



Centers for Medicare & Medicaid Services

Electronic Submission of Medical Documentation (esMD)

X12N 278 Companion Guide

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1. Introduction

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

1.1 Scope

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

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	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 (ID), /ISA, 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. 4. While it is not required that submitters use these specific delimiters, these are the ones that esMD uses for all outbound response transactions. Note: As per esMD Implementation for 278 Request, ISA14 must be set to 0.		
	Character	Name	Delimiter
	*	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 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.
ISA05	M	Interchange ID Qualifier (Sender)	ZZ	The Interchange ID Qualifier must be ZZ.

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
ISA06	M	Interchange Sender ID	Per esMD requirement	The HIIH 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 HIIH must use the esMD Review Contractor's (RC) esMD registered EDI ID in ISA08; left justified with trailing spaces to fill the 15 characters
ISA14	M	Acknowledgment Requested	0	Enter 0 in ISA14 to prevent receipt of unnecessary TA1 success messages for every submission accepted by esMD.

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*TESTHIIH*20190318*102655*187597*X*005010X217~

Table 4: GS Segment Information

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

Table 5: 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 6: Interchange Control Trailer

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

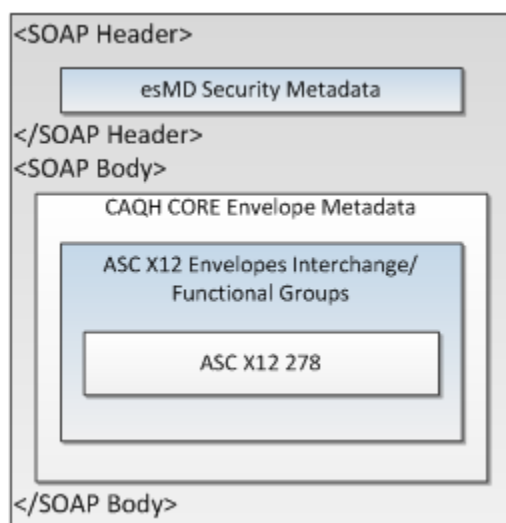
```

3. The esMD System CAQH Profile

3.1 Request Layout

esMD implemented the Sequoia Project (formerly known as Healtheway) 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); and
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

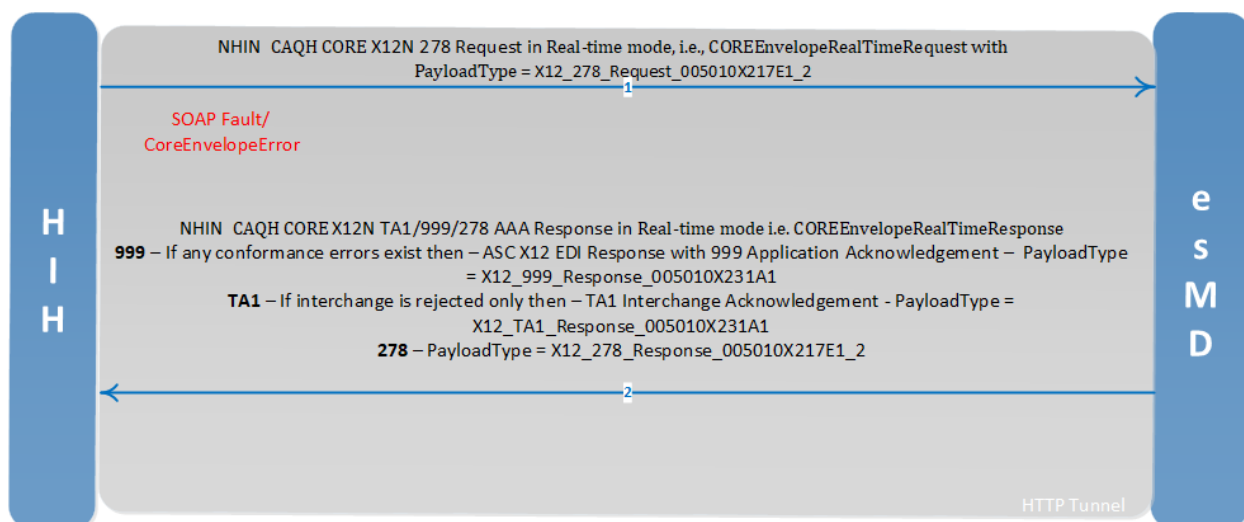


Figure 4: esMD Sample CAQH Real-Time X12N 278 Request

```
<?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*9555555555*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 CoreEnvelopeError; and
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 CoreEnvelopeError 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:
 - i. If there are any conformance errors, a 999 error response is generated, unless a TA1 rejection occurred. Refer to Section 6 in the esMD X12 275 Companion Guide (https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html) for additional information.
- d. 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. Refer to Section 6 in the esMD X12 278 Companion Guide (https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html) for additional information.

3.3.2 Traceability Between Requests and Responses

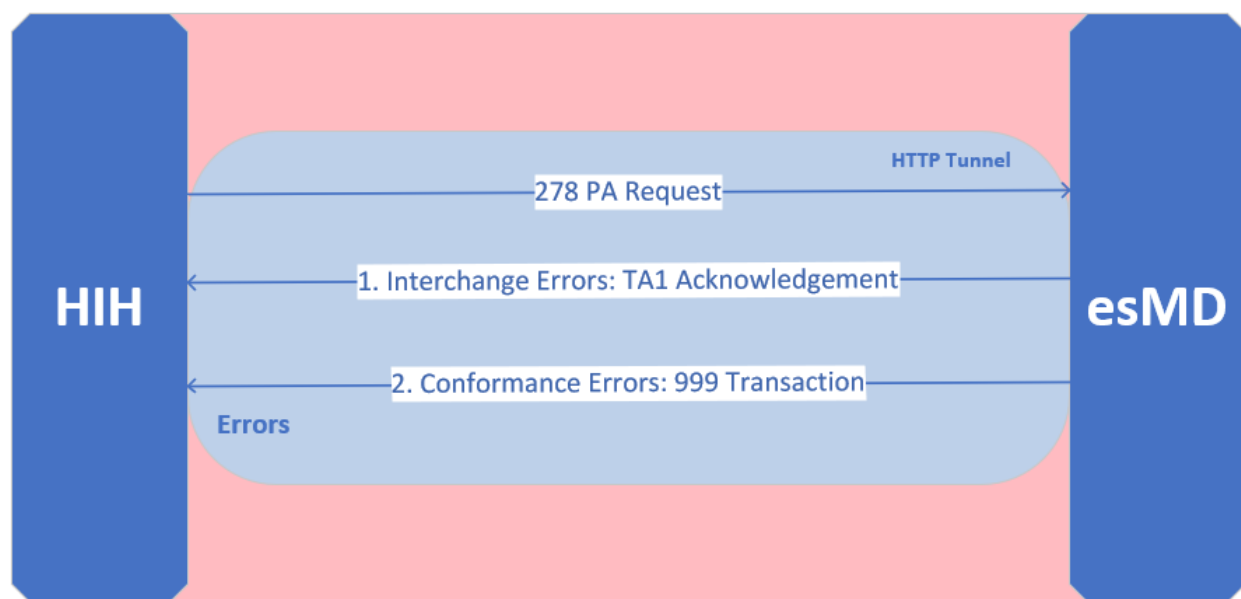
The X12 278 5010 provides several methods to trace documents between requesters and match them to responses to the original requests. Refer to Section 1.11.4 of the ASC X12N 278 5010 (005010X217) Implementation Guide (<http://store.x12.org/store/healthcare-5010-original-guides>) for additional information 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; and
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.

3.3.3 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:

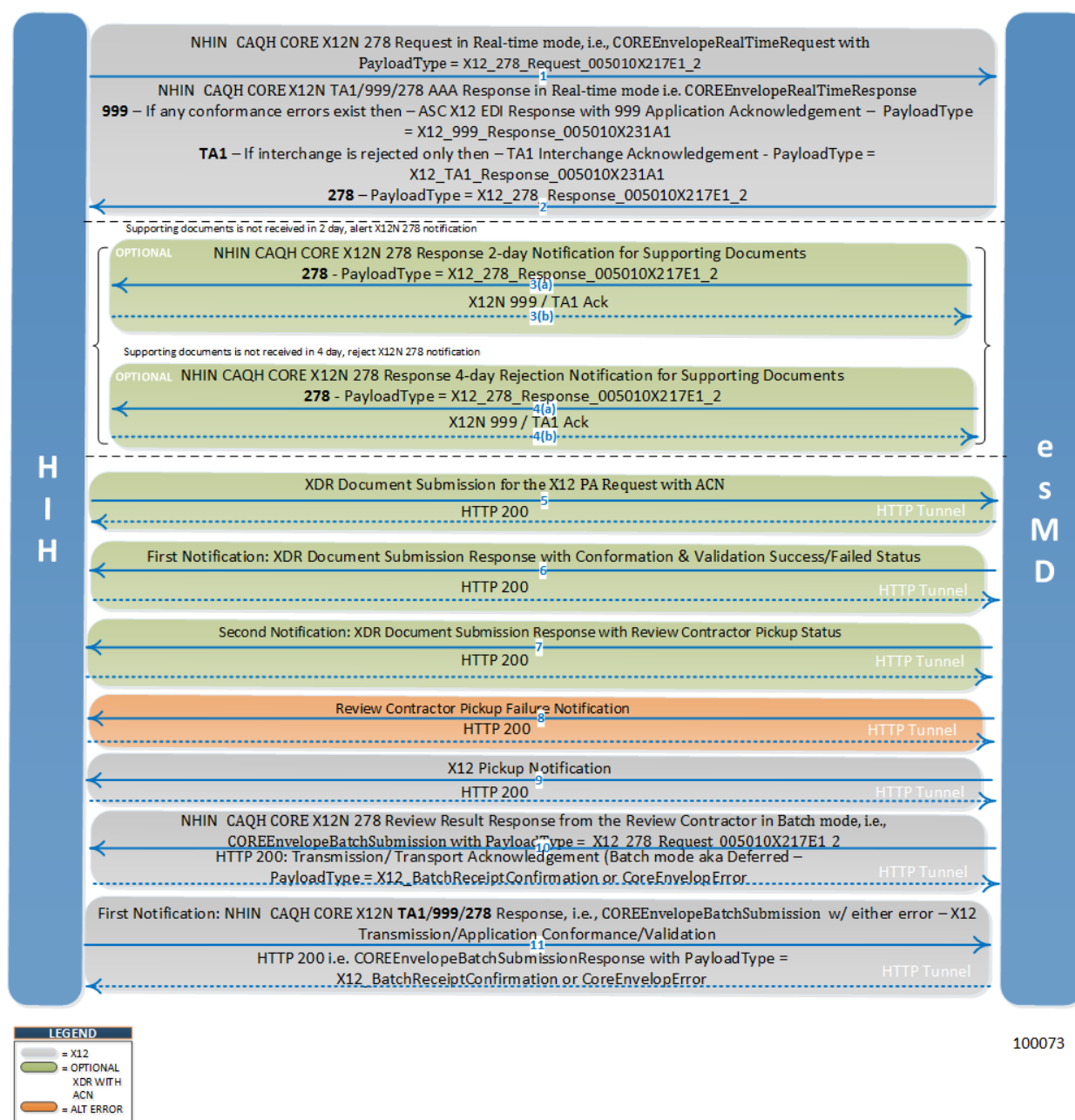
1. ASC X12 Interchange Envelope Conformance errors in the esMD ASC X12N 278 5010 transaction are communicated in an ASC X12 TA1 response. The possible TA1 error codes are located in the ASC X12 TA1 005010X231A1 Implementation Specification; and
2. ASC X12 Standard Conformance & Implementation Guide Conformance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

