Test Procedure for §170.304 (b) Electronic Prescribing

This document describes the draft test procedure for evaluating conformance of complete EHRs or EHR modules[1] to the certification criteria defined in 45 CFR Part 170 Subpart C of the Final Rule for Health Information Technology: Initial Set of standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology as published in the Federal Register on July 28, 2010. The document[2] is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Overview document located at http://healthcare.nist.gov/docs/TestProcedureOverview_v1.pdf. The test procedures may be updated to reflect on-going feedback received during the certification activities.

The HHS/Office of the National Coordinator for Health Information Technology (ONC) has defined the standards, implementation guides and certification criteria used in this test procedure. Applicability and interpretation of the standards, implementation guides and certification criteria to EHR technology is determined by ONC. Test procedures to evaluate conformance of EHR technology to ONC's requirements are defined by NIST. Testing of EHR technology is carried out by ONC-Authorized Testing and Certification Bodies (ATCBs), not NIST, as set forth in the final rule establishing the Temporary Certification Program (*Establishment of the Temporary Certification Program for Health Information Technology, 45 CFR Part 170; June 24, 2010*.)

Questions about the applicability of the standards, implementation guides or criteria should be directed to ONC at ONC.Certification@hhs.gov. Questions about the test procedures should be directed to NIST at hit-tst-fdbk@nist.gov. Note that NIST will automatically forward to ONC any questions regarding the applicability of the standards, implementation guides or criteria. Questions about functions and activities of the ATCBs should be directed to ONC at ONC.Certification@hhs.gov

CERTIFICATION CRITERIA

This Certification Criterion is from the Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology Final Rule issued by the Department of Health and Human Services (HHS) on July 28, 2010.

§170.304 (b) Electronic prescribing. Enable a user to electronically generate and transmit prescriptions and prescription-related information in accordance with:

(1) The standard specified in §170.205(b)(1) or §170.205(b)(2); and

(2) The standard specified in §170.207(d).

[1] Department of Health and Human Services, 45 CFR Part 170 Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, Final Rule, July 28, 2010.

[2] Disclaimer: Certain commercial products are identified in this document. Such identification does not imply recommendation or endorsement by the National Institute of Standards and Technology.

Per Section III.D of the preamble of the Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, Final Rule where the electronic prescribing certification criterion is discussed:

- "Meaningful Use Stage 1 Measure - More than 40% of all permissible prescriptions written by the EP are transmitted electronically using certified EHR technology"
- "… Accordingly, we have modified this certification criterion to specify that Complete EHR and EHR Module developers may seek to have their Complete EHR or EHR Module tested and certified to either solely NCPDP SCRIPT 8.1 or 10.6. Additionally, we have also replaced the standard adopted in the Interim Final Rule and have adopted both NCPDP SCRIPT 8.1 and NCPDP SCRIPT 10.6. As discussed in the beginning of the preamble, we have revised our approach to specifying the certification criteria to more clearly focus on the capabilities with which they must be associated. Therefore, we have modified this certification criterion to specify that a Complete EHR or EHR Module would be compliant with this certification criterion if it has the capability of generating and transmitting prescription and prescription-related information according to NCPDP SCRIPT 8.1 while also using the adopted vocabulary standard, or if it is capable of generating and transmitting prescriptions and prescription-related information according to NCPDP SCRIPT 10.6 while also using the adopted vocabulary standard."
- "In addition, to permit the development or mapping and use of other vocabularies independent of NLM, we have dropped the requirement that NLM explicitly identify the acceptable data sources. Instead, the standard now permits the use of codes from any drug vocabulary successfully included in RxNorm. To provide guidance and clarification to the industry, we will recognize any source vocabulary that is identified by NLM's RxNorm Documentation as a source vocabulary included in RxNorm. We are therefore revising the standard to state."
- "Any source vocabulary that is included in RxNorm, a standardized nomenclature for clinical drugs produced by the United States National Library of Medicine." We note that in section 3.1, of the most recent release of the "RxNorm Documentation (06/07/10, Version 2010-3)7," NLM has identified the following source vocabularies as being included in RxNorm.
    - GS - Gold Standard Alchemy
    - MDDB - Medi-Span Master Drug Data Base
    - MMSL - Multum MediSource Lexicon
    - MMX - Micromedex DRUGDEX
    - MSH - Medical Subject Headings (MeSH)
    - MTHFDA - FDA National Drug Code Directory
    - MTHSPL - FDA Structured Product Labels
    - NDDF - First DataBank NDDF Plus Source Vocabulary
    - NDFRT - Veterans Health Administration National Drug File - Reference Terminology
    - SNOMED CT - SNOMED Clinical Terms (drug information)
    - VANDF - Veterans Health Administration National Drug File

  We clarify for commenters that the standard we have adopted is a functional standard that enables the use of any source vocabulary that is included within RxNorm. Consequently, any one of these "source vocabularies" identified by NLM may be used, or any other source vocabulary successfully included within RxNorm."

INFORMATIVE TEST DESCRIPTION

This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.

This test evaluates the capability for a Complete EHR or EHR Module to electronically generate and transmit new prescriptions for patients in accordance with the specified standards.

Per ONC guidance, this test procedure will evaluate conformance with the NCPDP SCRIPT v8.1 NEWRX transaction or the NCPDP SCRIPT v10.6 NEWRX transaction when used to transmit a new prescription from a prescriber to a pharmacy. Other transactions identified in the referenced standards will not be evaluated.

This test procedure consists of two sections:

- Generate new prescriptions – evaluates the capability to enter new prescriptions in accordance with the specified standards
    - The Tester enters two or more electronic prescriptions
    - The Tester validates that the prescriptions are entered in accordance with the specified standards and that the prescription data are accurate and complete

- Transmit new prescriptions – evaluates the capability to transmit new prescriptions to an external system
    - Using Vendor-identified functions, the Tester transmits the new prescriptions to a receiving system (either a Tester's receiving system or a vendor-identified system) using the Vendor-identified transport technology of the EHR. This may require configuration on the part of the Tester's receiving system.
        - The Tester validates that the generated new prescriptions are complete and in conformance
        - The Tester validates that the generated new prescriptions were transmitted by the EHR

REFERENCED STANDARDS

170.205 and 170.207 Referenced Standards	Regulatory Referenced Standard
170.205 (b) Electronic prescribing. (1) Standard. The National Council for the Prescription Drug Programs (NCPDP) Prescriber/Pharmacist Interface SCRIPT standard, Implementation Guide, Version 8, Release 1 (Version 8.1) October 2005 (incorporated by reference in §170.299) (2) Standard. NCPDP SCRIPT Standard, Implementation Guide, Version 10.6 (incorporated by reference in §170.299).	None

170.205 and 170.207 Referenced Standards	Regulatory Referenced Standard
170.207 (d) Medications. Standard. Any source vocabulary that is included in RxNorm, a standardized nomenclature for clinical drugs produced by the United States National Library of Medicine.	

