantity Qualifier and Quantity must be submitted in the 2000F SV1/SV2, 2000E.HSD, or 2000F.HSD segment. esMD recommends using the 2000F SV1/SV2 segment.</li> <li>2. While the Quantity Qualifier and Quantity may be submitted in the HSD segment, program coverage rules, for the esMD PA/PCR Programs currently available via the CMS esMD system, do not support Patterns of Delivery and the elements supporting Patterns of Delivery should not be submitted.</li> <li>3. If submitted in the HSD segment, the Quantity Qualifier must be FL.</li> </ol>
Example	HSD*FL*80~

**Table 63: 2000F-HSD Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
HSD01	M	Quantity Qualifier	FL	If the 2000F HSD segment is present, 2000F.HSD01 must = FL.
HSD02	M	Service Quantity	Service Unit Count	Submit the number of services that will be provided under the requested PA/PCR Program. 2000F.HSD02 must be present if 2000F.HSD01 is present.

**Table 64: Additional Service Information**

Segment Name	Additional Service Information
Segment ID	PWK
Loop ID	2000F
Usage	Conditional
Max Use	10
Segment Notes	<p>esMD Implementation Notes for Request:</p> <ol style="list-style-type: none"> <li>1. If the Paperwork segment is not submitted in the Patient Event loop, it must be submitted in the Service loop.</li> <li>2. The single ACN allowed per Request must be unique for each Requester NPI (2010B.NM109).</li> <li>3. If multiple 2000F Report Type Codes (PWK01) are submitted, program coverage rules require that each PWK segment use the same ACN value in every PWK06 element. If the PWK segment is present, one, and only one, value must be present in PWK06 for all PWK segments.</li> </ol> <p>Note: The HIHs are requested to send minimum 1 and maximum of 50 alphanumeric characters accepted by esMD</p>
Example	PWK*M1*EL***AC*ACN1~

**Table 65: 2000F-PWK Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
PWK02	M	Report Transmission Code	EL	2000F.PWK02 = EL
PWK06	M	Attachment Control Number	Per esMD requirement	<p>2000F.PWK06 must be a minimum of 1 and a maximum of 50 alphanumeric characters i.e.. (A – Z, a – z, or 0 – 9). If the PWK segment is present, one, and only one, value must be present in 2000F.PWK06 and/or 2000E.PWK06 for all PWK segments.</p> <p>Note: Ensure the Attachment Control Number submitted in the X12N 275 2000A.TRN02 must = the X12N 278 2000F.PWK06.</p>

**Table 66: Transaction Set Trailer**

<b>Segment Name</b>	Transaction Set Trailer
<b>Segment ID</b>	SE
<b>Loop ID</b>	Not assigned
<b>Usage</b>	Mandatory
<b>Max Use</b>	1
<b>Segment Notes</b>	This segment ends the transaction
<b>Example</b>	SE*41*1523~

## 5. Examples of X12N 278 Request Transactions

**Note:** The examples in this document are provided as samples for reference only. Follow the configuration requirements of each table in creating appropriate transactions.

The following figures are the X12 example files for illustration purposes; no real data is included. Each loop, segment, and element would flow continuously within a single stream of data.

1. Figure 8: X12N 278 PA Request for Non-Emergent, Repetitive, Scheduled Ambulance Transport provides an example for the esMD ambulance PA program.
2. Figure 9: X12N 278 Request HPCR Single Billing Period provides an example of a single billing period request.
3. Figure 10: X12N 278 PA Request for DMEPOS provides an example of the esMD DMEPOS program.
4. Figure 11: X12 278 PA Request for HOPD provides an example of the esMD HOPD program.
5. Figure 12: Initial Pending X12N 278 Response to a Successful Submission provides an example of a response to a successful submission.
6. Figure 13: X12N 278 Multiple Billing Period Request provides an example of a multiple billing period request for HPCR.

**Figure 8: X12N 278 PA Request for Non-Emergent, Repetitive, Scheduled Ambulance Transport**

```

ISA*00*                *00*                *ZZ*TESTHIH                *ZZ*DBRRC
*190109*1534**+*00501*000165455*0*P*::~~
GS*HI*TESTHIH*DBRRC*20190109*153413*165455*X*005010X217~
ST*278*1235*005010X217~
BHT*0007*13*3920394930203*20150724*0817~
HL*1**20*1~
NM1*X3*2*REVIEW  ORG  NAME*****PI*50505~
HL*2*1*21*1~
NM1*1P*1*REQUESTERLASTNAME*REQUESTERFIRSTNAME***PH.D*XX*1111111112~
N3*REQUESTER STREET LOOP 2010B~
N4*WINDSORMILL*MD*21244~
PER*IC*DR.AMBULANCECONTACT*FX*8189991235*TE*4035556789*EX*6788~
HL*3*2*22*1~
NM1*IL*1*AMBLSUBSCRIBERLASTNAME*AMBLSUBSCRIBERFIRSTNAME*T*MR*M.D.*MI*215123556A~
N3*AMBBENEFICIARY LOOP2010C ADDR LINE 1*SUB ADDR2~
N4*WINDSORMILL*MD*21244~
DMG*D8*19511204*M~
HL*4*3*EV*1~
TRN*1*201507221235*1311235567*NEUROLOGY~
UM*HS*I*1*13:B*AA:EM:AP:ON:CA*U*3*4*Y*1~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20150901-20151030~
HI*BK:78609*BF:85135*BF:8488*BF:8471*BF:8472*BF:84510*BF:8461*BF:8502*BF:8500*BF:851
06*BF:8489*BF:8431~
HSD*FL*80~
PWK*77*FX**AC*LANCEATYACHCTLNJSWL1ND0523~
NM1*FA*2*FACILITY  ORG  NAME*****XX*1234567893~
N3*AMBSTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*DK*1*AMBORDERINGPHYLASTNAME*AMBORDERINGPHYFNAME***XX*1234567893~

```

```

N3*AMBSTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*72*1*OPERATINGPHYLASTNME*OPERATINGPHYFNAME****XX*1234567893~
N3*OPRTSTREET OPERATING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
DTP*472*RD8*20150930-20151030~
SV1*HC:A0426:22*10.50*UN*80~
PWK*77*FX***AC*LANCEATYACHCTLNJSWL1ND0523~
SE*38*1235~
GE*1*1235~
IEA*1*000001235~
    
```

**Figure 9: X12N 278 Request HPCR Single Billing Period**

```

ISA*00*          *00*          *ZZ*TESTHIH          *ZZ*111222333
*151019*1615**+*00501*000001523*0*P*::~
GS*HI*TESTHIH*111222333*20151019*1615*1523*X*005010X217~
ST*278*1523*005010X217~
BHT*0007*13*3920394956374*20151019*1615~
HL*1**20*1~
NM1*X3*2*CMS*****PI*11202~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON*M**PH.D*XX*1111111112~
N3*7111 SECURITY BLVD.~
N4*WINDSOR MILL*MD*21244~
PER*IC*CHANDRIKA*FX*8189991234*TE*8187691304*EX*518~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL*T*MS*M.D.*MI*987654321A~
N3*1245 WHIRLPOOL STREET~
N4*CHARLES TOWN*MD*21914~
DMG*D8*19591204*F~
HL*4*3*EV*1~
TRN*1*0001-202289EVENT*1311234567*EVENTSA~
UM*HS*I*56*32:A~
DTP*AAH*RD8*20211201-20211230~
HI*BK:78609*BF:85135*BF:8488~
PWK*77*EL***AC*AUG18RK~
NM1*DK*2*APOLLO FIRST****XX*1789012345~
N3*210 STATUE STREET~
N4*ABERDEEN*MD*21001~
NM1*FA*2*REGIONAL HOSPITAL****XX*1456789019~
N3*PO BOX 85205~
N4*LAUREL*MD*20707~
HL*5*4*SS*0~
TRN*1*0001-202289SERVICE1*9555555555*REQUEST1~
SV2**HC:G0151:22*10.50*UN*2~
PWK*77*EL***AC*AUG18RK~
HL*6*4*SS*0~
TRN*1*0001-202289SERVICE2*9555555555*REQUEST2~
SV2**HC:G0157:22*10.50*UN*2~
PWK*77*EL***AC*AUG18RK~
HL*7*4*SS*0~
TRN*1*0001-202289SERVICE3*9555555555*REQUEST3~
SV2**HC:G0159:22*10.50*UN*2~
PWK*77*EL***AC*AUG18RK~
SE*40*1523~
    
```

```
GE*1*1523~
IEA*1*000001523~
```

**Figure 10: X12N 278 PA Request for DMEPOS**

```
ISA*00*                *00*                *ZZ*Test HIH          *ZZ*111222333
*180830*1358**+*00501*000121797*0*T*:~
GS*HI*Test HIH*111222333*20180830*135807*121797*X*005010X217~
ST*278*121797*005010X217~
BHT*0007*13*000121797*20180830*135807~
HL*1**20*1~
NM1*X3*2*NGS*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*Guerriero*Liam*P***XX*1111111112~
N3*123 E Main Street~
N4*WINDSOR MILL*MD*21244~
PER*IC*CHRISTINE*FX*8189991234*TE*8187691304*EX*518~
HL*3*2*22*1~
NM1*IL*1*Smith*Annmarie*A***MI*216758640A~
N3*80 Main Street~
N4*WINDSOR MILL*MD*21244~
DMG*D8*19301020*F~
HL*4*3*EV*1~
TRN*1*201507221235*1311235567*NEUROLOGY~
UM*HS*I**11:B~
DTP*439*D8*20181101~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20181101-20190101~
PWK*77*EL***AC*DMEPOSPWKIN2000E~
NM1*SJ*1*Tay*Jodi****XX*1852963762~
N3*1524 Wandering Way~
N4*WINDSOR MILL*MD*21244~
NM1*DK*1*Tay*Jodi****XX*1852963762~
N3*1524 Wandering Way~
N4*WINDSOR MILL*MD*21244~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-DMEPOS*9555555555*DMEPOSREQUEST~
DTP*472*D8*20181102~
SV1*HC:K0813:TC:26**UN*1~
SE*32*121797~
GE*1*121797~
IEA*1*000121797~
```

**Figure 11: X12 278 PA Request for HOPD**

```
ISA*00*                *00*                *ZZ*Test HIH
*ZZ*831334110199922*151019*1615**+*00501*000001523*0*T*:~
GS*HI*Test HIH*831334110199922*20151019*1615*1523*X*005010X217~
ST*278*1523*005010X217~
BHT*0007*13*3920394930203*20151019*1615~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00008~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
N3*7111 SECURITY BLVD.~
```

```

N4*WINDSOR MILL*MD*21244~
PER*IC*CHRISTINE*FX*8189991234*TE*8187691304*EX*518~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL*T*MS*M.D.*MI*9127635432A~
N3*1245 WHIRLPOOL STREET~
N4*CHARLESTOWN*MD*21914~
DMG*D8*19511204*F~
HL*4*3*EV*1~
TRN*1*11768958473*1311234567*500~
UM*HS*I*56*13:A~
DTP*AAH*D8*20151210~
HI*BK:78609:D8:20150128~
PWK*77*EL***AC*cgdacabbca~
MSG*HOPD~
NM1*DK*2*PATIENT FIRST*****XX*1789012345~
N3*210 STATUE STREET~
N4*ABERDEEN*MD*21001~
NM1*DN*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSOR MILL*MD*21244~
NM1*SJ*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSOR MILL*MD*21244~
NM1*71*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSOR MILL*MD*21244~
NM1*FA*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSOR MILL*MD*21244~
NM1*72*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSOR MILL*MD*21244~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST1~
DTP*472*D8*20151211~
SV2**HC:63650:22*10.50*UN*2~
PWK*77*EL***AC*cgdacabbca~
HL*6*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST2~
DTP*472*D8*20151211~
SV2**HC:15820:25:21:23:55*12.25*UN*80~
PWK*77*EL***AC*cgdacabbca~
HL*7*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST3~
DTP*472*D8*20151211~
SV2**HC:15823:25:21:23:55*12.25*UN*80~
PWK*77*EL***AC*cgdacabbca~
HL*8*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST4~
DTP*472*D8*20151211~
SV2**HC:15822:25:21:23:55*12.25*UN*80~
PWK*77*EL***AC*cgdacabbca~
SE*60*1523~
GE*1*1523~
IEA*1*000001523~

```

**Figure 12: Initial Pending X12N 278 Response to a Successful Submission**

```

ISA*00*                *00*                *ZZ*111222333          *ZZ*894367166
*180830*1358*^*00501*000001195*0*P*:~
GS*HI*111222333*894367166*20180830*13580985*121797*X*005010X217~
ST*278*121797*005010X217~
BHT*0007*11*000121797*20180830*13580985*19~
HL*1**20*1~
NM1*X3*2*NORIDIAN*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*Guerriero*Liam*P***XX*111111112~
HL*3*2*22*1~
NM1*IL*1*Smith*Belinda****MI*384256185A~
HL*4*3*EV*1~
TRN*1* ABC000000012345*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I*1*11:B**U~
HCR*A4**0U~
MSG*Request accepted; awaiting supporting documentation~
NM1*SJ*1*Tay*Jodi****XX*1852963762~
NM1*DK*1*Tay*Jodi****XX*1852963762~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-DMEPOS*9555555555*DMEPOSREQUEST~
HCR*A4**0U~
REF*NT*ESMDNUMBER~
SE*21*121797~
GE*1*121797~
IEA*1*000001195~

```

**Figure 13: X12N 278 Multiple Billing Period Request for the esMD HPCR Program**

```

ISA*00*                *00*                *ZZ*TESTHIH          *ZZ*111222333
*151019*1615**00501*000001523*0*P*:~
GS*HI*TESTHIH*111222333*20151019*1615*1523*X*005010X217~
ST*278*1523*005010X217~
BHT*0007*13*3920394956374*20151019*1615~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*11202~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON***H*XX*111111112~
N3*REQUESTER STREET LOOP 2010B~
N4*WINDSORMILL*MD*21244~
PER*IC*DR.MULTISERVICECONTACT*FX*8189991010*TE*4035556789*EX*6788~
HL*3*2*22*1~
NM1*IL*1*SERCIVELSUBSCRIBERLASTNAME*SERCIVELSUBSCRIBERFIRSTNAME*T*MR*M.D.*MI*2151010
56A~
N3*SERCIVELBENEFICIARY LOOP2010C ADDR LINE 1*SUB ADDR2~
N4*WINDSORMILL*MD*21244~
DMG*D8*19511204*M~
HL*4*3*EV*1~
TRN*1*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32:A~
DTP*AAH*RD8*20220901-20221129~
HI*BK:78609*BF:85135*BF:8488~
HSD*FL*80~
PWK*77*FX***AC*RKMULTIPLEBP1~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~

```

```

N3*SERVICESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST1~
DTP*472*RD8*20220901-20220930~
SV2**HC:99211:25:21:23:55*12.25*UN*80~
PWK*77*FX***AC*RKMULTIPLEBP1~
HL*6*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST2~
DTP*472*RD8*20221001-20221030~
SV2**HC:99212:25:21:23:55*12.25*UN*80~
PWK*77*FX***AC*RKMULTIPLEBP1~
HL*7*4*SS*0~
TRN*1*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST3~
DTP*472*RD8*20221031-20221129~
SV2**HC:99213:25:21:23:55*12.25*UN*80~
PWK*77*FX***AC*RKMULTIPLEBP1~
SE*43*1010~
GE*1*1010~
IEA*1*000001010~
    
```

**Figure 14: X12 278 PA Single Request Example for esMD IRF**

```

ISA*00*          *00*          *ZZ*TESTHIH          *ZZ*111222333
*151019*1615**00501*000001523*0*T*:~
GS*HI*TESTHIH*111222333*20151019*1615*1523*X*005010X217~
ST*278*1523*005010X217~
BHT*0007*13*3920394930203*20151019*1615~
HL*1**20*1~
NM1*X3*2*CMS*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
N3*7111 SECURITY BLVD.~
N4*WINDSOR MILL*MD*21244~
PER*IC*CHRISTINE*FX*8189991234*TE*8187691304*EX*518~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL*T*MS*M.D.*MI*987654321A~
N3*1245 WHIRLPOOL STREET~
N4*CHARLESTOWN*MD*21914~
DMG*D8*19511204*F~
HL*4*3*EV*1~
TRN*1*11768958473*1311234567*500~
UM*HS*I*56*11:A~
DTP*AAH*D8*20151210~
PWK*77*EL***AC*SampleIRFTestRequest~
NM1*FA*2*PATIENT FIRST*****XX*1789012345~
N3*210 STATUE STREET~
N4*ABERDEEN*MD*21001~
NM1*71*2*REGIONAL HOSPITAL*****XX*1456789019~
N3*PO BOX 85205~
N4*LAUREL*MD*20707~
HL*5*4*SS*0~
DTP*472*D8*20151211~
SV2**HC:B2003:22*10.50*UN*2~
SE*29*1523~
    
```

```
GE*1*1523~  
IEA*1*000001523~
```

## 6. Health Care Services – PA/PCR Response

### 6.1 esMD Program-level Notes for X12N 005010X217 (X12N 278) PA/PCR Response

The following notes apply to X12N 00501X217 (X12N 278) PA/PCR Responses:

1. Upon initial receipt of X12N 278 Requests, esMD applies edits and responds within 20 seconds with a TA1 error message, 999 error message, or X12N 278 Response success message that indicates the request is pending.  
**Note:** Initial edit validations performed by esMD are syntactical and conformance related. The RCs perform business-related edits.
2. If the documentation supporting the request is not received within 2 business days following receipt of the request, a warning message consisting of another X12N 278 Response Pending message, is sent as a reminder that XDR or X12N 275-submitted supporting documentation is required for all PA/PCR requests received via esMD. This notification shall be generated only on business days, excluding federal holidays.
3. If the documentation supporting the request is not received within 4 business days following receipt of the request, the request is rejected as Canceled using an HCR01 value of “C” in the X12N 278 Response transaction. This notification shall be generated only on business days, excluding Federal holidays.
4. When the XDR-submitted supporting documentation is received by esMD prior to the 4-business-day limit for receipt of documentation, the documentation is matched to the pending request, and both the request and the documentation are sent to the RC for processing.
  - a. The RC will send a pickup notification for receipt of the documentation on the day the request and documentation are sent, or on the next business day.
  - b. The X12N 278 Response transaction, with an indication that the decision is now pending medical review, may be sent at least 1 business day later than the documentation pickup notification from the RC.
5. Until the RC responds with a decision or error reject, additional supporting documentation may continue to be submitted via an XDR transaction using the Content Type Code 13 or X12N 275 with the originally submitted ACN and requester NPI in the metadata but without resending the X12N 278 Request.

**Note:** Interchangeable documents cannot be sent.

6. Until the RC responds with a decision or an error reject, all X12N 278 Responses contain the minimal segments/data that are identified in the TR3 to be returned to the requester.
7. Within 10 business days, the RC sends a response which esMD translates into an X12N 278 Response with a decision or a final error reject answer. Responses may be:
  - a. Affirmed
  - b. Non-Affirmed
  - c. Modified
  - d. Rejected
  - e. Canceled (Administrative Errors)

Rejected responses contain errors in at least one of the loops for Requester, Beneficiary, Patient Event, Service, and/or Physician information.

8. esMD formats the Decision, Error Reject, or Canceled Responses from the RC into X12N 278 Responses that contain relevant inbound data segments for all loops.

