National Patient Information Reporting System: National Data Warehouse

NDW HL7 Standard Format Data Transmission Guide

Version: 7.0.1 Published: 4/2/2025



Department of Health and Human Services

Indian Health Service

Office of Information Technology (OIT)

Contents

Contents ii
Version Controlv
Contact Informationvi
Overview1
Health Level 71
HL7 General Description1HL7 Terminology and Definitions2ACK2ADT2Batch Header2Batch Trailer3Component3Data Type3Delimiters3Element4Message4Message Header Segment4Trigger Event5
IHS HL7 Specification
Irigger Events
Message Definition
Message Syntax
Segment Attribute Specifications7
A08 – ADT Update Patient Information Message Definition
A31 – ADT Update Person Information Message Definition
R01 – AD1 Update Patient Based Clinical Data Information Message Definition10 HL7 Data Export File Requirements
NDW Dequired III 7 Components
NDW Required GPR A/GPR A MA Components
File Name Convention
Data Transmission
Appendix A – Data Types
Annendix B = ADT Segments 10
Appendix C Deference Tebles
Appendix C – Reference Tables
National Lookup Tables

NDW HL7 Standard Format Data Transmission Guide

ADA/CDT Codes	
HCPCS/CPT Codes	20
ICD Codes	21
LOINC	22
X12 Provider Taxonomy Codes	23
IHS-Specific Lookup Tables	23
Appendix D - Data Elements	24
Appendix E - Message Samples	24
A08 Patient Information Message Sample	25
A31 Person Information Message Sample	
R01 Person Based Clinical Data Information Message Sample	27
Appendix F – Glossary	

Version Control

Version	Date	Notes
Beta 3	April 2004	Initial Documatron version
Beta 4	June 2004	Reorganize Transmission section; Appendix B, D, F, add website location to information
2.0	August 2004	Production Version
2.1	November 2004	Page 2, Vocabulary and Definitions: additional information for ACK and ADT.
2.2	November 2004	Updates to trigger events.
2.3	May 2005	Corrections to A08, A31 messages: pages 6, 7, 8, 9; Updates to Appendix C
2.4	August 2005	Reorder IHS HL7 Specification section; move Glossary to last appendix (F). Add instructions to locate online docs referred to in Appendix B, D. Add segment, message terminators to Delimiters (p 3)
2.5	December 2006	Update Filename convention (p 10) FY07 Deliverable 1.12.2
3.0	April 2008	Added "HL7 Data Export File Requirements" section summary; updated "NDW Required HL7 Components" with expanded list of data elements; updated Appendix C - Reference Tables. FY08 Bridge Contract D1.7.2, accepted by COTR 10APR08
3.1	October 2010	Updated links to several websites, including NDW and SCB.
3.2	May 2011	Annual Review
4.0	May 19, 2011	Final
4.1	July 28, 2011	Returned to DRAFT status; updates to A08 and A31 Message examples; updates to metadata
5.0	September 12, 2012	Annual update published and approved.
6.0	October 2014	Add ICD-10 information
7.0	July 2015	Add new data elements for GPRA/GPRAMA

7.0.1	April 2025	Updating documentation to support compliance and
		Version Control consistency for all published
		guidelines.

Contact Information

For any questions related to implementing the HL7 structured format files, call or email the OIT Help Desk.

Phone:	1-888-830-7280
E-mail:	itsupport@ihs.gov

Overview

The Indian Health Service (IHS) uses a generic interface with the Health Level 7 (HL7) protocol standard, which the National Data Warehouse (NDW) uses for exchanging health care data. The interface is based on the HL7 Standard, as specified in this guide. Anyone wishing to interface with the NDW should become familiar with the HL7 Standard.

This guide includes the following sections:

- Health Level 7 General Description and Terminology
- IHS HL7 Specification (Based on HL7 Standard Version 2.4)
- IHS HL7 Transmission Protocol
- Reference Table Information

This guide is intended for use by the person(s) responsible for transmitting their facility's medical information to the NDW according to the IHS HL7 Standard.

It is assumed that the user of this guide has already acquired the knowledge and tools needed to prepare and submit data using HL7 Standards. There are many publicly and commercially available print/internet resources and software products available to navigate through the world of HL7 messaging. For additional information about organizations and standards that relate to the HL7 Standard, see Appendix F - Glossary.

This guide will assist the person(s) responsible for locating and mapping your data to the list of requested data elements (Appendix D - Data Elements) and ultimately, to the HL7 messages for transmission to the NDW. For certain data, this includes mapping to specific reference values, as described in Appendix C – Reference Tables.

This guide is subject to modification and/or revision to incorporate changes, improvements and enhancements, or to support additional functionality of later versions of the HL7 standard/protocol.

Health Level 7

HL7 General Description

Health Level 7 (HL7) is the generally accepted standard for the exchange of certain specified types of medical information between applications. The standard dictates the content and format of the data to be exchanged.

HL7 is both the name of the standards developing organization and the collection of protocols that organization has developed and published. For more information, refer to the HL7 website: <u>www.hl7.org</u>.

HL7 Terminology and Definitions

As with any standard, there is a unique set of terms related to HL7. Some of the basics are included here. Since many of the definitions are intertwined, the list is presented here in alphabetical order for ease of reference. Some definitions may include other terms that are defined elsewhere in the list.

ACK

ACK is the abbreviation for Acknowledgement and is the outbound message supported by the NDW. If HL7 messages are streamed, ACK messages are sent to the sending facility's system to acknowledge receipt *per message*.

Since the NDW receives HL7 messages in batches, an ACK message is sent to the sending facility's system to acknowledge receipt of the *entire message batch*. An ACK message may also be sent to Area and/or Site personnel on request.

ADT

ADT is an acronym for Admission, Discharge, and Transmission and is used within the HL7 Patient Administration transaction set to transmit new or updated information about patients. An ADT message type is the only inbound message type supported by the NDW.

Batch Header

The Batch Header is a special message that provides information for all of the messages between the Batch Header and the Batch Trailer. The Batch Header has two segments:

- The standard Segment ID, BHS, which is always the first segment
- The IHS-specific header information Segment ID, ZHS, which follows the BHS segment

Together, these two segments provide administrative information needed to interpret the file.

NOTE:

Delimiters are set for Batch Header Segments independently from delimiters for Message Header Segments.

Batch Trailer

The Batch Trailer is a special message to indicate the end of the file. The Batch Trailer has two segments:

- The standard Segment ID, BTS, which is always the last segment
- The IHS-specific header information Segment ID, ZTS, which precedes the BTS segment

Together, these two segments provide administrative information needed at the end of the message batch.