NORMATIVE TEST PROCEDURES

Derived Test Requirements

DTR170.304.b – 1: Generate new prescriptions

DTR170.304.b – 2: Transmit new prescriptions

DTR170.304.b – 1: Generate new prescriptions

Required Vendor Information

VE170.304.b – 1.01: Vendor shall identify patients with existing records in the EHR to be used for this test

VE170.304.b – 1.02: Vendor shall identify one or more prescribers and pharmacies available in the EHR to be used during the test

VE170.304.b – 1.03: Vendor shall identify the EHR function(s) that are available to: 1) select the patients, 2) enter new prescriptions, 3) electronically transmit prescriptions

Required Test Procedure:

TE170.304.b – 1.01: The Tester shall select prescription test data from the NIST-supplied test data sets

TE170.304.b – 1.02: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient's existing record and enter two or more new prescriptions using one of the prescribers identified by the Vendor and one of the pharmacies identified by the Vendor

TE170.304.b – 1.03: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that prescriptions are entered and that the data are accurate and complete

Inspection Test Guide

IN170.304.b – 1.01: Tester shall verify that the prescription test data are recorded correctly in the EHR as defined in the test data section

DTR170.304.b – 2: Transmit new prescriptions

Required Vendor Information

VE170.304.b – 2.01: Vendor shall identify the NCPDP SCRIPT standard (v8.1 or v10.6) to be used for the conformance assessment

Required Test Procedure:

TE170.304.b – 2.01: Using Vendor-identified EHR functions, the Tester shall transmit the new prescriptions generated during the DTR170.304.b – 1 test to an external system

TE170.304.b – 2.02: Using the appropriate NIST-supplied Inspection Test Guide, the Tester shall verify that the transmitted message conforms to the version of the NCPDP SCRIPT standard selected by the Vendor (v8.1 or v10.6)

Inspection Test Guide

IN170.304.b – 2.01: Tester shall verify that the transmitted new prescriptions contain the complete and correct test data as entered during the DTR170.304.b – 1: Generate new prescriptions test

IN170.304.b – 2.02: Using the appropriate NIST-supplied Inspection Test Guide contained in Appendix A of this test procedure, the Tester shall verify that the transmitted message conforms to the version of the NCPDP SCRIPT standard selected by the Vendor (v8.1 or v10.6). The Tester may conduct the evaluation by visually examining the message, or by applying an automated testing tool which has been verified as consistent with the conformance statements in these inspection test guides.

TEST DATA

Test data is provided by NIST in this Test Procedure to ensure that the functional and interoperable requirements identified in the criteria can be adequately evaluated for conformance, as well as to provide consistency in the testing process across multiple ONC-Authorized Testing and Certification Bodies (ATCBs). The NIST-supplied test data focus on evaluating the basic capabilities required of EHR technology, rather than exercising the full breadth/depth of capability that installed EHR technology might be expected to support. The test data is formatted for readability of use within the testing process. The format is not prescribing a particular end-user view or rendering. No additional requirements should be drawn from the format.

The Tester shall use and apply the NIST-supplied test data during the test, without exception, unless one of the following conditions exist:

- The Tester determines that the Vendor product is sufficiently specialized that the NIST-supplied test data needs to be modified in order to conduct an adequate test. Having made the determination that some modification to the NIST-supplied test data is necessary, the Tester shall record the modifications made as part of the test documentation.
- The Tester determines that changes to the test data will improve the efficiency of the testing process; primarily through using consistent demographic data throughout the testing workflow. The tester shall ensure that the functional and interoperable requirements identified in the criterion can be adequately evaluated for conformance and that the test data provides a comparable level of robustness.

Any departure from the NIST-supplied test data shall strictly focus on meeting the basic capabilities required of EHR technology relative to the certification criterion rather than exercising the full breadth/depth of capability that installed EHR technology might be expected to support.

The Test Procedures require that the Tester enter the test data into the EHR technology being evaluated for conformance. The intent is that the Tester fully control the process of entering the test data in order to ensure that the data are correctly entered as specified in the test procedure. If a situation arises where it is impractical for a Tester to directly enter the test data, the Tester, at the tester's discretion, may instruct the Vendor to enter the test data, so long as the Tester remains in full control of the testing process, directly observes the test data being entered by the Vendor, and validates that the test data are entered correctly as specified in the test procedure.

170.304.b: Electronic Prescribing

Electronic Prescribing – Data Set #1

- HydroDiuril 25 mg tablet, Disp #60, Sig: Take 1 tablet bid, 1 Refill
- Klor-Con 10 mEq tablet, Disp #60, Sig: Take 1 tablet bid, 1 Refill
- Catapres 0.1 mg tablet, Disp #60, Sig: Take 1 tablet bid, 1 Refill
- Cardura 2 mg tablet, Disp #30, Sig: Take 1 tablet QD

Electronic Prescribing – Data Set #2

- Capoten 25 mg tablet, Disp #90, Sig: Take 1 tablet tid, 1 Refill
- Aldactone 25 mg tablet, Disp #120, Sig: Take 1 tablet qid, 1 Refill
- Lanoxin 125mcg tablet, Disp #60, Sig: Take 1 tablet QD, 0 Refills

Electronic Prescribing – Data Set #3

- Azithromycin 250 mg tablet, Disp #10, Sig: Take 1 tablet QD X 10 days, 0 Refills
- Atrovent Inhaler 18 mcg/puff, Disp # 1 12.9 gm cannister, Sig: Take 2 puffs qid, 0 Refills
- Albuterol Inhaler 2.5 mg/3ml, Disp # 1 6.7 gm cannister, Sig: Take 2 puffs q4 hours as needed for shortness of breath, 0 Refills

Electronic Prescribing – Data Set #4

- Lipitor 10 mg tablet, Disp #30, Sig: Take 1 tablet QD, 1 Refill
- Lasix 20 mg tablet, Disp #60, Sig: Take 1 tablet bid, 2 Refills
- Klor-Con 10 mEq tablet, Disp # 60, Sig: Take 1 tablet bid, 1 Refill

Electronic Prescribing – Data Set #5

- Amoxil 250 mg oral suspension, Disp #150 ml, Sig: Take 5 ml q8h X 10 days, 0 Refills

- Colace 100 mg capsule, Disp #60, Sig: Take 1 capsule bid, 1 Refill
- Zestril 30 mg tablet, Disp # 30, Sig: Take 1 tablet QD, 1 Refill

Electronic Prescribing – Data Set #6

- Norvasc 5 mg tablet, Disp #30, Sig: Take 1 tablet QD, 0 Refills
- Macrobid 100 mg capsule, Disp #14, Sig: Take 1 tablet q12 hours X 7 days, 0 Refills
- Atrovent inhaler 18 mcg/puff, Disp # 1 12.9 gm cannister , Sig: Take 2 puffs qid, 0 Refills
- Albuterol Inhaler 2.5 mg/3ml, Disp # 1 6.7 gm cannister, Sig: Take 2 puffs q4 hours as needed for shortness of breath, 0 Refills

CONFORMANCE TEST TOOLS

None

APPENDIX A

170.304(b) Inspection Test Guide for NCPDP SCRIPT v8.1

This inspection test guide defines the minimum conformance requirements for a new prescription message (NEWRX) generated by an EHR in accordance with the criteria and standards in the FR. The Tester shall evaluate the message according to the conformance requirements in each table of this inspection test guide. The Tester may conduct the evaluation by visually examining the message, or by applying an automated testing tool which has been verified as consistent with the conformance statements in this inspection test guide.

Optionality Designations

In SCRIPT v8.1 optionality at the segment level is expressed as Y/N. Optionality at the composite and field level is expressed as:

M = Mandatory
C = Conditional
CM = Conditional Mandatory (the composite is Conditional, but if the composite is used, the field within is Mandatory)
N = Not Used

Additional optionality requirements specified by the ONC MU Certification and Standards rule are labeled with the code RMU.

With only two exceptions, the inspection test guide only requires evaluation of the fields marked "M – Mandatory" in SCRIPT v8.1. Other fields marked "C- Conditional" may be required for specific trading partner agreements, however, those requirements are not specified in the FR and shall not be evaluated. The two exceptions are labeled with the optionality code RMU, indicating that the field must be conformant for meaningful use testing

How to interpret the conformance statements

- Shall be present - the segment shall be present in the message.
- Shall contain value – the field shall contain either the literal value identified in the conformance statement, or the logical value as described in the conformance statement.
- Shall be populated – the field shall be populated with a value, however no specific value has been identified. These fields may be subject to specific constraints based on trading partner agreements, however, per SCRIPT v8.1, there are multiple values which may be applicable.