9. All X12N 278 Responses sent to the HIHs contain data elements in the 2010C Patient (Subscriber) NM1 segment. The 2010C segments N3, N4, and DMG are not returned in the responses to the HIHs.
10. All final X12N 278 Responses with Affirmed (Certified in Total) or Affirmed with Changes (Modified) Decisions sent to the HIHs include:
  - a. The approved Date/Date Range in the 2000F.DTP segment where DTP01 equals 472 and the approved Quantity Qualifier and Quantity (number of units) in one of the following segments (whichever one was received in the Request and regardless of the inbound location where the Quantity was submitted):
    - i. 2000F.SV1 segment in elements 2000F.SV103 and SV104
    - ii. 2000F.SV2 segment in elements 2000F.SV204 and SV205
  - b. All DTP segments submitted in 2000E, with the exception of the Patient Event Date (DTP01 = AAH), are returned in the Response.
  - c. The 2000E and 2000F Certification Issue, Expiration, and Effective Date DTP segments are not used in the CMS PA/PCR Programs and are not sent in the Response.
  - d. Only the first five 2000E Diagnosis Codes (HI01 through HI05) submitted in the Request are returned in the Response because CMS considers only the first five diagnosis codes in the medical review.
  - e. The 2000E segments CL1, CR1, CR2, CR5, and CR6 are returned in the Response if they were submitted in the Request.
  - f. The 2000E UM segment is returned in the Response.
  - g. The 2000F UM segment is returned if it was submitted in the Request.
  - h. Any 2010EA NM1 segments received in the X12N 278 Request are returned in the 2010EA segments of the Response.
11. All outbound X12N 278 Responses sent by esMD to HIHs contain:
  - a. ISA13 with a separate Interchange Control Number sequence for each HIH:
    - i. Because there is a separate sequence set for each HIH, the HIH should receive an unbroken sequence of numbers.
    - ii. If the HIH notices a missing number in the sequence, there was a delivery failure; if the esMD Support Desk did not contact the HIH to deliver the information in the failed response, call the esMD Support Desk to request the missing transaction information.
  - b. ISA14 equals 0.
  - c. BHT02 equals 11.
  - d. The esMD 15-alphanumeric-character Transaction ID assigned to the incoming X12N 278 Request is returned to the HIH in the first TRN segment of the Response:
    - i. In the TRN02 element, the value will be returned as the esMD-assigned 15-alphanumeric-character Transaction ID.
    - ii. In the TRN03 element, the value will be returned as "9ESMDSYSTEM".
  - e. If submitted, inbound 2000E TRN segments are returned in the Response of the second and third TRN segments.
  - f. If submitted, inbound 2000F TRN segments are returned in the Response.
12. The DTP segment submitted in the 2000E loop of the X12 HHPCR and IRF 278 single BP request is returned in the response.
13. The DTP segment submitted in the 2000E, 2000F loop of the X12 HHPCR 278 multiple BP request are returned in the respective loops of the response.
14. The delimiters for esMD Responses are:

- a. The Data Element Separator is an asterisk (\*)
  - b. The Repetition Separator is a plus sign (+)
  - c. The Component Element Separator is a colon (:)
  - d. The Segment Terminator is a tilde (~)
15. Table 67: esMD X12N 278 Response Transactions provides specific information on the X12N 278 Responses sent to HIHs.
16. For every X12N 278 Response transaction sent to the HIH, esMD expects an immediate acknowledgement using the open connection in the form of a 999 Success message, a 999 Error message, or a TA1 Error message.
17. If esMD is unable to successfully deliver an X12N 278 Response transaction, delivery is retried in 4 hours. A maximum of three delivery retries are attempted.
18. Table 68: Industry AAA Codes with esMD Error Text contains the actual error message text selected by the RCs and translated by esMD into AAA Industry Codes for RC Error Rejects.
19. All esMD-specific codes used in esMD X12N 278 Response transactions are maintained in the esMD website: [https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information\\_for\\_HIHs.html](https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html). If changes are made, the website will be updated.

**Table 67: esMD X12N 278 Response Transactions**

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
1.a.	Initial Submission Response within 20 seconds	Error occurring above the 2000A level	Failure: TA1 or 999	Applicable erroneous loop, segment, element	This covers errors in the Interchange Control Header (ISA) or the Functional Group Header (GS). If the data is corrupted in such a way that it cannot be read, a TA1 is sent; If the ISA segment length exceeds 106 in length, a TA1 is sent; otherwise, a 999 error is sent.
1.b.	Initial Submission Response within 20 seconds	Error occurring at the 2010A level	Error code	<ol style="list-style-type: none"> <li>1. BHT06 = 18</li> <li>2. AAA03 = 79</li> <li>3. The first 2000E TRN segment contains the esMD-assigned 15-alphanumeric-character Transaction ID:                             <ul style="list-style-type: none"> <li>a. 2000E.TRN01 = 1</li> <li>b. 2000E.TRN02 = esMD Transaction ID</li> <li>c. TRN03 = 9 ESMDSYSTEM</li> </ul> </li> </ol>	This covers errors in the UMO Name segment. ErrorCode>Failure</ErrorCode> <ErrorMessage>FAILURE-ROID provided under ReceiverID element is not associated with the Workload Number provided at 2010A/NM109</ErrorMessage>
1.c.	Initial Submission Response within 20 seconds	Error occurring below the 2010A level	999 failure	Any applicable erroneous loop, segment, or element	This covers edits for all loops, segments, and elements from 2010B through 2010F.
1.d.	Initial Submission Response	Successful submission	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 = 19</li> <li>2. 2000E.HCR01 = A4</li> </ol>	The inbound Request remains pending in esMD until receipt of accompanying documentation via

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
	within 20 seconds			<ol style="list-style-type: none"> <li>3. 2000E.HCR03 = 0U (zero, U)</li> <li>4. The first 2000E TRN segment contains the esMD-assigned 15-alphanumeric-character Transaction ID:                             <ol style="list-style-type: none"> <li>a. 2000E.TRN01 = 1</li> <li>b. 2000E.TRN02 = esMD Transaction ID TRN03 = '9 ESMDSYSTEM'</li> </ol> </li> <li>5. 2000E.MSG01 = "Request accepted; awaiting supporting documentation"</li> </ol>	XDR transaction. Documentation may be sent immediately upon receipt of the successful submission message. Additional supporting documentation may continue to be sent using the Content Type Code 13 or an X12N 275 transaction for a Health Care Services Review (ASC X12N/00602X316) and without resending the X12N 278 PA/PCR Request, until a Decision or an Error Reject Response is received from the RC.
2.a.	Waiting for Delivery to RC	2-Business Day Warning	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 = 19</li> <li>2. 2000E.HCR01 = A4</li> <li>3. 2000E.HCR03 = 0P (zero, P)</li> <li>4. The first 2000E.TRN segment as defined in row 1.d. above</li> <li>5. 2000E.MSG01 = "Request pending; documentation should be sent immediately"</li> </ol>	This response is a warning that supporting documentation is still pending. Only 2 business days remain in which it may be submitted via an XDR or X12N 275 transaction. This notification shall be generated only on business days and excluding Federal holidays
2.b.	Waiting for Delivery to RC	4-Business Day Reject	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 = 18</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above</li> <li>3. 2000E.HCR01 = C</li> <li>4. 2000E.HCR03 = 0P (zero, P)</li> <li>5. 2000E.MSG01 = "Supporting documentation was not received within the time limit; resubmit your request along with supporting documentation"</li> </ol>	This response rejects the pending Request as being Canceled because the pending supporting documentation was not submitted within 4 business days of receipt of the Request. This notification shall be generated only on business days and excluding Federal holidays
3.	Pended Response	RC Pickup Notification	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 = 19</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above</li> <li>3. 2000E.HCR01 = A4</li> <li>4. 2000E.HCR03 = 0B (zero, B)</li> <li>5. 2000E.MSG01 = "Medical Review in</li> </ol>	<ol style="list-style-type: none"> <li>1. When the supporting documentation is received in esMD, it is matched with the pending Request using the Requester's NPI and the ACN that was initially submitted in the X12N 278 Request transaction (in the PWK06 element in loop 2000F or 2000E) and which was</li> </ol>

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
				<p>progress; awaiting decision”</p>	<p>included as a metadata element of the XDR transaction or X12 275 containing the documentation.</p> <p>2. The RC sends an Extensible Markup Language (XML) RC pickup notice and esMD generates the X12N 278 Response described here, to be sent to the HIH.</p>
4.a.	RC Response	Certified in total (Affirmed Decision)	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 = 18</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above</li> <li>3. 2000E.HCR01 and 2000F.HCR01 = A1</li> <li>4. 2000E.HCR02 and 2000F.HCR02 = RC issued Unique Tracking Number (UTN) value</li> <li>5. 2000E.HCR segment is not sent for HHPCR response. Only 2000F.HCR segment is sent, where HCR01= A1 and HCR02 = RC issued UTN value.</li> <li>6. 2000E.HCR03, 2000E.HCR04, 2000F.HCR03 and 2000F.HCR04 are not sent.</li> <li>7. The approved quantity is returned in 2000F.SV1/SV2.</li> <li>8. The approved Service Date/Date Range is returned in 2000F.DTP, where DTP01 equals 472.</li> </ol>	<ol style="list-style-type: none"> <li>1. The RC provides an Affirmed decision following review of the Request and documentation.</li> <li>2. All relevant loops and segments from the Request are sent in the Response.</li> </ol>
4.b.	SSM Response	Partially Affirmed	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 = 18.</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above.</li> <li>3. 2000E.HCR01 = A2 and 2000F.HCR01 can be any combination of A1, A3, and A6 in any order.</li> </ol>	<ol style="list-style-type: none"> <li>1. The SSM provides an “Affirmed with Changes” decision. Changes may apply only for the PA Programs for Non-Emergent, Repetitive, Scheduled, and Ambulance Transport.</li> <li>2. The changes may be to either the number of units (trips/treatments) or to the requested service date/date range or to both the number of units and the date/date range.</li> </ol>

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
				<ol style="list-style-type: none"> <li>4. For HHPCR, 2000E.HCR01= A2 is not sent.</li> <li>5. 2000E and 2000F.HCR02 = UTN.</li> <li>6. 2000E.HCR03 is not sent.</li> <li>7. 2000F and 2000E.HCR04 are empty.</li> <li>8. 2000E.REF01 is not sent.</li> <li>9. 2000E.REF02 is not sent.</li> <li>10. The approved quantity is returned in 2000F.SV1/SV2.</li> <li>11. The approved Service Date/Date Range is returned in 2000F.DTP, where DTP01 = 472.</li> <li>12. All other DTP segments, except where DTP01 = AAH, is returned in the Response if it was submitted in the Request.</li> <li>13. 2000E.MSG01 contains the Program Reason Codes if RC sends one or more Modified Affirmed and/or Non-Affirmed Decision indicator(s) in service lines.2000F.MSG01 contains the Program Reason Codes(s) for the Non-Affirmed decision 0 indicator only.</li> </ol>	<ol style="list-style-type: none"> <li>3. In addition, the RC may provide a PA/PCR Program Reason Code(s) indicating the reason(s) for the change.</li> <li>4. If present, the Reason code(s) is in the form of a five-character code(s) in the MSG segment, up to a maximum of 10 codes.</li> <li>5. To determine which loop(s) are used for the MSG segment, esMD looks for a TRN segment.</li> <li>6. A TRN segment is always present in the 2000E loop, so the MSG segment is sent in the 2000E loop.</li> <li>7. If there are TRN segments in both the 2000E and 2000F loops, then the MSG segment is sent in both loops.</li> <li>8. All relevant loops and segments from the Request are sent in the Response.</li> </ol>
4.b.1	RC Response	278/HCR	Modified Decision	<ol style="list-style-type: none"> <li>1. BHT06 = 18</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above.</li> <li>3. 2000F and 2000E .HCR01=A6.</li> <li>4. The approved quantity is returned in 2000F.SV1/SV2</li> </ol>	<ol style="list-style-type: none"> <li>1. The SSM provides an “Affirmed with Changes” decision. Changes may apply only for the PA Programs for Non-Emergent, Repetitive, Scheduled, and Ambulance Transport.</li> <li>2. The changes may be to either the number of units (trips/treatments) or to the requested service date/date range or to both the number of units and the date/date range.</li> </ol>

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
					<ol style="list-style-type: none"> <li>3. In addition, the RC may provide a PA/PCR Program Reason Code(s) indicating the reason(s) for the change.</li> <li>4. If present, the Reason code(s) is in the form of a five-character code(s) in the MSG segment, up to a maximum of 10 codes.</li> <li>5. To determine which loop(s) are used for the MSG segment, esMD looks for a TRN segment.</li> <li>6. A TRN segment is always present in the 2000E loop, so the MSG segment is sent in the 2000E loop.</li> <li>7. If there are TRN segments in both the 2000E and 2000F loops, then the MSG segment is sent in both loops. All relevant loops and segments from the Request are sent in the Response.</li> </ol>
4.c.	SSM Response	Non-Affirmed Decision	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 equals 18</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above</li> <li>3. 2000F.HCR01 and 2000E.HCR01 equal A3</li> <li>4. 2000F.HCR02 and 2000E.HCR02 are empty</li> <li>5. 2000F.HCR03 and 2000E.HCR03 contain the Industry denial codes sent by the RC</li> <li>6. 2000F.HCR04 and 2000E.HCR04 are empty</li> <li>7. 2000F.REF01 and 2000E.REF01 equal NT</li> <li>8. 2000F.REF02 and 2000E.REF02 equal the UTN sent by the RC</li> <li>9. 2000E.MSG01 and/or 2000F.MSG01 contains the Program Reason Code(s) sent by the RC</li> </ol>	<ol style="list-style-type: none"> <li>1. The SSM provides a “Non-Affirmed” decision.</li> <li>2. The SSM reviewer must enter at least one up to a maximum of five “Industry Denial Code(s)”, indicating the actual reason for the denial.</li> <li>3. The SSM must also provide at least one PA/PCR Program Reason Code indicating the reason(s) for the denial.</li> <li>4. These codes are sent in the form of a set of 5-character code(s) from one to a maximum of 10 in the MSG segment of the response.</li> <li>5. To determine which loop(s) are used for the MSG segment, esMD looks for a TRN segment.</li> <li>6. A TRN segment is always present in the 2000E loop</li> <li>7. All relevant loops and segments from the Request are sent in the Response.</li> <li>8. MSG segment is not sent in 2000E when there are multiple services.</li> </ol>

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
				<ol style="list-style-type: none"> <li>10. For HHPCR, 2000E.HCR segment is not sent.</li> <li>11. For HHPCR, 2000F.HCR01 equals A3, HCR02=empty, HCR03 contains the industry code.</li> </ol>	
4.d	SSM Response	Canceled Decision Response	278/HCR	<ol style="list-style-type: none"> <li>1. BHT06 equals 18</li> <li>2. The first 2000E.TRN segment as defined in row 1.d. above</li> <li>3. 2000E.HCR01 equal C</li> <li>4. 2000E.HCR02 is empty</li> <li>5. 2000E.HCR03 is empty</li> <li>6. 2000E.HCR04 is empty</li> <li>7. 2000E.MSG01 contains the Administrative Error Code(s) sent by the RC</li> </ol>	<ol style="list-style-type: none"> <li>1. The SSM sends Administrative errors, and the RC reviewer will enter an error code.</li> <li>2. All relevant loops and segments from the Request are sent in the Response.</li> </ol>
4.e.1	SSM Response	Error Reject Response	278/AAA	<ol style="list-style-type: none"> <li>1. BHT06 = 18</li> <li>2. The RC may send AAA errors at the 2010B, 2010C, 2000E, 2010EA, and/or 2000F, and/or 2010FA level(s). (continued on next page)</li> </ol>	The SSM reviews the Request and its supporting documentation, identifies the errors at all possible levels of information, and sends the reject-response. The RC reviewer may enter one or multiple errors, choosing the appropriate category under which the errors occur.
4.e.2	SSM Response	Error Reject Response	278/AAA	<ol style="list-style-type: none"> <li>3. See Table 68: Industry AAA Codes with esMD Error Text for the Error-Reject-Messages and the possible element locations and values at each level. Error code 33, when received in a 2000E AAA segment, may represent any of the business situations below and the 5-character PA/PCR Program Reason Codes provide identification of the specific error: (continued on next page)</li> </ol>	<ol style="list-style-type: none"> <li>1. Some error codes may be used for multiple error conditions. An example is the error code 44, which may be used as follows:                         <ol style="list-style-type: none"> <li>a. First and/or Last name is missing/invalid;</li> <li>b. NPI does not match the Name of the Physician.</li> </ol> </li> <li>2. In addition, the SSM must provide at least one Program Reason Code indicating the reason for the rejection.</li> <li>3. If a UTN was provided in the Reject Response, the UTN is sent in the MSG segment in the MSG01 element with the four characters "UTN:" preceding the UTN and with a delimiter at the end of the 50 characters allowed for the UTN.</li> <li>4. The Program Reason Code(s) is sent in the form of a set of five-character code(s), from one to a maximum of 10 or 25 codes, in</li> </ol>

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
					<p>the MSG segment of the response. The Program Reason Code(s) follows the delimiter for the UTN, if a UTN was provided; otherwise, the Program Reason Code(s) begins in position 1. (If the Workload Response file has a Reject Response, it is limited to 10 Program Reason Codes. If the Reject Response is being sent via the RC Client software, there are 25 Program Reason Codes allowed by the RC Client.)</p> <p>5. If there is only one service loop, then the MSG segment may be sent in both the 2000E and the 2000F loops. If there are multiple service loops, the MSG segment should be sent in only the 2000E loop.</p>
4.e.3	SSM Response	Error Reject Response	278/AAA	<ul style="list-style-type: none"> <li>a. Request sent to wrong SSM – Ambulance PA Reason Codes = AMB1A, AMB1B, AMB1C, or AMB1D;</li> <li>b. Request does not fall under the pilot states – AMB PA Reason Codes = AMB1E;</li> <li>c. SSM marked the request as duplicate – AMB PA Reason Code = AMB1F;</li> <li>d. The beneficiary has a Representative Payee assigned and is not subject to the PA process or the 25% payment reduction for this service – AMB PA Reason Code = AMB1K;</li> </ul> <p>(continued on next page)</p>	No additional information to present.
4.e.4	RC Response	Error Reject Response	278/AAA	<ul style="list-style-type: none"> <li>e. An appropriate Error Category/Error Code cannot be</li> </ul>	No additional information to present.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
				<p>determined for a Reject situation encountered by the SSM- AMB PA Reason Code = AMB?Z (The SSMs use the best choice of the available Z codes).</p> <p>f. The Business Owner will provide similar PA/PCR Reason Codes for the other PA/PCR Programs.</p> <p>g. These error situations are in addition to the original error defined in Appendix A for the Medical-Info error code = 33</p> <p>4. MSG01 contains the PA/PCR Program Reason Code(s) sent by the SSM for the Error Reject Responses.</p> <p>5. If the errors occur above the 2000F loop, the PA/PCR Program Reason Codes are returned in the 2000E loop; otherwise, they are returned in both the 2000E and 2000F loop.</p>	

**Table 68: Industry AAA Codes with esMD Error Text**

Row #	Category (Loop)	Business Process Activity / Condition to Satisfy	AAA03 – Reject Reason Code
1	Utilization Management Organization (2000A & 2010A)	Valid RC 5-digit Workload # must be present	This covers errors in the UMO Name segment. ErrorCode>Failure</ErrorCode> <ErrorMessage>FAILURE-OID provided under ReceiverID element is not associated with the Workload Number provided at 2010A/NM109</ErrorMessage>
2	Requester (2010B)	Requester - NPI must be present, be numeric, begin with "1", pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification

Row #	Category (Loop)	Business Process Activity / Condition to Satisfy	AAA03 – Reject Reason Code
3	Requester (2010B)	Requester - First and Last Name or Organization Name must be present	44 - Invalid/Missing Provider Name
4	Requester (2010B)	Requester - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
5	Requester (2010B)	NPI and Name of the Requester must be for the same person and match in the database	44 - Invalid/Missing Provider Name
6	Requester (2010B)	Requester - State must be a Pilot state	35 - Out of Network (interpretation is not a pilot state)
7	Beneficiary (2010C)	Beneficiary (MBI) must be present and be alphanumeric	72 - Invalid/Missing Patient ID
8	Beneficiary (2010C)	Beneficiary (Gender Code) must be present and valid	66 - Invalid/Missing Patient Gender Code
9	Beneficiary (2010C)	Beneficiary First and Last names must not be blank	44 - Invalid/Missing Patient Name
10	Beneficiary (2010C)	Beneficiary Date of Birth must NOT be blank, must be a valid date, and must NOT be a future date	58 - Invalid/Missing Date-of-Birth
12	Beneficiary (2010C)	Beneficiary - MBI / Name combination must be valid	73- MBI number and name combination - invalid
13	Ordering MD (2010EA)	X12N 278 Response - Ordering/Referring Physician - NPI must be present, numeric, begin with "1", pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification
14	Ordering MD (2010EA)	X12N 278 Response - Ordering/Referring Physician - First and Last Name or Organization Name must be present	44 - Invalid/Missing Provider Name
15	Ordering MD (2010EA)	X12N 278 Response - Ordering/Referring Physician - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
16	Ordering MD (2010EA)	X12N 278 Response - NPI and Name of Ordering/Referring Physician must be for the same person and match in the database	44 - Invalid/Missing Provider Name
17	Ordering MD (2010EA)	X12N 278 Response - Ordering/Referring Physician State must be a valid/pilot state	35 - Out of Network (interpretation is not a pilot state)
18	Rendering MD / Supplier (2010EA)	X12N 278 Response - Rendering Physician - NPI must be present, numeric, begin with "1", pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification
19	Rendering MD/Supplier (2010EA)	X12N 278 Response - Rendering Physician - First and Last Name or Organization Name must be present	44 - Invalid/Missing Provider Name
20	Rendering MD/Supplier (2010EA)	X12N 278 Response - Rendering Physician - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
21	Rendering MD/Supplier (2010EA)	X12N 278 Response - NPI and Name of the Rendering physician must be for the same person and match in the database	44 - Invalid/Missing Provider Name
22	Rendering MD/Supplier (2010EA)	X12N 278 Response - Rendering Physician State must be a valid/pilot state	35 - Out of Network (interpretation is not a pilot state)

