# D. Glossary

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**Abstract Message** The basic level of definition within HL7 is that of the abstract message

associated with a particular trigger event. The abstract message definition includes the data fields that will be sent within a message, the valid response messages, and the treatment of application level errors or the failure of the underlying communications system. An HL7 abstract message is defined in

terms of HL7 segments and fields, as described in Section 2.4.8.

**Abstract Syntax Notation One** 

(ASN.1)

ASN.1 is a data definition language that allows formal definitions of information structures to be expressed in a manner that is independent of any implementation constraints. It may be used to create complex hierarchical structures from basic primitive types.

General Acknowledgment message. The ACK message is used to respond to ACK

> a message where there has been an error that precludes application processing or where the application does not define a special message type for the

response.

**Acknowledgment - Accept** 

Level

The receiving system commits the message to safe storage in a manner that releases the sending system from any obligation to resend the message. A response is returned to the initiator indicating successful receipt and secure storage of the information.

**Acknowledgment - Application** 

Level

The appropriate application on the receiving system receives the transaction and processes it successfully. The receiving system returns an application-

dependent response to the initiator.

ACR/NEMA American College of Radiology and the National Electrical Manufacturers

Association. The American College of Radiology formed a relationship with the National Electronic Manufacturers' Association in 1982 to develop a standard for Digital Imaging and Communications in Medicine (DICOM).

The purpose of the standard was to promote a generic digital image

communication format; facilitate the development and expansion of picturing archiving and communication systems (PACS); allow the creation of diagnostic information databases for remote access; and help assure the

usability of new equipment with existing systems. The current standard (Version 3.0) defines image data as well as patient, study and visit information necessary to provide the context for the images. Approval of this document as an American National Standard may be pursued in the future by NEMA, which is accredited by ANSI.

AD

Address data type. The street or mailing address of a person or institution.

Addendum Document

An appendage to an existing document that contains supplemental information. The parent document remains in place and its content is unaltered.

Admission, Discharge and Transfer (ADT) Transaction Set Provides for transmitting new or updated demographic and visit information about patients. Generally information will be entered into an ADT system and passed to the nursing, ancillary and financial systems either in the form of an unsolicited update or in response to a record-oriented query.

**ADR** 

ADT response message.

**ADT** 

Admission, Discharge and Transfer (ADT) message.

**Adverse Drug Reaction** 

Pre-marketing: All noxious and unintended responses to a medicinal product related to any dose.

Post-marketing/WHO: A response to a drug which is noxious and unintended, and which occurs at doses normally used in man for prophylaxis, diagnosis, or therapy of disease or for the modification of physiologic function

WHO: Any untoward medical occurrence that may present during treatment with a pharmaceutical product but which does not necessarily have a causal relationship with this product.

Post-marketing/US: Any undesirable effect reasonably associated with the use of the drug that may occur as part of the pharmacological action of the drug or may be unpredictable.

Post-marketing/European Union: A reaction which is harmful and unintended and which occurs at doses normally used in man for the prophylaxis, diagnosis, or treatment of disease or the modification of physiological function

Adverse Event/Adverse Experience

Pre-marketing: Any untoward medical occurrence in a patient or clinical investigation subject administered a pharmaceutical product and which does not necessarily have a causal relationship with this treatment.

Post-marketing/US: Any adverse event associated with the use of a drug in humans, whether or not considered drug related, including the following: An adverse event occurring in the course of the use of a drug product in professional practice; an adverse event occurring from drug overdose; an adverse event occurring from drug withdrawal; and any failure of expected pharmacologic action.

Post-marketing/European Union: Any undesirable experience occurring to a

patient treated with a pharmaceutical product whether or not considered related to the medicinal product.

**ANSI** 

American National Standards Institute. Founded in 1918, ANSI itself does not develop standards. ANSI's roles include serving as the coordinator for U.S. voluntary standards efforts, acting as the approval body to recognize documents developed by other national organizations as American National Standards, acting as the U.S. representative in international and regional standards efforts, and serving as a clearinghouse for national and international standards development information.

ANSI HISPP

See HISPP.

**Application Layer** 

Layer 7 of the OSI Model. Responsible for information transfer between two network applications. This involves such functions as security checks, identification of the two participants, availability checks, negotiating exchange mechanisms and most importantly initiating the exchanges themselves. See OSI Model.

**Appointment** 

An appointment represents a booked slot or group of slots on a schedule, relating to one or more services or resources. Two examples might include a patient visit scheduled at a clinic, and a reservation for a piece of equipment.

**Archived Document** 

A status in which a document has been stored off-line for long-term access.