Many of the required data content values will be evaluated for conformance by the Tester based on the test data used during the test, such as prescription information, patient information, prescriber information and pharmacy information. The Tester shall record (document) the test data used during the test.

NCPDP SCRIPT NEWRX - Message Segment Conformance Assessment

Tester shall verify that specific segments of the NEWRX message are present in the test message as defined below in Table 1.

Table 1: NEWRX Message Segments Conformance Statements

UNA – Service String Advice	Y	Segment shall be present in the NEWRX message
UIB – Interactive Interchange Control Header	y	Segment shall be present in the NEWRX message
UIH – Interactive Message Header	Y	Segment shall be present in the NEWRX message
REQ – Request Segment	N	Not evaluated for conformance
PVD – Prescriber Segment	Y	Segment containing Prescriber information shall be present in the NEWRX message
PVD – Pharmacy Segment	N/RMU	Segment containing Pharmacy information shall be present in the NEWRX message
PTT – Patient Segment	Y	Segment shall be present in the NEWRX message
DRU – Drug Segment	Y	Segment shall be present in the NEWRX message
OBS – Observation Segment	N	Not evaluated for conformance
COO – Coordination of Benefits Segment	N	Not evaluated for conformance
UIT – Interactive Message Trailer	Y	Segment shall be present in the NEWRX message
UIZ – Interactive Exchange Trailer	Y	Segment shall be present in the NEWRX message

NCPDP SCRIPT NEWRX Message - UNA Field-level Conformance Assessment

Tester shall verify that specific fields in the UNA segment of the NEWRX message meet the conformance statements listed in Table 2. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/UNA segment. Delimiters shall be identified in the UNA fields, however, per SCRIPT 8.1, the delimiter values listed below are recommended, not required, and subject to revision by trading partner agreements.

Table 2: NEWRX/UNA FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13Segment code	M	Shall contain value = UNA
Ø1Ø-Ø1Component Data Element Separator	M	Shall be populated; May contain value = 28 (1C)
Ø1Ø-Ø2 Data Element Separator	M	Shall be populated; May contain value = 29 (1D)
Ø1Ø-Ø3 Decimal Notation	M	Shall be populated; May contain value = 46 (2E)
Ø1Ø-Ø4 Release Indicator	M	Shall be populated; May contain value = 32 (20)
Ø1Ø-Ø5 Repetition Separator	M	Shall be populated; May contain value = 31 (1F)
Ø1Ø-Ø6 Segment Separator	M	Shall be populated; May contain value = 30 (1E)

NCPDP SCRIPT NEWRX Message – UIB Field-level Conformance Assessment

Tester shall verify that specific fields in the UIB segment of the NEWRX message meet the conformance statements listed in Table 3. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/UIB segment.

Table 3: NEWRX/UIB FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment Code	M	Shall contain value = UIB
Ø1Ø-SØØ1-Ø1-ØØØ1 Syntax identifier	M	Shall contain value = UNOA
Ø1Ø-SØØ1-Ø2-ØØØ2 Syntax version number	M	Shall contain value = 0
Ø3Ø-S3Ø3-Ø1-Ø3Ø6 Transaction control reference	M	Shall be populated with a transaction control reference number provided by the sender
Ø3Ø-S3Ø3-Ø2-Ø3Ø3 Initiator reference identifier	C	Not evaluated for conformance
Ø3Ø-S3Ø3-Ø3-ØØ51 Controlling agency, coded	C	Not evaluated for conformance
Ø6Ø-SØØ2-Ø1-ØØØ4 Interchange Sender - Sender identification - level one	M	Shall contain an identifier representing the prescriber
Ø6Ø-SØØ2-Ø2-ØØØ7 Level one identification code qualifier	M	Shall contain value = D
Ø6Ø-SØØ2-Ø3-ØØØ8 Sender identification - level two	C	Not evaluated for conformance
Ø6Ø-SØØ2-Ø4-ØØ4Ø Sender identification - level three	C	Not evaluated for conformance
Ø7Ø-SØØ3-Ø1-ØØ1Ø Interchange Recipient - Recipient ID - level one	M	Shall contain an identifier representing the pharmacy
Ø7Ø-SØØ3-Ø2-ØØØ7 Level one identification code qualifier	M	Shall contain value = P
Ø7Ø-SØØ3-Ø3-ØØ14 Interchange Recipient - Recipient ID – level two	C	Not evaluated for conformance
Ø7Ø-SØØ3-Ø4-ØØ44 Interchange Recipient - Recipient ID - level three	C	Not evaluated for conformance
Ø8Ø-S3ØØ-Ø1-ØØ17 Date of initiation	C	Not evaluated for conformance
Ø8Ø-S3ØØ-Ø2-Ø114 Event Time	C	Not evaluated for conformance
1ØØ-ØØ35 Test Indicator	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – UIH Field-level Conformance Assessment

Tester shall verify that specific fields in the UIH segment of the NEWRX message meet the conformance statements listed in Table 4. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/UIH segment.

Table 4: NEWRX/UIH FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = UIH
Ø1Ø-S3Ø6-Ø1-Ø329 Message type	M	Shall contain value = SCRIPT
Ø1Ø-S3Ø6-Ø2-Ø316 Message version number	M	Shall contain value = 008
Ø1Ø-S3Ø6-Ø3-Ø318 Message release number	M	Shall contain value = 001
Ø1Ø-S3Ø6-Ø4-Ø326 Message function	M	Shall contain value = NEWRX
Ø1Ø-S3Ø6-Ø6-ØØ57 Association assigned code	C	Not evaluated for conformance
Ø2Ø-ØØ62 Message Reference Number	C	Not evaluated for conformance
Ø3Ø-SØ32-Ø1-Ø3ØØ Dialogue Reference - Initiator control reference	CM	Not evaluated for conformance
Ø3Ø-SØ32-Ø2-Ø3Ø3 Initiator reference identifier	C	Not evaluated for conformance
Ø3Ø-SØ32-Ø3-ØØ51 Controlling Agency, Coded	C	Not evaluated for conformance
Ø3Ø-SØ32-Ø4-Ø3Ø4 Responder control reference	C	Not evaluated for conformance
Ø5Ø-S3ØØ-Ø1-ØØ17 Date of initiation	C	Not evaluated for conformance
Ø5Ø-S3ØØ-Ø2-Ø314 Event time	C	Not evaluated for conformance
Ø6Ø-ØØ35 Test Indicator	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – PVD - Prescriber Field-level Conformance Assessment

Tester shall verify that specific fields in the PVD segment of the NEWRX message, when used to identify the Prescriber, meet the conformance statements listed in Table 5 . Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/PVD segment.