Row #	Category (Loop)	Business Process Activity / Condition to Satisfy	AAA03 – Reject Reason Code
23	Facility (2010EA)	X12N 278 Response - Facility - NPI must be present, numeric, begin with “1”, pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification
24	Facility (2010EA)	X12N 278 Response - Facility - Organization name (last name) must be present	44 - Invalid/Missing Provider Name
25	Facility (2010EA)	X12N 278 Response - Facility - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
26	Facility (2010EA)	X12N 278 Response - NPI and Name of the Facility must be for the same organization and match in the database	44 - Invalid/Missing Provider Name
27	Facility (2010EA)	X12N 278 Response - Facility State must be a valid/pilot state	35 - Out of Network (interpretation is not a pilot state)
28	Operating (2010EA)	X12N 278 Response - Facility - NPI must be present, numeric, begin with “1”, pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification
29	Operating (2010EA)	X12N 278 Response - Facility - Organization name (last name) must be present	44 - Invalid/Missing Provider Name
30	Operating (2010EA)	X12N 278 Response - Facility - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
31	Operating (2010EA)	X12N 278 Response - NPI and Name of the Facility must be for the same organization and match in the database	44 - Invalid/Missing Provider Name
32	Operating (2010EA)	X12N 278 Response - Facility State must be a valid/pilot state	35 - Out of Network (interpretation is not a pilot state)
33	Referring (2010EA)	X12N 278 Response - Facility - NPI must be present, numeric, begin with “1”, pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification
34	Referring (2010EA)	X12N 278 Response - Facility - Organization name (last name) must be present	44 - Invalid/Missing Provider Name
35	Referring (2010EA)	X12N 278 Response - Facility - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
36	Referring (2010EA)	X12N 278 Response - NPI and Name of the Facility must be for the same organization and match in the database	44 - Invalid/Missing Provider Name
37	Referring (2010EA)	X12N 278 Response - Facility State must be a valid/pilot state	35 - Out of Network (interpretation is not a pilot state)
38	Attending (2010EA)	X12N 278 Response - Facility - NPI must be present, numeric, begin with “1”, pass algorithm validation, and be found in the crosswalk	51 - Invalid/Missing Provider Identification
34	Attending (2010EA)	X12N 278 Response - Facility - Organization name (last name) must be present	44 - Invalid/Missing Provider Name

Row #	Category (Loop)	Business Process Activity / Condition to Satisfy	AAA03 – Reject Reason Code
35	Attending (2010EA)	X12N 278 Response - Facility - Address line(s), city, state, and zip must be present and valid	97 - Invalid or Missing Provider Address
36	Attending (2010EA)	X12N 278 Response - NPI and Name of the Facility must be for the same organization and match in the database	44 - Invalid/Missing Provider Name
37	Attending (2010EA)	X12N 278 Response - Facility State must be a valid/pilot state	35 - Out of Network (interpretation is not a pilot state)
38	Medical-Info (2000E or 2000F)	X12N 278 Response - Diagnosis Code Qualifier must be valid if present	AF - Invalid/Missing Diagnosis Code(s)
39	Medical-Info (2000E or 2000F)	X12N 278 Response - Diagnosis Code must be valid for the Diagnosis Code Qualifier	AF - Invalid/Missing Diagnosis Code(s)
40	Medical-Info (2000E or 2000F)	X12N 278 Response - Procedure Code must be present and valid for the PA/PCR Program	AG - Invalid/Missing Procedure Code(s)
41	Medical-Info (2000E or 2000F)	X12N 278 Response - Procedure Code must be valid for the Diagnosis Code	AG - Invalid/Missing Procedure Code(s)
42	Medical-Info (2000E or 2000F)	X12N 278 Response - Procedure Code Qualifier must be present and valid for the Procedure Code	AG - Invalid/Missing Procedure Code(s)
43	Medical-Info (2000E or 2000F)	X12N 278 Response - Procedure Code Modifier (if present) must be valid for the Procedure Code	AG - Invalid/Missing Procedure Code(s)
44	Medical-Info (2000E or 2000F)	X12N 278 Response - Requested Number of Units (visits/trips/etc.) must be present, numeric, and greater than zero	15 - Required application data missing
45	Medical-Info (2000E or 2000F)	X12N 278 Response - Proposed Date/Date Range must be present and valid	57 - Invalid/Missing Date(s) of Service
46	Medical-Info (2000E or 2000F)	X12N 278 Response - Place of Service must be present and valid	33 - Input Errors

## 6.2 Interchange Control Structure Specification – X12N 278 Response

Table 69: Response Interchange Control Header through Table 74: Interchange Control Trailer define the use of this control structure as it relates to communication from esMD for the request X12N 278 Response transaction.

**Table 69: Response Interchange Control Header**

Segment Name	Interchange Control Header		
Segment ID	ISA		
Loop ID	Not assigned		
Usage	Mandatory		
Max Use	1		
Segment Notes	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 Identifier, <i>ISA</i> , defines the data elements separator. The last character in the segment defines the component element separator, and the segment terminator is the byte that immediately follows the component element separator. Following are examples of the separators. The values listed are those used by esMD for all Response transactions.		
	*	Asterisk	Data Element Separator
	+	Plus	Repetition Separator
	:	Colon	Component Element Separator
	~	Tilde	Segment Terminator
Example	ISA*00* *00* *ZZ*DBRRC *ZZ*TESTHIH *190318*1026**^*00501*000000020*0*P*+~		

**Table 70: 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, i.e., 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 Qualifiers must be ZZ.
ISA06	M	Interchange Sender ID	RC EDI ID	esMD uses the registered RC EDI ID ISA06, left justified with trailing spaces to fill the 15 characters, while sending the response to HIH.
ISA07	M	Interchange ID Qualifier (Receiver)	ZZ	The Interchange ID Qualifiers must be ZZ.
ISA08	M	Interchange Receiver ID	HIH EDI ID	esMD uses the registered HIH EDI ID in ISA08, left justified with trailing spaces to fill the 15 characters, while sending the response to HIH.
ISA09	M	Interchange Date	Transaction Date	esMD uses the format YYMMDD
ISA10	M	Interchange Time	Transaction Time	esMD uses the format HHMM
ISA13	M	Interchange Control Number	Control Number	esMD sends the control number in the responses in incremental order using a separate sequence for each HIH. If the HIH notices a break in the sequence, a response is missing.
ISA14	M	Acknowledgment Requested	0	ISA14 will always be set to 0 (zero).

**Table 71: Functional Group Header**

Segment Name	Functional Group Header
Segment ID	GS
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	Indicates the beginning of a functional group and to provide control information
Example	GS*HI*DBRRC*TESTHIH*20190318*102655*187597*X*005010X217~

**Table 72: GS Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
GS02	M	Application Sender's Code	RC EDI ID	Enter the value from ISA06 into GS02
GS03	M	Application Receiver's Code	HIH EDI ID	Enter the value from ISA08 into GS03.
GS04	M	Date	Transaction Date	esMD uses the format CCYYMMDD
GS05	M	Time	Transaction Time	esMD uses the format HHMMSSDD

**Table 73: Functional Group Trailer**

Segment Name	Functional Group Trailer
Segment ID	GE
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	Indicates the end of a functional group and to provide control information
Example	GE*1*1523~

**Table 74: Interchange Control Trailer**

Segment Name	Interchange Control Trailer
Segment ID	IEA
Loop ID	Not assigned
Usage	Mandatory
Segment Notes	Defines the end of an interchange control segment
Example	IEA*1*000001523~

## 6.3 Segment Usage – X12N 278 Response

This section lists the usage of levels, loops, and segments that are required to support esMD PA/PCR Program Responses sent to HIHs.

In responses to the X12N 278 Requests received by esMD, Table 75: X12N 278 Response Segments shows the loops, segments, and elements in responses generated by esMD. These responses comply with the *ASC X12N/005010X217 (278) TR3 Implementation Guide*. The various types of response transactions in Table 75 contain the following values in the Usage columns: Mandatory (M), Conditional (C), or Not Sent (NS).

The esMD generated X12N 278 Responses identified in Table 75: X12N 278 Response Segments contain the usage values identified above for the following Business Situations:

1. 20-S: Initial Successful Submission Pending Response (sent within 20 seconds of receipt and after validating the Request).
2. 20-S Err: Initial 999 error.
3. 2D: Two-Business Day Warning (documentation has not been received).
4. 4D: Four-Business Day Cancelation (documentation not received timely).
5. PU: RC Pickup Notification – awaiting Medical Review.
6. AF: Affirmed Decision Response.
7. NAF: Non-Affirmed Decision Response.
8. M: Modified Decision Response.
9. ERR - SSM: Shared System (Fiscal Intermediary Shared System (FISS), Multi-Carrier System (MCS), or Viable Information Processing System (VIPS) Medicare System (VMS)).
10. PA: Partially Affirmed Decision Response.

**Note:** The below error responses are received from the Review Contractors when the Supporting Documentation is received in XDR format with CTC-13.

11. ERR-RC: RC Error Reject Response.
12. AEC: Admin Error Cancelation.

**Table 75: X12N 278 Response Segments**

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	M	ERR-SSM	PA	ERR-RC	AEC
ST	Not assigned	Transaction Set Header	M	M	M	M	M	M	M	M	M	M	M	M
BHT	Not assigned	Beginning of Hierarchical Transaction	M	M	M	M	M	M	M	M	M	M	M	M
HL	Loop ID-2000A	Utilization Management Organization (UMO) Level	M	M	M	M	M	M	M	M	M	M	M	M
NM1	Loop ID-2010A	Utilization Management Organization (UMO) Name	M	M	M	M	M	M	M	M	M	M	M	M
AAA	2010A	Utilization Management Organization (UMO) Request Validation	NS	M	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	M	ERR-SSM	PA	ERR-RC	AEC
HL	Loop ID-2000B	Requester Level	M	NS	M	M	M	M	M	M	M	M	M	M
NM1	Loop ID-2010B	Requester Name	M	NS	M	M	M	M	M	M	M	M	M	M
AAA	2010B	Requester Request Validation	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	NS	NS
PRV	2010B	Requester Provider Information	NS	NS	NS	NS	NS	C	C	C	C	C	C	NS
HL	Loop ID-2000C	Subscriber Level	M	NS	M	M	M	M	M	M	M	M	M	M
NM1	Loop ID-2010C	Subscriber Name	M	NS	M	M	M	M	M	M	M	M	M	M
AAA	2010C	Subscriber Request Validation	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	NS	NS
HL	Loop ID-2000E	Patient Event Level	M	NS	M	M	M	M	M	M	M	M	M	M
TRN	2000E	Patient Event Tracking Number (esMD Transaction ID)	M	NS	M	M	M	M	M	M	M	M	M	M
TRN	2000E	Patient Event Tracking Number	C	C	C	C	C	C	C	C	C	C	C	C
AAA	2000E	Patient Event Request Validation	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	NS	NS
UM	2000E	Patient Event Health Care Services Review Information	M	M	M	M	M	M	M	M	M	M	M	M
HCR	2000E	Patient Event Health Care Services Review	M	NS	M	M	M	C	C	M	NS	C	NS	M

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	M	ERR-SSM	PA	ERR-RC	AEC
HI	2000E	Patient Diagnosis	C	C	C	C	C	C	C	C	C	C	C	C
REF	2000E	Patient Event Administrative Reference Number	NS	NS	NS	NS	NS	NS	M	NS	NS	NS	NS	NS
DTP	2000E	Accident Date	NS	NS	NS	NS	NS	C	C	C	C	C	C	C
DTP	2000E	Last Menstrual Period Date	NS	NS	NS	NS	NS	C	C	C	C	C	C	C
DTP	2000E	Estimated Date of Birth	NS	NS	NS	NS	NS	C	C	C	C	C	C	C
DTP	2000E	Onset of Current Symptoms or Illness Date	NS	NS	NS	NS	NS	C	C	C	C	C	C	C
DTP	2000E	Event Date	NS	NS	NS	NS	NS	NS	NS	NS		NS	C	C
HSD	2000E	Patient Event Health Care Services Delivery	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	C	NS
CL1	2000E	Institutional Claim Code	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CR1	2000E	Ambulance Transport Information	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CR2	2000E	Spinal Manipulation Service Information	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CR5	2000E	Home Oxygen Therapy Information	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CR6	2000E	Home Health Care Information	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	M	ERR-SSM	PA	ERR-RC	AEC
MSG	2000E	Patient Event Message Text	M	NS	M	M	M	NS	M	C	NS	C	C	M
NM1	Loop ID-2010EA	Patient Event Provider Name	M	NS	NS	NS	NS	C	C	C	C	C	C	C
N3	2010EA	Patient Event Provider Address	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	C	NS
N4	2010EA	Patient Event Provider City, State, Zip Code	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	C	NS
AAA	2010EA	Patient Event Provider Request Validation	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	M	NS
HL	Loop ID-2000F	Service Level	M	NS	M	M	C	M	M	M	M	M	M	M
TRN	2000F	Service Trace Number	C	NS	C	C	C	C	C	C	C	C	C	M
AAA	2000F	Service Request Validation	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	NS	NS
UM	2000F	Service Health Care Services Review Information	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	NS	NS
HCR	2000F	Service Health Care Services Review	M	NS	NS	NS	NS	M	M	M	NS	M	NS	NS
REF	2000F	Service Administrative Reference Number	M	NS	NS	NS	NS	NS	M	NS	NS	C	NS	NS
DTP	2000F	Service Date	NS	NS	NS	NS	NS	C	C	C	C	M	C	NS
SV1	2000F	Professional Service	NS	NS	NS	NS	NS	C	C	C	C	C	C	NS

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	M	ERR-SSM	PA	ERR-RC	AEC
SV2	2000F	Institutional Service Line	NS	NS	NS	NS	NS	C	C	C	C	C	C	NS
HSD	2000F	Service Health Care Services Delivery	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MSG	2000F	Service Message Text	NS	NS	NS	NS	NS	NS	M	C	NS	C	C	NS
AAA	2010FA	Service Provider Request Validation	NS	NS	NS	NS	NS	NS	NS	NS	C	NS	NS	NS
SE	Not assigned	Transaction Set Trailer	M	M	M	M	M	M	M	M	M	M	M	M

## 6.4 Segment and Data Element Description

Table 76: Segment and Data Element Description through Table 147: Transaction Set Trailer represent segments as Mandatory (M), Conditional (C), or Not Used (N/U) for the esMD implementation of the X12N 278 transaction. Each segment table contains rows and columns describing different elements of the segment.

**Table 76: 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 where the segment should appear.
Usage	Identifies the segment as required or conditional
Max Use	Maximum iterations of segment allowed in request.
Segment Notes	A brief description of the purpose or use of the segment including esMD-specific usage.
Example	An example of the segment.
Reference Designator	Identifies the TR3 standard industry-assigned element ID.
Usage	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 that are used by esMD. If any columns contain the value “Refer to TR3,” it indicates that there are no fixed values defined for that element and any value available in the TR3 may be used. esMD assigns the value either as per the TR3 guideline or based on an esMD requirement. If any columns contain the value “Per esMD requirement,” it indicates an esMD-specific requirement for the X12N 278 Response.
esMD Requirement or Element Description	Description of the contents of the data elements or esMD specific requirement notes.

**Table 77: Transaction Set Header**

Segment Name	Transaction Set Header
Segment ID	ST
Loop ID	Not assigned
Usage	Required
Max Use	1
Segment Notes	This segment indicates the start of the transaction.
Example	ST*278*0051*005010X217~

**Table 78: Beginning of Hierarchical Transaction**

Segment Name	Beginning of Hierarchical Transaction
Segment ID	BHT
Loop ID	Not assigned
Usage	Required
Max Use	1
Segment Notes	<ol style="list-style-type: none"> <li>1. This segment identifies the transaction as a response and contains the transaction creation date and time.</li> <li>2. The Transaction Type Code must be either "18" or "19".</li> </ol>
Example	BHT*0007*11*3920394930203*20161101*16154538*18~

**Table 79: BHT Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
BHT04	M	Transaction Set Creation Date	Per esMD requirement	esMD uses the format CCYYMMDD
BHT05	M	Transaction Set Creation Time	Per esMD requirement	esMD uses the format HHMMSSDD
BHT06	M	Transaction Type Code	18 19	BHT06 = 18 (final response): <ol style="list-style-type: none"> <li>1. Initial Submission Response within 20 seconds - Error occurring at the 2010A level;</li> <li>2. Waiting for Delivery to RC – 4-Business Day Cancellation;</li> <li>3. RC Response - Certified in total (Affirmed Decision);</li> <li>4. RC Response - Modified (Affirmed with Changes Decision);</li> <li>5. RC Response - Non-Affirmed Decision;</li> <li>6. RC Response - Error Reject Response;                             <ol style="list-style-type: none"> <li>a. The RC may send AAA errors at the 2010B, 2010C, 2000E, 2010EA, 2000F, and/or 2010FA level(s);</li> </ol> </li> </ol>

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				b. See Table 68: Industry AAA Codes with esMD Error Text for the Error-Reject-Messages and the possible element locations and values at each level. BHT06 = 19 (updates to follow): <ol style="list-style-type: none"> <li>1. Initial Submission Response within 20 seconds - Successful submission;</li> <li>2. Waiting for Delivery to RC – 2-Business Day Warning;</li> <li>3. Delivered to RC - RC Pickup Notification.</li> </ol>

**Table 80: UMO Level**

Segment Name	UMO Level
Segment ID	HL
Loop ID	2000A
Usage	Required
Max Use	1
Segment Notes	This segment defines the UMO level hierarchy.
Example	HL*1**20*1~

**Table 81: UMO Name**

Segment Name	UMO Name
Segment ID	NM1
Loop ID	2010A
Usage	Mandatory
Max Use	1
Segment Notes	This segment identifies the organization that conducted the medical review.
Example	NM1*X3*2*NORIDIAN JA*****PI*16013~

**Table 82: 2010A-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	X3	X3 – Utilization Management Organization
NM102	M	Entity Type Qualifier	2	2 - Non-Person Entity
NM108	M	Identification Code Qualifier	PI	PI – Payer ID
NM109	M	Utilization Management Organization (UMO) identifier	RC 5-digit Workload #	2010A.NM109 = RC 5-digit Workload #. The X12N 275 1000B.NM109 must = the X12N 278 2010A.NM109.