Component

A Component is a distinct piece of data. If the element is a compound element (i.e., the element has more than one component), the Component Separator is used between each component.

In a message segment, a component is the part of the message that can be mapped directly to a specific field in the receiving database. In other types of segments, it can give distinct information used to manage the data.

Data Type

A Data Type places restrictions on the contents of an element. While everything is transmitted in ASCII and, therefore, is interpreted as a character string, a data type is indicated for each element so that it can be appropriately formatted after receipt.

For example, the DATE data type is expected in CCYYMMDD format. If the string forwarded is "20100411", it will be transformed to the appropriate date (4/11/2010 or 11APR2010, or however the receiving system formats dates). However, if the string is sent in another format, for example, 4-11-2010), there is uncertainty as to how this would be interpreted.

Delimiters

HL7 allows the designation of delimiters to separate segments, elements, and components, as well as to indicate repeating data and an escape. HL7 recommends the following standard set of delimiters:

Delimiter Delimiter Name

1	Element Separator
۸	Component Separator

NDW HL7 Standard Format Data Transmission Guide

~ Repetition Separate	r
· · · · · · · · · · · · · · · · · · ·	

- \ Escape Character
- & Sub-Component Separator

The Element Separator (|) is the primary delimiter for the message segments and is always the fourth character in the Message Header Segment. The other delimiters immediately follow the Element Separator in the order shown in the table.

Additionally, HL7 file formatting requires the following two delimiters:

Delimiter		Delimiter Name
Carriage Return <c< td=""><td>R> (ASCII hex0d)</td><td>Segment Terminator</td></c<>	R> (ASCII hex0d)	Segment Terminator
Line Feed <lf></lf>	(ASCII hex0a)	Message Terminator

The Segment Terminator occurs at the end of the segment. The Message Terminator occurs at the end of the message.

Element

An Element, also known as a data field, is a character string that is separated by the Element Separator. The string may have more than one component. For example, the element may be Patient Name, and the components could be Last, First, Middle. Each element is assigned a data type.

Message

A Message is a set of Message Segments that contain the pertinent data for a single patient registration or encounter.

Message Header Segment

The Message Header Segment (Segment ID, MSH) provides the information related to the whole message and is primarily administrative. This includes facility information, delimiters used in the message segments, application information, HL7 standard version, and the type of event contained in the message. This is the first segment in a message, containing the message type and the event that caused the event.

Message Segment

A Message Segment is a group of Elements, which have been defined as logically belonging to the same category (e.g., Patient Identification or Patient Visit). Some have been established by the HL7 Standard 2.4. Others, known as "Z" segments, allow users, like IHS, to gather information not contained in the HL7 Standard.

Each segment consists of a three-character Segment ID, the Elements, administrative information (if applicable to that segment type), designated delimiters between or within each element, and a segment terminator.

The sequence of segments for a given event is significant. Each segment is designated as required or optional.

Trigger Event

A Trigger Event is the real world event, for example, a patient visit, that initiates an exchange of messages. It is the occurrence of the patient visit that causes the creation of the HL7 message.

When the trigger event occurs, messages are created and written to a holding file. On a prearranged schedule, the messages in the holding file are transmitted as a "batch.

IHS HL7 Specification

The Indian Health Service (IHS) HL7 specification for transmitting health care data is based on HL7 Standard Version 2.4. The health care data may include, but are not necessarily limited to, patient demographics, immunizations, diagnoses, and other types of medical information.

The following sections describe the trigger events and the resulting messages that are sent from the information system of a facility to the NDW.

Trigger Events

The HL7 Standard supports over 40 trigger events. Currently, the NDW uses the following Admission, Discharge, and Transfer (ADT) related trigger events:

• A08 – Update Patient Information

This ADT related trigger event creates messages containing changes to patient visit, or *encounter*, information.

• A31 – Update Person Information

This ADT related trigger event creates messages containing changes to patient identification, or *registration*, information.

• R01 – Update Patient Based Clinical Data Information

This ADT related trigger event creates messages containing changes to patient clinical data information.

Messages are not streamed to the NDW immediately upon the occurrence of each A08, A31, or R01 trigger event. For purposes of transmitting data to the NDW, facilities will use the A08, A31 and R08 events to trigger a queuing of the information needed to generate messages. Then, on an agreed-upon schedule, an additional event will retrieve the data from the facility's system, generate a batch of messages, including a batch header and trailer, and transmit that set of messages in a file. For more information, see the "Data Transmission" section of this document.

NOTE:

To ensure that the NDW does not receive any visits for unknown patients, A31 event-triggered messages compiled for a particular patient should precede any A08-event-triggered messages for the same patient.

Message Specification

The following sections describe the IHS HL7 message specification.

Message Definition

Each trigger event creates a message with a defined order of segments. Batch Header and Batch Trailer segments surround the inbound supported messages, as follows:

- BHS Batch Header Segment
- ZHS -- IHS Batch Header Segment

A31, A08 and/or R01 Trigger Event Message Segments

- ZTS IHS Batch Trailer Segment
- BTS Batch Trailer Segment

Message Syntax

The message generated when the trigger event occurs uses the following HL7 abstract message syntax:

- Segments in each message must be in the order defined for the trigger event.
- Braces {...} indicate that the enclosed group of segments may repeat.

- Brackets [...] indicate that the enclosed group of segments is optional.
- Brackets and braces {[...]} indicate that the enclosed group of segments is optional and may repeat.
- An indented segment ID indicates that the indented segment is an extension of the preceding primary segment.

Segment Attribute Specifications

The segment attribute specifications are described in "Appendix B - ADT Segments." Each segment specification is presented in a grid. The following table lists the columns and their contents.

Column Name	Description
Seq	Sequence specifies the ordinal position of the data field within the segment.
Comp	Component specifies the ordinal position of the component within the sequence.
Len DT	 Maximum Length specifies the maximum number of characters that NDW supports for one occurrence of a component. To accommodate the specific needs of the NDW, the maximum length listed may differ from the HL7 Standard maximum length. Data Type specifies the restrictions on the contents of the data
	field, generally described by the HL7 Standard. See "Appendix A – Data Types" for the specific data types used by the NDW. To accommodate the specific needs of the NDW, the data types listed may differ from the HL7 Standard data types.
Rep	Repetition specifies the number of field repetitions supported by the NDW, where: Y = Indefinite or site-determined number of repetitions < <i>integer></i> = Number of repetitions as specified by < <i>integer></i> <blank> = No repetitions</blank>
Element Name	Element Name specifies the descriptive name for the data field. In a few cases, this may be different than the original HL7 Standard description.