3.4 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



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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); and
- b. Batch mode (i.e., Deferred).

The HIIH 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 HIIH 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.

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 the batch modes, other than the response times, is that the MTOM is used for sending an attachment in batch mode;

- 5. The HIIH 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 HIIH 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 HIIH:
 - 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; and
 - c. A value of "Request pending; documentation should be sent immediately" in Segment "MSG" and Element Position "01" provides the action expected from the HIIH.
- 10. The HIIH responds to the 2-day notification with an X12N 999 success status or a 999 error/TA1 acknowledgement in case of error;
- 11. If the HIIH 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 HIIH:
 - 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"; and
 - 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 HIIH.
 - b. The HIIH responds with an X12N 999 success status or a 999 error/TA1 acknowledgement in case of error.

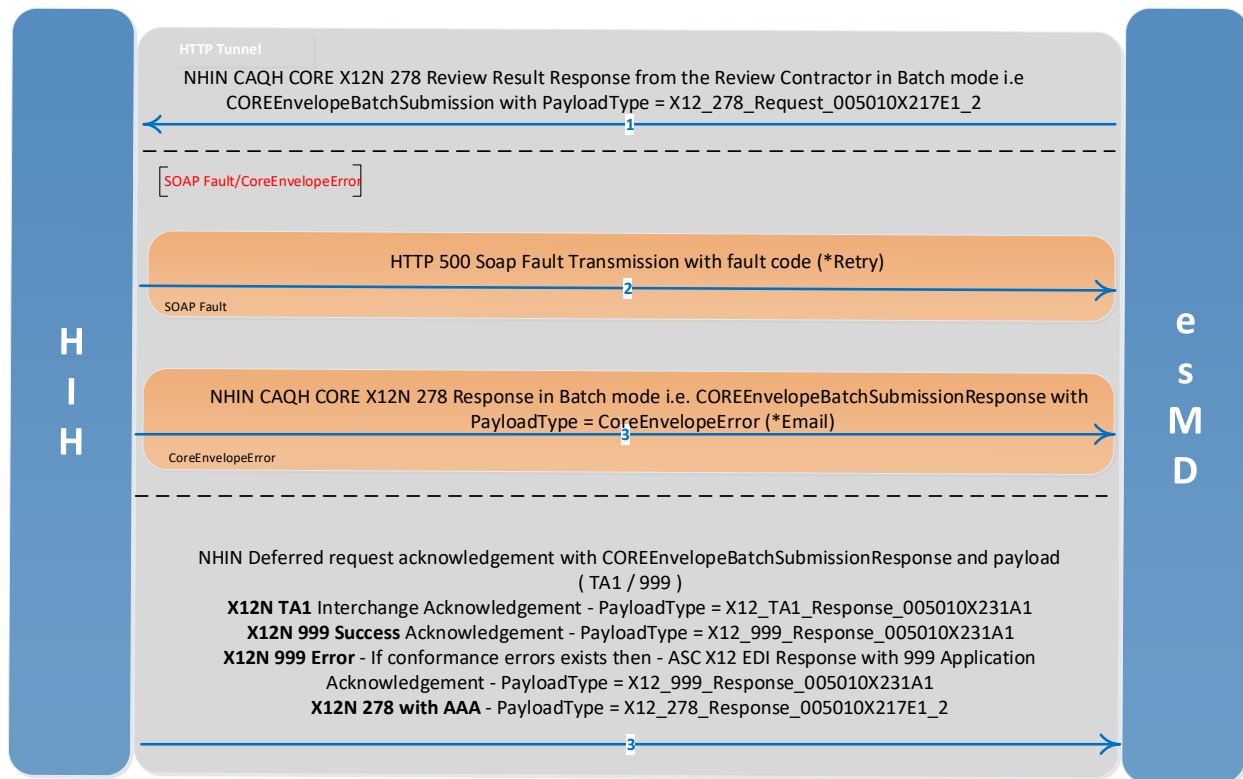
12. The HIH sends the supporting documentation to esMD in an XDR Deferred Document Submission or an X12N 275 Transaction with the ACN that corresponds to the X12N 278 5010 PA Request sent earlier;
13. The esMD packages the XDR additional documentation and the PA Request together and sends the package to the RC via Managed File Transfer (MFT):
 - a. The RC pulls the PA request package using the RC Client; and
 - 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; and
 - d. The esMD generates the X12N 278 5010 PA response as described in Section 3.5 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 3.5 The esMD to HIH - CAQH PA Review Result Response (Batch Mode)).

3.5 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; and
 - 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; and
 - 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); and
 - 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 3 hours;
 - c. The retries are limited to 3 attempts; and
 - 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; and
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; and
 - 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.

3.6 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

CORE Field	Requirement	Data Type	Definition	Value or Field Constraints for the esMD's eDoC
PayloadLength	R	Integer	Specifies the length of the actual payload in bytes.	Base 10
PayloadID	R	String	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. PayloadID conforms to International Organization for Standardization (ISO) Universally Unique Identifier (UUID) standards (described at ftp://ftp.rfc-editor.org/in-notes/rfc4122.txt), with hexadecimal notation, generated using a combination of local timestamp (in milliseconds) as well as the hardware (MAC) address, to ensure uniqueness.	The Payload ID must be unique for every 278 request
TimeStamp	R	dateTime	The Sender (request) or Receiver (response) TimeStamp combines time and date message metadata into a single Coordinated Universal Time (UTC) time stamp (including time zone information) specifying when a message is created and sent to a receiver. This does not require a shared time server for consistent time.	Date and Time the Message was created http://www.w3.org/TR/xmlschema11-2/#dateTime
SenderID	R	String	A unique business entity identifier representing the message envelope creator.	HIH OID
ReceiverID	R	String	A unique business entity identifier representing the next-hop receiver.	RC OID

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

3.7 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."

3.8 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 HIH 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

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), DMEPOS Requests; and the Pre-Claim Review Demonstration for Home Health Services, which is hereafter referred to as Home Health Pre-Claim Review (HHPCR).;
2. HIHs using a CONNECT Gateway must upgrade to CONNECT v4.4 (or higher); earlier versions of CONNECT are not compatible with CONNECT v4.4. 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 described in the *HIH esMD Implementation Guide*. For those 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) and DMEPOS PA Program, and HHPCR Requests with accompanying documentation continue to be accepted in XDR submissions using Content Type Codes 8.1, 8.3, or 8.4;
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 must be submitted only in SV2 segment and all other PA programs may be submitted in SV1 or SV2.
6. esMD accepts only one Transaction Set Header (ST)/Transaction Set Trailer (SE) set per X12N 278 Request;
7. esMD accepts up to 40 2000F Service Loops per X12N 278 Request;
Note: This is for HHPCR only.
8. 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;
9. 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; and
10. 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.
 - 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; and
- 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: While all diagnosis codes submitted must be valid, only the first five diagnosis codes are used by the medical reviewer.

- 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; and
 - 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; and
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
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

Segment ID	Loop ID	Segment Name	esMD Usage
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	O
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 61: 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. HIHs 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: 1. The Entity Identifier Code must be X3. 2. The Identification Code Qualifier must be PI. 3. 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. 4. 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 [https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html].
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.)

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)
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: 1. A valid city name must be submitted for the Requester. 2. A valid state code must be submitted for the Requester. 3. A valid U.S. Zip Code must be submitted for the Requester's City and State Code. If the Zip+4 is known, submit it without including the hyphen in the element value. 4. If the Requester is the Service Provider, the Patient must receive services in one of the states covered by the PA/PCR Program or the Ambulance must be garaged in a state covered by the Ambulance PA Program.
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	esMD Implementation Notes for Request: 1. Personal contact information is required for the Requester. 2. The Requester Contact Name submitted may also be the Requester's name as submitted in the Requester's 2010B.NM1 segment. 3. A Communication Number Qualifier element must be submitted. 4. The Requester Contact Communication Number element must contain the Requester's contact telephone number; if available, the extension should also be provided. 5. If an extension is available, it should be submitted using the Communication Number Qualifier of EX.
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 following the telephone number and use the Communication Number Qualifier = EX.