**Table 83: UMO Request Validation**

<b>Segment Name</b>	<b>UMO Request</b>
<b>Segment ID</b>	MSG
<b>Loop ID</b>	2010A
<b>Usage</b>	Conditional
<b>Max Use</b>	9
<b>Segment Notes</b>	This segment specifies the validity of the request and indicates the authorized follow-up action. esMD Implementation Notes for Response: The esMD application returns this segment only if the RC 5-digit Workload # associated with the OID submitted in the CAQH CORE envelope is not valid, using an X12N 278 Reject Response in the initial 20 seconds following submission.
<b>Example</b>	ErrorCode>Failure</ErrorCode> <ErrorMessage>FAILURE-OID provided under ReceiverID element is not associated with the Workload Number provided at 2010A/NM109</ErrorMessage>

**Table 84: 2010A-Error Message Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
Error Code	M	Reject Error Code		ErrorCode>Failure</ErrorCode> <ErrorMessage>FAILURE-OID provided under ReceiverID element is not associated with the Workload Number provided at 2010A/NM109</ErrorMessage>

**Table 85: Requester Level**

<b>Segment Name</b>	<b>Requester Level</b>
<b>Segment ID</b>	HL
<b>Loop ID</b>	2000B
<b>Usage</b>	Mandatory [Except – Not used only for 2010A AAA Response]
<b>Max Use</b>	1
<b>Segment Notes</b>	This segment defines the Requester level hierarchy.
<b>Example</b>	HL*2*1*21*1~

**Table 86: Requester Name**

<b>Segment Name</b>	<b>Requester Name</b>
<b>Segment ID</b>	NM1
<b>Loop ID</b>	2010B
<b>Usage</b>	Mandatory
<b>Max Use</b>	1
<b>Segment Notes</b>	This segment identifies the entity that initiated the health care service request.
<b>Example</b>	NM1*1P*1*SMITH*MUFFY*M**PH.D*XX*1111111112~

**Table 87: Requester Request Validation**

Segment Name	Requester Request Validation
Segment ID	AAA
Loop ID	2010B
Usage	Conditional
Max Use	9
Segment Notes	This segment specifies the validity of the request and indicates the authorized follow-up action. esMD Implementation Notes for Response: The esMD application returns this segment only if the request is identified as not valid at this level, based on the RC Response.
Example	AAA*N**43*C~

**Table 88: 2010B-AAA Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	35 43 44 97 15 41 45 46 47 49 51 79	35 - Out of Network 43 - Invalid/Missing Provider Identification 44 - Invalid/Missing Provider Name 97 - Invalid or Missing Provider Address 15- Required application data missing 41 – Authorization/Access Restrictions 45 – Invalid/Missing Provider Specialty 46 – Invalid/Missing Provider Phone Number 47- Invalid/Missing Provider State 49 – Provider is Not Primary Care Physician 51 – Provider not on File 79 – Invalid Participant Identification
AAA04	M	Follow-up Action Code	C	C - Please Correct and Resubmit

**Table 89: Subscriber Level**

Segment Name	Subscriber Level
Segment ID	HL
Loop ID	2000C
Usage	Mandatory [Except – Not used only for 2010A AAA Response]
Max Use	1
Segment Notes	This segment defines the Subscriber/Beneficiary (Patient) level hierarchy. esMD Implementation Notes for Response: Returned in all responses sent by esMD.
Example	HL*3*2*22*1~

**Table 90: Subscriber Name**

Segment Name	Subscriber Name
Segment ID	NM1
Loop ID	2010C
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Response: esMD returns the Personally Identifiable Information (PII) of the Subscriber.
Example	NM1*IL*1*SMITH* JOHN****MI*215586295A~

**Table 91: 2010C-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM103	C	Subscriber Last Name	Last Name	2010C.NM103 = Subscriber's Last Name from the inbound transaction
NM104	C	Subscriber First Name	First Name	2010C.NM104 = Subscriber's First Name from the inbound transaction
NM108	M	Identification Code Qualifier	MI	MI – Member Identification Number
NM109	M	Subscriber Member Number	Member's Identifier	2010C.NM109 = Subscriber's Identifier from the inbound transaction

**Table 92: Subscriber Request Validation**

Segment Name	Subscriber Request Validation
Segment ID	AAA
Loop ID	2010C
Usage	Conditional
Max Use	9
Segment Notes	This segment specifies the validity of the request and indicates the authorized follow-up action. esMD Implementation Notes for Response: The esMD application returns this segment only if the request is identified as not valid at this level, based on the RC Response.
Example	AAA*N**95*C~

**Table 93: 2010C-AAA Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	58	58 - Invalid/Missing Date-of-Birth
			64	64 - Invalid/Missing Patient ID
			65	65 - Invalid/Missing Patient Name
			66	66 - Invalid/Missing Patient Gender
			95	Code
			67	95 - Patient Not Eligible
			68	67 – Patient Not Found
			71	68 – Duplicate Patient ID Number
			72	71 – Patient Birth Date does not match that for the Patient in the Database
			73	72 – Invalid/Missing Subscriber/Insured ID
			74	
			75	

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
			76 77 78 79	73 – Invalid/Missing Subscriber/Insured Name 74 – Invalid/Missing Subscriber/Insured gender code 75 – Subscriber/Insured Not Found 76 – Duplicate Subscriber/Insured ID number 77 – Subscriber Found, Patient not Found 78 – Subscriber/Insured Not in Group/Plan identified 79 – Invalid Participant ID
AAA04	M	Follow-up Action Code	C	C - Please Correct and Resubmit

**Table 94: Patient Event Level**

Segment Name	Patient Event Level
Segment ID	HL
Loop ID	2000E
Usage	Mandatory [Except – Not used only for 2010A AAA Response]
Max Use	1
Segment Notes	This segment defines the Patient Event level hierarchy. esMD Implementation Notes for Response: Returned in all responses sent by esMD.
Example	HL*4*3*EV*1~

**Table 95: Patient Event Tracking Number (esMD 15-Alphanumeric-Character Transaction ID)**

Segment Name	Patient Event Tracking Number (esMD Transaction ID)
Segment ID	TRN
Loop ID	2000E
Usage	Mandatory
Max Use	1
Segment Notes	esMD Implementation Notes for Response: 1. The first 2000E TRN segment in the Response sends the esMD 15-alphanumeric-character Transaction ID to the HIH. 2. The TRN03 value will always be “9ESMDSYSTEM” in this first TRN segment for 2000E.
Example	TRN*1*RWP000000009434*9ESMDSYSTEM~

**Table 96: 2000E-TRN Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
TRN01	M	Trace Type Code	1	For the esMD Transaction ID that is returned to the HIH, the value of 1 is required.
TRN02	M	Patient Event Trace Number	Per esMD requirement	TRN02 = esMD 15-alphanumeric-characterTransaction ID, which informs the HIH that the TRN02 value in the

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				TRN segment is the esMD 15 AN Transaction ID assigned by esMD
TRN03	M	Trace Assigning Entity Identifier	9ESMDSYSTEM	The value 9ESMDSYSTEM is used in the first 2000E TRN segment sent to the HIH. This informs the HIH that the TRN02 value in this TRN segment is the esMD 15 AN Transaction ID assigned to the PA/PCR Request transaction by esMD.

**Table 97: Patient Event Tracking Number**

Segment Name	Patient Event Tracking Number
Segment ID	TRN
Loop ID	2000E
Usage	Conditional
Max Use	2
Segment Notes	<p>This segment uniquely identifies a transaction to an application. There can be a maximum of three TRN segments.</p> <p>esMD Implementation Notes for Response:</p> <ol style="list-style-type: none"> <li>1. The first TRN segment is defined in Table 95: Patient Event Tracking Number (esMD 15- Alphanumeric-Character Transaction ID) and there may be two possible TRN segments that were submitted in the Request.</li> <li>2. If the HIH sends the TRN in the request; esMD returns the segment with TRN01=2.</li> </ol>
Example	TRN*2*12345678900987654321768958473*1311234567*500~

**Table 98: 2000E-TRN Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
TRN01	M	Trace Type Code	2	esMD returns the trace type code as 2 for all the HIH trace numbers submitted in the Request and returned in the Response.
TRN02	M	Patient Event Trace Number	HIH Trace Number from Request	esMD returns the Patient Event Trace Number if the HIH submitted it in the request.

**Table 99: Patient Event Request Validation**

Segment Name	Patient Event Request Validation
Segment ID	AAA
Loop ID	2000E
Usage	Conditional
Max Use	9
Segment Notes	<p>This segment specifies the validity of the request and indicates the authorized follow-up action.</p> <p>esMD Implementation Notes for Response:</p> <p>The esMD application returns this segment only if the request is identified as not valid at this level, based on the RC Response.</p>
Example	AAA*N**44*C~

**Table 100: 2000E-AAA Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	15 33 57 AF	15 – Required application data missing 33 – Input Errors 57 – Invalid/Missing Date(s) of Service AF – Invalid/Missing Diagnosis Code(s) 52 – Service Dates Not Within Provider Plan Enrollment 56 – Inappropriate Date 60 – Date of Birth Follows Date(s) of Service 61 – Date of Death Precedes Date(s) of Service 62 – Date of Service Not Within Allowable Inquiry Period AA – Authorization Number Not Found AH – Invalid/Missing Onset of Current Condition or Illness Date AI – Invalid/Missing Accident Date AJ – Invalid/Missing Last Menstrual Period Date AK – Invalid/Missing Expected Date of Birth AM – Invalid/Missing Admission Date AN – Invalid/Missing Discharge Date T5 – Certification Information Missing
AAA04	M	Follow-up Action Code	C	C – Please Correct and Resubmit

**Table 101: Health Care Services Review Information**

Segment Name	Health Care Services Review Information
Segment ID	UM
Loop ID	2000E
Usage	Mandatory
Max Use	1
Segment Notes	This segment will be returned in the Response with all values unchanged.
Example	UM*HS*I**13:B~

**Table 102: Health Care Services Review**

Segment Name	Health Care Services Review
Segment ID	HCR
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Notes for Response: 1. Either the HCR segment or the AAA segment must be returned in loop 2000E. 2. For transactions with multiple services, the consolidated decision is returned.
Example	HCR*A3**0F~

**Table 103: 2000E-HCR Segment Information**

Reference Designator	Usage	Element Name and Valid Values	Valid Values	esMD Requirement or Element Description
HCR01	M	Certification Action Code	A1 A2 A3 A4 A6 C	SSM Responses A1 - Certified in total (Affirmed Decision) A2 – Certified – partial (Partially Affirmed Decision) A3 – Not Certified (Non-Affirmed Decision) A6 – Modified (Affirmed with Changes Decision). A4 - Pended: <ol style="list-style-type: none"> <li>Initial Submission Response within 20 seconds; Successful submission;</li> <li>Waiting for Delivery to RC; 2– Business Day Warning;</li> <li>Delivered to RC; RC Pickup Notification</li> </ol> C - Canceled: Administrative Errors; Waiting for Delivery to RC; 4–Business Day Cancellation; if the documentation supporting the Request is not received within 4 business days following receipt of the Request, the Request is rejected as “Canceled”.
HCR02	C	Review Identification Number	UTN Value	This is the UTN assigned by the Reviewer Used when HCR01 = A1 or A6 Not Used when HCR01 = A3, A4, or C
HCR03	C	Review Decision Reason Code	0U 0P 0B	Pending Response – Waiting for Delivery to the RC: <ol style="list-style-type: none"> <li>0U (zero, U) Successful Submission (initial 20-second response);</li> <li>0P (zero, P) 2–Business Day Warning</li> <li>0B (zero, B) RC Pickup Notification Cancellation: 0B (zero, B) 4– Business Days without delivery of documentation</li> </ol> Affirmed Decisions: For Decisions A1 and A6 HCR03 is empty Non-Affirmed Decisions: For Decision A3 HCR03 contains the Industry Denial codes (up to five) sent by the RC.

**Table 104: Administrative Reference Number**

Segment Name	Administrative Reference Number
Segment ID	REF
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	This segment provides the Reviewer's Reference Information. esMD Notes for Response: UTN is returned in this segment for Non-Affirmed decisions from the RC.
Example	REF*NT*A0987213540254~

**Table 105: 2000E-REF Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
REF02	M	Administrative Reference Number	UTN Value	UTN for Non-Affirmed decisions sent by the RC.

**Table 106: Accident Date**

Segment Name	Accident Date
Segment ID	DTP
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	DTP*439*D8*20161101~

**Table 107: Last Menstrual Period Date**

Segment Name	Last Menstrual Period Date
Segment ID	DTP
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	DTP*484*D8*20161101~

**Table 108: Estimated Date of Birth**

Segment Name	Estimated Date of Birth
Segment ID	DTP
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	DTP*ABC*D8*20160801~

**Table 109: Onset of Current Symptoms or Illness Date**

Segment Name	Onset of Current Symptoms or Illness Date
Segment ID	DTP
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	DTP*431*D8*20161101~

**Table 110: Event Date**

Segment Name	Event Date
Segment ID	DTP
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: 1. Returned only if the RC responds with AAA error(s). 2. In all other RC Response situations, returned via the 2000F Service Date segment.
Example	DTP*AAH*RD8*20161101-20161215~ or DTP*AAH*D8*20161101~

**Table 111: Health Care Services Delivery**

Segment Name	Health Care Services Delivery
Segment ID	HSD
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only if RC responds with AAA error(s), if submitted in the Request.
Example	HSD*FL*20~

**Table 112: Institutional Claim Code**

Segment Name	Institutional Claim Code
Segment ID	CL1
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	None

**Table 113: Ambulance Transport Information**

<b>Segment Name</b>	<b>Ambulance Transport Information</b>
<b>Segment ID</b>	CR1
<b>Loop ID</b>	2000E
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
<b>Example</b>	None

**Table 114: Spinal Manipulation Service Information**

<b>Segment Name</b>	<b>Spinal Manipulation Service Information</b>
<b>Segment ID</b>	CR2
<b>Loop ID</b>	2000E
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
<b>Example</b>	None

**Table 115: Home Health Care Information**

<b>Segment Name</b>	<b>Home Health Care Information</b>
<b>Segment ID</b>	CR6
<b>Loop ID</b>	2000E
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
<b>Example</b>	None

**Table 116: Message Text**

Segment Name	Message Text
Segment ID	MSG
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	<p>This segment provides a free-form format at the Patient Event level that allows the transmission of text information.</p> <p>esMD Implementation Notes for Response:</p> <ol style="list-style-type: none"> <li>1. When the MSG segment is returned, it sends the PA/PCR Program Reason Codes to the HIH. It might also be used to send the UTN, if one is assigned to an RC Error Reject Response.</li> <li>2. For pending responses or a cancelation response, the free-form message text provides a statement showing the reason that a specific response is being sent as identified in items 1-4 in the esMD Requirement or Element Description column for MSG01 in Table 117: Segment Information.</li> <li>3. The Program Reason Codes can be found on the CMS website: <a href="https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html">https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html</a>.</li> <li>4. The reason code for the Administrative Error is sent by the RC.</li> </ol>
Example	<p>MSG*AMB12~ or                      MSG*UTN:RCUTN1234 ;AMB12~                      (The space between the colon (:) and the semi-colon (;) of MSG01 is 50 characters.)</p>

**Table 117: Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
MSG01	M	Free-form Message Text	Per esMD requirement	<ol style="list-style-type: none"> <li>1. Initial Submission Response within 20 seconds: Successful submission: 2000E.MSG01 = Request accepted; awaiting supporting documentation.</li> <li>2. Waiting for Delivery to RC: 2-Business Day Warning: 2000E.MSG01 = Request pending; documentation should be sent immediately.</li> <li>3. Waiting for Delivery to RC: 4-Business Day Cancelation: 2000E.MSG01 = Supporting documentation was not received within the time limit; resubmit your request along with supporting documentation.</li> <li>4. Delivered to RC: RC Pickup Notification: 2000E.MSG01 = Medical Review in progress; awaiting decision.</li> <li>5. RC Response: Error Reject Response: 2000E.MSG01 contains the Program Reason Code(s) sent by the RC for the Error Reject Responses.</li> </ol>

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				<ul style="list-style-type: none"> <li>a. If the errors occur above the 2000F loop, the Program Reason Codes are returned in the 2000E loop. If there is a single service loop, the Program Reason Codes can be returned in both the 2000E and 2000F loops.</li> <li>b. If a UTN was provided in the RC Error Reject Response, it is included in the MSG01 as “UTN: <i>UTN value [a length of 50 characters]</i>” and precedes the PA/PCR Program Reason Codes; see the Error Reject Response example in the <i>esMD Health Information Handler (HIH) Implementation Guide</i>.</li> </ul> <p>6. RC Response: Administrative Errors. The reason code for the Administrative Error sent by the RC.</p>

**Table 118: Patient Event Provider Name**

Segment Name	Patient Event Provider Name
Segment ID	NM1
Loop ID	2010EA
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	NM1*DK*1*JOHNSON*BARBARA****XX*1234567893~

**Table 119: 2010EA-NM1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
NM101	M	Entity Identifier Code	Refer to TR3	All Patient Event Providers submitted in the Request will be returned in the Response. esMD returns in the Response, the values that were submitted in the Request.
NM108	M	Identification Code Qualifier	XX	esMD returns in the Response, the values that were submitted in the Request.
NM109	M	Patient Event Provider Identifier	Patient Event Provider’s NPI	esMD returns in the Response, the values that were submitted in the Request.

**Table 120: Patient Event Provider Address**

<b>Segment Name</b>	<b>Patient Event Provider Address</b>
<b>Segment ID</b>	N3
<b>Loop ID</b>	2010EA
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: Returned only if RC responds with AAA error(s) at this level, if submitted in the Request.
<b>Example</b>	N3*610 PEACH ST~

**Table 121: 2010EA-N3 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N301	M	Patient Event Provider Address Line	Valid U.S. Address	esMD returns in the Response, the Address Lines that were submitted in the Request.
N302	C	Patient Event Provider Address Line	Valid U.S. Address	esMD returns in the Response, the Address Lines that were submitted in the Request.

**Table 122: Patient Event City, State, Zip Code**

<b>Segment Name</b>	<b>Patient Event City, State, Zip Code</b>
<b>Segment ID</b>	N4
<b>Loop ID</b>	2010EA
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: Returned only if RC responds with AAA error(s) at this level, if submitted in the Request.
<b>Example</b>	N4*CINCINNATI*OH*43017~

**Table 123: 2010EA-N4 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
N401	M	Patient Event Provider City Name	Valid U.S. City	esMD returns in the Response, the values that were submitted in the Request.
N402	M	Patient Event Provider State Code	Valid U.S. State	esMD returns in the Response, the values that were submitted in the Request.
N403	M	Patient Event Provider Zip Code	Valid U.S. Zip Code	esMD returns in the Response, the values that were submitted in the Request.

**Table 124: Patient Event Provider Request Validation**

<b>Segment Name</b>	Patient Event Provider Request Validation
<b>Segment ID</b>	AAA
<b>Loop ID</b>	2010EA
<b>Usage</b>	Conditional
<b>Max Use</b>	9
<b>Segment Notes</b>	This segment specifies the validity of the request and indicates the authorized follow-up action. esMD Implementation Notes for Response: The esMD application returns this segment only if the request is identified as not valid at this level, based on the RC Response.
<b>Example</b>	AAA*N**44*C~

**Table 125: 2010EA-AAA Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	35 43 44 97 15 33 52 56 57 60 61 62 AA AF AH AI AJ AK AM AN T5	35 – Out of Network 43 – Invalid/Missing Provider Identification 44 – Invalid/Missing Provider Name 97 – Invalid or Missing Provider Address 15 - Required application data missing 33 – Input Errors 52 – Service Dates Not Within Provider Plan Enrollment 56 – Inappropriate Date 57 – Invalid/Missing Date(s) of Service 60 – Date of Birth Follows Date(s) of service 61 – Date of Death Precedes Date(s) of Service 62 – Date of Service Not Within Allowable Injury Period AA – Authorization Number not Found AF – Invalid/Missing Diagnosis Code(s) AH – Invalid Missing Onset of Current Condition or Illness Date AI – Invalid/Missing Accident Date AJ – Invalid/Missing Last Menstrual Period date AK - Invalid/Missing Expected Date of Birth AM - Invalid/Missing Admission Date AN - Invalid/Missing Discharge Date T5 – Certification Information Missing
AAA04	M	Follow-up Action Code	C	C – Please Correct and Resubmit

**Table 126: Patient Event Provider Information**

Segment Name	Patient Event Provider Information
Segment ID	PRV
Loop ID	2010EA
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only in RC Responses, if submitted in the Request.
Example	PRV*OR*PXC*208D00000X~

**Table 127: Service Level Information**

Segment Name	Service Level Information
Segment ID	HL
Loop ID	2000F
Usage	Mandatory [Except – Not used only for 2010A AAA Response]
Max Use	40
Segment Notes	This segment defines the Service-level hierarchy. esMD Implementation Notes for Response: Returned in the following situations: 1. All Pending Responses if a 2000F TRN segment was submitted in the Request. 2. All RC (final) Responses.
Example	HL*5*4*SS*0~

**Table 128: Service Trace Number**

Segment Name	Service Trace Number
Segment ID	TRN
Loop ID	2000F
Usage	Conditional
Max Use	2
Segment Notes	esMD Implementation Notes for Response: Returned in all Responses (except when a AAA response is sent as the initial Response when the Request is submitted), if submitted in the Request.
Example	TRN*2*0001-201501150001UBERTEST-20141224-SVC1*9555555555*UBERTESTHAPPYPATH~

**Table 129: 2000F-TRN Segment Information**

Reference Designator	Usage	Element Name and Valid Values	Valid Values	esMD Requirement or Element Description
TRN01	M	Trace Type Code	2	esMD returns the trace type code as 2 for all HIH trace numbers submitted in the Request and returned in the Response.
TRN02	M	Patient Event Trace Number	HIH Trace Number from Request	esMD returns the Patient Event Trace Number if the HIH submitted it in the request.