Sup	Supported indicates whether the field is supported in NDW where: Yes = Supported No = Not supported Yes** = For accurate NDW processing
Description	The information in this column provides a more detailed description of the field, such as additional information on content and format of the element components.
A 1 C.1	

A number of the segments contain components to be filled by reference values. In these cases, the ADT Segments **Description** column contains the word "LOOKUP" and the name of the lookup table. See "Appendix C – Reference Tables" for important information on using reference tables to transmit data to the NDW. For samples of messages produced using these specifications, see "Appendix E - Message Samples"

A08 – ADT Update Patient Information Message Definition

These are the inbound supported message segments in the order defined for an A08 trigger event, which contains information related to a patient visit/encounter.

An indented segment indicates that the segment is an extension to the immediately preceding primary segment. For example, ZP2 is an extension of the primary segment PID; all indented segments under the primary segment PV1 are extensions of PV1

{ } indicate a segment may be repeated; for example, the {PR1} segment.

[] indicate a segment is optional; for example, the [ZDP] segment

{[]} indicate an optional segment that may be repeated; for example the {[ZMD]} and {[OBX]} segments

Segment	Description	
MSH	Message Header	
EVN	Event Type	
PID	Patient Identification	
ZP2	IHS Patient Information	
PV1	Patient Visit	
ZV1	IHS Patient Visit	
ZEN	IHS Encounter	
{ZVP}	IHS Patient Provider	
{DG1}	Diagnosis	
ZDX	IHS Diagnosis	
{PR1}	Procedure	
ZPR	IHS Procedure	
[ZPN]	IHS PHN	
{[ZDN]}	IHS Dental	
{[ZDP]}	IHS Dental Op	
{[ZIM]}	IHS Immunization	
{[ZMD]}	IHS Medication	
{[OBX]}	Health Factors	
{[OBX]}	Measurements	
{[OBX]}	Exams	
{[OBX]}	CPT	
{[OBX]}	Labs	
{[OBX]}	Patient Education	
{[OBX]}	Skin Tests	
{[OBX]}	Infant Feeding Choice	

NOTE: Any registration-specific information in an A08 event-triggered message is for cross-reference purposes only and is not used to update registration data in the

NDW.

To view an example of an A08 message, see "Appendix E - Message Samples Appendix E - Message Samples."

A31 – ADT Update Person Information Message Definition

These are the inbound supported message segments in the order defined for an A31 trigger event, which contains information related to a patient identification/registration.

An indented segment indicates that the	Segment	Description
segment is an extension to the immediately	MSH	Message Header
preceding primary segment. For example, ZBR,	EVN	Event Type
ZP2 and ZRD are extensions of the primary	PID	Patient Identification
segment PID.	ZRB	IHS Base registration
	ZP2	IHS Patient Information
[] indicates an optional segment that may be	ZRD	IHS Demographic State
repeated. For example, the {[ZPL]} segment.	{[ZRL]}	IHS Alias
{} indicates a segment may be repeated. For	{ZRC}	IHS Chart
evample the /IN1} segment	{IN1}	Insurance
skumple, the [htt] seBinenti	ZIN	IHS Insurance Eligibility

To view an example of an A31 message, see "Appendix E - Message Samples."

R01 – ADT Update Patient Based Clinical Data Information Message Definition

These are the inbound supported message segments in the order defined for a R01 trigger event, which contains information related to a patient based clinical data.



To view an example of a R01 message, see "Appendix E - Message Samples."

NOTE: Any registration-specific information in a R01 event-triggered message is for cross-reference purposes only and is not used to update registration data in the NDW.

HL7 Data Export File Requirements

The **initial** HL7 data export file includes all encounters, from 10/01/2000 forward (if available), and all registrations associated with these encounters.

If a Site is new in sending data to the NDW, send data from 10/01/2000 forward, if available. If a Site has submitted to the NDW in the past but is now changing

systems, send only those encounter and registrations not previously sent in using the Site's old system.

NPIRS can accept the initial encounters in a single file, or broken into separate files by year or other methods.

For subsequent **incremental** data exports, include all new and/or modified encounters and registrations where the begin date is the day following the previous export end date (export end date + 1) and the end date is the creation date of the next data export file.

If a Site has submitted to the NDW in the past but is now changing systems, send *new* data not previously sent in by the Site's old system.

NDW Required HL7 Components

The following table lists the required HL7 components and their associated trigger event. The **Notes** column is used to indicate if the element is "required" (critical to processing and loading the data into the NDW database successfully, or subsequently producing the standard User Population and Workload verification reports).

Trigger	r Event	Element Neme	Notos	
A31	A08	Element Name	Notes	
	Х	ADA Code (1)	Required for Dental encounter	
	Х	Admission Service	Required for Direct Inpatient	
	Х	Authorizing Facility	Required for Contract Health Services	
Х	Х	Beneficiary Classification Code	Required for Registration	
Х		Blood Quantum Code		
Х	Х	Chart Facility Code		
Х	Х	Chart Number		
Trigger Event			Notes	
A31	A08		Notes	
	Х	Clinic Code	Direct Outpatient, Direct Dental	
Х	Х	Community of Residence Code	Required for Registration	
Х	Х	Date of Birth	Required for Registration and Dental encounter	
Х	Х	Date of Last Update		
	Х	Diagnosis Code (1)	Primary	

	Х	Discharge Date	Required for Inpatient
Х		First Name	
Х	Х	Sex	Required for Registration
Х		Last Name	
	Х	Location of Encounter	
	Х	Provider Discipline Code (1)	Direct Outpatient, Direct Dental
	Х	Service / Admission Date	
	Х	Service Category Code	
	Х	Service Type Code	
Х	Х	Social Security Number and Pseudo SSN Flag	Composite field
Х	Х	Tribe Code	Required for Registration
	Х	Unique Encounter Code	
Х	Х	Unique Registration Code	
	Х	Vendor Type Code	Required for Contract Health Services

For a complete alphabetical listing of the data elements, with corresponding descriptions and HL7 Segment IDs, see Appendix D - Data ElementsAppendix D - Data Elements.

NDW Required GPRA/GPRAMA Components

In addition to the required HL7 components, there are required GPRA/GPRAMA components. The following table lists the required GPRA/GPRAMA HL7 components and their associated trigger event.