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
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 Name	Subscriber Level
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: 1. The Patient's (Beneficiary's) Identification Code Qualifier must be MI. 2. The Subscriber Member Number (Patient's Health MBI) must be submitted.
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
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.

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: 1. A valid Subscriber City Name must be submitted for the Patient. 2. A valid Subscriber State Code must be submitted for the Patient. 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.
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
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: 1. The Subscriber's Birth Date is required. 2. The Subscriber's Gender Code is required.
Example	DMG*D8*19611111*M~

Table 33: 2010C-DMG Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
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: 1. The Request Category Code must be HS. 2. The Certification Type Code must be I. 3. The Health Care Service Location Information must be present. 4. The elements UM05 through UM010 are not required by esMD. 5. For HHPCR, UM04-1 must be 32 and the UM04-2 must be A.
Example	UM*HS*1*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

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.
Example	DTP*AAH*RD8*20161020-20161219~

Table 40: Patient Diagnosis

Segment Name	Patient Diagnosis
Segment ID	HI
Loop ID	2000E
Usage	Optional
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 41: 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
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 42: Health Care Services Delivery

Segment Name	Health Care Services Delivery
Segment ID	HSD
Loop ID	2000E
Usage	Optional
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 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. 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. 3. If submitted in the HSD segment, the Quantity Qualifier must be FL. 4. One of the requested quantities in the 2000E.HSD, 2000F.HSD or 2000F SV1/SV2 segments must be greater than 0.
Example	HSD*FL*80~

Table 43: 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 44: Additional Patient Information

Segment Name	Additional Patient Information
Segment ID	PWK
Loop ID	2000E
Usage	Conditional
Max Use	10
Segment Notes	esMD Implementation Notes for Request: 1. If the Paperwork segment is not submitted in the Patient Event loop, it must be submitted in the 2000F Service loop. 2. The single ACN allowed per Request must be unique for each Requester NPI (2010B.NM109). 3. If multiple Report Type Codes (2000E.PWK01and/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. 4. The PWK06 element must be a minimum of 2 and a maximum of 40 in length an alphanumeric
Example	PWK*M1*EL***AC*ACN1~

Table 45: 2000E-PWK Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
PWK06	M	Attachment Control Number	Per esMD requirement	2000E.PWK06 must be alphanumeric (A-Z, a-z, or 0-9). The PWK06 element must be a minimum of 2 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. The X12N 275 2000A.TRN02 must = the X12N 278 2000E.PWK06.

Table 46: Patient Event Provider Name

Segment Name	Patient Event Provider Name
Segment ID	NM1
Loop ID	2010EA
Usage	Conditional
Max Use	10
Segment Notes	esMD Implementation Notes for Request: 1. esMD requires all provider information for PA requests must be submitted in the 2010EA loop. 2. If provider information is submitted in the 2010F Loop, the request will be rejected. 3. For all PA Program requests, except for the HHPCR Demonstration requests, if 2010EA loops are present, program coverage rules require the Patient Event Provider Name loops to have the Entity Identifier Code elements in two of the loops with one of the following combinations of values: a. (DK - Ordering Physician & SJ - Service Provider), b. (DK - Ordering Physician & FA - Facility), or c. The Entity Identifier Code must = SJ for DMEPOS Requests. 4. For HHPCR Demonstration requests: a. At least one 2010EA provider with NM101 value of FA must be submitted. b. The NM1 segment for the 2010EA provider with NM101 = FA may contain the same information as the NM1 information supplied for the Requester. c. The NM1 segment for the 2010EA provider with NM101 = FA is not required to contain the same information as the NM1 segment for the Requester. d. Up to a total of 14 providers may be submitted in the 2010EA loops for the HHPCR Requests; the Entity Identifier Code = SJ cannot be submitted for an HHPCR Demonstration request. e. Providers information cannot be submitted in 2010F loops; if submitted, esMD will reject the request. f. Normal TR3 edits will apply for the 2010EA providers submitted. g. For Operating Physician (72), information can be combined with DK, DN, or FA when an HHPCR procedure code is submitted in the 2000F/SV202-2.
Example	NM1*DK*1*HANDLE*CARE****XX*1234567893~

Table 47: 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 all optional provider types submitted, one of the following must be in the 2010EA/NM1: Operating Physician (72); Referring Provider (DN); or Attending Physician (71). For all PA Program requests, esMD requires that at least two Patient Event Provider Name loops (or Service Provider name loops) be submitted that use the required combination of codes. 2010EA.NM101 = DK and 2010EA.NM101 = (SJ or FA). (72) = Operating Physician(72) = Ordering Physician For DMEPOS, esMD requires that the Entity Identifier Code = SJ. Other Patient Event Providers may be submitted as deemed necessary by the Requester. OR For HPCR requests, esMD requires that at least one Patient Event Provider Name loop be submitted with an Entity Identifier Code = FA. Other Patient Event Providers may be submitted as deemed necessary by the Requester, as long as the Entity Identifier Code is not submitted with the value = SJ. For Operating Physician (72), information can be submitted with 71, DK, DN, or FA when an HPCR procedure code is submitted in 2000F/SV202-2.
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 48: 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 49: 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 50: 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	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 City, State, Zip Code 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 City, State, Zip Code segment to be submitted for the FA provider. 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. 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. 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. 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.
Example	N4*CINNATI*OH*43017~

Table 51: 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 52: 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 53: Professional Service

Segment Name	Professional Service
Segment ID	SV1
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. If 2000E.UM04 – 2 = B, the 2000F.SV1 segment is required. 2. Only one of the SV1 segment or the SV2 segment can be submitted within a single X12N 005010X217 (278) Request. 3. The Product or Service ID Qualifier must be HC. 4. Program coverage rules require the Procedure Code to be one of the following values: a. Non-Emergent, Repetitive, Scheduled Ambulance Transport: A0426 or A0428, b. 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.. 5. HHPCR must be submitted in the SV2 Segment. 6. Procedure Code Pricing Modifiers must be submitted in the SV101-3 and SV101-4 (Part B PA only) elements. 7. Program coverage rules require that only a primary procedure code be submitted. If a range of procedure codes is submitted, the request is rejected. 8. If the Service Unit Count is submitted in the SV1 segment, the Unit or Basis for Measurement Code (Quantity Qualifier) must be UN. 9. The requested Quantity Qualifier and requested Quantity must be submitted in the 2000E.HSD, 2000F.HSD, or SV1/SV2 segment. 10. One of the requested quantities in the 2000E.HSD, 2000F.HSD or SV1/SV2 segment must be an integer greater than zero. 11. We recommend submitting the requested Quantity Qualifier and requested Quantity in the 2000F SV1/SV2 segment.
Example	SV1*HC:A0428:QM**UN*30~

Table 54: 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.

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
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
SV101-2	M	Procedure Code	Valid Industry Code	2000F.SV101 – 2 must be a primary Procedure Code for one of the esMD PA Programs. See Table 53: Professional Service, SV1 segment notes for esMD-acceptable procedure codes. This component element is required if the composite element is submitted
SV103	M	Quantity Qualifier	UN	2000F.SV103 must = UN, if the Quantity Qualifier value and Quantity are not present 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 be an integer greater than 0.

Table 55: Institutional Service Line

Segment Name	Institutional Service Line
Segment ID	SV2
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 1. If 2000E.UM04 – 2 = A, the 2000F.SV2 segment is required. 2. Only one of the SV2 segment or the SV1 segment can be submitted within a single X12N 005010X217 (278) Request. 3. The Product Service Qualifier must be HC. 4. Program coverage rules require the Procedure Code to be one of the following values: a. Non-Emergent, Repetitive, Scheduled Ambulance Transport: A0426 or A0428 b. 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.. 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. 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 b. The Type of Bill (UM04 – 1) = 32 c. If the conditions in 5.a and 5.b are not met, esMD shall reject the HHPCR Request transaction. d. For any PA programs, if provider information is submitted in the 2010F loop, esMD will reject the Request transaction. 6. 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).) 7. 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. 8. If the Quantity is submitted in the SV2 segment, the Unit or Basis for Measurement Code (Quantity Qualifier) must be UN. 9. The Quantity Qualifier and requested Quantity must be submitted in the 2000E.HSD, the 2000F.HSD, or the 2000F SV1/SV2 segment. 10. One of the requested quantities in the 2000E.HSD, 2000F.HSD or SV1/SV2 segment must an integer greater than 0. 11. Submitting the Quantity Qualifier and requested Quantity in the 2000F SV1/SV2 segment are recommended.
Example	SV2**HC:A0428: *UN*80~

Table 56: 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

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
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 55: 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 57: Health Care Services Delivery

Segment Name	Health Care Services Delivery
Segment ID	HSD
Loop ID	2000F
Usage	Optional
Max Use	1
Segment Notes	esMD Implementation Notes for Request: 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. 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. 3. If submitted in the HSD segment, the Quantity Qualifier must be FL.
Example	HSD*FL*80~

Table 58: 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 59: Additional Service Information

Segment Name	Additional Service Information
Segment ID	PWK
Loop ID	2000F
Usage	Conditional
Max Use	10
Segment Notes	esMD Implementation Notes for Request: 1. If the Paperwork segment is not submitted in the Patient Event loop, it must be submitted in the Service loop. 2. The single ACN allowed per Request must be unique for each Requester NPI (2010B.NM109). 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.
Example	PWK*M1*EL***AC*ACN1~

Table 60: 2000F-PWK Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
PWK06	M	Attachment Control Number	Per esMD requirement	2000F.PWK06 must be a minimum of 2 and a maximum of 40 and alphanumeric (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. The X12N 275 2000A.TRN02 must = the X12N 278 2000F.PWK06.