**Table 130: Service Request Validation**

Segment Name	Service Request Validation
Segment ID	AAA
Loop ID	2000F
Usage	Conditional
Max Use	9
Segment Notes	This segment specifies the validity of the request and indicates the authorized follow-up action. esMD Implementation Notes for Response: The esMD application returns this segment only if the request is identified as not valid at this level, based on the RC Response.
Example	AAA*N**AG*C~

**Table 131: 2000F-AAA Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	15 33 57 AG	15 – Required application data missing 33 – Input Errors 57 – Invalid/Missing Date(s) of Service AG – Invalid/Missing Procedure Code(s) 52 – Service Dates Not Within Provider Plan Enrollment 60 – Date of Birth Follows Date(s) of Service 61 – Date of Service Precedes Date(s) of Service 62 – Date of Service Not Within Allowable Inquiry Period AA – Authorization Number Not Found T5 – Certification Information Missing
AAA04	M	Follow-up Action Code	C	C – Please Correct and Resubmit

**Table 132: Health Care Services Review**

Segment Name	Health Care Services Review
Segment ID	HCR
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	This segment specifies the outcome, at the Service Level, of a Health Care Services review. esMD Implementation Notes for Response: Returned only in RC Decision Responses and Cancelations for documentation not received or Administrative Errors sent by an RC (not for Error Rejects).
Example	HCR*A3**0F~

**Table 133: 2000F-HCR Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
HCR01	M	Certification Action Code	A1	RC Responses:

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
			A3 A4 A6 A2 C	<p>A1 - Certified in total (Affirmed Decision)</p> <p>A3 – Not Certified (Non-Affirmed Decision)</p> <p>A2 – Partially Affirmed</p> <p>A4 - Pended:</p> <ol style="list-style-type: none"> <li>1. Initial Submission Response within 20 seconds; successful submission.</li> <li>2. Waiting for Delivery to RC; 2– Business Day Warning.</li> <li>3. Delivered to RC; RC Pickup Notification.</li> </ol> <p>A6 - Modified (Affirmed with Changes Decision).</p> <p>C - Canceled:</p> <ol style="list-style-type: none"> <li>1. Administrative Errors.</li> <li>2. Waiting for Delivery to RC; 4– Business Day Cancellation. If the documentation supporting the Request is not received within 4 business days following receipt of the Request, the Request is rejected as “Canceled”.</li> </ol>
HCR02	C	Review Identification Number	UTN Value	This is the UTN assigned by the Reviewer. Used when HCR01 = A1 or A6; not used when HCR01 = A4, A3 or C.
HCR03	C	Review Decision Reason Code	0U 0P 0B	<p>Pending Response – Waiting for Delivery to the RC:</p> <ol style="list-style-type: none"> <li>1. 0U (zero, U) Successful Submission (initial 20-second response):.</li> <li>2. 0P (zero, P) 2 – Business Day Warning.</li> <li>3. 0B (zero, B) RC Pickup Notification Cancellation: 0B (zero, B) 4 – Business Days without delivery of documentation.</li> </ol> <p>Affirmed Decisions: Empty for Decisions A1 and A6 HCR03. Non-Affirmed Decisions: For Decision A3 HCR03, contains the Industry Denial codes (up to five) sent by the RC.</p>

**Table 134: Administrative Reference Number**

Segment Name	Administrative Reference Number
Segment ID	REF
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	This segment provides the Reviewer's Reference Information. esMD Implementation Notes for Response: The UTN is returned in this segment for Non-affirmed decisions (HCR01 = A3) from the RC.
Example	REF*NT*A0987213540254~

**Table 135: 2000F-REF Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
REF02	M	Administrative Reference Number	UTN Value	UTN for Non-Affirmed decisions (HCR03 = A3) sent by the RC

**Table 136: Service Date**

Segment Name	Service Date
Segment ID	DTP
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: <ol style="list-style-type: none"> <li>The Patient Event Date/Date Range is returned in RC Decision Responses in the Service Date/Date Range.</li> <li>The Service Date/Date Range is returned only in RC Error Rejects, if submitted in the Request.</li> <li>No other 2000F.DTP segments are sent in the Response.</li> </ol>
Example	DTP*472*RD8*20161131-20161231~

**Table 137: 2000F-DTP Segment Information**

Reference Designator	Usage	Element Name and Valid Values	Valid Values	esMD Requirement or Element Description
DTP01	M	Date/Time Qualifier	472	472 – Service
DTP03	M	Proposed Service Date/Date Range	CCYYMMDD- CCYYMMDD	RC Response other than AAA: <ol style="list-style-type: none"> <li>The approved Patient Event Date/Date Range is returned in 2000F.DTP, where DTP01 = “472”.</li> <li>For RC Error Rejects (AAA) only, the Service Date/Date Range is returned, if submitted in the Request.</li> </ol>

**Table 138: Professional Service**

<b>Segment Name</b>	<b>Professional Service</b>
<b>Segment ID</b>	SV1
<b>Loop ID</b>	2000F
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: <ol style="list-style-type: none"> <li>1. The SV1/SV2 segment is returned only in RC Responses.</li> <li>2. The Quantity Qualifier and Quantity are returned in the SV1/SV2 segment regardless of the location in which they were submitted on the Request</li> </ol>
<b>Example</b>	SV1*HC:G0277~

**Table 139: 2000F-SV1 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
SV101-1	M	Product or Service ID Qualifier	HC	HCPCS Codes
SV101-2	M	Procedure Code	Valid HCPCS Code	Procedure code submitted in the request
SV103	C	Quantity Qualifier	UN	RC Affirmed Decision Responses (A1 or A6), RC AAA Responses, or canceled responses.
SV104	C	Quantity	Service Unit Count	<ol style="list-style-type: none"> <li>1. The approved Quantity is returned in RC Affirmed and Modified Responses.</li> <li>2. The submitted Quantity is returned in Rejected Responses</li> </ol>

**Table 140: Institutional Service Line**

<b>Segment Name</b>	<b>Institutional Service Line</b>
<b>Segment ID</b>	SV2
<b>Loop ID</b>	2000F
<b>Usage</b>	Conditional
<b>Max Use</b>	1
<b>Segment Notes</b>	esMD Implementation Notes for Response: <ol style="list-style-type: none"> <li>1. The SV2 segment is returned only in RC Responses.</li> <li>2. The Quantity Qualifier and Quantity are returned in the SV1/SV2 segment regardless of the location in which they were submitted on the Request</li> </ol>
<b>Example</b>	SV2**HC:G0155:22*10.5*UN*3!

**Table 141: 2000F-SV2 Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
SV202-1	M	Product or Service ID Qualifier	HC	HCPCS Codes
SV202-2	M	Procedure Code	Valid HCPCS Code	Procedure code submitted in the request
SV204	C	Quantity Qualifier	UN	RC Affirmed Decision Responses (A1 or A6), RC AAA Responses, or canceled responses

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
SV205	C	Quantity	Service Unit Count	<ol style="list-style-type: none"> <li>The approved Quantity is returned in RC Affirmed and Modified Responses</li> <li>The submitted Quantity is returned in Rejected Responses</li> </ol>

**Table 142: Health Care Services Delivery**

Segment Name	Health Care Services Delivery
Segment ID	HSD
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: Returned only if RC responds with AAA error(s), if submitted in the Request.
Example	HSD*FL*30~

**Table 143: Message Text**

Segment Name	Message Text
Segment ID	MSG
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: <ol style="list-style-type: none"> <li>When the MSG segment is returned, it sends the PA/PCR Program Reason Codes to the HIH. It might also be used to send the UTN, if one is assigned to an RC Error Reject Response.</li> <li>For pending responses or a cancellation response, the free-form message text provides a statement showing the reason that a specific response is being sent as identified in items 1-4 in the esMD Requirement or Element Description column for MSG01 in Table 144: 2000F-MSG Segment Information.</li> <li>The PA/PCR Program Reason Codes can be found on the CMS website: <a href="https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html">https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html</a></li> </ol>
Example	MSG*AM99A~or MSG*UTN:RCUTN1234 ;AMB12~ (The space between the colon (: ) and the semi-colon (;) of the MSG is 50 characters.)

**Table 144: 2000F-MSG Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
MSG01	M	Free-form Message Text	Per esMD requirement	<ol style="list-style-type: none"> <li>Initial Submission Response within 20 seconds: Successful submission: 2000F.MSG01 = Request accepted; awaiting supporting documentation.</li> <li>Waiting for Delivery to RC: 2–Business Day Warning: 2000F.MSG01 = Request</li> </ol>

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
				<p>pending; documentation should be sent immediately.</p> <ol style="list-style-type: none"> <li>3. Waiting for Delivery to RC: 4– Business Day Cancellation: 2000F.MSG01 = Supporting documentation was not received within the time limit; resubmit your request along with supporting documentation.</li> <li>4. Delivered to RC: RC Pickup Notification: 2000F.MSG01 = Medical Review in progress; awaiting decision.</li> <li>5. RC Response: Error Reject Response: 2000F.MSG01 contains the PA/PCR Program Reason Code(s) sent by the RC for the Error Reject Responses.                             <ol style="list-style-type: none"> <li>a. If the errors occur above the 2000F loop, the PA/PCR Program Reason Codes are returned in the 2000E loop; otherwise, they are returned in the 2000F loop.</li> <li>b. If a UTN was provided in the RC Error Reject Response, it is included in the MSG01 as “UTN: <i>UTN value [a length of 50 characters]</i>” and precedes the PA/PCR Program Reason Codes; see the Error Reject Response example in the <i>esMD Health Information Handler (HIH) Implementation Guide</i>.</li> </ol> </li> </ol>

**Table 145: Service Provider Request Validation**

Segment Name	Service Provider Request Validation
Segment ID	AAA
Loop ID	2010FA
Usage	Conditional
Max Use	9
Segment Notes	<p>This segment specifies the validity of the request and indicates the authorized follow-up action.</p> <p>esMD Notes for Response:                      The esMD application returns this segment only if the request is identified as not valid at this level, based on the RC Response.</p>
Example	AAA*N**AG*C~

**Table 146: 2010FA-AAA Segment Information**

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	35 43 44 97	35 – Out of Network 43 – Invalid/Missing Provider Identification 44 – Invalid/Missing Provider Name 97 – Invalid or Missing Provider Address
AAA04	M	Follow-up Action Code	C	C – Please Correct and Resubmit

**Table 147: Transaction Set Trailer**

Segment Name	Transaction Set Trailer
Segment ID	SE
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	This segment indicates the end of the transaction set and provides the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
Example	SE*22*1113~

## 7. X12N 278 5010 PA Response

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### 7.1 X12N 278 5010 Review Response Data Elements

Refer to the following link for the X12 Companion Guide for more details on the Data Elements in an X12 Review Response:

[https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information\\_for\\_HIHs.html](https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html)

### 7.2 X12N 278 5010 Error Response Data Elements

Refer to the following link for the X12 Companion Guide for more details on the Data Elements in an X12 Review Response Error:

[https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information\\_for\\_HIHs.html](https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html)

## 8. HOPD Multiple Services

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The esMD system will start accepting multiple HOPD services in a single request using X12N 278 and XDR formats. The esMD system will be focused on the business use case of receiving and processing multiple HOPD services in a single transactional interaction from the HIH to the RC. HOPD will accept a minimum of one service to a maximum of 40 services.

### 8.1 Submission of Multiple HOPD Services

esMD will allow the submission of multiple HOPD services in a single request by the HIH in XDR/X12 formats. Per the current process, esMD allows one item/service per PA request to be submitted by the HIH in either XDR or X12 format.

### 8.2 PA Responses

The current esMD process provides decision responses to one item/service per PA response to the HIH. esMD also provides decision responses to multiple items/services per PA response to HIHs. Additionally, esMD provides a UTN-level decision response indicating the summary of all the services included in the response as A (Affirmed), N (Non-Affirmed), P (Partially Affirmed) or M (Modified) - for Ambulance.

### 8.3 Inbound X12

The HOPD requests have the provision to include multiple services in the X12N 278 5010 request in the SV2 segment of the 2010F Loop. As a result, no change is necessary at the interface level or the content level.

### 8.4 Outbound XDR

In order to convey multiple review decisions in a single response, esMD must use the CONNECT operation with the custom XML structure. Refer to the *esMD User Acceptance Testing (UAT) Guide* for more information about the XML structure. A similar enhancement is already required for communicating Electronic Medical Documentation Request (eMDR)/Additional Documentation Request (ADR) responses in the past from esMD to the HIHs, i.e., the HIHs currently receiving eMDR/ADR responses via esMD are already equipped to receive this multi-service HOPD response.

### 8.5 X12 Review Response

The current X12 review response EDI supports a response-level decision at theActionCode (HCR01) element of the Health Care Services Review (HCR) segment of the Patient Event Detail (2000E) loop. In order to convey multiple review decisions in a single response, esMD continues to use the current 278 Review Response EDI, which supports both response-level decisions through use of theActionCode (HCR01) element of the HCR segment of the Patient Event Detail (2000E) loop and the service-level decisions via the Action Code (HCR01) element of the HCR segment of the Service Detail (2000F) loop. Refer to Table 148: Outbound Interface Solution.

**Table 148: Outbound Interface Solution**

EDI Element	EDI Location	Current Value(s)	Additional Value(s)
ActionCode	2000E/HCR/HCR01	A1 – Certified in Total A3 – Not Certified A6 – Modified	A2 – Certified–partial
ActionCode	2000F/HCR/HCR01	A1 – Certified in Total A3 – Not Certified A6 – Modified	N/A

## 8.6 Sample Files

Figure 15: hhpcr\_x12n278.txt File shows the sample X12N 278 request.

**Figure 15: hhpcr\_x12n278.txt File**

```

ISA*00*                *00*                *ZZ*Test HIH          *ZZ*111222333
*150724*0817*^*00501*000001235*0*T*+~
GS*HI*Test HIH*111222333*20150724*0817*1235*X*005010X217~
ST*278*1235*005010X217~
BHT*0007*13*3920394930203*20150724*0817~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*REQUESTERLASTNAME*REQUESTERFIRSTNAME***PH.D*XX*1111111112~
N3*REQUESTER STREET LOOP 2010B~
N4*WINDSORMILL*MD*21244~
PER*IC*DR.AMBULANCECONTACT*FX*8189991235*TE*4035556789*EX*6788~
HL*3*2*22*1~
NM1*IL*1*HHPCRSUBSCRIBERLASTNAME*HHPCRSUBSCRIBERFIRSTNAME*T*MR*M.D.*MI*215123556A~
N3*AMBBENEFICIARY LOOP2010C ADDR LINE 1*SUB ADDR2~
N4*WINDSORMILL*MD*21244~
DMG*D8*19511204*M~
HL*4*3*EV*1~
TRN*1*201507221235*1311235567*NEUROLOGY~
UM*HS*I*1*32+A*AA+EM+AP+ON+CA*U*3*4*Y*1~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20150901-20151030~
HI*BK+78609*BF+85135*BF+8488~
HSD*FL*80~
NM1*FA*2*FACILITY ORG NAME*****XX*1234567893~
N3*AMBSTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*DK*1*AMBORDERINGPHYLASTNAME*AMBORDERINGPHYFNAME***XX*1234567893~
N3*AMBSTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCRNCE*9555555555*HHPCRNCREQUEST~
DTP*472*RD8*20150930-20151030~
SV2*HC+G0151+22*10.50*UN*80~
PWK*77*FX***AC*KUMACNTESTMU1123456009~
HL*6*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCRNCE*9555555555*HHPCRNCREQUEST~
    
```

```
DTP*472*RD8*20150930-20151030~
SV2*HC+G0151+22*10.50*UN*80~
PWK*77*FX***AC*ESMDACNTESTMUL123456009~
SE*39*1235~
GE*1*1235~
IEA*1*000001235~
```

## 8.7 Request Provider Information - 999 Errors

The X12N 278 request provider information is to be submitted in the 2010EA loop only. If provider information is provided in the 2010F loop, a 999 error is returned to the HIH. Table 149: 999 Error Messages to HIH provides information about the messages that are updated, added, and removed.

**Table 149: 999 Error Messages to HIH**

S. No.	Validation Message	Update to the Message	Existing or Added
1	Either the 2010EA or 2010F Loop must have at least one combination of NM101 with "DK" and "SJ" or "DK" and "FA"	2010EA loop must have at least one combination of NM101 with "DK" and "SJ" or "DK" and "FA"	Existing
2	"SJ" should be one of the providers in 2010EA or 2010F loops for DMEPOS program	"SJ" should be one of the providers in the 2010EA loop for the DMEPOS program	Existing
3	Provider Information is not allowed in 2010F loop; it has to be sent in 2010EA NM1 segment only	N/A	Added
4	When the 2010F/NM101 = "DK", "SJ", or "FA", the segments 2010F/N3/N4 must be present.	Removed	Existing
5	If "SJ" is present in the 2010F loop, then there should be at least one combination of NM101 in the 2010F loop with "SJ" and "DK" as providers	Removed	Existing

## 8.8 Administrative Error Response

The esMD system shall accept Decision Indicator C for the Admin Error. Refer to Figure 16: hhpcr\_AdminError.txt File.