Table 5: NEWRX/PVD-Prescriber Field-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = PVD
Ø1Ø-47Ø5 Provider Coded	M	Shall contain value = PC
Ø2Ø-IØØ1-Ø1-1154 Reference Number	M	Shall be populated with a referemce number representing the prescriber
Ø2Ø-IØØ1-Ø2-1153 Reference Qualifier	M	Shall be populated with the appropriate reference qualifier value for the entry in Ø2Ø-IØØ1-Ø1-1154
Ø4Ø-IØØ7-Ø1-47Ø9 Agency Qualifier, coded	CM	Not evaluated for conformance

Ø4Ø-IØØ7-Ø2-47Ø7 Provider Specialty, coded	CM	Not evaluated for conformance
Ø5Ø- IØØ2-Ø1-3Ø36 Party Name	M	Shall contain last name of the prescriber
Ø5Ø- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø3- 37Ø4 Middle Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø5-37Ø8 Name Prefix	C	Not evaluated for conformance
Ø7Ø-3Ø36 Party Name	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø1-3Ø42 Street and Number/P.O. Box	M	Shall contain street number and name associated with the prescriber
Ø8Ø-IØØ4-Ø2-3164 City Name	M	Shall contain city name associated with the prescriber
Ø8Ø-IØØ4-Ø3-3229 Country Sub-entity identification	M	Shall contain the State name associated with the prescriber
Ø8Ø-IØØ4-Ø4-3251 Postcode Identification	M	Shall contain the zip code associated with the prescriber
Ø8Ø-IØØ4-Ø5-3227 Place/Location Qualifier	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø6-3224 Place/Location	C	Not evaluated for conformance
Ø9Ø-IØ16-Ø1-3148 Communication Number	M	Shall contain a contact number for the prescriber
Ø9Ø-IØ16-Ø2-1131 Code List Qualifier	M	Shall be populated with appropriate code list qualifier value based on type of communication number provided in Ø9Ø-IØ16-Ø1-3148
1ØØ-IØØ2-Ø1-3Ø36 Party Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø3-37Ø4 Middle Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
1ØØ- IØØ2-Ø5- 37Ø8 Name Prefix	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – PVD - Pharmacy Field-level Conformance Assessment

Tester shall verify that specific fields in the PVD segment of the NEWRX message, when used to identify the Pharmacy, meet the conformance statements listed in Table 6. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/PVD segment.

Table 6: NEWRX/PVD-Pharmacy Field-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = PVD
Ø1Ø-47Ø5 Provider Coded	M	Shall contain value = P2 (KRG – verify allowable values for X-12 DE1221)
Ø2Ø-IØØ1-Ø1-1154 Reference Number	M	Shall be populated with a reference number representing the pharmacy (
Ø2Ø-IØØ1-Ø2-1153 Reference Qualifier	M	Shall be populated with the appropriate reference qualifier for the value in Ø2Ø-IØØ1-Ø1-1154
Ø4Ø-IØØ7-Ø1-47Ø9 Agency Qualifier, coded	CM	Not evaluated for conformance
Ø4Ø-IØØ7-Ø2-47Ø7 Provider Specialty, coded	CM	Not evaluated for conformance
Ø5Ø- IØØ2-Ø1-3Ø36 Party Name	C	Not evaluated for conformance

Ø5Ø- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø3- 37Ø4 Middle Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø5-37Ø8 Name Prefix	C	Not evaluated for conformance
Ø7Ø-3Ø36 Party Name	M	Shall be populated with the name of the pharmacy
Ø8Ø-IØØ4-Ø1-3Ø42 Street and Number/P.O. Box	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø2-3164 City Name	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø3-3229 Country Sub-entity identification	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø4-3251 Postcode Identification	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø5-3227 Place/Location Qualifier	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø6-3224 Place/Location	C	Not evaluated for conformance
Ø9Ø-IØ16-Ø1-3148 Communication Number	M	Shall contain a contact number for the pharmacy
Ø9Ø-IØ16-Ø2-1131 Code List Qualifier	M	Shall be populated with appropriate code list value based on type of communication number provided in Ø9Ø-IØ16-Ø1-3148
1ØØ-IØØ2-Ø1-3Ø36 Party Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø3-37Ø4 Middle Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
1ØØ- IØØ2-Ø5- 37Ø8 Name Prefix	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – PTT - Patient Field-level Conformance Assessment

Tester shall verify that specific fields in the PTT segment of the NEWRX message, when used to identify the Pharmacy, meet the conformance statements listed in Table 7 . Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/PTT segment.

Table 7: NEWRX/PTT-Patient Field-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = PTT
Ø1Ø-97Ø1 Individual Relationship, coded	C	Not evaluated for conformance
Ø2Ø-27ØØ Century Date	C	Not evaluated for conformance
Ø3Ø-IØØ2-Ø1-3Ø36 Party Name	M	Shall contain the last name of the patient
Ø3Ø- IØØ2-Ø2-37Ø2 First Name	M	Shall contain the first name of the patient
Ø3Ø- IØØ2-Ø3-37Ø4 Middle Name	C	Not evaluated for conformance
Ø3Ø- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
Ø3Ø- IØØ2-Ø5-37Ø8 Name Prefix	C	Not evaluated for conformance
Ø4Ø-97Ø3 Gender, coded	M	Shall contain a value appropriate for patient from this list M = Male F = Female U = Unknown
Ø5Ø-IØØ1-Ø1-1154 Reference Number	CM	Not evaluated for conformance

Ø5Ø-IØØ1-Ø2-1153 Reference Qualifier	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø1-3Ø42 Street and Number/P.O. Box	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø2-3164 City Name	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø3-3229 Country Sub-entity identification	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø4-3251 Postcode Identification	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø5-3227 Place/Location Qualifier	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø6-3224 Place/Location	C	Not evaluated for conformance
Ø7Ø-IØ16-Ø1-3148 Communication Number	C	Not evaluated for conformance
Ø7Ø-IØ16-Ø2-1131 Code List Qualifier	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message - DRU Field-level Conformance Assessment

Tester shall verify that specific fields in the DRU segment of the NEWRX message meet the conformance statements listed in Table 8. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/DRU segment.

Table 8: NEWRX/DRU Field-level Conformance Statements

ØØØ SØ19 Ø1 ØØ13 Segment code	M	Shall contain value = DRU
Ø1Ø IØ13 Ø1 7ØØ9 Item Description Identification	M	Shall contain value = P
Ø1Ø IØ13 Ø2 7ØØ8 Item Description	M	Shall contain full drug name, strength and form. May be abbreviated. Fields Ø1Ø IØ13 1Ø 7ØØ8, Ø1Ø IØ13 11 7ØØ8 and Ø1Ø IØ13 12 7ØØ8 can be used as overflow fields.
Ø1Ø IØ13 Ø3 714Ø Item Number	C	Not evaluated for conformance
Ø1Ø IØ13 Ø4 3Ø55 Code List Responsibility Agency	C	Not evaluated for conformance
Ø1Ø IØ13 Ø5 1131 Code List Qualifier	C	Not evaluated for conformance
Ø1Ø IØ13 Ø6 444Ø Free Text	C	Not evaluated for conformance
Ø1Ø IØ13 Ø7 1131 Code List Qualifier	C	Not evaluated for conformance
Ø1Ø IØ13 Ø8 1154 Reference Number	C/RMU	Shall contain the appropriate medications vocabulary value for the prescribed medication, as determined by the medications source vocabulary implemented within the EHR. The medications source vocabulary implemented within the EHR shall be a vocabulary which has been identified by the National Library of Medicine as contained within RxNorm. As of 6/17/2010 NLM has identified the following vocabularies: GS - Gold Standard Alchemy MDDB - Medi-Span Master Drug Data Base MMSL - Multum MediSource Lexicon MMX - Micromedex DRUGDEX MSH - Medical Subject Headings (MeSH) MTHFDA - FDA National Drug Code Directory MTHSPL - FDA Structured Product Labels