Table 61: Transaction Set Trailer

Segment Name	Transaction Set Trailer
Segment ID	SE
Loop ID	Not assigned
Usage	Mandatory
Max Use	1
Segment Notes	This segment ends the transaction
Example	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 HHPCR provides an example for the esMD HHPCR Demonstration Program;
3. Figure 10: X12N 278 PA Request for DMEPOS provides an example of the esMD DMEPOS program;
4. Figure 11: Initial Pending X12N 278 Response to a Successful Submission provides an example of a response to a successful submission; and
5. Figure 12: X12N 278 Multiple Services Request.

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*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*OPERATINGPHYLASTNAME*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: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 HHPCR

```

ISA*00*                *00*                *ZZ*864267364        *ZZ*111222333
*180830*1346**+00501*000121796*0*P*:~
GS*HI*864267364  *111222333*20180830*134607*121796*X*005010X217~
ST*278*121796*005010X217~
BHT*0007*13*000121796*20180830*134607~
HL*1**20*1~
NM1*X3*2*NOVITAS*****PI*12302~
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*318642897A~
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**32:A~
DTP*439*D8*20181101~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20181101-20190101~
PWK*77*FX***AC*HHPCRSPRACHATAHCNTLNJL1VA8266~
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*1*0001-201501150001COVERTEST-HHS*955555555*HHPCRREQUEST~
DTP*472*D8*20181101~
SV2**HC:G0493**UN*1~
HL*6*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHS*955555555*HHPCRREQUEST~
DTP*472*D8*20181102~
SV2**HC:G0494**UN*1~
SE*36*121796~
GE*1*121796~
IEA*1*000121796~

```

Figure 10: X12N 278 PA Request for DMEPOS

```

ISA*00*                *00*                *ZZ*697268264        *ZZ*111222333
*180830*1358*+*00501*000121797*0*P*:~
GS*HI*697268264      *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*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*216758640A~
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*20181101~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20181101-20190101~
PWK*77*FX***AC*DMEPOSSPRACHATACHCNTLNJL1VA8266~
NM1*SJ*1*Tay*Jodi****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*1*0001-201501150001COVERTTEST-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: 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 12: X12N 278 Multiple Services Request

```

ISA*00*                *00*                *ZZ*516846841        *ZZ*111222333
*180830*1644*+*00501*000121798*0*P*:~
GS*HI*516846841*111222333*20180830*164436*121798*X*005010X217~
ST*278*121798*005010X217~
BHT*0007*13*000121798*20180830*164436~
HL*1**20*1~
NM1*X3*2*FISS SSM*****PI*00080~
HL*2*1*21*1~
NM1*FA*2*Guaranteed Medical Services, INC*****XX*1609037787~
N3*6619 N Archer Ave~
N4*Chicago*IL*60638~
PER*IC*Susie Smith*TE*1231231234*EM*susie.smith@testmail.com~
HL*3*2*22*1~
NM1*IL*1*Black*Sherri****MI*816847501B~
N3*123 Main Street~
N4*Jacksonville*FL*32256~
DMG*D8*19400101*F~
HL*4*3*EV*1~
TRN*1*201507221235*1311235567*NEUROLOGY~
UM*HS*I**11:B~
DTP*AAH*RD8*20181101-20190101~
HI*ABK:A021~
NM1*71*1*Grossnickle*R*****XX*1821186313~
N3*123 Main Street~
N4*Dallas*TX*75240~
NM1*FA*2*Guaranteed Medical Services, INC*****XX*1609037787~
N3*6619 N Archer Ave~
N4*Chicago*IL*60638~
NM1*72*1*OpGrossnickle*OpR*****XX*1821186313~
N3*123 Main Street~
N4*Dallas*TX*75240~
HL*5*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0151**UN*5~
HL*6*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0157**UN*1~
HL*7*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0159**UN*1~
HL*8*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0152**UN*1~
HL*9*4*SS*0~
TRN*1*0001-201501150001COVERTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0158**UN*1~

```