**Figure 16: hhpcr\_AdminError.txt File**

```
<?xml version="1.0" encoding="UTF-8"?>
<ns0:RespondingGateway_ProvideAndRegisterDocumentSetResponseRequest
xmlns:ns0="urn:gov:hhs:fha:nhinc:common:nhinccommonentity">
  <ns0:assertion>
    <ns1:address xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
      <ns1:addressType>
```

```

        <ns1:code>AddrCodeSyst</ns1:code>
        <ns1:codeSystem>AddrCodeSyst</ns1:codeSystem>
        <ns1:codeSystemName>AddrCodeSystName</ns1:codeSystemName>
        <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
        <ns1:displayName>AddrCode</ns1:displayName>
        <ns1:originalText>AddrCode</ns1:originalText>
    </ns1:addressType>
    <ns1:city>Baltimore</ns1:city>
    <ns1:country>USA</ns1:country>
    <ns1:state>MD</ns1:state>
    <ns1:streetAddress>7100 Securty blvd</ns1:streetAddress>
    <ns1:zipCode>21244</ns1:zipCode>
</ns1:address>
    <ns1:dateOfBirth
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">03/10/2011
05:21:00</ns1:dateOfBirth>
    <ns1:explanationNonClaimantSignature
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">Electronic</ns1:explanationNonC
laimantSignature>
    <ns1:haveSecondWitnessSignature
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">false</ns1:haveSecondWitnessSig
nature>
    <ns1:haveSignature
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">false</ns1:haveSignature>
    <ns1:haveWitnessSignature
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">false</ns1:haveWitnessSignature
>
    <ns1:homeCommunity xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
    <ns1:description>CMS esMD WAS Dev Gateway in Baltimore Data
Center</ns1:description>
    <ns1:homeCommunityId>2.16.840.1.113883.13.34.110.4</ns1:homeCommunityId>
    <ns1:name>CMS esMD WAS Dev Gateway</ns1:name>
</ns1:homeCommunity>
    <ns1:personName xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
    <ns1:familyName>CMS Family Name - na</ns1:familyName>
    <ns1:givenName>CMS Given Name - na</ns1:givenName>
    <ns1:nameType>
    <ns1:code>nameCodeSyst</ns1:code>
    <ns1:codeSystem>nameCodeSyst</ns1:codeSystem>
    <ns1:codeSystemName>nameCodeSystName</ns1:codeSystemName>
    <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
    <ns1:displayName>nameCode</ns1:displayName>
    <ns1:originalText>nameCode</ns1:originalText>
    </ns1:nameType>
    <ns1:secondNameOrInitials>C</ns1:secondNameOrInitials>
    <ns1:fullName>CMS Given Name. C. Family Name - na</ns1:fullName>
</ns1:personName>
    <ns1:phoneNumber xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
    <ns1:areaCode>410</ns1:areaCode>
    <ns1:countryCode>1</ns1:countryCode>
    <ns1:extension>1234</ns1:extension>
    <ns1:localNumber>567-8901</ns1:localNumber>
    <ns1:phoneNumberType>
    <ns1:code>phoneCodeSyst</ns1:code>
    <ns1:codeSystem>phoneCodeSyst</ns1:codeSystem>
    <ns1:codeSystemName>phoneCodeSystName</ns1:codeSystemName>
    <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
    <ns1:displayName>phoneCode</ns1:displayName>
    <ns1:originalText>phoneCode</ns1:originalText>

```

```

        </ns1:phoneNumberType>
    </ns1:phoneNumber>
    <ns1:secondWitnessAddress
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:addressType>
            <ns1:code>AddrCodeSyst</ns1:code>
            <ns1:codeSystem>AddrCodeSyst</ns1:codeSystem>
            <ns1:codeSystemName>AddrCodeSystName</ns1:codeSystemName>
            <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
            <ns1:displayName>AddrCode</ns1:displayName>
            <ns1:originalText>AddrCode</ns1:originalText>
        </ns1:addressType>
        <ns1:city>Baltimore</ns1:city>
        <ns1:country>USA</ns1:country>
        <ns1:state>MD</ns1:state>
        <ns1:streetAddress>7100 Securty blvd</ns1:streetAddress>
        <ns1:zipCode>21244</ns1:zipCode>
    </ns1:secondWitnessAddress>
    <ns1:secondWitnessName xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:familyName>CMS Family Name - na</ns1:familyName>
        <ns1:givenName>CMS Given Name - na</ns1:givenName>
        <ns1:nameType>
            <ns1:code>nameCodeSyst</ns1:code>
            <ns1:codeSystem>nameCodeSyst</ns1:codeSystem>
            <ns1:codeSystemName>nameCodeSystName</ns1:codeSystemName>
            <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
            <ns1:displayName>nameCode</ns1:displayName>
            <ns1:originalText>nameCode</ns1:originalText>
        </ns1:nameType>
        <ns1:secondNameOrInitials>C</ns1:secondNameOrInitials>
        <ns1:fullName>CMS Given Name. C. Family Name - na</ns1:fullName>
    </ns1:secondWitnessName>
    <ns1:secondWitnessPhone
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:areaCode>410</ns1:areaCode>
        <ns1:countryCode>1</ns1:countryCode>
        <ns1:extension>1234</ns1:extension>
        <ns1:localNumber>567-8901</ns1:localNumber>
        <ns1:phoneNumberType>
            <ns1:code>phoneCodeSyst</ns1:code>
            <ns1:codeSystem>phoneCodeSyst</ns1:codeSystem>
            <ns1:codeSystemName>phoneCodeSystName</ns1:codeSystemName>
            <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
            <ns1:displayName>phoneCode</ns1:displayName>
            <ns1:originalText>phoneCode</ns1:originalText>
        </ns1:phoneNumberType>
    </ns1:secondWitnessPhone>
    <ns1:SSN xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">111-22-
3333</ns1:SSN>
    <ns1:witnessAddress xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:addressType>
            <ns1:code>AddrCodeSyst</ns1:code>
            <ns1:codeSystem>AddrCodeSyst</ns1:codeSystem>
            <ns1:codeSystemName>AddrCodeSystName</ns1:codeSystemName>
            <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
            <ns1:displayName>AddrCode</ns1:displayName>
            <ns1:originalText>AddrCode</ns1:originalText>
        </ns1:addressType>
        <ns1:city>Baltimore</ns1:city>

```

```

    <ns1:country>USA</ns1:country>
    <ns1:state>USA</ns1:state>
    <ns1:streetAddress>7100 Securty blvd</ns1:streetAddress>
    <ns1:zipCode>21244</ns1:zipCode>
  </ns1:witnessAddress>
  <ns1:witnessName xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
    <ns1:familyName>CMS Family Name - na</ns1:familyName>
    <ns1:givenName>CMS Family Name - na</ns1:givenName>
    <ns1:nameType>
      <ns1:code>nameCodeSyst</ns1:code>
      <ns1:codeSystem>nameCodeSyst</ns1:codeSystem>
      <ns1:codeSystemName>nameCodeSystName</ns1:codeSystemName>
      <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
      <ns1:displayName>nameCode</ns1:displayName>
      <ns1:originalText>nameCode</ns1:originalText>
    </ns1:nameType>
    <ns1:secondNameOrInitials>C</ns1:secondNameOrInitials>
    <ns1:fullName>CMS Given Name. C. Family Name - na</ns1:fullName>
  </ns1:witnessName>
  <ns1:witnessPhone xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
    <ns1:areaCode>410</ns1:areaCode>
    <ns1:countryCode>1</ns1:countryCode>
    <ns1:extension>1234</ns1:extension>
    <ns1:localNumber>567-8901</ns1:localNumber>
    <ns1:phoneNumberType>
      <ns1:code>phoneCodeSyst</ns1:code>
      <ns1:codeSystem>phoneCodeSyst</ns1:codeSystem>
      <ns1:codeSystemName>phoneCodeSystName</ns1:codeSystemName>
      <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
      <ns1:displayName>phoneCode</ns1:displayName>
      <ns1:originalText>phoneCode</ns1:originalText>
    </ns1:phoneNumberType>
  </ns1:witnessPhone>
  <ns1:userInfo xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
    <ns1:personName>
      <ns1:familyName>CMS Family Name - na</ns1:familyName>
      <ns1:givenName>CMS Family Name - na</ns1:givenName>
      <ns1:nameType>
        <ns1:code>nameCodeSyst</ns1:code>
        <ns1:codeSystem>nameCodeSyst</ns1:codeSystem>
        <ns1:codeSystemName>nameCodeSystName</ns1:codeSystemName>
        <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
        <ns1:displayName>nameCode</ns1:displayName>
        <ns1:originalText>nameCode</ns1:originalText>
      </ns1:nameType>
      <ns1:secondNameOrInitials>C</ns1:secondNameOrInitials>
      <ns1:fullName>CMS User Given Name. C. Family Name -
na</ns1:fullName>
    </ns1:personName>
    <ns1:userName>abcd</ns1:userName>
    <ns1:org>
      <ns1:description>CMS esMD WAS Dev Gateway in Baltimore Data
Center</ns1:description>
    <ns1:homeCommunityId>urn:oid:2.16.840.1.113883.13.34.110.1.999.1</ns1:homeCommunityI
d>
      <ns1:name>CMS esMD WAS Dev Gateway</ns1:name>
    </ns1:org>
    <ns1:roleCoded>

```

```

        <ns1:code>2.16.840.1.113883.6.96</ns1:code>
        <ns1:codeSystem>2.16.840.1.113883.6.96</ns1:codeSystem>
        <ns1:codeSystemName>SNOMED_CT</ns1:codeSystemName>
        <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
        <ns1:displayName>Claim Processing</ns1:displayName>
    </ns1:roleCoded>
</ns1:userInfo>
    <ns1:authorized
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">true</ns1:authorized>
    <ns1:purposeOfDisclosureCoded
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:code>2.16.840.1.113883.3.18.7.1</ns1:code>
        <ns1:codeSystem>2.16.840.1.113883.3.18.7.1</ns1:codeSystem>
        <ns1:codeSystemName>nhin-purpose</ns1:codeSystemName>
        <ns1:codeSystemVersion>1.0</ns1:codeSystemVersion>
        <ns1:displayName>Use or disclosure of Psychotherapy
Notes</ns1:displayName>
        <ns1:originalText>Use or disclosure of Psychotherapy
Notes</ns1:originalText>
    </ns1:purposeOfDisclosureCoded>
    <ns1:samlAuthnStatement
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:authInstant>2009-04-16T13:15:39Z</ns1:authInstant>
        <ns1:sessionIndex>987</ns1:sessionIndex>

<ns1:authContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:X509</ns1:authContextClassRef>
        <ns1:subjectLocalityAddress>158.147.185.168</ns1:subjectLocalityAddress>

<ns1:subjectLocalityDNSName>esmdg.cms.cmstest</ns1:subjectLocalityDNSName>
    </ns1:samlAuthnStatement>
    <ns1:samlAuthzDecisionStatement
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
        <ns1:decision>Permit</ns1:decision>

<ns1:resource>https://158.147.185.168:8181/SamlReceiveService/SamlProcessWS</ns1:resource>
        <ns1:action>TestSaml</ns1:action>
        <ns1:evidence>
            <ns1:assertion>
                <ns1:id/>
                <ns1:issueInstant>2009-04-16T13:10:39.093Z</ns1:issueInstant>
                <ns1:version>2.0</ns1:version>
                <ns1:issuer>CN=SAML
User,OU=Harris,O=HITS,L=Melbourne,ST=FL,C=US</ns1:issuer>
                <ns1:issuerFormat>urn:oasis:names:tc:SAML:1.1:nameid-format:X509SubjectName</ns1:issuerFormat>
                <ns1:conditions>
                    <ns1:notBefore>2009-04-16T13:10:39.093Z</ns1:notBefore>
                    <ns1:notOnOrAfter>2009-12-31T12:00:00.000Z</ns1:notOnOrAfter>
                </ns1:conditions>

<ns1:accessConsentPolicy>urn:oid:2.16.840.1.113883.13.34.110.3</ns1:accessConsentPolicy>

<ns1:instanceAccessConsentPolicy>urn:oid:2.16.840.1.113883.13.34.110.3</ns1:instanceAccessConsentPolicy>
    </ns1:assertion>

```

```

        </ns1:evidence>
    </ns1:samlAuthzDecisionStatement>
    <ns1:messageId
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">AA569852P_1235959</ns1:messageI
d>
    </ns0:assertion>
    <ns0:nhinTargetCommunities>
        <ns1:nhinTargetCommunity
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">
            <ns1:homeCommunity>
                <ns1:homeCommunityId>urn:oid:123.456.657.126</ns1:homeCommunityId>
                <ns1:name>Test HIH</ns1:name>
            </ns1:homeCommunity>
        </ns1:nhinTargetCommunity>
    </ns0:nhinTargetCommunities>
    <ns0:RegistryResponse status="urn:oasis:names:tc:ebxml-
regrep:ResponseStatusType:Failure" requestId="esMD- Administrative Response">
        <ns1:ResponseSlotList xmlns:ns1="urn:oasis:names:tc:ebxml-
regrep:xsd:rs:3.0">
            <ns2:Slot xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
name="esMDTransactionId">
                <ns2:ValueList>
                    <ns2:Value> ABF000007845931</ns2:Value>
                </ns2:ValueList>
            </ns2:Slot>
            <ns2:Slot xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
name="contentTypeCode">
                <ns2:ValueList>
                    <ns2:Value>13</ns2:Value>
                </ns2:ValueList>
            </ns2:Slot>
            <ns2:Slot xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
name="decisionIndicator">
                <ns2:ValueList>
                    <ns2:Value>C</ns2:Value>
                </ns2:ValueList>
            </ns2:Slot>
            <ns2:Slot xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
name="creationTime">
                <ns2:ValueList>
                    <ns2:Value>2018-01-25T10:18:26.9285722-05:00</ns2:Value>
                </ns2:ValueList>
            </ns2:Slot>
            <ns2:Slot xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
name="submissionTime">
                <ns2:ValueList>
                    <ns2:Value>2018-01-25T10:18:32.3785798-05:00</ns2:Value>
                </ns2:ValueList>
            </ns2:Slot>
        </ns1:ResponseSlotList>
    <ns1:RegistryErrorList xmlns:ns02="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"
highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">
        <ns1:RegistryError codeContext="ESMD_413-Other-Error Description for Other
error." errorCode="XDSRegistryMetadataError" severity="Error"/>
        <ns1:RegistryError codeContext="ESMD_414-Incomplete File."
errorCode="XDSRegistryMetadataError" severity="Error"/>
    </ns1:RegistryErrorList>
    </ns0:RegistryResponse>
</ns0:RespondingGateway_ProvideAndRegisterDocumentSetResponseRequest>

```

**Figure 17: PA\_AdminError for CAQH REST API**

```
{
  "x12_id": " ackNack_20231129100853",
  "data": [ {
    "payloadType": "CAQH_Core_Envelope_notification",
    "processingMode": "Batch",
    "payloadID": "R12345435676",
    "timeStamp": "2023-06-25T10:20:34.228-04:00",
    "senderID": "urn:oid:123.456.657.126",
    "receiverID": "urn:oid:2.16.840.1.113883.13.3",
    "coreRuleVersion": "v2.2.0",
    "payload": " ",
    "errorCode": "Admin_error",
    "errorMessage": "ESMD_414-Administrative Error (Incomplete File"
  }
]
}
```

## 9. HHPCR Billing Period

---

The esMD system will start accepting HHPCR services in one request in X12N 278 and XDR formats. The esMD system will be focused on the business use case of receiving and processing single and multiple HHPCR services in a single transactional interaction from the HIH to the RC. HHPCR will accept a minimum of one service to a maximum of 40 services in one record.

### 9.1 Submission of Single X12 HHPCR Billing Period Service

esMD will allow the submission of single billing period HHPCR services in a single request by the HIH in X12 formats. The billing period is 30 days. The Proposed Date of Service (PDOS) is submitted at the Patient Event Level, and not at the Service Level with unique procedure codes in the SV2 segment of the service level.

### 9.2 Submission of Multiple X12 HHPCR Billing Service

esMD will allow the submission of multiple billing period HHPCR services in a single request by the HIH in X12 formats. The Proposed Date of Service (PDOS) in the Patient Event Level will have the holistic range of BPs with the PDOS range at Service Level as applicable to the BP. The PDOS may be repeated across different BPs, but each PDOS must be distinct and not overlap.

### 9.3 HHPCR Responses

The esMD process provides decision responses to one item/service per HHPCR response to the HIH. esMD also provides decision responses to multiple items/services per PCR response to HIHs. esMD provides a UTN-level decision response indicating the summary of all the services included in the response as A (Affirmed), N (Non-Affirmed), or P (Partially Affirmed). The esMD system will process the whole set of decision records and send the response back to the HIH.

Note: The UTN value is unique for each billing period.

### 9.4 HHPCR Reject Response

The esMD process rejects the whole decision response record back to the SSM if the response records encounter an edit failure with one or more errors.

## 10. IRF Single Service

---

The esMD system will start accepting IRF service in one request in X12N 278 and XDR formats. The esMD system will be focused on the business use case of receiving and processing single IRF service requests in a single transaction from the HIH to the RC. esMD accepts only one single service request with a single procedure code from the HIH. If there is more than one service, the transaction will be rejected by esMD. The Proposed Date of Service (PDOS) may be submitted as a single date or a date range. The PDOS does not represent a billing period, but simply a date range. The date/date range can either be a current, future, or past date.

### 10.1 IRF Decision Responses

The esMD process provides a single decision response to the IRF program request to the HIH. esMD assigns one UTN for the decision response for any A (Affirmed) and N (Non-Affirmed) decision response for the IRF request. The esMD system will process the decision response received from the workload and sends it back to the HIH.

### 10.2 IRF Reject Response

esMD rejects the whole decision response record back to the SSM if the response record encounters an edit failure with one or more errors.

## 11. TA1 and 999 Errors and Descriptions

The below tables contain the purpose of the TA1 and 999 errors (IK304/IK403/IK502/AK905).

- When a TA1 failures are received, the errors need to be corrected and resubmit the entire ISA – IEA Interchange received in X12 278.
- When a 999 failures are received, the errors such as segment syntax, data element, transaction syntax errors occurred the errors need to be corrected and the X12 278 request must be resubmitted.

**Table 150: Inbound X12N 278 TA1 Error Codes and Error Descriptions**

ID	Scenario	Error Code	TA1 Error Description
	ISA segment appearing more than once	022	Invalid Control Structure
1	The Authorization Information Qualifier (ISA01) must be set to "00".	010	Invalid Authorization Information Qualifier value
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".	005	Invalid Acknowledgment Requested Value
7	The Requested (ISA14) must be set to "Acknowledgment 0"	005	Invalid Interchange ID Qualifier for Sender
	ISA08 GT 15 chars	008	Invalid Interchange Receiver ID
	ISA09 not validated by esMD	014	Invalid Interchange Date Value
	ISA10 not validated by esMD	015	Invalid Interchange Time Value
	ISA13 not valid	011	Invalid Authorization Information Value
	ISA13 and IEA02 not same	001	Interchange Control Number in the Header and Trailer Do Not Match. The Value from the Header is used in the Acknowledgment
	ISA14 is not 0,1	019	Invalid Acknowledgment Requested
	ISA15 not valid	020	Invalid Test Indicator Value
	IEA01 not 1	022	Invalid Control Structure
	IEA segment missing	023	Improper (Premature) End-of-File (Transmission)
	GS segment missing	022	Invalid Control Structure
	GS segment more than once	021	Invalid Number of Included Groups Value
	GS02 missing	024	Invalid Interchange Content (e.g., Invalid GS Segment)
	GS02 and ISA06 not same	005	Invalid Interchange ID Qualifier for Sender
	GS03 missing	024	Invalid Interchange Content (e.g., Invalid GS Segment)

ID	Scenario	Error Code	TA1 Error Description
	GS04 not validated by esMD (empty GS04)	024	Invalid Interchange Content (e.g., Invalid GS Segment)
	GS05 not validated by esMD (empty GS05)	024	Invalid Interchange Content (e.g., Invalid GS Segment)

**Table 151: X12N 278 Inbound Element 999 Errors & Descriptions (IK304/IK403/IK502/AK905)**

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.
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

Element ID	Usage	Guide Description/Valid Values	Comments
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

## 12. Examples of the X12N 278 Response Transaction

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**Note 1:** The examples in this document are provided as samples for reference only. Follow the configuration requirements of each table in creating appropriate transactions.

**Note 2:** The esMD system will send multiple PA review responses received from RCs to the HIHs. There will be no change in the PA review result response format. The HIH may consider the most current PA response as the final decision.

The following figures are the X12N 278 sample files for illustration purposes; no real data is included. Each loop, segment, and element would flow continuously within a single stream of data.

1. Figure 18: Outbound X12N 278 PA Response – Initial Pending Response Sent to HIH Within 20 Seconds provides an example of the initial pending response sent to HIHs within 20 seconds following submission of a valid X12N 278 PA Request.
2. Figure 19: Outbound X12N 278 PA Response – Reminder to HIH that Documentation Needs to Be Sent to esMD provides an example of the reminder sent to the HIHs that documentation has not yet been received and must be sent to esMD.
3. Figure 20: Outbound X12N 278 PA Response – Informing HIH that the PA Request Is Canceled; Documentation Was Not Received Timely provides an example of a canceled X12N 278 PA/PCR Request to notify the HIH that documentation was not received on time.
4. Figure 21: Outbound X12N 278 PA Response – Informing the HIH that the RC Has Received the Request and Documentation for Review provides an example of the message sent to HIHs to notify them that the package for review was picked up by the RC and the Review Results will follow.
5. Figure 22: Inbound X12N 278 PA Request for Review – with an Error to Illustrate Generating a 999 Response provides an example of an outbound 999 Transaction identifying the errors found in the X12N 278 PA/PCR Request.
6. Figure 23: Outbound 999 Transaction Containing Error Information to Be Returned to HIH (for the Request Presented Above) provides an example of an outbound 999 Transaction identifying the errors found in the X12N 278 PA/PCR Request.
7. Figure 24: RC Affirmed Decision Response provides an example of an RC affirmed decision response as an X12N 278 PA Response.
8. Figure 25: RC Affirmed Decision Response for HHP/PCR Single BP provides an example of an RC affirmed decision response as an X12N 278 PCR Response for a single BP.
9. Figure 26: RC Decision Response for HHP/PCR Multiple Billing Periods provides an example of an RC decision response for multiple billing periods.
10. Figure 27: RC Non-Affirmed Decision Response provides an example of an RC non-affirmed decision response as an X12N 278 PA Response.
11. Figure 28: RC Modified (Affirmed with Changes) Decision provides an example of an RC affirmed with changes decision response as an X12N 278 PA Response.
12. Figure 29: X12N 278 Multiple Services Response provides an example of an X12N 278 response with multiple services and a consolidated decision for the overall transaction.
13. Figure 30: AAA Error Reported at Requester Level [2010B] provides an example of an X12N 278 Response – AAA error reported at the Requester Level [2010B].
14. Figure 31: AAA Error Reported at Subscriber Level [2010C] provides an example of an X12N 278 Response – AAA error reported at the Subscriber Level [2010C].