Tr	igger E	vent	
A31	A08	R01	Element Name
	Х		ADA Units
		Х	Added Date

Tr	igger E	vent	
A31	A08	R01	
	Х		Clinical Measure Code
	Х		Clinical Measure Result Value

	Х	Deleted Date
Х		Dental Delivery Code
Х		DM Nutrition Education Flag
Х		Education Code
Х		Length of Education
Х		Education Understanding
Х		IHS Exam Code
Х		HCPCS / CPT Code
Х		HCPCS Modifier
Х		Immunization Formulation Code
Х		Health Factor Category
Х		Health Factor Category Code
Х		Health Factor Code
Х		Health Factor Name
Х		ICD Procedure Code
Х		Infant Feeding Choice Code
Х		Immunization Dose Number Code
Х		Lab Result (character)
Х		Lab Test Name
Х		LOINC Code
Х		Medication NDC Code
Х		Medication Name
Х		Medication Quantity
	Х	Noted Date (character format)
	Х	Onset Date (character format)
	Х	Problem Status Code
	Х	Procedure Date (character format)
	Х	Provider Narrative
Х		Range Lower Limit
Х		Range Upper Limit
	Х	Refusal Date (character format)
	Х	Refusal Item
	Х	Refusal Reason Code
	Х	Refusal Type

NDW HL7 Standard Format Data Transmission Guide

Х		Skin Test Code
Х		Skin Test Reading
Х		Skin Test Result Code
Х		VA Drug Class Code
	Х	Women's Health Procedure Type
	Х	Result

File Name Convention

The following file naming convention is used to identify non-RPMS HL7 data files:

$XXXXZZZZZYYYYMMDDhhmmss. {\bf BDW}$

where

X = 4-character site name acronym (Non-RPMS sites only, assigned by NPIRS)

Z = 6-character ASUFAC

YYYY = 4-character year of file creation

MM = 2-character month of file creation

DD = 2-character day of file creation hh

= 2 character hour of file creation *mm*

= 2-character minutes of file creation *ss*

- = 2 character seconds of file creation BDW
- = extension for all HL7 data export files

Example: ABCD18221120061205154008.BDW

The following file naming convention is used to identify RPMS HL7 data files:

ZZZZZLYYMMDDhhmmss.BDW

where

Z = 6-character ASUFAC

L = 1-char millennium of file creation (2000 forward = 3)

YY = 2-character year of file creation

MM = 2-character month of file creation

DD = 2-character day of file creation *hh*

= 2 character hour of file creation *mm*

- = 2-character minutes of file creation *ss*
- = 2 character seconds of file creation BDW
- = extension for all HL7 data export files

Example: 1822113061205154008.BDW

The site name and ASUFAC quickly identifies the exporting site. The date/time enables the NDW to identify a unique file, if more than one file is exported from the same site on the same day.

Data Transmission

Currently, the preferred method for data transmission to the NDW is to send batch messages via FTP (File Transfer Protocol), where data is transmitted computer-to-computer using a target IP address. This method is only available to those Sites (or via the Area) that are a secure part of the IHS network. (A site should contact their network support person to determine their current network connectivity.)

An NDW support person will assist each sending facility in the various data transfer methods available. For more information on data transmissions to the NDW, refer to the 'Export Transmission' section of the IHS website at:

http://www.ihs.gov/NDW/index.cfm?module=dsp_dqw_mq2.

You may also email the OIT Helpdesk for guidance at <u>itsupport@ihs.gov</u> with 'NDW FTP Data Transmissions' in the subject line of the message.

Appendix A – Data Types

This appendix lists the general attributes of the data types used by the NDW. This list is limited to attributes which have already been referenced in this guide.

Data Type Category/ Data type	Data Type Name	Format	Notes/Format
AD	Address	Demographics	<street (st)="" address=""> ^ < other designation (ST)> ^ <city (ST)> ^ <state (st)="" or="" province=""> ^ <zip (st)="" code="" or="" postal=""> ^ <country (id)=""> ^ <address (id)="" type=""> ^ <other geographic<br="">designation (ST)></other></address></country></zip></state></city </street>
BL	Boolean	Alphanumeric	Used where there are only two values, usually Boolean/Flag values "Y" (yes) or "N" (no). May also use other values, such as "A" (active) or "I" (inactive). The data element description will specify its valid Boolean values.
CE	Coded element	Code Values	<identifier (st)=""> ^ <text (st)=""> ^ <name coding="" of="" system<br="">(ST)> ^ <alternate (st)="" identifier=""> ^ <alternate (st)="" text=""> ^ <name (st)="" alternate="" coding="" of="" system=""></name></alternate></alternate></name></text></identifier>
СМ	Composite	Generic	Variable number and nature of other components as defined for the element. (No new CMs are allowed after HL7 Version 2.2. Hence there are no new CMs in Version 2.3.)
СР	Composite price	Specialty / Chapter Specific	In Version 2.3, replaces the MO data type. <price (mo)=""> ^ <price (id)="" type=""> ^ <from (nm)="" value=""> ^ <to value (NM)> ^ <range (ce)="" units=""> ^ <range (id)="" type=""></range></range></to </from></price></price>
CX	Extended composite ID with check digit	Code Values	This data type is used for certain fields that commonly contain check digits (e.g. internal agency identifier indicating a specific person, such as a patient or client). DW1 does not support check digit functionality; therefore, only the 1st component is supported. Components: <id (st)=""> ^ <check (st)="" digit=""> ^ <code (id)="" check="" digit="" employed="" identifying="" scheme="" the=""> ^ < assigning authority (HD))> ^ <identifier (is)="" code="" type=""> ^ < assigning facility (HD)</identifier></code></check></id>
DLN	Driver's license number	Master Files	license number (ST)> ^ <issuing country<br="" province,="" state,="">(IS)> ^ <expiration (dt)<="" date="" li=""></expiration></issuing>
DT	Date	Date/Time	CCYYMMDD

same as the IS data type. If the first component for the data type is present, the second and third components optional. If the third component is present, then the second must also be present (in this case the first is optional). Components: <namespace (is)="" id=""> ^ <universal (s<sup="" id="">- <universal (id)="" id="" type=""> Used only as part of EI and other data types.</universal></universal></namespace>	HD	Hierarchic designator	Identifier	Designed to be a more powerful application identifier. A s component HD (using only the first component value) is the same as the IS data type. If the first component for the HI data type is present, the second and third components are optional. If the third component is present, then the second must also be present (in this case the first is optional). Components: <namespace (is)="" id=""> ^ <universal (id)="" (st):="" <universal="" id="" type=""> Used only as part of EI and other data types.</universal></namespace>
---	----	--------------------------	------------	--