```
HL*10*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0160**UN*1~
HL*11*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0153**UN*1~
HL*12*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0161**UN*1~
HL*13*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0299**UN*1~
HL*14*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0300**UN*1~
HL*15*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0162**UN*1~
HL*16*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0155**UN*1~
HL*17*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0156**UN*1~
HL*18*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0493**UN*1~
HL*19*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0494**UN*1~
HL*20*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0495**UN*1~
HL*21*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-HHPCR*9555555555*HHPCRREQUEST~
SV2**HC:G0496**UN*1~
SE*80*121798~
GE*1*121798~
IEA*1*000121798~
```


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 and 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 and 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 their next business day;
 - b. The X12N 278 Response transaction, with an indication that the decision is now pending the 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. Certified (Affirmed);
 - b. Modified (Affirmed with Changes);
 - c. Not Certified (Denied);
 - d. Rejected (AAA Response); or
 - 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/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; or
 - 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; and
 - h. Any 2010EA NM1 segments received in the X12N 278 Request are returned in the 2010EA segments of Response.
11. All outbound X12N 278 Responses sent by esMD to HIHs contain:
 - a. ISA13 holds 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; and
 - 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 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; and
 - ii. In the TRN03 element, the value will be returned as "9ESMDSYSTEM".
 - e. If submitted, inbound 2000E TRN segments are returned in the Response in the second and third TRN segments; and
 - f. If submitted, inbound 2000F TRN segments are returned in the Response.
12. 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 (:); and
 - d. The Segment Terminator is a tilde (~);

13. Table 62: esMD X12N 278 Response Transactions provides specific information on the X12N 278 Responses sent to HIHs;
14. 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;
15. If esMD is unable to successfully deliver an X12N 278 Response transaction, delivery is retried in 4 hours; up to three delivery retries are conducted;
16. Table 63: 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; and
17. 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. If changes are made, the website will be updated.

Table 62: 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	1. BHT06 = 18 2. AAA03 = 79 3. The first 2000E TRN segment contains the esMD-assigned 15-alphanumeric-character Transaction ID: a. 2000E.TRN01 = 1 b. 2000E.TRN02 = esMD Transaction ID c. TRN03 = 9 ESMDSYSTEM	This covers errors in the UMO Name segment. ErrorCode>Failure</ErrorCode> <ErrorMessage>FAILURE-OLD 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.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
1.d.	Initial Submission Response within 20 seconds	Successful submission	278/HCR	1. BHT06 = 19 2. 2000E.HCR01 = A4 3. 2000E.HCR03 = 0U (zero, U) 4. The first 2000E TRN segment contains the esMD-assigned 15-alphanumeric-character Transaction ID: a. 2000E.TRN01 = 1 b. 2000E.TRN02 = esMD Transaction ID 5. 2000E.MSG01 = "Request accepted; awaiting supporting documentation"	The inbound Request remains pending in esMD until receipt of accompanying documentation via 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	1. BHT06 = 19 2. 2000E.HCR01 = A4 3. 2000E.HCR03 = 0P (zero, P) 4. The first 2000E.TRN segment as defined in row 1.d. above 5. 2000E.MSG01 = "Request pending; documentation should be sent immediately"	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	1. BHT06 = 18 2. The first 2000E.TRN segment as defined in row 1.d. above 3. 2000E.HCR01 = C 4. 2000E.HCR03 = 0P (zero, P) 5. 2000E.MSG01 = "Supporting documentation was not received within the time limit; resubmit your request along with supporting documentation"	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

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
3.	Delivered to RC	RC Pickup Notification	278/HCR	1. BHT06 = 19 2. The first 2000E.TRN segment as defined in row 1.d. above 3. 2000E.HCR01 = A4 4. 2000E.HCR03 = 0B (zero, B) 5. 2000E.MSG01 = "Medical Review in progress; awaiting decision"	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 included as a metadata element of the XDR transaction or X12 275 containing the documentation. 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.
4.a.	RC Response	Certified in total (Affirmed Decision)	278/HCR	1. BHT06 = 18 2. The first 2000E.TRN segment as defined in row 1.d. above 3. 2000E.HCR01 and 2000F.HCR01 = A1 4. 2000E.HCR02 and 2000F.HCR02 = RC issued Unique Tracking Number (UTN) value 5. 2000E.HCR03, 2000E.HCR04, 2000F.HCR03 and 2000F.HCR04 are not sent. 6. The approved quantity is returned in 2000F.SV1/SV2. 7. The approved Service Date/Date Range is returned in 2000F.DTP, where DTP01 equals 472.	1. The RC provides an Affirmed decision following review of the Request and documentation. 2. All relevant loops and segments from the Request are sent in the Response.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
4.b.	SSM Response	Partially Affirmed	278/HCR	1. BHT06 = 18. 2. The first 2000E.TRN segment as defined in row 1.d. above. 3. 2000E.HCR01 = A2 and 2000F.HCR01 can be any combination of A1, A3, and A6 in any order. 4. 2000E and 2000F.HCR02 = UTN. 5. 2000E.HCR03 is not sent. 6. 2000F and 2000E.HCR04 are empty. 7. 2000E.REF01 is not sent. 8. 2000E.REF02 is not sent. 9. The approved quantity is returned in 2000F.SV1/SV2. 10. The approved Service Date/Date Range is returned in 2000F.DTP, where DTP01 = 472. 11. All other DTP segments, except where DTP01 = AAH, is returned in the Response if it was submitted in the Request. 12. 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.	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. 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. 3. In addition, the RC may provide a PA/PCR Program Reason Code(s) indicating the reason(s) for the change. 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. 5. To determine which loop(s) are used for the MSG segment, esMD looks for a TRN segment. 6. A TRN segment is always present in the 2000E loop, so the MSG segment is sent in the 2000E loop. 7. If there are TRN segments in both the 2000E and 2000F loops, then the MSG segment is sent in both loops. 8. All relevant loops and segments from the Request are sent in the Response.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
4.b.1	RC Response	278/HCR	Modified Decision	1. BHT06 = 18 2. The first 2000E.TRN segment as defined in row 1.d. above. 3. 2000F and 2000E . HCR01=A6. 4. The approved quantity is returned in 2000F.SV1/SV2	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. 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. 3. In addition, the RC may provide a PA/PCR Program Reason Code(s) indicating the reason(s) for the change. 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. 5. To determine which loop(s) are used for the MSG segment, esMD looks for a TRN segment. 6. A TRN segment is always present in the 2000E loop, so the MSG segment is sent in the 2000E loop. 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.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
4.c.	SSM Response	Non-Affirmed Decision	278/HCR	1. BHT06 equals 18 2. The first 2000E.TRN segment as defined in row 1.d. above 3. 2000F.HCR01 and 2000E.HCR01 equal A3 4. 2000F.HCR02 and 2000E.HCR02 are empty 5. 2000F.HCR03 and 2000E.HCR03 contain the Industry denial codes sent by the RC 6. 2000F.HCR04 and 2000E.HCR04 are empty 7. 2000F.REF01 and 2000E.REF01 equal NT 8. 2000F.REF02 and 2000E.REF02 equal the UTN sent by the RC 9. 2000E.MSG01 and/or 2000F.MSG01 contains the Program Reason Code(s) sent by the RC	1. The SSM provides a “Non-Affirmed” decision. 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. 3. The SSM must also provide at least one PA/PCR Program Reason Code indicating the reason(s) for the denial. 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. 5. To determine which loop(s) are used for the MSG segment, esMD looks for a TRN segment. 6. A TRN segment is always present in the 2000E loop, so the MSG segment is sent in the 2000E loop. 7. If there are TRN segments in both the 2000E and 2000F loops, the MSG segment is sent in both loops. 8. All relevant loops and segments from the Request are sent in the Response.
4.d	SSM Response	Canceled Decision Response	278/HCR	1. BHT06 equals 18 2. The first 2000E.TRN segment as defined in row 1.d. above 3. 2000E.HCR01 equal C 4. 2000E.HCR02 is empty 5. 2000E.HCR03 is empty 6. 2000E.HCR04 is empty 7. 2000E.MSG01 contains the Administrative Error Code(s) sent by the RC	1. The SSM sends Administrative errors, and the RC reviewer will enter an error code. 2. All relevant loops and segments from the Request are sent in the Response.
4.e.1	SSM Response	Error Reject Response	278/AAA	1. BHT06 = 18 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)	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.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
4.e.2	SSM Response	Error Reject Response	278/AAA	3. See Table 63: 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)	- Some error codes may be used for multiple error conditions. An example is the error code 44, which may be used as follows: - First and/or Last name is missing/invalid; - NPI does not match the Name of the Physician. - In addition, the SSM must provide at least one Program Reason Code indicating the reason for the rejection. - 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. - 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 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.) - 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.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
4.e.3	SSM Response	Error Reject Response	278/AAA	a. Request sent to wrong SSM – Ambulance PA Reason Codes = AMB1A, AMB1B, AMB1C, or AMB1D; b. Request does not fall under the pilot states – AMB PA Reason Codes = AMB1E; c. SSM marked the request as duplicate – AMB PA Reason Code = AMB1F; 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; (continued on next page)	No additional information to present.

Row #	Business Situation	Response Condition	Response Type	Response Values	Notes
4.e.4	RC Response	Error Reject Response	278/AAA	e. An appropriate Error Category/Error Code cannot be 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). f. The Business Owner will provide similar PA/PCR Reason Codes for the other PA/PCR Programs. g. These error situations are in addition to the original error defined in Appendix A for the Medical-Info error code = 33 4. MSG01 contains the PA/PCR Program Reason Code(s) sent by the SSM for the Error Reject Responses. 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.	No additional information to present.

Table 63: 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>

Row #	Category (Loop)	Business Process Activity / Condition to Satisfy	AAA03 – Reject Reason Code
2	Requester (2010B)	Requester - NPI must be present, be numeric, begin with “1”, pass algorithm validation, and be found in the crosswalk	43 - Invalid/Missing Provider Identification
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	64 - 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	65 - 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	65 - Invalid/Missing Patient Name
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	43 - 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	43 - 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

Row #	Category (Loop)	Business Process Activity / Condition to Satisfy	AAA03 – Reject Reason Code
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)
23	Facility (2010EA)	X12N 278 Response - Facility - NPI must be present, numeric, begin with “1”, pass algorithm validation, and be found in the crosswalk	43 - 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	Medical-Info (2000E or 2000F)	X12N 278 Response - Diagnosis Code Qualifier must be valid if present	AF - Invalid/Missing Diagnosis Code(s)
29	Medical-Info (2000E or 2000F)	X12N 278 Response - Diagnosis Code must be valid for the Diagnosis Code Qualifier	AF - Invalid/Missing Diagnosis Code(s)
30	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)
31	Medical-Info (2000E or 2000F)	X12N 278 Response - Procedure Code must be valid for the Diagnosis Code	AG - Invalid/Missing Procedure Code(s)
32	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)
33	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)
34	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
35	Medical-Info (2000E or 2000F)	X12N 278 Response - Proposed Date/Date Range must be present and valid	57 - Invalid/Missing Date(s) of Service
36	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 64: Response Interchange Control Header through Table 69: 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 64: Response Interchange Control Header

Segment Name	Interchange Control Header		
Segment ID	ISA		
Loop ID	Not assigned		
Usage	Mandatory		
Max Use	1		
Segment Notes	All positions within each data element in the ISA segment must be filled. Delimiters are specified in the interchange header segment. The character immediately following the segment Identifier, /ISA, 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.		
	Character	Name	Delimiter
	*	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*0P*+~		

Table 65: 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 66: 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 67: 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 68: 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 69: 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 70: 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 70 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 70: 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 Cancellation (documentation not received timely);
5. PU: RC Pickup Notification – awaiting Medical Review;
6. AF: Affirmed Decision Response;
7. NAF: Non-Affirmed Decision Response;
8. ERR: Shared System (Fiscal Intermediary Shared System (FISS), Multi-Carrier System (MCS), or Viable Information Processing System (VIPS) Medicare System (VMS)) or RC Error Reject Response;
9. PA: Partially Affirmed Decision Response; and
10. M: Modified Decision Response
11. AEC: Admin Error Cancellation.

Table 70: X12N 278 Response Segments

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	ERR	PA	AEC
ST	Not assigned	Transaction Set Header	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
HL	Loop ID-2000A	Utilization Management Organization (UMO) Level	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
AAA	2010A	Utilization Management Organization (UMO) Request Validation	NS	M	NS	NS	NS	NS	NS	NS	NS	NS
HL	Loop ID-2000B	Requester Level	M	NS	M	M	M	M	M	M	M	M
NM1	Loop ID-2010B	Requester Name	M	NS	M	M	M	M	M	M	M	M
AAA	2010B	Requester Request Validation	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
PRV	2010B	Requester Provider Information	NS	NS	NS	NS	NS	C	C	C	C	NS
HL	Loop ID-2000C	Subscriber Level	M	NS	M	M	M	M	M	M	M	M
NM1	Loop ID-2010C	Subscriber Name	M	NS	M	M	M	M	M	M	M	M
AAA	2010C	Subscriber Request Validation	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
HL	Loop ID-2000E	Patient Event Level	M	NS	M	M	M	M	M	M	M	M

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	ERR	PA	AEC
TRN	2000E	Patient Event Tracking Number (esMD Transaction ID)	M	NS	M	M	M	M	M	M	M	M
TRN	2000E	Patient Event Tracking Number	C	C	C	C	C	C	C	C	C	C
AAA	2000E	Patient Event Request Validation	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
UM	2000E	Patient Event Health Care Services Review Information	M	M	M	M	M	M	M	M	M	M
HCR	2000E	Patient Event Health Care Services Review	M	NS	M	M	M	M	M	NS	M	M
HI	2000E	Patient Diagnosis	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
DTP	2000E	Accident Date	NS	NS	NS	NS	NS	C	C	C	C	C
DTP	2000E	Last Menstrual Period Date	NS	NS	NS	NS	NS	C	C	C	C	C
DTP	2000E	Estimated Date of Birth	NS	NS	NS	NS	NS	C	C	C	C	C
DTP	2000E	Onset of Current Symptoms or Illness Date	NS	NS	NS	NS	NS	C	C	C	C	C
DTP	2000E	Event Date	NS	NS	NS	NS	NS	NS	NS	M	NS	NS
HSD	2000E	Patient Event Health Care Services Delivery	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
CL1	2000E	Institutional Claim Code	NS	NS	NS	NS	NS	C	C	C	C	NS
CR1	2000E	Ambulance Transport Information	NS	NS	NS	NS	NS	C	C	C	C	NS
CR2	2000E	Spinal Manipulation Service Information	NS	NS	NS	NS	NS	C	C	C	C	NS
CR5	2000E	Home Oxygen Therapy Information	NS	NS	NS	NS	NS	C	C	C	C	NS
CR6	2000E	Home Health Care Information	NS	NS	NS	NS	NS	C	C	C	C	NS
MSG	2000E	Patient Event Message Text	M	NS	M	M	M	NS	M	M	C	NS
NM1	Loop ID-2010EA	Patient Event Provider Name	NS	NS	NS	NS	NS	C	C	C	C	NS

Segment ID	Loop ID	Segment Name	20-S	20-S Err	2D	4D	PU	AF	NAF	ERR	PA	AEC
N3	2010EA	Patient Event Provider Address	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
N4	2010EA	Patient Event Provider City, State, Zip Code	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
AAA	2010EA	Patient Event Provider Request Validation	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
PRV	2010EA	Patient Event Provider – Provider Information	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
HL	Loop ID-2000F	Service Level	C	NS	C	C	C	M	M	M	M	NS
TRN	2000F	Service Trace Number	C	NS	C	C	C	C	C	C	C	NS
AAA	2000F	Service Request Validation	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
UM	2000F	Service Health Care Services Review Information	NS	NS	NS	NS	NS	C	C	C	C	NS
HCR	2000F	Service Health Care Services Review	NS	NS	NS	NS	NS	M	M	NS	M	NS
REF	2000F	Service Administrative Reference Number	NS	NS	NS	NS	NS	NS	M	NS	NS	NS
DTP	2000F	Service Date	NS	NS	NS	NS	NS	M	M	C	M	NS
SV1	2000F	Professional Service	NS	NS	NS	NS	NS	C	C	C	C	NS
SV2	2000F	Institutional Service Line	NS	NS	NS	NS	NS	C	C	C	C	NS