15. Figure 32: AAA Error Reported at Patient Event Level [2000E] provides an example of an X12N 278 Response – AAA error reported at the Patient Event Level [2000E].
16. Figure 33: AAA Error Reported at Patient Event Provider Name Level [2010EA] provides an example of an X12N 278 Response – AAA error reported at the Patient Event Provider Name Level [2010EA].
17. Figure 34: AAA Error Reported at Service Level [2000F] provides an example of an X12N 278 Response – AAA error reported at the Service Level [2000F].
18. Figure 35: AAA Error Reported at Multiple Service Levels [2000F] provides an example of an X12N 278 Response – AAA error reported at multiple service levels [2000F].
19. Figure 36: AAA Error Reported at Requester and Service Level [2000F] provides an example of an X12N 278 Response – AAA error reported at the Requester and Service Level [2000F].
20. Figure 37: Administrative Error Cancellation provides an example of an administrative error cancellation.

**Note:** esMD may send more information (AAA) in the X12N 278 Response. The HIHs should configure their systems to accept X12N 278 Responses that contain AAA segments in any of the following loops:

- a. 2000A.AAA – Utilization Management Organization (UMO) Level
- b. 2010A.AAA – Utilization Management Organization (UMO) Name
- c. 2010B.AAA – Requester Name
- d. 2010C.AAA – Subscriber Name
- e. 2000E.AAA – Patient Event Level
- f. 2010EA.AAA – Patient Event Provider Name

2000F.AAA – Service Level

21. Figure 38: Reject Response Submitted through RC Client at Patient Event Loop [2000 E] provides an example for error category 'Medical Info' for the error codes '15 – Number of Units is missing or invalid' and '57- Proposed Date/Date range is invalid'.

### Figure 18: Outbound X12N 278 PA Response – Initial Pending Response Sent to HIH Within 20 Seconds

```

ISA*00*                *00*                *ZZ*DBRRC                *ZZ*TESTHIH
*190318*1026**^*00501*000000020*0*P*+~
GS*HI*DBRRC*TESTHIH*20190318*102655*187597*X*005010X217~
ST*278*187597*005010X217~
BHT*0007*11*000187597*20190318*102655*19~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*50505~
HL*2*1*21*1~
NM1*1P*1*REQUESTERLASTNAME*REQUESTERFIRSTNAME***PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*AMBLSUBSCRIBERLASTNAME*AMBLSUBSCRIBERFIRSTNAME***MI*215123556A~
HL*4*3*EV*1~
TRN*1*ABC000000001234*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I*1*13+B**U~
HCR*A4**0U~
MSG*Request accepted; awaiting supporting documentation~

```

```

NM1*FA*2*FACILITY ORG NAME*****XX*1234567893~
NM1*DK*1*AMBORDERINGPHYLASTNAME*AMBORDERINGPHYFNAME*****XX*1234567893~
NM1*72*1*OPERATINGPHYLASTNME*OPERATINGPHYFNAME*****XX*1234567893~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HCR*A4**0U~
REF*NT*ESMDNUMBER~
SE*22*187597~
GE*1*187597~
IEA*1*000000020~

```

**Figure 19: Outbound X12N 278 PA Response – Reminder to HIH that Documentation Needs to Be Sent to esMD**

```

ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210803*1101*^*00501*000004628*0*T*+~
GS*HI*1112229993*Test HIH*20210803*11010420*329157*X*005010X217~
ST*278*329157*005010X217~
BHT*0007*11*000329157*20210803*11010420*19~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL****MI*987654321A~
HL*4*3*EV*1~
TRN*1*CWI000009347910*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+A~
HCR*A4**0P~
MSG*Request pending; documentation should be sent immediately~
HL*5*4*SS*0~
SE*16*329157~
GE*1*329157~
IEA*1*000004628~

```

**Figure 20: Outbound X12N 278 PA Response – Informing HIH that the PA Request Is Canceled; Documentation Was Not Received Timely**

```

ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210805*1101*^*00501*000004638*0*T*+~
GS*HI*1112229993*Test HIH*20210805*11010185*329157*X*005010X217~
ST*278*329157*005010X217~
BHT*0007*11*000329157*20210805*11010185*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL****MI*987654321A~
HL*4*3*EV*1~
TRN*1*CWI000009347910*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+A~
HCR*C**0P~

```

```

MSG*Supporting documentation was not received within the time limit; resubmit your
request along with supporting documentation~
HL*5*4*SS*0~
SE*16*329157~
GE*1*329157~
IEA*1*000004638~

```

**Figure 21: Outbound X12N 278 PA Response – Informing the HIH that the RC Has Received the Request and Documentation for Review**

```

ISA*00*          *00*          *ZZ*9088877320005  *ZZ*9012345720005
*171111*0817**+*00501*000001923*0*T*:~
GS*HI*9088877320005*9012345720000*20180111*1349*1923*X*005010X217~
ST*278*1923*005010X217~
BHT*0007*11*3920394930203*20180111*1615*19~
HL*1**20*1~
NM1*X3*2*NATIONAL GOVERNMENT SERVICES*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*SMITH*MUFFY*M**PH.D*XX*1234567893~
HL*3*2*22*1~
NM1*IL*1*Rubble*Barney***MI*987654321A~
HL*4*3*EV*1~
TRN*1*ABC000000012345*9ESMDSYSTEM~
TRN*2*12345678900987654321768958473*1311234567*500~
UM*HS*I*1*13:B ~
HCR*A4**0B~
MSG*Medical Review in progress; awaiting decision~
HL*5*4*SS*0~
TRN*2*0070-20150320175012376*9555555557~
SE*17*1923~
GE*1*1923~
IEA*1*000001923~

```

**Figure 22: Inbound X12N 278 PA Request for Review – with an Error to Illustrate Generating a 999 Response**

```

ISA*00*          *00*          *ZZ*9012345720007
*ZZ*1112229992      *180831*1449**+*00501*000121822*0*P*:~
GS*HI*9012345720007*1112229992*20180831*144928*121822*X*005010X217~
ST*278*121822*005010X217~
BHT*0007*13*000121822*20180831*144928~
HL*1**20*1~
NM1*X3*2*NATIONAL GOVERNMENT SERVICES, INC*****PI*00002~
HL*2*1*21*1~
NM1*1P*1*Guerriero*Liam*P***XX*111111112~
N3*123 E Main Street~
N4*WINDSORMILL*MD*21244~
PER*IC*Liam Guerriero*TE*7179991234~
HL*3*2*22*1~
NM1*IL*1*Smith*Annmarie*A***MI*215123158A~
N3*80 Main Street~
N4*WINDSORMILL*MD*21244~
DMG*D8*19301020*F~
HL*4*3*EV*1~
TRN*1*201507221235*1311235567*NEUROLOGY~
UM*HS*I**11:B~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~

```

```

DTP*AAH*RD8*20170101-20190101~
HI*BK:78609*BF:85135*BF:8488*BF:8471*BF:8472*BF:84510*BF:8461*BF:8502*BF:8500*BF:85106
*BF:8489*BF:8431~
HSD*FL*80~
PWK*77*FX***AC*UBLANCESPRACHATAHCNTLNJL1VA8267~
NM1*SJ*1*Tay*Jodi****XX*1852963762~
N3*1524 Wandering Way~
N4*WINDSORMILL*MI*21244~
NM1*DK*1*Tay*Jodi****XX*1852963762~
N3*1524 Wandering Way~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-AMBLNCE*955555555*AMBLNCREQUEST~
DTP*472*D8*20180201~
SV1*HC:A0426:TC:26**UN*1~
PWK*77*FX***AC*UBLANCESPRACHATAHCNTLNJL1VA8267~
SE*35*121822~
GE*1*121822~
IEA*1*000121822~

```

**Figure 23: Outbound 999 Transaction Containing Error Information to Be Returned to HIH (for the Request Presented Above)**

**Note:** The actual 999 error messages depend on the data submitted.

```

ISA*00*                *00*                *ZZ*1112229992        *ZZ*9012345720007
*180831*1449*^*00501*000001042*0*P*+~
GS*FA*1112229992*9012345720007*20180831*144929*1*X*005010X231A1~
ST*999*0001*005010X231A1~
AK1*HI*121822*005010X217~
AK2*278*121822*005010X217~
IK3*N4*26*2010*8~
CTX*SUBSCRIBER NAME NM109+1~
IK4*3*116*7*21244~
IK5*R*5~
AK9*R*1*1*0~
SE*9*0001~
GE*1*1~
IEA*1*000001042~

```

**Figure 24: RC Affirmed Decision Response**

```

ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210721*1610*^*00501*000004535*0*T*+~
GS*HI*1112229993*Test HIH*20210721*16100226*328967*X*005010X217~
ST*278*328967*005010X217~
BHT*0007*11*000328967*20210721*16100226*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL***MI*987654321A~
HL*4*3*EV*1~
TRN*1*DPK000009347243*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+A~
HCR*A1*UTN567~
HI*BK+78609+D8+20150128~
NM1*DK*2*PATIENT FIRST****XX*1789012345~

```

```
NM1*SJ*2*REGIONAL HOSPITAL*****XX*1456789019~
HL*5*4*SS*0~
HCR*A1*UTN567~
DTP*472*D8*20151211~
SV2**HC+63650+22*10.5*UN*2~
SE*21*328967~
GE*1*328967~
IEA*1*000004535~
```

**Figure 25: RC Affirmed Decision Response for HPCR Single BP**

```
ISA*00*                *00*                *ZZ*1112229992        *ZZ*Test HIH
*220810*1631*^*00501*000005422*0*T*+~
GS*HI*1112229992*Test HIH*20220810*16314241*341496*X*005010X217~
ST*278*341496*005010X217~
BHT*0007*11*000341496*20220810*16314241*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00002~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL****MI*987654321A~
HL*4*3*EV*1~
TRN*1*AFX000009517401*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+B~
DTP*472*RD8*20211201-20211230~
HI*BK+78609*BF+85135*BF+8488~
NM1*DK*2*PATIENT FIRST*****XX*1789012345~
NM1*SJ*2*REGIONAL HOSPITAL*****XX*1456789019~
HL*5*4*SS*0~
HCR*A1*UTN567~
SV2**HC+63650+22*10.5*UN*2~
SE*20*341496~
GE*1*341496~
IEA*1*000005422~
```

**Figure 26: RC Decision Response for HPCR Multiple Billing Periods**

```
ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210715*1616*^*00501*000004489*0*T*+~
GS*HI*1112229993*Test HIH*20210715*16163863*328811*X*005010X217~
ST*278*328811*005010X217~
BHT*0007*11*000328811*20210715*16163863*18~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON***H*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*SERVICELSUBSCRIBERLASTNAME*SERVICELSUBSCRIBERFIRSTNAME****MI*215101056A~
HL*4*3*EV*1~
TRN*1*NYS000009346704*9ESMDSYSTEM~
TRN*2*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32+A~
DTP*472*RD8*20220101-20220228~
HI*BK+78609*BF+85135*BF+8488~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~
NM1*SJ*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME****XX*1234567893~
HL*5*4*SS*0~
```

```

TRN*2*0001098*9555555555*SERVICELNCREQUEST1~
HCR*A1*UTN567~
DTP*472*RD8*20220101-20220130~
SV2**HC+22551+25+21+23+55*12.25*UN*80~
HL*6*4*SS*0~
TRN*2*0001098*9555555555*SERVICELNCREQUEST2~
HCR*A1*UTN980~
DTP*472*RD8*20220131-20220228~
SV2**HC+64612+25+21+23+55*12.25*UN*80~
SE*27*328811~
GE*1*328811~
IEA*1*000004489~
    
```

**Figure 27: RC Non-Affirmed Decision Response**

```

ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210715*1411*^*00501*000004479*0*T*+~
GS*HI*1112229993*Test HIH*20210715*14114973*328632*X*005010X217~
ST*278*328632*005010X217~
BHT*0007*11*000328632*20210715*14114973*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL***MI*987654321A~
HL*4*3*EV*1~
TRN*1*TNU000009346156*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+A~
HCR*A3**13~
REF*NT*UTN345~
HI*BK+78609+D8+20150128~
MSG*pm1a~
NM1*DK*2*PATIENT FIRST*****XX*1789012345~
NM1*SJ*2*REGIONAL HOSPITAL*****XX*1456789019~
HL*5*4*SS*0~
HCR*A3**13~
REF*NT*UTN345~
DTP*472*D8*20151211~
SV2**HC+63650+22*10.5*UN*2~
MSG*pm1a~
SE*25*328632~
GE*1*328632~
IEA*1*000004479~
    
```

**Figure 28: RC Modified (Affirmed with Changes) Decision**

```

ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210817*1224*^*00501*000004705*0*T*+~
GS*HI*1112229993*Test HIH*20210817*12244304*329550*X*005010X217~
ST*278*329550*005010X217~
BHT*0007*11*000329550*20210817*12244304*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL***MI*987654321A~
HL*4*3*EV*1~
    
```

```

TRN*1*CWK000009355184*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+A~
HCR*A6*UTN3456~
HI*BK+78609+D8+20150128~
MSG*PMD1A~
NM1*DK*2*PATIENT FIRST*****XX*1789012345~
NM1*SJ*2*REGIONAL HOSPITAL*****XX*1456789019~
HL*5*4*SS*0~
HCR*A6*UTN3456~
DTP*472*D8*20151211~
SV2**HC+A0426+22*10.5*UN*10~
MSG*PMD1A~
SE*23*329550~
GE*1*329550~
IEA*1*000004705~
    
```

**Figure 29: X12N 278 Multiple Services Response**

```

ISA*00*                *00*                *ZZ*1112229993        *ZZ*Test HIH
*210715*1616**^*00501*000004489*0*T*+~
GS*HI*1112229993*Test HIH*20210715*16163863*328811*X*005010X217~
ST*278*328811*005010X217~
BHT*0007*11*000328811*20210715*16163863*18~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*00003~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON**H*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*SERVICELSUBSCRIBERLASTNAME*SERVICELSUBSCRIBERFIRSTNAME****MI*215101056A~
HL*4*3*EV*1~
TRN*1*NYS000009346704*9ESMDSYSTEM~
TRN*2*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32+A~
HCR*A1*UTN567~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
HI*BK+78609*BF+85135*BF+8488~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~
NM1*SJ*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST1~
HCR*A1*UTN567~
DTP*472*RD8*20150930-20151030~
SV2**HC+22551+25+21+23+55*12.25*UN*80~
HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST2~
HCR*A1*UTN567~
DTP*472*RD8*20150930-20151030~
SV2**HC+64612+25+21+23+55*12.25*UN*80~
HL*7*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST3~
HCR*A1*UTN567~
DTP*472*RD8*20150930-20151030~
SV2**HC+63650+25+21+23+55*12.25*UN*80~
HL*8*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST4~
HCR*A1*UTN567~
    
```

```
DTP*472*RD8*20150930-20151030~
SV2**HC+22552+25+21+23+55*12.25*UN*80~
SE*39*328811~
GE*1*328811~
IEA*1*000004489~
```

**Figure 30: AAA Error Reported at Requester Level [2010B]**

```
ISA*00*          *00*          *ZZ*1112229992      *ZZ*Test HIH
*201006*1426*^^*00501*000003837*0*T*+~
GS*HI*1112229992*Test HIH*20201006*14261577*278151*X*005010X217~
ST*278*278151*005010X217~
BHT*0007*11*000278151*20201006*14261577*18~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*00014~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON**H*XX*1111111112~
AAA*N**35*C~
AAA*N**41*C~
AAA*N**43*C~
AAA*N**44*C~
AAA*N**45*C~
AAA*N**46*C~
AAA*N**47*C~
AAA*N**49*C~
HL*3*2*22*1~
NM1*IL*1*SERVICELSUBSCRIBERLASTNAME*SERVICELSUBSCRIBERFIRSTNAME***MI*215101056A~
HL*4*3*EV*1~
TRN*1*JXY000009050627*9ESMDSYSTEM~
TRN*2*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32+A~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20150901-20151030~
HI*BK+78609*BF+85135*BF+8488~
HSD*FL*80~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~
N3*SERVICESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
SE*41*278151~
GE*1*278151~
IEA*1*000003837~
```

**Figure 31: AAA Error Reported at Subscriber Level [2010C]**

```
ISA*00*          *00*          *ZZ*1112229992      *ZZ*Test HIH
*201006*1426*^^*00501*000003839*0*T*+~
GS*HI*1112229992*Test HIH*20201006*14262784*278150*X*005010X217~
ST*278*278150*005010X217~
BHT*0007*11*000278150*20201006*14262784*18~
```

```

HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*00014~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON**H*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*SERVICELSUBSCRIBERLASTNAME*SERVICELSUBSCRIBERFIRSTNAME***MI*215101056A~
AAA*N**58*C~
AAA*N**65*C~
HL*4*3*EV*1~
TRN*1*IZS000009050702*9ESMDSYSTEM~
TRN*2*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32+A~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20150901-20151030~
HI*BK+78609*BF+85135*BF+8488~
HSD*FL*80~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~
N3*SERVICESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST2~
SV2**HC+G0157+25+21+23+55*12.25*UN*80~
HL*7*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST3~
SV2**HC+G0162+25+21+23+55*12.25*UN*80~
SE*35*278150~
GE*1*278150~
IEA*1*000003839~
    
```

**Figure 32: AAA Error Reported at Patient Event Level [2000E]**

```

ISA*00*          *00*          *ZZ*1112229992      *ZZ*Test HIH
*201006*1426**^*00501*000003840*0*T*+~
GS*HI*1112229992*Test HIH*20201006*14263368*278147*X*005010X217~
ST*278*278147*005010X217~
BHT*0007*11*000278147*20201006*14263368*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00002~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL***MI*987654321A~
HL*4*3*EV*1~
TRN*1*XHM000009050585*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
AAA*N**33*C~
AAA*N**52*C~
AAA*N**T5*C~
AAA*N**AI*C~
UM*HS*I*56*13+B~
DTP*AAH*D8*20151210~
HI*BK+78609+D8+20150128~
NM1*DK*2*PATIENT FIRST*****XX*1789012345~
N3*210 STATUE STREET~
N4*ABERDEEN*MD*21001~
    
```

```

NM1*SJ*2*REGIONAL HOSPITAL*****XX*1456789019~
N3*PO BOX 85205~
N4*LAUREL*MD*20707~
HL*5*4*SS*0~
SV1*HC+A0426+22*10.5*UN*2~
SE*27*278147~
GE*1*278147~
IEA*1*000003840~

```

**Figure 33: AAA Error Reported at Patient Event Provider Name Level [2010EA]**

```

ISA*00*                *00*                *ZZ*1112229992        *ZZ*Test HIH
*201006*1426**^*00501*000003841*0*T*+~
GS*HI*1112229992*Test HIH*20201006*14263970*278148*X*005010X217~
ST*278*278148*005010X217~
BHT*0007*11*000278148*20201006*14263970*18~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*00014~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON**H*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*SERCIVELSUBSCRIBERLASTNAME*SERCIVELSUBSCRIBERFIRSTNAME***MI*215101056A~
HL*4*3*EV*1~
TRN*1*HHK000009050616*9ESMDSYSTEM~
TRN*2*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32+A~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20150901-20151030~
HI*BK+78609*BF+85135*BF+8488~
HSD*FL*80~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~
N3*SERCIVESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERCIVORDERINGPHYLASTNAME*SERCIVORDERINGPHYFNAME***XX*1234567893~
N3*SERCIVESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
AAA*N**46*C~
AAA*N**33*C~
AAA*N**35*C~
AAA*N**41*C~
AAA*N**43*C~
AAA*N**44*C~
AAA*N**45*C~
AAA*N**47*C~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERCIVELNCE*9555555555*SERCIVELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
SE*35*278148~
GE*1*278148~
IEA*1*000003841~