Data Type Category/ Data type	Data Type Name	Format	Notes/Format
ID	Coded values for HL7 tables	Identifier	
IS	Coded value for user-defined tables	Identifier	
NM	Numeric	Numerical	
PL	Person location	Identifier	<pre><point (is="")="" care="" of=""> ^ <room (is="")=""> ^ <bed (is)=""> ^ <facility (hd)=""> ^ < location status (IS)> ^ <person (is)="" location="" type=""> ^ <building (is="")=""> ^ <floor (is="")=""> ^ <location (st)="" description=""></location></floor></building></person></facility></bed></room></point></pre>
PT	Processing type	Identifier	<processing (id)="" id=""> ^ <processing (id)="" mode=""></processing></processing>
SI	Sequence ID	Numerical	
ST	String	Alphanumeric	
ТМ	Time	Date/Time	ННММ
тѕ	Time stamp	Date/Time	ССҮҮММДДННММ
VID	Version ID		
XAD	Extended address	Demographics	In Version 2.3, replaces the AD data type. <street (st)="" address=""> ^ <other (st)="" designation=""> ^ <city (ST)> ^ <state (st)="" or="" province=""> ^ <zip (st)="" code="" or="" postal=""> ^ <country (id)=""> ^ < address type (ID)> ^ <other geographic<br="">designation (ST)> ^ <county (is)="" code="" parish=""> ^ <census tract<br="">(IS)></census></county></other></country></zip></state></city </other></street>

Extended	Code Values	In Version 2.3, use instead of the CN data type.
composite ID		<id (st)="" number=""> ^ <family (st)="" name=""> ^ <given (st)="" name=""></given></family></id>
number and name		<pre>^ <middle (st)="" initial="" name="" or=""> ^ <suffix (e.g.,="" (st)="" iii)="" jr="" or=""></suffix></middle></pre>
		^ <prefix (e.g.,="" (st)="" dr)=""> ^ <degree (e.g.,="" (st)="" md)=""> ^</degree></prefix>
		<pre><source (is)="" table=""/> ^ <assigning (hd)="" authority=""> ^ <name pre="" type<=""></name></assigning></pre>
		code (ID)> ^ <identifier (st)="" check="" digit=""> ^ <code identifying<="" td=""></code></identifier>
		(IS)> ^ <assigning (hd)="" facility=""></assigning>
Extended	Demographics	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
composite name		(IS)> ^ <id (nm)="" number=""> ^ <check (nm)="" digit=""> ^ <code< td=""></code<></check></id>
and ID number for		identifying the check digit scheme employed (ID)> ^
organizations		<assigning (hd)="" authority=""> ^ <identifier (is)="" code="" type=""> ^</identifier></assigning>
		<assigning (hd)="" facility="" id=""></assigning>
Extended person	Demographics	In Version 2.3, replaces the PN data type.
name		<family (st)="" name=""> ^ <given (st)="" name=""> ^ <middle initial="" or<br="">name (ST)> ^ <suffix (e.g.,="" (st)="" iii)="" jr="" or=""> ^ <prefix (e.g.,="" dr)<br="">(ST)> ^ <degree (e.g.,="" (st)="" md)=""> ^ <name (id)="" code="" type=""></name></degree></prefix></suffix></middle></given></family>
	Extended composite ID number and name Extended composite name and ID number for organizations Extended person name	Extended composite ID number and nameCode ValuesExtended composite name and ID number for organizationsDemographicsExtended person nameDemographics

Data Type Category/ Data type	Data Type Name	Format	Notes/Format
XTN	Extended telecommunications number	Demographics	In Version 2.3, replaces the TN data type. [NNN] [(999)]999-9999 [X99999] [B99999] [C any text] ^ <telecommunication (id)="" code="" use=""> ^ <telecommunication equipment type (ID)>^ <email (st)="" address=""> ^ <country code (NM)> ^ <area (nm)="" city="" code=""/> ^ <phone (nm)="" number=""> ^ <extension (nm)=""> ^ <any (st)="" text=""></any></extension></phone></country </email></telecommunication </telecommunication>

Appendix B – ADT Segments

This appendix contains a complete listing of the A08, A31 and R08 ADT (Admission, Discharge, and Transfer) segments specified by the IHS (based on HL7 Standard 2.4).

For ease of use, the segments are listed in alphabetical order. However, please note that the actual messages must be transmitted in a very specific order or they will not be processed correctly. For precise segment order for a specific message type, see the "Message Specification" section on page 7.

Each segment specification is presented in a grid, as describe in the "Segment Attribute Specifications" section on page 8.

The components of each segment are listed by **Sequence** and **Comp**onent position, **Len**gth and **D**ata Type, number of **Rep**etitions supported, **Element Name**, NDW-**Sup**ported checkbox, and **Description**.

Note that the **Comp**onent column number indicates whether there are multiple components. If there are, the export must include the component separator (" $^{"}$ " character) to separate them.

To download the most recent version of the **ADT Segments – Appendix B (Version 7.0)** report:

1. <u>CLICK HERE</u>	R	a. Go to the IHS National Data Warehouse website:
----------------------	---	--

http://www.ihs.gov/NDW/

b. In the left panel, click the heading "Submitting Data"

c. In the right panel, locate and click the link, IHS's NPIRS/NDW Data Transmission Guide Using HL7 Standards Format.

2. Click the link, ADT Segments – Appendix B.

Appendix C – Reference Tables

Within the segment grid, a field may have a description indicating that the data is to be provided from a "LOOKUP" table. Some of the lookup values will be provided for implementation with your facility's system. Other code sets are nationally accepted code sets. In the following description of National Lookup Tables, suggestions to review and obtain this information are provided.

In cases where IHS or NPIRS does not maintain or control the lookups or code sets, or tables are not available on the web site or in this guide, email the OIT Helpdesk for guidance at <u>itsupport@ihs.gov</u>.

National Lookup Tables

National Lookup tables are those code sets that are generally accepted in the medical information community. As such, there are entities that have been deemed to have the authority over creating and updating the code sets. Some links are provided as possible sources for the code sets.

NOTE:

Links to non-IHS organizations in this document are provided solely as a service and do not constitute an endorsement of these organizations or their programs by IHS or the Federal Government and none should be inferred. The IHS is not responsible for the content of the individual organization's web pages.