HSD	2000F	Service Health Care Services Delivery	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
MSG	2000F	Service Message Text	NS	NS	NS	NS	NS	NS	M	C	C	NS
AAA	2010FA	Service Provider Request Validation	NS	NS	NS	NS	NS	NS	NS	C	NS	NS
SE	Not assigned	Transaction Set Trailer	M	M	M	M	M	M	M	M	M	M

6.4 Segment and Data Element Description

Table 71: Segment and Data Element Description through Table 142: 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 71: 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 72: 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 73: Beginning of Hierarchical Transaction

Segment Name	Beginning of Hierarchical Transaction
Segment ID	BHT
Loop ID	Not assigned
Usage	Required
Max Use	1
Segment Notes	1. This segment identifies the transaction as a response and contains the transaction creation date and time. 2. The Transaction Type Code must be either “18” or “19”.
Example	BHT*0007*11*3920394930203*20161101*16154538*18~

Table 74: 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

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
BHT06	M	Transaction Type Code	18 19	BHT06 = 18 (final response): 1. Initial Submission Response within 20 seconds - Error occurring at the 2010A level; 2. Waiting for Delivery to RC – 4-Business Day Cancellation; 3. RC Response - Certified in total (Affirmed Decision); 4. RC Response - Modified (Affirmed with Changes Decision); 5. RC Response - Non-Affirmed Decision; 6. RC Response - Error Reject Response; a. The RC may send AAA errors at the 2010B, 2010C, 2000E, 2010EA, 2000F, and/or 2010FA level(s); b. See Table 63: 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): 1. Initial Submission Response within 20 seconds - Successful submission; 2. Waiting for Delivery to RC – 2-Business Day Warning; 3. Delivered to RC - RC Pickup Notification.

Table 75: 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 76: 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 77: 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 78: UMO Request Validation

Segment Name	UMO Request
Segment ID	MSG
Loop ID	2010A
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 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.
Example	ErrorCode>Failure</ErrorCode> <ErrorMessage>FAILURE-OID provided under ReceiverID element is not associated with the Workload Number provided at 2010A/NM109</ErrorMessage>

Table 79: 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 80: Requester Level

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

Table 81: Requester Name

Segment Name	Requester Name
Segment ID	NM1
Loop ID	2010B
Usage	Mandatory
Max Use	1
Segment Notes	This segment identifies the entity that initiated the health care service request.
Example	NM1*1P*1*SMITH*MUFFY*M**PH.D*XX*111111112~

Table 82: 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 83: 2010B-AAA Segment Information

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

Table 84: 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 85: 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 86: 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 87: 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 88: 2010C-AAA Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
AAA03	M	Reject Reason Code	58 64 65 66 95 67 68 71 72 73 74 75 76 77 78 79	58 - Invalid/Missing Date-of-Birth 64 - Invalid/Missing Patient ID 65 - Invalid/Missing Patient Name 66 - Invalid/Missing Patient Gender Code 95 - Patient Not Eligible 67 – Patient Not Found 68 – Duplicate Patient ID Number 71 – Patient Birth Date does not match that for the Patient in the Database 72 – Invalid/Missing Subscriber/Insured ID 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 89: 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 90: 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 “9ESMDSYSTM” in this first TRN segment for 2000E.
Example	TRN*1*RWP000000009434*9ESMDSYSTM~

Table 91: 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-character Transaction ID, which informs the HIH that the TRN02 value in the 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 92: Patient Event Tracking Number

Segment Name	Patient Event Tracking Number
Segment ID	TRN
Loop ID	2000E
Usage	Conditional
Max Use	2
Segment Notes	This segment uniquely identifies a transaction to an application. There can be a maximum of three TRN segments. esMD Implementation Notes for Response: 1. The first TRN segment is defined in Table 90: Patient Event Tracking Number (esMD 15-Alphanumeric-Character Transaction ID) and there may be two possible TRN segments that were submitted in the Request. 2. If the HIH sends the TRN in the request; esMD returns the segment with TRN01=2.
Example	TRN*2*12345678900987654321768958473*1311234567*500~

Table 93: 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 94: Patient Event Request Validation

Segment Name	Patient Event Request Validation
Segment ID	AAA
Loop ID	2000E
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**44*C~

Table 95: 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 96: 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 97: 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 98: 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: 1. Initial Submission Response within 20 seconds; Successful submission; 2. Waiting for Delivery to RC; 2– Business Day Warning; 3. Delivered to RC; RC Pickup Notification 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

Reference Designator	Usage	Element Name and Valid Values	Valid Values	esMD Requirement or Element Description
HCR03	C	Review Decision Reason Code	0U 0P 0B	Pending Response – Waiting for Delivery to the RC: 1. 0U (zero, U) Successful Submission (initial 20-second response): 2. 0P (zero, P) 2–Business Day Warning 3. 0B (zero, B) RC Pickup Notification Cancellation: 0B (zero, B) 4–Business Days without delivery of documentation 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 99: 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 100: 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 101: 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 102: 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 103: 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 104: 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 105: 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 106: 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 107: 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 108: Ambulance Transport Information

Segment Name	Ambulance Transport Information
Segment ID	CR1
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 109: Spinal Manipulation Service Information

Segment Name	Spinal Manipulation Service Information
Segment ID	CR2
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 110: Home Health Care Information

Segment Name	Home Health Care Information
Segment ID	CR6
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 111: Message Text

Segment Name	Message Text
Segment ID	MSG
Loop ID	2000E
Usage	Conditional
Max Use	1
Segment Notes	This segment provides a free-form format at the Patient Event level that allows the transmission of text information. esMD Implementation Notes for Response: 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. 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 112: Segment Information. 3. The Program Reason Codes can be found on the CMS website: https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html. 4. The reason code for the Administrative Error is sent by the RC.
Example	MSG*AMB12~ or MSG*UTN:RCUTN1234 ;AMB12~ (The space between the colon (:) and the semi-colon (;) of MSG01 is 50 characters.)

Table 112: Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
MSG01	M	Free-form Message Text	Per esMD requirement	1. Initial Submission Response within 20 seconds: Successful submission: 2000E.MSG01 = Request accepted; awaiting supporting documentation. 2. Waiting for Delivery to RC: 2-Business Day Warning: 2000E.MSG01 = Request pending; documentation should be sent immediately. 3. Waiting for Delivery to RC: 4-Business Day Cancellation: 2000E.MSG01 = Supporting documentation was not received within the time limit; resubmit your request along with supporting documentation. 4. Delivered to RC: RC Pickup Notification: 2000E.MSG01 = Medical Review in progress; awaiting decision. 5. RC Response: Error Reject Response: 2000E.MSG01 contains the Program Reason Code(s) sent by the RC for the Error Reject Responses. 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. 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>. 6. RC Response: Administrative Errors. The reason code for the Administrative Error sent by the RC.

Table 113: 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 114: 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 115: 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 Response: Returned only if RC responds with AAA error(s) at this level, if submitted in the Request.
Example	N3*610 PEACH ST~

Table 116: 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 117: Patient Event City, State, Zip Code

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

Table 118: 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 119: Patient Event Provider Request Validation

Segment Name	Patient Event Provider Request Validation
Segment ID	AAA
Loop ID	2010EA
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**44*C~

Table 120: 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 s 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 121: 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 122: 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 123: 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 124: 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 125: 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 126: 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 127: 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 Cancellations for documentation not received or Administrative Errors sent by an RC (not for Error Rejects).
Example	HCR*A3**0F~

Table 128: 2000F-HCR Segment Information

Reference Designator	Usage	Element Name	Valid Values	esMD Requirement or Element Description
HCR01	M	Certification Action Code	A1 A3 A4 A6 A2 C	RC Responses: A1 - Certified in total (Affirmed Decision) A3 – Not Certified (Non-Affirmed Decision) A2 – Partially Affirmed A4 - Pending: 1. Initial Submission Response within 20 seconds; successful submission; 2. Waiting for Delivery to RC; 2– Business Day Warning; and 3. Delivered to RC; RC Pickup Notification. A6 - Modified (Affirmed with Changes Decision). C - Canceled: 1. Administrative Errors; and 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”.
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	Pending Response – Waiting for Delivery to the RC: 1. 0U (zero, U) Successful Submission (initial 20-second response): 2. 0P (zero, P) 2 – Business Day Warning 3. 0B (zero, B) RC Pickup Notification Cancellation: 0B (zero, B) 4 – Business Days without delivery of documentation 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.

Table 129: 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 130: 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 131: Service Date

Segment Name	Service Date
Segment ID	DTP
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: 1. The Patient Event Date/Date Range is returned in RC Decision Responses in the Service Date/Date Range. 2. The Service Date/Date Range is returned only in RC Error Rejects, if submitted in the Request. 3. No other 2000F.DTP segments are sent in the Response.
Example	DTP*472*RD8*20161131-20161231~

Table 132: 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: 1. The approved Patient Event Date/Date Range is returned in 2000F.DTP, where DTP01 = “472”. 2. For RC Error Rejects (AAA) only, the Service Date/Date Range is returned, if submitted in the Request.

Table 133: Professional Service

Segment Name	Professional Service
Segment ID	SV1
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: 1. The SV1/SV2 segment is returned only in RC Responses. 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
Example	SV1*HC:G0277~

Table 134: 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	1. The approved Quantity is returned in RC Affirmed and Modified Responses. 2. The submitted Quantity is returned in Rejected Responses

Table 135: Institutional Service Line

Segment Name	Institutional Service Line
Segment ID	SV2
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: 1. The SV1/SV2 segment is returned only in RC Responses. 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
Example	SV2**HC:G0155:22*10.5*UN*3!

Table 136: 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	1. The approved Quantity is returned in RC Affirmed and Modified Responses 2. The submitted Quantity is returned in Rejected Responses

Table 137: 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 138: Message Text

Segment Name	Message Text
Segment ID	MSG
Loop ID	2000F
Usage	Conditional
Max Use	1
Segment Notes	esMD Implementation Notes for Response: 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. 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 139: 2000F-MSG Segment Information. 3. The PA/PCR Program Reason Codes can be found on the CMS website: https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/ESMD/Information_for_HIHs.html
Example	MSG*AM99A~or MSG*UTN:RCUTN1234 ;AMB12~ (The space between the colon (:) and the semi-colon (;) of the MSG is 50 characters.)

Table 139: 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	1. Initial Submission Response within 20 seconds: Successful submission: 2000F.MSG01 = Request accepted; awaiting supporting documentation. 2. Waiting for Delivery to RC: 2–Business Day Warning: 2000F.MSG01 = Request pending; documentation should be sent immediately. 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. 4. Delivered to RC: RC Pickup Notification: 2000F.MSG01 = Medical Review in progress; awaiting decision. 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. 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. 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>.

Table 140: Service Provider Request Validation

Segment Name	Service Provider Request Validation
Segment ID	AAA
Loop ID	2010FA
Usage	Conditional
Max Use	9
Segment Notes	This segment specifies the validity of the request and indicates the authorized follow-up action. 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.
Example	AAA*N**AG*C~

Table 141: 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 142: 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

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

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

8. HHPER Multiple Services

The esMD system shall start accepting multiple HHPER services in one request in the form of X12N 278 and XDR focused on the business use case of receiving and processing multiple HHPER services in a single transactional interaction from the HIH to the RC.

8.1 Submission of Multiple HHPER Services

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

8.2 PA/HHPER Responses

The current esMD process provides decision responses to one item/service per PA or HHPER response to the HIH. esMD also provides decision responses to multiple items/services per PA or PCR response to HIHs, and 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 HHPER 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.

Note: Even though the impact to HIHs for HHPER initiation (inbound to esMD) is negligible, the HIHs and esMD must ensure the necessary processing capabilities are enabled/implemented on both sides for successful processing of multi-service HHPER requests.

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 HHPER response.

8.5 X12 Review Response

The current X12 review response EDI supports a response-level decision at the ActionCode (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 the ActionCode (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 143: Outbound Interface Solution.

Table 143: 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 13: hhpcr_x12n278.txt File show the sample X12N 278 request.

Figure 13: 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*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*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*0001-201501150001COVERTTEST-HHPCRNCE*9555555555*HHPCRNCREQUEST~
DTP*472*RD8*20150930-20151030~
SV2*HC+G0151+22*10.50*UN*80~
PWK*77*FX***AC*KUMACNTESTMUL123456009~
HL*6*4*SS*0~
TRN*1*0001-201501150001COVERTTEST-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 HHH. Table 144: 999 Error Messages to HHH provides information about the messages that are updated, added, and removed.

Table 144: 999 Error Messages to HHH

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 14: hhpcr_AdminError.txt File.

Figure 14: 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 Secuirty 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:explanationNonCla
imantSignature>
  <ns1:haveSecondWitnessSignature
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">false</ns1:haveSecondWitnessSigna
ture>
  <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 Secuirty 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 Secuirty blvd</ns1:streetAddress>
        <ns1:zipCode>21244</ns1:zipCode>
    </ns1:witnessAddress>
    <ns1:witnessName xmlns:ns1="urn:gov:hhs:fa: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:fa: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:fa:nhinc:common:nhinccommon">
        <ns1:personName>
            <ns1:familyName>CMS Faimily Name - na</ns1:familyName>
            <ns1:givenName>CMS Faimily 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:org>
        <ns1:homeCommunityId>urn:oid:2.16.840.1.113883.13.34.110.1.999.1</ns1:homeCommunityId>
        <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:authContextC
lassRef>
        <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:resou
rce>
        <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:accessConsentPolic
y>

<ns1:instanceAccessConsentPolicy>urn:oid:2.16.840.1.113883.13.34.110.3</ns1:instanceAc
cessConsentPolicy>
            </ns1:assertion>
        </ns1:evidence>
    </ns1:samlAuthzDecisionStatement>
    <ns1:messageId
xmlns:ns1="urn:gov:hhs:fha:nhinc:common:nhinccommon">AA569852P_1235959</ns1:messageId>