```

**Figure 34: AAA Error Reported at Service Level [2000F]**

```

ISA*00*                *00*                *ZZ*9088877320001    *ZZ*9012345720001
*171121*0825**+*00501*000002523*0*T*::~~
GS*HI*9088877320001*9012345720001*20180121*0825*2523*X*005010X217~
ST*278*2523*005010X217~
BHT*0007*11*3920394930202*20180121*08250600*18~

```

```

HL*1**20*1~
NM1*X3*2*NOVITAS SOLUTIONS INC*****PI*12001~
HL*2*1*21*1~
NM1*1P*1*SMITH*KEITH*M**PH.D*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*Rubble*Barney***MI*987654321A~
HL*4*3*EV*1~
TRN*1*0021345*9ESMDSYSTEM~
TRN*2*12345678900987654321768958473*1311234567*500~
UM*HS*I**13:B~
DTP*AAH*RD8*20180125-20180323~
HI* ABK:J65~
MSG*BCA12~
NM1*DK*1*MADISON*KAREN***XX*1678901236~
N3*2874 MACBETH WAY~
N4*TRENTON*NJ*08625~
NM1*SJ*1*SAUNDERS*JACK***XX*1234567893~
N3*96 HIGHLAND DR~
N4*TRENTON*NJ*08625~
HL*5*4*SS*0~
TRN*2*0001-201501150001UBERTEST-20141224-SVC1*955555555*UBERTESTHAPPYPATH~
AAA*N**AG*C~ [AG - Invalid/Missing Procedure Code(s)]
SV1*HC:G0277**UN*30~
MSG*BCA12~
SE*27*2523~
GE*1*2523~
IEA*1*000002523

```

**Figure 35: AAA Error Reported at Multiple Service Levels [2000F]**

```

ISA*00*          *00*          *ZZ*1112229992      *ZZ*Test HIH
*201005*1053*^*00501*000003803*0*T*+~
GS*HI*1112229992*Test HIH*20201005*10530522*278120*X*005010X217~
ST*278*278120*005010X217~
BHT*0007*11*000278120*20201005*10530522*18~
HL*1**20*1~
NM1*X3*2*REVIEW ORG NAME*****PI*00014~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON***H*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*SERVICELSUBSCRIBERLASTNAME*SERVICELSUBSCRIBERFIRSTNAME***MI*215101056A~
HL*4*3*EV*1~
TRN*1*BSQ000009028492*9ESMDSYSTEM~
TRN*2*201507221010*1311010567*NEUROLOGY~
UM*HS*I*56*32+A~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20150901-20151030~
HI*BK+78609*BF+85135*BF+8488~
HSD*FL*80~
NM1*DK*2*FACILITY ORG NAME*****XX*1234567893~
N3*SERVICESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERVICEORDERINGPHYLASTNAME*SERVICEORDERINGPHYFNAME***XX*1234567893~
N3*SERVICESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*955555555*SERVICELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~

```

```

HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST2~
AAA*N**62*C~
AAA*N**57*C~
DTP*472*RD8*20150930-20151030~
SV2**HC+G0157+25+21+23+55*12.25*UN*80~
HL*7*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST3~
AAA*N**60*C~
AAA*N**61*C~
SV2**HC+G0162+25+21+23+55*12.25*UN*80~
SE*38*278120~
GE*1*278120~
IEA*1*000003803~

```

**Figure 36: AAA Error Reported at Requester and Service Level [2000F]**

```

ISA*00*                *00*                *ZZ*1112229992        *ZZ*Test HIH
*201006*1455*^*00501*000003854*0*T*+~
GS*HI*1112229992*Test HIH*20201006*14551288*278149*X*005010X217~
ST*278*278149*005010X217~
BHT*0007*11*000278149*20201006*14551288*18~
HL*1**20*1~
NM1*X3*2*CMS*****PI*00002~
HL*2*1*21*1~
NM1*1P*1*GOLDIE*LOCKS*M**PH.D*XX*1111111112~
AAA*N**51*C~
AAA*N**79*C~
AAA*N**97*C~
HL*3*2*22*1~
NM1*IL*1*CARRINGTON*CHERYL***MI*987654321A~
HL*4*3*EV*1~
TRN*1*NSF000009050700*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*13+B~
DTP*AAH*D8*20151210~
HI*BK+78609+D8+20150128~
NM1*DK*2*PATIENT FIRST*****XX*1789012345~
N3*210 STATUE STREET~
N4*ABERDEEN*MD*21001~
NM1*SJ*2*REGIONAL HOSPITAL*****XX*1456789019~
N3*PO BOX 85205~
N4*LAUREL*MD*20707~
HL*5*4*SS*0~
AAA*N**60*C~
AAA*N**61*C~
AAA*N**62*C~
AAA*N**57*C~
AAA*N**52*C~
AAA*N**33*C~
DTP*472*D8*20151211~
SV1*HC+A0426+22*10.5*UN*2~
SE*33*278149~
GE*1*278149~
IEA*1*000003854~

```

**Figure 37: Administrative Error Cancellation**

```

ISA*00*                *00*                *ZZ*Test HIH          *ZZ*111222333
*240709*1613*+*00501*000001303*0*T*:~
GS*HI*Test HIH*111222333*20240709*16134937*1*X*005010X217~ST*278*0001*005010X217~
BHT*0007*11*3920394930203*20240709*16134937*18~
HL*1**20*1~
NM1*X3*2*WPS*****PI*00001~
HL*2*1*21*1~
NM1*FA*2*LAKE REGIONAL HEALTH SYSTEMAKE REGIONAL HEALTH SYSTEM*****XX*1023223179~
HL*3*2*22*1~
NM1*IL*1*Smith*Sharon****MI*5MC3TD5KG85~HL*4*3*EV*1~
TRN*1*TWX0040018129EC*9ESMDSYSTEM~
TRN*2*11768958473*1311234567*500~
UM*HS*I*56*41:A~
HCR*C~DTP*AAH*RD8*20230315-20230501~
MSG*GEX18~
NM1*FA*2*LAKE REGIONAL HEALTH SYSTEMAKE REGIONAL HEALTH SYSTEM*****XX*1023223179~
NM1*DK*2*LAKE REGIONAL HEALTH SYSTEMAKE REGIONAL HEALTH SYSTEM*****XX*1023223179~
NM1*72*1*LAKE REGIONAL HEALTH SYSTEMAKE REGIONAL HEALTH SYSTEM*Test
1*lamp*carefax*test1*XX*1023223179~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERVICELNCE*9555555555*SERVICELNCREQUEST1~
SE*21*0001~
GE*1*1~
IEA*1*000001303~
    
```

**Figure 38: Reject Response Submitted through RC Client at Patient Event Loop [2000 E]**

```

ISA*00*                *00*                *ZZ*111222333          *ZZ*TESTHIH
*210914*1352*^*00501*000001324*0*P*+~
GS*HI*111222333*TESTHIH*20210914*13524564*333305*X*005010X217~
ST*278*333305*005010X217~
BHT*0007*11*000333305*20210914*13524564*18~
HL*1**20*1~
NM1*X3*2*NOVITAS*****PI*11202~
HL*2*1*21*1~
NM1*1P*1*Guerriero*Liam*P***XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*Smith*Annmarie****MI*318642897A~
HL*4*3*EV*1~
TRN*1*FNY000007097949*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
AAA*N**15*C~
AAA*N**57*C~
UM*HS*I**32+A~
DTP*439*D8*20181101~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20181101-20190101~
MSG*GEX12~
NM1*FA*2*Guaranteed Medical Services, INC*****XX*1852963762~
N3*1524 Wandering Way~
N4*WINDSORMILL*MD*21244~
NM1*DK*1*Tay*Jodi****XX*1852963762~
N3*1524 Wandering Way~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-HHS*9555555555*HHPCRREQUEST~
    
```

```
SV2**HC+G0151**UN*1~  
HL*6*4*SS*0~  
TRN*2*0001-201501150001COVERTEST-HHS*955555555*HHPCRREQUEST~  
SV2**HC+G0157**UN*1~  
SE*31*333305~  
GE*1*333305~  
IEA*1*000001324~
```

## 13. Contacts

---

Table 152: Support Points of Contact provides the contact list for esMD.

**Table 152: Support Points of Contact**

Contact	Phone	Email	Hours of Operation
CMS esMD Service Desk	1-844-267-3763	<a href="mailto:esMD_Support@cms.hhs.gov">esMD_Support@cms.hhs.gov</a>	Regular Business Hours: 8:00 AM. to 8:00 PM. Eastern Time (ET).

## Appendix A Glossary

**Table 153: Glossary**

Glossary	Description
Additional Documentation Request	Official letters sent to Providers from CMS RCs requesting additional documentation that is needed to process claims.
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.
Repetitive Scheduled Non-Emergent Ambulance Transport Prior Authorization	CMS is implementing a prior authorization model for repetitive scheduled non-emergent ambulance transports to test whether prior authorization helps reduce expenditures, while maintaining or improving access to and quality of care. CMS believes using a prior authorization process will help ensure services are provided in compliance with applicable Medicare coverage, coding, and payment rules before services are rendered and claims are paid.
Home Health Pre-Claim Review Prior Authorization	The Centers for Medicare & Medicaid Services (CMS) is implementing a three-year Pre-Claim Review Demonstration for Home Health Services in the states of Illinois, Florida, and Texas beginning in 2016, and in the states of Michigan and Massachusetts beginning in 2017. CMS is testing whether pre-claim review improves methods for the identification, investigation, and prosecution of Medicare fraud occurring among Home Health Agencies (HHAs) providing services to people with Medicare benefits. Additionally, CMS is testing whether the demonstration helps reduce expenditures while maintaining or improving quality of care.
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: <a href="http://store.x12.org/store/">http://store.x12.org/store/</a>
278 PA	ASC X12N/00510X217 version of 278 Prior Authorization

## Appendix B Acronyms

**Table 154: Acronyms**

Acronym	Literal Translation
ACN	Attachment Control Number
ADR	Additional Documentation Request
AMB	Ambulance
ASC	Ambulatory Surgical Center
ASC	Accredited Standards Committee
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
DMEPOS	Durable Medical Equipment, Prosthetics, Orthotics, and Supplies
EDI	Electronic Data Interchange
eDoC	Electronic Determination of Coverage
eMDR	Electronic Medical Documentation Request
esMD	Electronic Submission of Medical Documentation
HCPCS	Health Care Financing Administration Common Procedural Coding System
HHPCR	Home Health Pre-Claim Review
HIC	Health Insurance Claim
HIH	Health Information Handler
HOPD	Hospital Outpatient Department
HTTP	Hypertext Transfer Protocol
ID	Identifier
IRF	Inpatient Rehabilitation Facility
MBI	Medicare Beneficiary Identifier
MTOM	Message Transmission Optimization Mechanism
N/U	Not Used
NHIN	Nationwide Health Information Network
NPI	National Provider Identifier
OID	Organizational Identifier
PA	Prior Authorization
PCR	Pre-Claim Review
PDOS	Proposed Date of Service
RC	Review Contractor
SAML	Security Assertion Markup Language

<b>Acronym</b>	<b>Literal Translation</b>
SOAP	Simple Object Access Protocol
TBD	To Be Determined
TR3	ASC X12 Standard for Electronic Data Interchange Technical Report Type 3
UMO	Utilization Management Organization
URL	Universal Resource Locator
UTN	Unique Tracking Number
XDR	Cross-Enterprise Document Reliable Interchange
XML	Extensible Markup Language

## Appendix C      Referenced Documents

**Table 155: Referenced Documents**

Document Name	Document Location and/or URL	Issuance Date
ASC X12N 278/005010X217 Standards for Electronic Data Interchange Technical Report Type 3 (TR3)	<a href="http://store.x12.org/store/">http://store.x12.org/store/</a>	May 2006
**CAQH CORE Attachments Health Care Claims Infrastructure Rule Version HC.1.0	<a href="https://www.caqh.org/hubfs/43908627/drupal/CAQH%20CORE%20Attachments%20Claims%20Infrastructure%20Rule%20vHC.1.0.pdf">https://www.caqh.org/hubfs/43908627/drupal/CAQH%20CORE%20Attachments%20Claims%20Infrastructure%20Rule%20vHC.1.0.pdf</a>	April 2022
esMD X12 275 Companion Guide	TBD	TBD
esMD User Acceptance Testing (UAT) Guide	TBD	TBD

\*\* NOTE: CAQH CORE X12 Document Submission Service Interface Specification dated 03/18/2011 is no longer directly available on the CAQH website. It has been replaced by the new CAQH CORE Attachments Operating Rules series of documents.

## Appendix D Record of Changes

**Table 156: Record of Changes**

Version Number	Date	Author/Owner	Description of Change
11.0	10/02/2019	Nithin Gangula	New document created by merging X12 278 Companion Guide and X12 278 portions from HIH Implementation Guide
12.0	08/12/2020	Barbara Miller	<ol style="list-style-type: none"> <li>1. Updated sections 4.1 and 6.1</li> <li>2. Updated Figure 5</li> <li>3. Updated Tables 7, 27, 44, 45, 53, 55, 60, 62, 83, 88, 95, 98, 120, 126, and 128</li> <li>4. Removed reference to AAA error for Requests</li> <li>5. Replaced all mention of HICN with MBI</li> </ol>
12.1	8/25/2020	Barbara Miller	<ol style="list-style-type: none"> <li>1. Updated sections 4.1, 6.1, 6.3, and 8.2</li> <li>2. Updated Table 53, 55, 62, 78, 79, 128, 143</li> <li>3. Updated Figure 8</li> </ol>
12.2	09/09/2020	Moses Akintayo	Updated Table 46. Providers that may be submitted in the 2010EA loops for the HHPCR Request changed from 13 to 14
12.3	09/16/2020	Moses Akintayo	Updated Table 27. Submitted Railroad Board ID (Beneficiary MBI) must not be null and must be a maximum of 12 characters in length
12.4	10/06/2020	Sandeep Yenugu	Section 9: Updated and added new Review Response samples
12.5	10/16/2020	Sandeep Yenugu	Updated Figure 27
13.0	08/17/2021	Sridevi Muthili & Rohini Kolan	<ol style="list-style-type: none"> <li>1. Updated Sections: 4.1, 5, 8, 8.1, 8.3, and 8.4.</li> <li>2. Updated Figures: 11, 17, 18, 22, 23, 24, and 25.</li> </ol>
14.0	11/11/2021	Rohini Kolan/Lisa Massengill	<ol style="list-style-type: none"> <li>1. Added Table 34.</li> <li>2. Reconfigured tables and added alternative text to graphics for 508 compliant.</li> </ol>
15.0	8/23/2022	Rohini Kolan	<p>AR2022.10.0</p> <ol style="list-style-type: none"> <li>1. Added Table 53</li> <li>2. Added Figures 9, 23, and 24.</li> <li>3. Added Sections 9.9.1, 9.2, 9.3, and 9.4.</li> </ol>

Version Number	Date	Author/Owner	Description of Change
			<ol style="list-style-type: none"> <li>4. Updated Section 4.a,4.b,4.c,6.1, 8, 8.1, 8.2, 8.3, and 8.4.</li> <li>5. Updated Figure 13.</li> </ol>
16.0	3/24/2023	Rohini Kolan & Sridevi Muthili	<p>AR2023.07.0 Includes the following updates for Cloud Migration:</p> <ol style="list-style-type: none"> <li>1. Updated Tables 2, 4, 18, 27, 33, 41, 43, 45, 46, 47, 48, 55, 57, 58, 62, 63, 65, and 73.</li> <li>2. Added Table 40, 55, 148, and 149.</li> <li>3. Updated Sections 3.3, 3.5, 4.1, 6.3, and 10.</li> <li>4. Updated Figures 10, 11, and 13.</li> <li>5. Addressed and Updated Comments.</li> </ol>
17.0	1/19/2024	Sridevi Muthili	<p>AR2024.04.0 Includes the following updates for Implementation of IRF in X12 278 format :</p> <ol style="list-style-type: none"> <li>1. Added Figures 14 and 17.</li> <li>2. Added Section 10 and related subsections.</li> <li>3. Updated Sections: 1.3, 4.1, and 6.1.</li> <li>4. Updated Figures: 8, 9, 13, and 16.</li> <li>5. Updated Tables: 37, 47, 48, 54, 58, and 152.</li> </ol>
17.1	3/26/2024	Sridevi Muthili	<p>AR2024.04.0 Release Version 17.1 contains the following changes:</p> <ol style="list-style-type: none"> <li>1. Updated Table 7 - Added Timestamp Rule 1, Rule 2, and an example.</li> <li>2. Updated Table 65 - Added Bullet #8 to the "Notes" column of Row 4.c.</li> <li>3. Updated Figure 17 - Updated format of the time stamp data element.</li> </ol>
18	7/10/2024	Rohini Kolan	<p>AR2024.10.0 Release version 18.0 contains the following changes:</p> <ol style="list-style-type: none"> <li>1. Updated Table 66: <ol style="list-style-type: none"> <li>a. Updated AAA03 Reject Reason Codes for rows 2, 7, 9, 12, 13, 18, and 23</li> </ol> </li> </ol>

Version Number	Date	Author/Owner	Description of Change
			<ul style="list-style-type: none"> <li>b. Added Rows 28-37 to document new codes for Operating, Referring, and Attending category 2010EA Loop.</li> <li>2. Updated Figure 16                             <ul style="list-style-type: none"> <li>a. Updated error code/description in the hhpcr_AdminError sample code.</li> </ul> </li> <li>3. Updated Figure 37                             <ul style="list-style-type: none"> <li>a. Updated Administrative Error Cancellation sample code.</li> </ul> </li> </ul>
19	1/5/2026	Rohini Kolan	<p>AR2026.04.0 release version 19.0 contains the following changes:</p> <p>Added Table(s):</p> <ul style="list-style-type: none"> <li>• Table 47 - MSG Segment</li> <li>• Table 48 - MSG Segment Information</li> </ul> <p>Updated Section(s):</p> <ul style="list-style-type: none"> <li>• Section 4.1 - Updated bullets #1, #4, and #5.</li> <li>• Section 4.1 - Added bullets #9 and #10.</li> </ul> <p>Updated Figure(s):</p> <ul style="list-style-type: none"> <li>• Figure 11 - Updated X12 278 PA Request for HOPD</li> </ul> <p>Updated Table(s):</p> <ul style="list-style-type: none"> <li>• Table 8 - Updated MSG row to C.</li> <li>• Table 39 - Updated Segment Notes with ASC info.</li> <li>• Table 49 - Updated Segment Notes with ASC info.</li> <li>• Table 50 - Updated NM101 row with ASC info.</li> <li>• Table 56 - Updated Segment Notes with ASC info.</li> <li>• Table 57 - Added ASC date info.</li> <li>• Table 58 - Updated Segment Notes with ASC info in bullets #6, #7, #8, and #9.</li> <li>• Table 59 - Updated SV101-2 row with ASC info.</li> <li>• Table 152 – Updated phone number for CMS esMD Service Desk.</li> </ul>

Version Number	Date	Author/Owner	Description of Change
			<ul style="list-style-type: none"> <li>Table 155 – Replaced CAQH CORE X12 Document Submission Service Interface Specification document with CAQH CORE Attachments Health Care Claims Infrastructure Rule Version HC.1.0 info.</li> </ul>

## Appendix E Approvals

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The undersigned acknowledge that they have reviewed the X12N 278 Companion Guide AR2026.04.0 and agree with the information presented within this document. Changes to this X12N 278 Companion Guide AR2026.04.0 will be coordinated with, and approved by, the undersigned, or their designated representatives.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Print Name: Earl McLaughlin  
Title: Contracting Officer's Representative (COR)  
Role: CMS Approving Authority