NDW will use these code sets as updated by the appropriate authorities. The following code sets fall into this category:

ADA/CDT Codes

The American Dental Association (ADA) is the source for ADA diagnosis/procedure codes, also known as CDT codes. HIPAA requires use of the current version of CDT-4 for electronic transmission dental information. For more information, go to <u>http://www.ada.org</u>. **HCPCS/CPT Codes**

nupus/upi uodes

Healthcare Common Procedure Coding System (HCPCS) is a medical code set created in 1983 by the Center for Medicare and Medicaid Services (CMS), and is used to identify health care procedures, equipment, and supplies. It was primarily designed for claims submission. There are three levels:

Level I contains AMA-maintained Common Procedure Terminology (CPT) codes.

Level II contains items and services not included in the CPT medical code set, and is maintained by the Centers for Medicaid and Medicare Services (CMS), Blue Cross Blue Shield Association (BCBSA), and America's Health Insurance Plans (AHIP) [(Formerly Health Insurance Association of America (HIAA)]. Level III contains codes assigned by Medicaid agencies for additional items not included in Level I or Level II.

NOTE:

Level III Local codes have been eliminated as of 12-31-2003, replaced by S or C code sections of HCPCS Level II.

Your facility may already be set up to update HCPCS and CPT codes. If needed, the following websites can be used as a starting point or a source of clarification on these code sets:

- For HCPCS codes, go to <u>http://www.cms.hhs.gov/hcpcsreleasecodesets/anhcpcs/list.asp</u>
- For CPT codes, go to <u>http://www.ama-assn.org/ama/pub/physicianresources/solutions-managing-your-practice/coding-billing-insurance/cpt.page</u>.

ICD Codes

The International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10CM) is a code set used to code and classify morbidity data from inpatient and outpatient records and physician offices. The National Center for Health Statistics maintains the ICD code system along with coordination from the Centers for Medicare and Medicaid Services.

The US adopted the WHO (World Health Organization) ICD9 code system in 1979. On the compliance date of October 1, 2015, everyone covered by the Health Insurance Portability and Accountability Act (HIPAA) will begin using the International Classification of Diseases, 10th revision, Clinical Modification (ICD-10-CM). These codes will replace the ICD-9-CM code set and must be used in all HIPAA electronic transactions. The compliance date is determined by the date of service/discharge date for an encounter, not the date it is submitted to the NDW. Date of service is used for outpatient and dental encounters; discharge date is used for inpatient encounters. Compliance date for cause of death on the registration record is determined by the date of death.

The Department of Health and Human Services (HHS) regulation requires the replacement of the ICD-9 code sets with ICD-10 on all encounters and discharges on or after the compliance date and it does not allow for use of the ICD-10 codes prior to the compliance date. The HHS regulation also does not allow for a single claim to contain both ICD-9 and ICD-10 codes. Additionally, it requires claims that span the compliance date to be split so all ICD-9 codes remain on one claim with Dates of Service (DOS) through 9/30/2015 and all ICD-10 codes placed on the other claim with DOS beginning 10/1/2015 and later.

The NDW will accept both the ICD9 and ICD10 code sets in order to continue to correctly process older transactions. It is requested that the ICD Revision component be sent with each

ICD code in order for the system to more accurately identify whether a code is ICD9 or ICD10.

Many online sources of information exist, including the CDC web site at <u>http://www.cdc.gov/nchs/icd.htm</u>.

The following table is a summary of the modifications that have been made in Appendix B (ADT Segments) so that NPIRS may accept both ICD-10 and ICD-9 data, allowing the NDW to accept encounter and registration data pertaining to encounters both before and after the compliance date.

- Increase the length of the applicable fields to 8 (see table below).
- Make the existing ICD fields 'combo' fields where the 3rd section will be an identifier of which code set the code is applicable to. If an ICD-9, use a value of "I9", if ICD-10, use a value of "I10".

HL7 Segment	Sequence	Component	Element Name	Previous Length	New Length	Code 9 or 10 identifier	Example of value
DG1 - Diagnosis Segment	3	1	Diagnosis Code	6	8	DG1-3-3	CODE ^{AAI9} or CODE ^{AAI10}
PR1 - Procedure Segment	3	1	Procedure Code	5	7	PR1-3-3	CODE ^{AAI9} or CODE ^{AAI10}
ZDX - IHS Diagnosis	6	1	Cause of Injury	6	8	ZDX-6-3	CODE ^{MI9} or
Segment							CODEMIL
HL7 Segment	Sequence	Component	Element Name	Previous Length	New Length	Code 9 or 10 identifier	Example of value
HL7 Segment ZRB - IHS Base Registration Segment	Sequence	Component	Element Name Cause of Death	Previous Length	New Length 8	Code 9 or 10 identifier ZRB-5-3	Example of value CODE^19 or CODE^110

LOINC

Logical Observation Identifiers Names and Codes (LOINC®) are universal identifiers for laboratory and other clinical observations. For more information, go to

<u>http://www.loinc.org/</u>. Note that there is a link to download the current version of the LOINC in a variety of formats.

The database and supporting documentation is maintained by the Regenstrief Institute (<u>http://www.regenstrief.org</u>).

NDW supports the use of LOINC for capturing lab observations, but realizes that not all facilities have introduced LOINC into their systems. If LOINC are being used in your facility, you are encouraged to send all lab observations using those codes. IHS uses this data at a national level, especially for Government Performance and Results Act (GPRA) reporting. Submissions for additional lab observations may start at any time.

X12 Provider Taxonomy Codes

X12 is an ANSI-accredited group that defines electronic data interchange standards. For the NDW, the Provider taxonomy codes are the only X12 code sets used. There are three levels:

- ANSI ASC X12 Health Care Provider Taxonomy, Level 1 Type
- ANSI ASC X12 Health Care Provider Taxonomy, Level 2 Classification
- ANSI ASC X12 Health Care Provider Taxonomy, Level 3 Specialization

IHS-Specific Lookup Tables

The Standard Code Book (SCB) tables contain approved code sets from the Indian Health Service (IHS) Standard Code Book. For access to the online IHS SCB tables, go to <u>http://www.ihs.gov/scb/.</u>

Standard code sets (SCS) approved by the Division of Information Resources (DIR) that are used are also listed at this website under DIR SCS tables.

IHS-specific code sets will be provided to facilities. If the facility is not currently using these code sets for data entry, it will be the facility's responsibility to translate the relevant data into a code to be submitted to the NDW.

Additionally, the IHS Standard Code Book web site includes links to industry standard code sets, including HL7 Immunization CVX and MVX codes, VA Drug Class codes, and X23 Provider Class, Specialty, and Type codes. To access these codes, go to <u>http://www.ihs.gov/scb/</u>, and click the **Industry SCS Access Tables** menu option on the left pane.