		NDDF - First DataBank NDDF Plus Source Vocabulary NDFRT - Veterans Health Administration National Drug File - Reference Terminology SNOMED CT - SNOMED Clinical Terms (drug information) VANDF - Veterans Health Administration National Drug File
Ø1Ø IØ13 Ø9 1153 Reference Qualifier	C/RMU	Shall contain the appropriate coded responsible organization identifier for the medications source vocabulary implemented within the EHR. The Tester is responsible for identifying the appropriate SCRIPT reference qualifier value for the medications vocabulary implemented in the EHR.
Ø1Ø IØ13 1Ø 7ØØ8 Item Description	C	Overflow field - Evaluate only if the character length of drug name, strength and form exceed the field size for Ø1Ø IØ13 Ø2 7ØØ8 Item Description
Ø1Ø IØ13 11 7ØØ8 Item Description	C	Overflow field - Evaluate only if the character length of drug name, strength and form exceed the field size for Ø1Ø IØ13 Ø2 7ØØ8 Item Description
Ø1Ø IØ13 12 7ØØ8 Item Description	C	Overflow field - Evaluate only if the character length of drug name, strength and form exceed the field size for Ø1Ø IØ13 Ø2 7ØØ8 Item Description
Ø2Ø IØØ9 Ø1 6Ø63 Quantity Qualifier	M	Shall contain the appropriate units of measure quantity qualifier for the prescribed quantity in Ø2Ø IØØ9 Ø2 6Ø6Ø
Ø2Ø IØØ9 Ø2 6Ø6Ø Quantity M an..35	M	Shall contain the prescribed quantity
Ø2Ø IØØ9 Ø3 1131 Code List Qualifier	M	Shall contain value = 38
Ø3Ø IØ14 Ø1 Dosage Identification	C	Not evaluated for conformance
Ø3Ø IØ14 Ø2 Dosage	M	Shall contain the SIG instructions as written by the prescriber
Ø3Ø IØ14 Ø3 Dosage	C	Overflow field – evaluate only if the SIG overflows field Ø3Ø IØ14 Ø2
Ø4Ø IØØ6 Ø1 2ØØ5 Date/Time Period Qualifier	M	One repetition shall contain value = 85
Ø4Ø IØØ6 Ø2 238Ø Date/Time/Period	M	When value = 85 in field Ø4Ø IØØ6 Ø1 2ØØ5, this field shall contain the date/time of the prescription.
Ø4Ø IØØ6 Ø3 2379 Date/Time/Period Format Qualifier	M	When value = 85 in field Ø4Ø IØØ6 Ø1 2ØØ5, this field shall contain the appropriate date/time format designator
Ø5Ø 4457 Product/Service Substitution,		Not evaluated for conformance
Ø6Ø IØØ9 Ø1 6Ø63 Quantity Qualifier	M	One repetition of this field shall contain value = R
Ø6Ø IØØ9 Ø2 6Ø6Ø Quantity	CM	Shall contain the appropriate value based on the number of refills identified in the prescription, according to the following logic in the SCRIPT standard: “R” implies an Original Dispensing in addition to the Quantity specified in DRU Ø6Ø-IØØ9-Ø2-6Ø6Ø. Example: If DRU Ø6Ø-IØØ9-Ø1-6Ø63 = “R” and DRU Ø6Ø-IØØ9-Ø2-6Ø6Ø = 3, the prescriber is authorizing four dispensings. CM = Not required if PRN appears in Ø6Ø IØØ9 Ø1 6Ø63 Quantity Qualifier
Ø7Ø IØ15 Ø1 681Ø Clinical Information Qualifier	CM	Not evaluated for conformance
Ø7Ø IØ15 Ø2 6813 Clinical Information - primary	CM	Not evaluated for conformance

Ø7Ø IØ15 Ø3 1131 Code List Qualifier	C	Not evaluated for conformance
Ø7Ø IØ15 Ø4 6813 Clinical Information - secondary	C	Not evaluated for conformance
Ø7Ø IØ15 Ø5 1131 Code List Qualifier	C	Not evaluated for conformance
Ø8Ø IØØ1 Ø1 1154 Reference Number M	CM	Not evaluated for conformance
Ø8Ø IØØ1 Ø2 1153 Reference Qualifier	C	Not evaluated for conformance
Ø9Ø 444Ø Free Text	C	Not evaluated for conformance
1ØØ SØ18 Ø1 788Ø DUE Reason For Service Code	CM	Not evaluated for conformance
1ØØ SØ18 Ø2 7881 DUE Professional Service Code	C	Not evaluated for conformance
1ØØ SØ18 Ø3 7882 DUE Result Of Service Code	C	Not evaluated for conformance
1ØØ SØ18 Ø4 7883 DUE Co-Agent ID	C	Not evaluated for conformance
1ØØ SØ18 Ø5 7884 DUE Co-Agent ID Qualifier	C	Not evaluated for conformance
11Ø 7885 Drug Coverage Status Code	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message - UIT Field-level Conformance Assessment

Tester shall verify that specific fields in the UIT segment of the NEWRX message meet the conformance statements listed in Table 9. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/UIT segment.

Table 9: NEWRX/UIT FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13Segment code	M	Shall contain value = UIT
Ø1Ø-ØØ62 Message Reference Number		Shall contain value = value in fleld UIH 0062 Optionality for this field is listed as “C” on page 137 of SCRIPT v8.1, however the Remarks section indicates that “this field is Mandatory”
Ø2Ø-ØØ74 Number of Segments in Message	M	Shall contain value = count of the number of segments in the message including the UIH and UIT Optionality for this field is listed as “C” on page 137 of SCRIPT v8.1, however the Remarks section indicates that “Mandatory field”

NCPDP SCRIPT NEWRX Message - UIZ Field-level Conformance Assessment

Tester shall verify that specific fields in the UIZ segment of the NEWRX message meet the conformance statements listed in Table 10. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 8.1 for Field Locations, Definitions and Usage in the NEWRX/UIZ segment.

Table 10: NEWRX/UIZ FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13Segment code	M	Shall contain value = UIZ
Ø2Ø-ØØ36 Interchange Control Count	C	Not evaluated for conformance

170.304(b) Inspection Test Guide for NCPDP SCRIPT v10.6

This inspection test guide defines the minimum conformance requirements for a new prescription message (NEWRX) generated by an EHR in accordance with the criteria and standards in the FR. The Tester shall evaluate the message according to the conformance requirements in each table of this inspection test guide. The Tester may conduct the evaluation by visually examining the message, or by applying an automated testing tool which has been verified as consistent with the conformance statements in this inspection test guide.

Optionality Designations

In SCRIPT v10.6 optionality at the segment level is expressed as Y/N. Optionality at the composite and field level is expressed as:

M = Mandatory
C = Conditional
CM = Conditional Mandatory (the composite is Conditional, but if the composite is used, the field within is Mandatory)
N = Not Used

Additional optionality requirements specified by the ONC MU Certification and Standards rule are labeled with the code RMU.

With only two exceptions, the inspection test guide only requires evaluation of the fields marked "M – Mandatory" in SCRIPT v10.6. The two exceptions are labeled with the optionality code RMU, indicating that the field must be conformant for meaningful use testing. Other fields marked "C- Conditional" may be required for specific trading partner agreements, however, those requirements are not specified in the FR and shall not be evaluated.

How to interpret the conformance statements

- Shall be present - the segment shall be present in the message.
- Shall contain value – the field shall contain either the literal value identified in the conformance statement, or the logical value as described in the conformance statement.
- Shall be populated – the field shall be populated with a value, however no specific value has been identified. These fields may be subject to specific constraints based on trading partner agreements, however, per SCRIPT v10.6, there are multiple values which may be applicable.

  Many of the required data content values will be evaluated for conformance by the Tester based

on the test data used during the test, such as prescription information, patient information, prescriber information and pharmacy information. The Tester shall record (document) the test data used during the test.

NCPDP SCRIPT NEWRX - Message Segment Conformance Assessment

Tester shall verify that specific segments of the NEWRX message are present in the test message as defined below in Table 1.