```

```

</ns0:assertion>
<ns0:nhinTargetCommunities>
  <ns1:nhinTargetCommunity xmlns:ns1="urn:gov:hhs:fa: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- PA 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:ns1="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"
highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">
    <ns1:RegistryError errorCode="XDSRegistryMetadataError"
codeContext="ESMD_414-Administrative Error (Incomplete File)" severity="Error"/>
  </ns1:RegistryErrorList>
</ns0:RegistryResponse>
</ns0:RespondingGateway_ProvideAndRegisterDocumentSetResponseRequest>

```

9. Examples of the X12N 278 Response Transaction

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 15: 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 16: 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 17: 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 18: 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 19: 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 20: 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 21: RC Affirmed Decision Response provides an example of an RC affirmed decision response as an X12N 278 PA/PCR Response;
8. Figure 22: RC Non-Affirmed Decision Response provides an example of an RC non-affirmed decision response as an X12N 278 PA/PCR Response;
9. Figure 23: RC Modified (Affirmed with Changes) Decision provides an example of an RC affirmed with changes decision response as an X12N 278 PA Response;
10. Figure 24: X12N 278 Multiple Services Response provides an example of the an X12N 278 response with multiple services and a consolidated decision for the overall transaction;
11. Figure 25: AAA Error Reported at Requester Level [2010B] provides an example of an X12N 278 Response – AAA error reported at the Requester Level [2010B];
12. Figure 26: AAA Error Reported at Subscriber Level [2010C] provides an example of an X12N 278 Response – AAA error reported at the Subscriber Level [2010C];
13. Figure 27: 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];

14. Figure 28: 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];
 15. Figure 29: AAA Error Reported at Service Level [2000F] provides an example of an X12N 278 Response – AAA error reported at the Service Level [2000F]; and
 16. Figure 32: Multiple Services 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; and
 - g. 2000F.AAA – Service Level.

Figure 15: 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*111111112~
HL*3*2*22*1~
NM1*1L*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 16: Outbound X12N 278 PA Response – Reminder to H1H that Documentation Needs to Be Sent to esMD

```

ISA*00*                *00*                *ZZ*1112229992      *ZZ*9012345720020
*180831*1200*^*00501*000001035*0*P*+~
GS*HI*1112229992*9012345720020*20180831*12000474*121784*X*005010X217~
ST*278*121784*005010X217~
BHT*0007*11*000121784*20180831*12000474*19~
HL*1**20*1~
NM1*X3*2*ARUNDLE  HOSPITAL*****PI*00002~
HL*2*1*21*1~
NM1*1P*1*HECHTS*STEVEN*M**PH.D*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*MICHAELS*FERN*****MI*AB321456~
HL*4*3*EV*1~
TRN*1*122069*9ESMDSYST~
TRN*2*900012345*1311234567*500~
UM*HS*I**41+A~
HCR*A4**0P~
MSG*Request pending; documentation should be sent immediately~
SE*16*121784~
GE*1*121784~
IEA*1*000001035

```

Figure 17: Outbound X12N 278 PA Response – Informing H1H that the PA Request Is Canceled; Documentation Was Not Received Timely

```

ISA*00*                *00*                *ZZ*1112229992      *ZZ*9012345720000*180831*1200*^*0050
1*000001035*0*P*+~
GS*HI*1112229992*9012345720000*20180831*12000473*121707*X*005010X217~
ST*278*121707*005010X217~
BHT*0007*11*000121707*20180831*12000473*18~
HL*1**20*1~
NM1*X3*2*DMEMADMEMAC*****PI*00002~
HL*2*1*21*1~
NM1*FA*2*PROVIDENCE  HOSPITAL LLC*****XX*1003811290~
HL*3*2*22*1~
NM1*IL*1*POWER*GURL***MI*215894457B~
HL*4*3*EV*1~
TRN*1*122012*9ESMDSYST~
TRN*2*900012345*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*121707~
GE*1*121707~
IEA*1*000001035~

```

Figure 18: Outbound X12N 278 PA Response – Informing the H1H 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 19: 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*UBLANCESPRACHATACHCNTLNJL1VA8267~
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*9555555555*AMBLNCREQUEST~
DTP*472*D8*20180201~
SV1*HC:A0426:TC:26**UN*1~
PWK*77*FX***AC*UBLANCESPRACHATACHCNTLNJL1VA8267~
SE*35*121822~

```



```
GE*1*121822~
IEA*1*000121822~
```

Figure 20: 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 21: RC Affirmed Decision Response

```
ISA*00*                *00*                *ZZ*111222333      *ZZ*333121111      *180831*1501*^*0
0501*000001202*0*P*+~
GS*HI*111222333*333121111*20180831*15011870*121823*X*005010X217~
ST*278*121823*005010X217~
BHT*0007*11*000121823*20180831*15011870*18~
HL*1**20*1~
NM1*X3*2*NORIDIAN*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*CARRS*JANICE***PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*JONES*KELLY***MI*123456789A~
HL*4*3*EV*1~
TRN*1*6296*9ESMDSYST~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I**13+B~
HCR*A1*UTN001~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
HI*BK+78609*BF+85135*BF+8488*BF+8471*BF+8472~
NM1*SJ*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*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HCR*A1*UTN001~
DTP*472*RD8*20180930-20181030~
SV1*HC+A0428+22*10.5*UN*80~
SE*25*121823~
GE*1*121823~
IEA*1*000001202~
```

Figure 22: RC Non-Affirmed Decision Response