Appendix D - Data Elements

This appendix contains an alphabetical listing of the elements that the IHS would like to have transmitted from the facilities to the NDW. Each data element listed includes a description and its corresponding ADT segment location.

Cross-referencing the HL7 element of a data element listed in this appendix with the ADT segment grids (Appendix B) will provide more detailed information about that element.

To download the most recent version of the **Data Elements – Appendix D** (Version 4.0) report:

1. <u>CLICK HERE</u> OR a. (

a. Go to the IHS National Data Warehouse website:

http://www.ihs.gov/NDW/

b. In the left panel, click the heading "**Submitting Data**"

c. In the right panel, locate and click the link, IHS's NPIRS/NDW Data Transmission Guide Using HL7 Standards Format.

2. Click the link, **Data Elements – Appendix D**.

Appendix E - Message Samples

This appendix contains sample A08, A31 and R01 messages, including header (BHS, ZHS) and trailer (ZTS, BTS) segments. The information contained in these sample messages is fictitious and was created for illustration purposes only.

For purposes of transmitting data to the NDW, facilities will use the A08, A31 and R01 events to trigger queuing of the information needed to generate messages. Then, on an agreed-upon schedule, an additional event will retrieve the data from the facility's system, generate a batch of messages, including a batch header and trailer, and transmit that set of messages in a file.

NOTE:

To ensure that the NDW does not receive any visits for unknown patients, A31 event-triggered messages compiled for a particular patient should precede any A08-event-triggered messages for the same patient.

A08 Patient Information Message Sample

The following example shows sample information for a single encounter message (A08 trigger event).

```
BHS|^~\&|RPMS|9999999|DW1|IHS|20040227085810-0700||1|TEST HOSP|9999991
ZHS|20040227|20040227|1
MSH|^~\&|RPMS|CIMARRON|DW1|IHS|20040205081549-0700||ADT^A08|IHS-
4|P|2.4||AL|ER|
EVN|A08|20040205081549-0700|
PID|||123456987456321^987456321|999999950901|SIMPSON^HOMER^J.||19040913|M|
||BOX 222^^ANYTOWN^NM^87100|||||||9999999999
SON^MARGE
||||20151101|
58|5|I|A|
ZEN|Y|N|N|Y|19940411|||N|Y|30|N||N||N|153|N||N||N||N||55
ZVP|1|2^18|PDS|
ZVP|2|1^01|EAS|
DG1|1||S09.90XA^^I10|
ZDX||||2||Y04.0XXA^^I10|K
DG1|2||S09.93XA^^I10|
ZDX||||2||Y00.XXXA^^I10|K
PR1|1||0T9B70Z^^I10||20151101|
PR1|2||BR00ZZZ^^I10||20151101|
PR1|3||8C01X6J^^I10||20151101|
ZPR||||||90780|
PR1|4||BN01ZZZ^^I10||20151101|
ZPR||||||90784|
PR1|5||3E00X05^^I10||20151101|
ZPR||||||53670|
ZPN|1|
OBX|1|MSR|04||154/101|
OBX | 2 | CPT | 90780 |
OBX | 3 | CPT | 90784 |
OBX | 4 | CPT | 53670 |
OBX | 5 | CPT | J2550 | | 1 |
OBX | 6 | CPT | A4215 | | 1 |
OBX | 7 | CPT | A9900 | | 1 |
OBX | 8 | CPT | 72050 |
OBX | 9 | LAB | 2345-7^GLUCOSE | | 153 | mg/dL | 70^105 |
ZTS||||78636
BTS|78634|TEST HOSP|1
```

A31 Person Information Message Sample

The following example shows sample information for a batch of registration messages (A31 trigger event).

```
BHS|^~\&|RPMS|999999|DW1|IHS|20040227085810-0700||1|TEST HOSP|9999991
ZHS|20040227|20040227|1
MSH|^~\&|RPMS|CIMARRON|DW1|IHS|20040227090237-0700||ADT^A31|IHS-2|P|2.4|||AL|ER|
EVN | A31 | 20040227090237-0700 |
PID|||1695200000002^2|999999203|FLINTSTONE^WILMA^M.||19040526|F|||BOX
111^^ANYTOWN^NM^87100|||||||123121234|
ZRBIIIAI
ZRD|||A||FLINTSTONE,WILMA M.|
ZRC|||A||1|9999999203|I
ZRC|||A||2|999912|203|
ZRC|||A||3|999921|203|
|4C||121212345 ZIN|||A||2| |
||A||123412001^D ZIN|||A||2|
||B||123412001^D ZIN|||A||2|
MSH|^~\&|RPMS|CIMARRON|DW1|IHS|20040227090237-0700||ADT^A31|IHS-3|P|2.4|||AL|ER|
EVN | A31 | 20040227090237-0700 |
PID|||16952000000001^1|999999140|SIMPSON^MAGGIE^M||19020322|F|||P.O.BOX
#1234^^ANYTOWN^NM^87100|||||||483720190||||||||||19960309|
ZRB | | A |
ZP2|19830622||||||||||V|||084||1|01|19880209||0401012||||||||SIMPSON^HOMER^|||C|SIM
PSON^MARGE
ZRD|||A||SIMPSON, MAGGIE M|
ZRL|||A||1|MOUSE^MINNIE
ZRL|||A||2|MOUSE^MINNEE ZRL|||A||3|MOUSE^MINN
ZRC|||A||1|999999|140|I ZRC|||A||2|808131|140|
| 987654321
ZIN|||A||1|
|A||980000019^D ZIN|||A||1|
|B||980000019^D ZIN|||A||1|
MSH|^~\&|RPMS|CIMARRON|DW1|IHS|20040227100411-0700||ADT^A31|IHS-78635|P|2.4|||AL|ER|
EVN|A31|20040227100411-0700||
PID | | 169520000079541^79541 | 999999999021 | WONKA^WILLIE^ | 19880514 | M | | PO
456^^SOMEPLACE^NM^87110||||||555553214|
ZRB | | A | |
ZRD | | A | WONKA, WILLIE | |
ZRC|||A||79541|9999999|999021|
ZTS||||78636
BTS|78634|TEST HOSP|1
```