Table 1: NEWRX Message Segments Conformance Statements

UNA – Service String Advice	Y	Segment shall be present in the NEWRX message
UIB – Interactive Interchange Control Header	y	Segment shall be present in the NEWRX message
UIH – Interactive Message Header	Y	Segment shall be present in the NEWRX message
REQ – Request Segment	N	Not evaluated for conformance
PVD – Prescriber Segment	Y	Segment containing Prescriber information shall be present in the NEWRX message
PVD – Pharmacy Segment	N/RMU	Segment containing Pharmacy information shall be present in the NEWRX message
PTT – Patient Segment	Y	Segment shall be present in the NEWRX message
DRU – Drug Segment	Y	Segment shall be present in the NEWRX message
SIG – SIG Segment	N	Not evaluated for conformance
OBS – Observation Segment	N	Not evaluated for conformance
COO – Coordination of Benefits Segment	N	Not evaluated for conformance
UIT – Interactive Message Trailer	Y	Segment shall be present in the NEWRX message
UIZ – Interactive Exchange Trailer	Y	Segment shall be present in the NEWRX message

NCPDP SCRIPT NEWRX Message - UNA Field-level Conformance Assessment

Tester shall verify that specific fields in the UNA segment of the NEWRX message meet the conformance statements listed in Table 2. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/UNA segment. Delimiters shall be identified in the UNA fields, however, per SCRIPT 10.6, the delimiter values listed below are recommended, not required, and subject to revision by trading partner agreements.

Table 2: NEWRX/UNA FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13Segment code	M	Shall contain value = UNA
Ø1Ø-Ø1Component Data Element Separator	M	Shall be populated; May contain value = 28 (1C)
Ø1Ø-Ø2 Data Element Separator	M	Shall be populated; May contain value = 29 (1D)
Ø1Ø-Ø3 Decimal Notation	M	Shall be populated; May contain value = 46 (2E)

Ø1Ø-Ø4 Release Indicator	M	Shall be populated; May contain value = 32 (20)
Ø1Ø-Ø5 Repetition Separator	M	Shall be populated; May contain value = 31 (1F)
Ø1Ø-Ø6 Segment Separator	M	Shall be populated; May contain value = 30 (1E)

NCPDP SCRIPT NEWRX Message – UIB Field-level Conformance Assessment

Tester shall verify that specific fields in the UIB segment of the NEWRX message meet the conformance statements listed in Table 3. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/UIB segment.

Table 3: NEWRX/UIB FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment Code	M	Shall contain value = UIB
Ø1Ø-SØØ1-Ø1-ØØØ1 Syntax identifier	M	Shall contain value = UNOA
Ø1Ø-SØØ1-Ø2-ØØØ2 Syntax version number	M	Shall contain value = 0
Ø3Ø-S3Ø3-Ø1-Ø3Ø6 Transaction control reference	M	Shall be populated with a transaction control reference number provided by the sender
Ø3Ø-S3Ø3-Ø2-Ø3Ø3 Initiator reference identifier	C	Not evaluated for conformance
Ø3Ø-S3Ø3-Ø3-ØØ51 Controlling agency, coded	C	Not evaluated for conformance
Ø6Ø-SØØ2-Ø1-ØØØ4 Interchange Sender - Sender identification - level one	M	Shall contain an identifier representing the prescriber
Ø6Ø-SØØ2-Ø2-ØØØ7 Level one identification code qualifier	M	Shall contain value = D
Ø6Ø-SØØ2-Ø3-ØØØ8 Sender identification - level two	C	Not evaluated for conformance
Ø6Ø-SØØ2-Ø4-ØØ4Ø Sender identification - level three	C	Not evaluated for conformance
Ø7Ø-SØØ3-Ø1-ØØ1Ø Interchange Recipient - Recipient ID - level one	M	Shall contain an identifier representing the pharmacy
Ø7Ø-SØØ3-Ø2-ØØØ7 Level one identification code qualifier	M	Shall contain value = P
Ø7Ø-SØØ3-Ø3-ØØ14 Interchange Recipient - Recipient ID – level two	C	Not evaluated for conformance
Ø7Ø-SØØ3-Ø4-ØØ44 Interchange Recipient - Recipient ID - level three	C	Not evaluated for conformance
Ø8Ø-S3ØØ-Ø1-ØØ17 Date of initiation	M	Shall contain the date of transmission
Ø8Ø-S3ØØ-Ø2-Ø114 Event Time	M	Shall contain the time of transmission
1ØØ-ØØ35 Test Indicator	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – UIH Field-level Conformance Assessment

Tester shall verify that specific fields in the UIH segment of the NEWRX message meet the conformance statements listed in Table 4. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/UIH segment.

Table 4: NEWRX/UIH FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = UIH
Ø1Ø-S3Ø6-Ø1-Ø329 Message type	M	Shall contain value = SCRIPT
Ø1Ø-S3Ø6-Ø2-Ø316 Message version number	M	Shall contain value = 101
Ø1Ø-S3Ø6-Ø3-Ø318 Message release number	M	Shall contain value = 006
Ø1Ø-S3Ø6-Ø4-Ø326 Message function	M	Shall contain value = NEWRX
Ø1Ø-S3Ø6-Ø6-ØØ57 Association assigned code	C	Not evaluated for conformance
Ø2Ø-ØØ62 Message Reference Number	C	Not evaluated for conformance
Ø3Ø-SØ32-Ø1-Ø3ØØ Dialogue Reference - Initiator control reference	CM	Not evaluated for conformance
Ø3Ø-SØ32-Ø2-Ø3Ø3 Initiator reference identifier	C	Not evaluated for conformance
Ø3Ø-SØ32-Ø3-ØØ51 Controlling Agency, Coded	C	Not evaluated for conformance
Ø3Ø-SØ32-Ø4-Ø3Ø4 Responder control reference	C	Not evaluated for conformance
Ø5Ø-S3ØØ-Ø1-ØØ17 Date of initiation	C	Not evaluated for conformance
Ø5Ø-S3ØØ-Ø2-Ø314 Event time	C	Not evaluated for conformance
Ø6Ø-ØØ35 Test Indicator	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – PVD - Prescriber Field-level Conformance Assessment

Tester shall verify that specific fields in the PVD segment of the NEWRX message, when used to identify the Prescriber, meet the conformance statements listed in Table 5 . Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/PVD segment.

Table 5: NEWRX/PVD-Prescriber Field-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = PVD
Ø1Ø-47Ø5 Provider Coded	M	Shall contain value = PC
Ø2Ø-IØØ1-Ø1-1154 Reference Number	M	Shall be populated. If the prescriber has an NPI, one occurrence must contain the NPI. If the prescriber has a DEA number, one occurrence must contain the DEA Number.

Ø2Ø-IØØ1-Ø2-1153 Reference Qualifier	M	Shall be populated. If the prescriber has an NPI, one occurrence must contain the value “HPI” (NPI). If the prescriber has a DEA number, one occurrence must contain the value “DH” (DEA Number).
Ø4Ø-IØØ7-Ø1-47Ø9 Agency Qualifier, coded	CM	Not evaluated for conformance
Ø4Ø-IØØ7-Ø2-47Ø7 Provider Specialty, coded	N	Not evaluated for conformance
Ø4Ø-IØØ7-Ø3-799Ø Provider Specialty code	CM	Not evaluated for conformance
Ø5Ø- IØØ2-Ø1-3Ø36 Party Name	M	Shall contain last name of prescriber
Ø5Ø- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø3- 37Ø4 Middle Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø5-37Ø8 Name Prefix	C	Not evaluated for conformance
Ø7Ø-3Ø36 Party Name	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø1-3Ø42 Street and Number/P.O. Box	M	Shall contain street number and name associated with the prescriber
Ø8Ø-IØØ4-Ø2-3164 City Name	M	Shall contain city name associated with the prescriber
Ø8Ø-IØØ4-Ø3-3229 Country Sub-entity identification	M	Shall contain the State name associated with the prescriber
Ø8Ø-IØØ4-Ø4-3251 Postcode Identification	M	Shall contain the zip code associated with the prescriber
Ø8Ø-IØØ4-Ø5-3227 Place/Location Qualifier	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø6-3224 Place/Location	C	Not evaluated for conformance
Ø9Ø-IØ16-Ø1-3148 Communication Number	M	Shall contain a contact number for the prescriber
1ØØ-IØØ2-Ø1-3Ø36 Party Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø3-37Ø4 Middle Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
1ØØ- IØØ2-Ø5- 37Ø8 Name Prefix	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – PVD - Pharmacy Field-level Conformance Assessment

Tester shall verify that specific fields in the PVD segment of the NEWRX message, when used to identify the Pharmacy, meet the conformance statements listed in Table 6. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/PVD segment..