```

ISA*00*                *00*                *ZZ*111222333      *ZZ*9012345730070
*180831*1506**^*00501*000001202*0*P*+~
GS*HI*111222333*9012345730070*20180831*15061883*121824*X*005010X217~
ST*278*121824*005010X217~
BHT*0007*11*000121824*20180831*15061883*18~
HL*1**20*1~
NM1*X3*2*NORIDIAN*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*WASHINGTON*DARNELL***PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*DAHLER*KEITH****MI*215185532A~
HL*4*3*EV*1~
TRN*1*6297*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I**13+B~
HCR*A3~
REF*NT*UTN001~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
NM1*SJ*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*A3**0U^04^0Q~
REF*NT*UTN001~
DTP*472*RD8*20150930-20151030~
SV1*HC+A0428+22*10.5*UN*80~
MSG*AMB1A,AMB1B,AMB1C~
SE*28*121824~
GE*1*121824~
IEA*1*000001202~

```

Figure 23: RC Modified (Affirmed with Changes) Decision

```

ISA*00*                *00*                *ZZ*111222333      *ZZ*9088877340000    *180831*1511**^*00
501*000001202*0*P*+~
GS*HI*111222333*9088877340000*20180831*15111846*121825*X*005010X217~
ST*278*121825*005010X217~
BHT*0007*11*000121825*20180831*15111846*18~
HL*1**20*1~
NM1*X3*2*ABILITY*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*MITCHELL*KATHERINE***PH.D*XX*1111111112~
HL*3*2*22*1~
NM1*IL*1*JENSON*DAVID****MI*2151182556A~
HL*4*3*EV*1~
TRN*1*6298*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I**13+B~
HCR*A6*UTN001~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
NM1*SJ*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*A6*UTN001~

```

```
DTP*472*RD8*20150930-20151030~
SV1*HC+A0428+22*10.5*UN*5~
SE*25*121825~
GE*1*121825~
IEA*1*000001202~
```

Figure 24: X12N 278 Multiple Services Response

```
ISA*00*          *00*          *ZZ*9088877340000  *ZZ*9012345730070
*180103*1906**+*00501*000064670*0*P*:~
GS*HI*111222333*9012345730070  *20180103*19060550*64670*X*005010X217~
ST*278*64670*005010X217~
BHT*0007*11*000064670*20180103*19060550*18~
HL*1**20*1~
NM1*X3*2*NOVITAS*****PI*12301~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON***H*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*AMBLSUBSCRIBERLASTNAME*AMBLSUBSCRIBERFIRSTNAME***MI*215123556A~
HL*4*3*EV*1~
TRN*1*5393*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I**32:A~
HCR*A3**04^0G^04~
REF*NT*UTNTC058~
DTP*439*D8*20150722~
DTP*ABC*D8*19511204~
MSG*AMB1D,AMB1E,AMB1F~
NM1*DK*2*FACILITY  ORG  NAME*****XX*1234567893~
NM1*FA*1*AMBORDERINGPHYLASTNAME*AMBORDERINGPHYFNAME***XX*1234567893~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HCR*A3**04~
REF*NT*UTNTC058~
DTP*472*RD8*20150930-20151030~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
MSG*AMB1D~
HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HCR*A3**0G~
SV2**HC+G0157+25+21+23+55*12.25*UN*80~
MSG*AMB1E~
HL*7*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HCR*A3**04~
REF*NT*UTNTC058~DTP*472*RD8*20150930-20151030~
SV2**HC+G0159+25+21+23+55*12.25*UN*80~
MSG*AMB1F~
SE*39*64670~
GE*1*64670~
IEA*1*000064670~
```

Figure 25: 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*111111112~
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*SERCIVELSUBSCRIBERLASTNAME*SERCIVELSUBSCRIBERFIRSTNAME****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*SERCIVESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERCIVORDERINGPHYLASTNAME*SERCIVORDERINGPHYFNAME****XX*1234567893~
N3*SERCIVESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERCIVELNCE*9555555555*SERCIVELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
SE*41*278151~
GE*1*278151~
IEA*1*000003837~

```

Figure 26: 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*111111112~
HL*3*2*22*1~
NM1*IL*1*SERCIVELSUBSCRIBERLASTNAME*SERCIVELSUBSCRIBERFIRSTNAME****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*SERCVESTREET SERVICE PROVIDER 2010EA~
N4*WINDSORMILL*MD*21244~
NM1*FA*1*SERCVEORDERINGPHYLASTNAME*SERCVEORDERINGPHYFNAME***XX*1234567893~
N3*SERCVESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERCVELNCE*9555555555*SERCVELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERCVELNCE*9555555555*SERCVELNCREQUEST2~
SV2**HC+G0157+25+21+23+55*12.25*UN*80~
HL*7*4*SS*0~
TRN*2*0001-201501150001COVERTEST-SERCVELNCE*9555555555*SERCVELNCREQUEST3~
SV2**HC+G0162+25+21+23+55*12.25*UN*80~
SE*35*278150~
GE*1*278150~
IEA*1*000003839~

```

Figure 27: 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 28: 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*111111112~
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 29: 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*9ESMDSYST~
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 30: AAA Error Reported at Multiple Service Level [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*SERCIVELSUBSCRIBERLASTNAME*SERCIVELSUBSCRIBERFIRSTNAME***MI*215101056A~
HL*4*3*EV*1~
TRN*1*BSQ000009028492*9ESMDSYST~
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*SERCIVELORDERINGPHYLASTNAME*SERCIVELORDERINGPHYFNAME***XX*1234567893~
N3*SERCIVESTREET ORDERING PHYSICIAN 2010EA~
N4*WINDSORMILL*MD*21244~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-SERCIVELNCE*955555555*SERCIVELNCREQUEST1~
SV2**HC+G0151+25+21+23+55*12.25*UN*80~
HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-SERCIVELNCE*955555555*SERCIVELNCREQUEST2~
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 31: 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*111111112~
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 32: Multiple Services Administrative Error Cancellation

```

ISA*00*                *00*                *ZZ*111222333        *ZZ*Test
HIH                *180831*1616*^*00501*000121833*0*P*~
GS*HI*111222333*Test HIH*20180831*16161839*121833*X*005010X217~
ST*278*121833*005010X217~
BHT*0007*11*000121833*20180831*16161839*18~
HL*1**20*1~

```



```
NM1*X3*2*REVIEW ORG NAME*****PI*12302~
HL*2*1*21*1~
NM1*1P*1*SMITH*AARON***H*XX*111111112~
HL*3*2*22*1~
NM1*IL*1*WILKINSON*SADE****MI*215113556A~
HL*4*3*EV*1~
TRN*1*6306*9ESMDSYSTEM~
TRN*2*201507221235*1311235567*NEUROLOGY~
UM*HS*I**32:A~
HCR*C~
DTP*439*D8*20180930~
DTP*ABC*D8*19511204~
DTP*AAH*RD8*20180930-20181030~
MSG*ESMD 412:Virus Found~
NM1*SJ*2*FACILITY ORG NAME*****XX*1234567893~
NM1*DK*1*AMBORDERINGPHYLASTNAME*AMBORDERINGPHYFNAME***XX*1234567893~
HL*5*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HL*6*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
HL*7*4*SS*0~
TRN*2*0001-201501150001COVERTTEST-AMBLNCE*9555555555*AMBLNCREQUEST~
SE*27*121833~
GE*1*121833~
IEA*1*000121833~
```

10. Contacts

Table 145: Support Points of Contact provides the contact list for esMD.

Table 145: Support Points of Contact

Contact	Phone	Email	Hours of Operation
CMS esMD Service Desk	(443) 832-1856	esMD_Support@cms.hhs.gov	Regular Business Hours: 8 a.m. to 8 p.m. Eastern Time (ET).

Appendix A Glossary

Table 146: 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: http://store.x12.org/store/
278 PA	ASC X12N/00510X217 version of 278 Prior Authorization

Appendix B Acronyms

Table 147: Acronyms

Acronym	Literal Translation
ACN	Attachment Control Number
ADR	Additional Documentation Request
AMB	Ambulance
ASC	Accredited Standards Committee
CAQH	Council for Affordable Quality Healthcare
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
HTTP	Hypertext Transfer Protocol
ID	Identifier
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
RC	Review Contractor
SAML	Security Assertion Markup Language
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

Acronym	Literal Translation
UTN	Unique Tracking Number
XDR	Cross-Enterprise Document Reliable Interchange
XML	Extensible Markup Language

Appendix C Referenced Documents

Table 148: 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)	http://store.x12.org/store/	May 2006
CAQH CORE X12 Document Submission Service Interface Specification	http://www.cagh.org/sites/default/files/core/phase-ii/policy-rules/270-v5010.pdf	03/18/2011
esMD X12 275 Companion Guide	TBD	TBD
esMD User Acceptance Testing (UAT) Guide	TBD	TBD

Appendix D Record of Changes

Table 149: 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	1. Updated sections 4.1 and 6.1 2. Updated figure 5 3. Updated Tables 7, 27, 44, 45, 53, 55, 60, 62, 83, 88, 95, 98, 120, 126, and 128 4. Removed reference to AAA error for Requests 5. Replaced all mention of HICN with MBI
12.1	8/25/2020	Barbara Miller	1. Updated sections 4.1, 6.1, 6.3, and 8.2 2. Updated Table 53, 55, 62, 78, 79, 128, 143 3. Updated Figure 8
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

Appendix E Approvals

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

Signature:	_____	Date:	<u>10/19/2020</u>
Print Name:	<u>Ayana Chavis</u>		
Title:	<u>Contracting Officer's Representative (COR)</u>		
Role:	<u>CMS Approving Authority</u>		