NDW HL7 Standard Format Data Transmission Guide

R01 Person Based Clinical Data Information Message Sample

The following example shows sample information for an encounter messages (R01 trigger event).

```
MSH|^~\&|RPMS|CIMARRON|DW1|CIMARRON|20150416100359-0900||ORU^R01|IHS-
9675981|P|2.4|||AL|ER|
EVN|R01|20150416100359-0900||
PID|||999999000000001^8^|9999999999|John^Smith^N||19001201|M|||PO BOX
ZPL|1|494.^BRONCHIECTASIS^I9|19500101|19500102|2|999999|*BRONCHIECTASIS
RUL|A^CHRONIC|||999999000000001
ZPL|2|V15.2^HX-MAJOR ORGAN SURG NEC^19|19680101|19680101|1|390000|*PULMONARY RESECTION
RUL|A^CHRONIC||999999000000001
ZPL|3|494.^BRONCHIECTASIS^I9|19631215|19630102|2|390000|*BRONCHIECTASIS|A^CHRONIC||99
9999000000001
ZRF|1|IMMUNIZATION|INFLUENZA [TIV], SEASONAL, INJ|20110127|R^DECLINED
SERVICE | | 999999000000001
ZRF|2|IMMUNIZATION|Influenza, seasonal, injectable, preservative free, trivalent
|20110101|R^DECLINED SERVICE|20110101|999999000000001
OBX|1|WH|PAP SMEAR||Benign Cell Chgs: Infection|||||||19980301|99999900000001||||
OBX|2|WH|MAMMOGRAM SCREENING||Negative||||||||20000102|99999900000001||||
```

Appendix F – Glossary

This glossary consists of terms found in this document, but it is not a legal document. The limited purpose of this glossary is to provide definitions of some of the terms and acronyms used throughout this guide. The definitions are not intended to be detailed.

For convenience, links are provided for either the organization mentioned or the source of the glossary definition. Links are valid at the time of this writing, but IHS/NDW cannot guarantee their continued viability. Many of the links have a glossary as well, if research is your goal. Links to non-IHS organizations in this document are provided solely as a service. These links do not constitute an endorsement of these organizations or their programs by IHS or the Federal Government, and none should be presumed. The IHS is not responsible for the content of the individual organization web pages found at these links.

Term	Description
A08	Update patient information trigger event, primarily used for patient visit/encounter information.
A31	Update person information trigger event, primarily used for patient identification/registration information.
ACK	This is an inbound message as defined by the HL7 Standard used to acknowledge messages. There is an ACK specification for each message type, such as A08 and A31.
ADT	Admission, Discharge and Transmission. This is an outbound message as defined by the HL7 Standard. There are various types of messages, such as A08 and A31.
АНІР	America's Health Insurance Plans [formerly, HIAA] describes itself as "a national trade association that shapes and influences state and federal public policy through advocacy, research, and the timely accumulation, analysis, and dissemination of critical information to its members. <u>http://www.ahip.org/</u>
ANSI	American National Standards Institute, an association that administers and coordinates the U.S. voluntary standardization and conformity assessment system. http://www.ansi.org/
BCBSA	Blue Cross Blue Shield Association, an association of independent Blue Cross Blue Shield companies. http://www.bcbs.com/
CDC	Centers for Disease Control and Prevention, an agency of the Department of Health & Human Services. <u>http://www.cdc.gov/</u>

	Centers for Medicare & Medicaid Services, formerly known as HCFA. CMS is an
	agency of the Department of Health & Human Services. The restructuring from HCFA
CMS	to CMS was effective July 1, 2001. http://cms.hhs.gov/

Description
Vaccines administered (parenteral, unless otherwise specified), the HL7 Standard Code Set as maintained by the CDC's National Immunization Program (NIP). http://www2a.cdc.gov/nip/IIS/IISStandards/vaccines.asp?rpt=cvx.
File Transfer Protocol.
Health Care Financing Administration. HCFA was restructured to become CMS. http://www.cms.gov/HealthCareFinancingReview/
Department of Health & Human Services, the United States government's principal agency for providing essential human services. <u>http://www.hhs.gov/</u>
Health Insurance Association of America (HIAA). Currently, AHIP.
Health Insurance Portability and Accountability Act of 1996. http://www.hhs.gov/ocr/privacy/. See also, <u>http://www.ihs.gov/hipaa/</u>
Health Level Seven is both the name of the standards developing organization and the collection of protocols that organization has developed and published. http://www.hl7.org
Commonly refers to either Integration Engine or Interface Engine, which are the two broad categories of middleware software used to perform integration functions so that individual sending applications do not need to incorporate integration/interface functions to accommodate sending data to the IHS DW. An Integration Engine is a software system designed to simplify the integration of application data and services. The purpose is to store the defined messages, normalize the data, and publish the data in the normalized format. An Interface Engine is a software system designed to simplify the creation of application interfaces between application systems. The purpose is to store and forward messages.
International Organization for Standardization, the world's largest developer of
standards, principally the development of technical standards. The HL7 standard also follows the ISO's OSI model protocols governing communication between two systems, http://www.iso.org/iso/home.html

Г

MVX	Manufacturers of vaccines, the HL7 Standard Code Set as maintained by the CDC's National Immunization Program (NIP). http://www2a.cdc.gov/vaccines/IIS/IISStandards/vaccines.asp?rpt=mvx
NIP	National Immunization Program, a part of the Centers for Disease Control and Prevention, located in Atlanta, Georgia. NIP provides leadership for the planning, coordination, and conduct of immunization activities nationwide.
OCR	Office of Civil Rights. OCR is an office within HHS that, among other duties, is responsible for implementation of the HIPAA Privacy Rule. <u>http://www.hhs.gov/ocr/</u>
Term	Description
Privacy Rule	The "Summary of the HIPAA Privacy Rule," a part of HIPAA dealing with national standards for the protection of certain health information. (http://www.hhs.gov/ocr/privacy/hipaa/understanding/summary/privacysummary.pdf)
R01	Update historical patient clinical data Information, used for patient historical encounter information.
TCP/IP	Transmission Control Protocol / Internet Protocol, a stream-oriented data transmission using length-encoding as the method for bounding messages.
TCP/IP Using MLP	Transmission Control Protocol / Internet Protocol using Minimal Layer Protocol, the most common method used to transmit HL7 messages.
X12	"An ANSI-accredited group that defines EDI standards for many American industries, including health care insurance. Most of the electronic transaction standards mandated or proposed under HIPAA are X12 standards." Source: <u>http://www.cms.gov/apps/glossary/default.asp?Letter=P&Language=English</u> . See also, <u>http://www.x12.org/</u>
X12 Standard	"The term currently used for any X12 standards that have been approved since the most recent release of X12 American National Standards. Since a full set of X12 American National Standards is only released about once every five years, it is the X12 standards that are most likely to be in active use. These standards were previously called Draft Standards for Trial Use." Source: <u>http://www.cms.gov/apps/glossary/default.asp?Letter=P&Language=English</u>