Table 6: NEWRX/PVD-Pharmacy Field-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = PVD
Ø1Ø-47Ø5 Provider Coded	M	Shall contain value = P2
Ø2Ø-IØØ1-Ø1-1154 Reference Number	M	Shall be populated. One occurrence must contain the NCPDP Provider ID Number
Ø2Ø-IØØ1-Ø2-1153 Reference Qualifier	M	Shall be populated One occurrence must contain the value “D3” (NCPDP Provider ID Number).

Ø4Ø-IØØ7-Ø1-47Ø9 Agency Qualifier, coded	CM	Not evaluated for conformance
Ø4Ø-IØØ7-Ø2-47Ø7 Provider Specialty, coded	N	Not evaluated for conformance
Ø4Ø-IØØ7-Ø3-799Ø Provider Specialty code	CM	Not evaluated for conformance
Ø5Ø- IØØ2-Ø1-3Ø36 Party Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø3- 37Ø4 Middle Name	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
Ø5Ø- IØØ2-Ø5-37Ø8 Name Prefix	C	Not evaluated for conformance
Ø7Ø-3Ø36 Party Name	M	Shall be populated with the name of the pharmacy
Ø8Ø-IØØ4-Ø1-3Ø42 Street and Number/P.O. Box	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø2-3164 City Name	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø3-3229 Country Sub-entity identification	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø4-3251 Postcode Identification	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø5-3227 Place/Location Qualifier	C	Not evaluated for conformance
Ø8Ø-IØØ4-Ø6-3224 Place/Location	C	Not evaluated for conformance
Ø9Ø-IØ16-Ø1-3148 Communication Number	M	Shall contain a contact number for the pharmacy
Ø9Ø-IØ16-Ø2-1131 Code List Qualifier	M	Shall be populated with appropriate value based on type of communication number provided in Ø9Ø-IØ16-Ø1-3148 BN = Beeper CP = Cellular EM = Electronic Mail FX = Fax HP = Home NP = Night TE = Telephone WP = Work
1ØØ-IØØ2-Ø1-3Ø36 Party Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø2-37Ø2 First Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø3-37Ø4 Middle Name	C	Not evaluated for conformance
1ØØ- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
1ØØ- IØØ2-Ø5- 37Ø8 Name Prefix	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message – PTT - Patient Field-level Conformance Assessment

Tester shall verify that specific fields in the PTT segment of the NEWRX message, when used to identify the Pharmacy, meet the conformance statements listed in Table 7 . Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/PTT segment.

Table 7: NEWRX/PTT-Patient Field-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13 Segment code	M	Shall contain value = PTT

Ø1Ø-97Ø1 Individual Relationship, coded	C	Not evaluated for conformance
Ø2Ø-27ØØ Century Date	C	Not evaluated for conformance
Ø3Ø-IØØ2-Ø1-3Ø36 Party Name	M	Shall contain the last name of the patient
Ø3Ø- IØØ2-Ø2-37Ø2 First Name	M	Shall contain the first name of the patient
Ø3Ø- IØØ2-Ø3-37Ø4 Middle Name	C	Not evaluated for conformance
Ø3Ø- IØØ2-Ø4-37Ø6 Name Suffix	C	Not evaluated for conformance
Ø3Ø- IØØ2-Ø5-37Ø8 Name Prefix	C	Not evaluated for conformance
Ø4Ø-97Ø3 Gender, coded	M	Shall contain a value appropriate for patient from this list M = Male F = Female U = Unknown
Ø5Ø-IØØ1-Ø1-1154 Reference Number	CM	Not evaluated for conformance
Ø5Ø-IØØ1-Ø2-1153 Reference Qualifier	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø1-3Ø42 Street and Number/P.O. Box	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø2-3164 City Name	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø3-3229 Country Sub-entity identification	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø4-3251 Postcode Identification	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø5-3227 Place/Location Qualifier	C	Not evaluated for conformance
Ø6Ø-IØØ4-Ø6-3224 Place/Location	C	Not evaluated for conformance
Ø7Ø-IØ16-Ø1-3148 Communication Number	C	Not evaluated for conformance
Ø7Ø-IØ16-Ø2-1131 Code List Qualifier	C	Not evaluated for conformance
Ø8Ø-SØ2Ø Location	C	Not evaluated for conformance
Ø8Ø-SØ2Ø-Ø1-7888 Facility Unit	C	Not evaluated for conformance
Ø8Ø-SØ2Ø-Ø2-7889 Room	C	Not evaluated for conformance
Ø8Ø-SØ2Ø-Ø3-789Ø Bed	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message - DRU Field-level Conformance Assessment

Tester shall verify that specific fields in the DRU segment of the NEWRX message meet the conformance statements listed in Table 8. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/DRU segment.

Table 8: NEWRX/DRU Field-level Conformance Statements

ØØØ SØ19 Ø1 ØØ13 Segment code	M	Shall contain value = DRU
Ø1Ø IØ13 Ø1 7ØØ9 Item Description Identification	M	Shall contain value = P
Ø1Ø IØ13 Ø2 7ØØ8 Item Description	M	Shall contain full drug name, strength and form. May be abbreviated. Fields Ø1Ø IØ13 1Ø 7ØØ8, Ø1Ø IØ13 11 7ØØ8 and Ø1Ø IØ13 12 7ØØ8 can be used as overflow fields.
Ø1Ø IØ13 Ø3 714Ø Item Number	C	Not evaluated for conformance.
Ø1Ø IØ13 Ø4 3Ø55 Code List Responsibility Agency	C	Not evaluated for conformance

Ø1Ø IØ13 Ø5 1131 Code List Qualifier	N	Not evaluated for conformance
Ø1Ø IØ13 Ø6 444Ø Free Text	C	Not evaluated for conformance
Ø1Ø IØ13 Ø7 1131 Code List Qualifier	N	Not evaluated for conformance
Ø1Ø IØ13 Ø8 1154 Reference Number	C/RMU	Shall contain the appropriate medications vocabulary value for the prescribed medication, as determined by the medications source vocabulary implemented within the EHR. The medications source vocabulary implemented within the EHR shall be a vocabulary which has been identified by the National Library of Medicine as contained within RxNorm. As of 6/17/2010 NLM has identified the following vocabularies: GS - Gold Standard Alchemy MDDB - Medi-Span Master Drug Data Base MMSL - Multum MediSource Lexicon MMX - Micromedex DRUGDEX MSH - Medical Subject Headings (MeSH) MTHFDA - FDA National Drug Code Directory MTHSPL - FDA Structured Product Labels NDDF - First DataBank NDDF Plus Source Vocabulary NDFRT - Veterans Health Administration National Drug File - Reference Terminology SNOMED CT - SNOMED Clinical Terms (drug information) VANDF - Veterans Health Administration National Drug File
Ø1Ø IØ13 Ø9 1153 Reference Qualifier	C/RMU	Shall contain the appropriate coded responsible organization identifier for the medications source vocabulary implemented within the EHR. The Tester is responsible for identifying the appropriate SCRIPT reference qualifier value for the medications vocabulary implemented in the EHR.
Ø1Ø IØ13 1Ø 7ØØ8 Item Description	C	Overflow field - Evaluate only if the character length of drug name, strength and form exceed the field size for Ø1Ø IØ13 Ø2 7ØØ8 Item Description
Ø1Ø IØ13 11 7ØØ8 Item Description	C	Overflow field - Evaluate only if the character length of drug name, strength and form exceed the field size for Ø1Ø IØ13 Ø2 7ØØ8 Item Description
Ø1Ø IØ13 12 7ØØ8 Item Description	C	Overflow field - Evaluate only if the character length of drug name, strength and form exceed the field size for Ø1Ø IØ13 Ø2 7ØØ8 Item Description
Ø2Ø IØØ9 Ø1 6Ø63 Quantity Qualifier	N	Not evaluated for conformance
Ø2Ø IØØ9 Ø2 6Ø6Ø Quantity	M	Shall contain the prescribed quantity
Ø2Ø IØØ9 Ø3 1131 Code List Qualifier	M	Shall contain value = 38
Ø2Ø-IØØ9-Ø4-7991 Source Code List	M	Shall contain the applicable code identifying the source organization for the Potency Unit Code in field Ø2Ø-IØØ9-Ø5-7994. The Tester shall determine the appropriate coded value for this field based on the allowable codes for SCRIPT field 7991.
Ø2Ø-IØØ9-Ø5-7994 Potency Unit Code	M	Shall contain the applicable units of measure for field Ø2Ø IØØ9 Ø2 6Ø6Ø. The Tester shall determine the appropriate coded value for this field based on the allowable codes for SCRIPT field 7994.
Ø3Ø IØ14 Ø1 Dosage Identification	C	Not evaluated for conformance
Ø3Ø IØ14 Ø2 Dosage	M	Shall contain the SIG instructions as written by the prescriber
Ø3Ø IØ14 Ø3 Dosage	C	Overflow field – evaluate only if the SIG overflows field Ø3Ø IØ14 Ø2
Ø4Ø IØØ6 Ø1 2ØØ5 Date/Time Period Qualifier	M	One repetition shall contain value = 85

Ø4Ø IØØ6 Ø2 238Ø Date/Time/Period	M	When value = 85 in field Ø4Ø IØØ6 Ø1 2ØØ5, this field shall contain the date/time of the prescription.
Ø4Ø IØØ6 Ø3 2379 Date/Time/Period Format Qualifier	M	When value = 85 in field Ø4Ø IØØ6 Ø1 2ØØ5, this field shall contain the date/time format designator
Ø5Ø 4457 Product/Service Substitution,	C	Not evaluated for conformance
Ø6Ø IØØ9 Ø1 6Ø63 Quantity Qualifier	M	One repetition of this field shall contain value = R
Ø6Ø IØØ9 Ø2 6Ø6Ø Quantity	CM	Shall contain the appropriate value based on the number of refills identified in the prescription, according to the following logic in the SCRIPT standard: "R" implies an Original Dispensing in addition to the Quantity specified in DRU Ø6Ø-IØØ9-Ø2-6Ø6Ø. Example: If DRU Ø6Ø-IØØ9-Ø1-6Ø63 = "R" and DRU Ø6Ø-IØØ9-Ø2-6Ø6Ø = 3, the prescriber is authorizing four dispensings. CM = Not required if PRN appears in Ø6Ø IØØ9 Ø1 6Ø63 Quantity Qualifier
Ø7Ø IØ15 Ø1 681Ø Clinical Information Qualifier	CM	Not evaluated for conformance
Ø7Ø IØ15 Ø2 6813 Clinical Information - primary	CM	Not evaluated for conformance
Ø7Ø IØ15 Ø3 1131 Code List Qualifier	C	Not evaluated for conformance
Ø7Ø IØ15 Ø4 6813 Clinical Information - secondary	C	Not evaluated for conformance
Ø7Ø IØ15 Ø5 1131 Code List Qualifier	C	Not evaluated for conformance
Ø8Ø IØØ1 Ø1 1154 Reference Number	CM	Not evaluated for conformance
Ø8Ø IØØ1 Ø2 1153 Reference Qualifier	C	Not evaluated for conformance
Ø9Ø 444Ø Free Text	C	Not evaluated for conformance
1ØØ SØ18 Ø1 788Ø DUE Reason For Service Code	CM	Not evaluated for conformance
1ØØ SØ18 Ø2 7881 DUE Professional Service Code	C	Not evaluated for conformance
1ØØ SØ18 Ø3 7882 DUE Result Of Service Code	C	Not evaluated for conformance
1ØØ SØ18 Ø4 7883 DUE Co-Agent ID	C	Not evaluated for conformance
1ØØ SØ18 Ø5 7884 DUE Co-Agent ID Qualifier	C	Not evaluated for conformance
1ØØ-SØ18-Ø6-7997 DUE Clinical Significance Code	C	Not evaluated for conformance
1ØØ-SØ18-Ø7-7998 DUE Acknowledgement Reason	C	Not evaluated for conformance
11Ø 7885 Drug Coverage Status Code	C	Not evaluated for conformance
12Ø-7891 Prior Authorization Status	C	Not evaluated for conformance
13Ø-7892 Do Not Fill/Profile Flag	C	Not evaluated for conformance
14Ø-IØØ6-Ø1-2ØØ5 Date/Time/Period Qualifier	C	Not evaluated for conformance
14Ø-IØØ6-Ø2-238Ø Date/Time/Period	C	Not evaluated for conformance
14Ø-IØØ6-Ø3-2379 Date/Time/Period Format Qualifier	C	Not evaluated for conformance
15Ø-EØ34-Ø1-2Ø29 Time Zone Identifier	CM	Not evaluated for conformance
15Ø-EØ34-Ø2-2116 Time Zone Difference Quantity	CM	Not evaluated for conformance
16Ø-7894 Needed No Later Than Reason	C	Not evaluated for conformance

NCPDP SCRIPT NEWRX Message - UIT Field-level Conformance Assessment

Tester shall verify that specific fields in the UIT segment of the NEWRX message meet the conformance statements listed in Table 9. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/UIT segment.

Table 9: NEWRX/UIT FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13Segment code	M	Shall contain value = UIT
Ø1Ø-ØØ62 Message Reference Number	M	Shall contain value = value in field UIH 0062. Optionality for this field is listed as “C” on page 217 of SCRIPT v10.6, however the Remarks section indicates that “this field is Mandatory”
Ø2Ø-ØØ74 Number of Segments in Message	M	Shall contain value = count of the number of segments in the message including the UIH and UIT. Optionality for this field is listed as “C” on page 217 of SCRIPT v10.6, however the Remarks section indicates that “Mandatory field”

NCPDP SCRIPT NEWRX Message - UIZ Field-level Conformance Assessment

Tester shall verify that specific fields in the UIZ segment of the NEWRX message meet the conformance statements listed in Table 10. Refer to the NCPDP SCRIPT Standard Implementation Guide Version 10.6 for Field Locations, Definitions and Usage in the NEWRX/UIZ segment.

Table 10: NEWRX/UIZ FIeld-level Conformance Statements

ØØØ-SØ19-Ø1-ØØ13Segment code	M	Shall contain value = UIZ
Ø2Ø-ØØ36 Interchange Control Count	C	Not evaluated for conformance

Document History

Version Number	Description	Date Published
0.7	Original draft version	April 9, 2010
1.0	Updated to reflect Final Rule	July 21, 2010
1.0	Updates include: • removed “Pending” from header • updated medications in test data	August 13, 2010