ASC X12

Accredited Standards Committee X12. ASC X12 develops standards for electronic data interchange, is administered by the Data Interchange Standards Association (DISA), and is accredited to submit its documents to ANSI for approval as American National Standards. X12 has developed a number of message standards for purchase order data, invoice data, and other commonly used business documents. The Insurance Subcommittee (X12N) has developed a group of documents related to providing medical insurance claims transmission, including enrollment/maintenance (834), disability insurance claim (837), and claim payment/advice (835). None of these documents are currently approved as American National Standards, although some are currently considered draft standards for trial use. X12 intends to pursue approval of them as American National Standards in the future.

ASC X3

Accredited Standards Committee X12. ASC X3 develops generic standards for information technology, is administered by the Computer and Business Equipment Manufacturers Association (CBEMA), and is accredited to submit its documents to ANSI for approval as American National Standards.

Assessment

A type of observations/result or observations/result set performed by a health care provider on the patient. An assessment represents a collection of data about the patient to evaluate a patient's current and ongoing condition. An assessment can be subjective or objective; initial or ongoing; clinical or non-clinical; formal or informal. Examples of assessment components include height and weight, body systems, I&O, and activities of daily living. Standards (e.g., Gordon's Functional Health Pattern) and rules are used to prepare an assessment.

**ASTM** 

American Society for Testing and Materials. ASTM was founded in 1898 and chartered in 1902 as a scientific and technical organization for the

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development of standards on characteristics and performance of materials. The charter was broadened in 1971 to include products, systems and services, as well as materials. ASTM is the largest non-government source of standards in the U.S., comprised of over 130 committees that published publishes 10,000 standards annually.

#### **ASTM Committee E31**

ASTM Committee E31 on Healthcare Informatics develops standards for health information and health information systems. E31 has 11 subcommittees in the healthcare area. In 1984, the AAMSI task force became subcommittee E31.11 and published E1238, Standard Specification for Transferring Clinical Observations Between Independent Systems, and is used by most of the referral clinical laboratories. Related data interchange standards include E1394 (Standard Specification for Transferring Information Between Clinical Instruments), and E1467 (Specification for Transferring Digital Neurophysiological Data Between Independent Computer Systems). Subcommittee E31.13 focuses on clinical laboratory result reporting standards. ASTM E31 is accredited by ANSI.

#### **Authenticated Document**

A status in which a document or entry has been signed manually or electronically by one or more individuals who attest to its accuracy. No explicit determination is made that the assigned individual has performed the authentication. While the standard allows multiple instances of authentication, it would be typical to have a single instance of authentication, usually by the assigned individual.

### **Auxiliary Application**

An auxiliary application neither exerts control over, nor requests changes to a schedule. It is only concerned with gathering information about a particular schedule. It can be considered an "interested third-party," in that it is interested in any changes to a particular schedule, but has no interest in changing it or controlling it in any way. It may gather information passively or actively. An auxiliary application passively collects information by receiving unsolicited updates from a filler application.

# B

#### **BAR**

Add/Change Billing Account message. The BAR message supports data sent from some application (usually a registration or ADT system) to the patient accounting system to establish an account for a patient's billing/accounts receivable record. Many of the segments associated with this message are optional. This optionality allows those systems needing these fields to set up transactions which fulfill their requirements yet satisfy the HL7 requirements.

#### **Batteries of Appointments**

For example, an activity consisting of an appointment with Radiology, an appointment with a specialist, and an appointment with a primary care physician might be scheduled.

#### **Battery**

The word battery is used in this specification synonymously with the word profile or panel. The individual observation elements within a battery may be characteristic of a physiologic system (e.g., liver function tests), or many different physiologic systems.

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Final Standard.

**Benefits** Are the services payable under a specific payor plan. They are also referred

to as an insurance product, such as professional services, prescription drugs,

etc.

**Block** An indication that a slot or a set of slots is unavailable for reasons other than

booking an appointment.

**Book** The act of reserving a slot or set of slots on a schedule for a service or

resource.

 $\mathbf{C}$ 

Canceled (Deleted) Document A status in which a document has been "removed" from a patient's record

with no replacement. This is done when a document has been erroneously

created or assigned to the incorrect patient.

Causal Relationship When an event occurs a product may be suspected as causing the event but

rarely can it be proven particularly at an early stage of the product's life. Certain information about the relationship between the product and the event can reinforce the belief in a causal relationship between the product and the event while others can decrease the probability that there is a causal

relationship.

Causation An exposure that truly does increase or decrease the probability of a certain

outcome.

**CD** Channel definition data type.

**CE** Coded Element data type. This data type transmits codes and the text

associated with the code. This type has six components, as follows: identifier, text, name of coding system, alternate identifier, alternate text, and name of

alternate coding system.

**CEN** The Comite Europeen de Normalisation (CEN) is the European Economic

Community's (EEC) standards development organization (analogous to ANSI in the U.S.). Technical Committee 251 (TC 251) is CEN's committee to develop standards in Medical Informatics. CEN also sponsors TC 224 (Machine-readable cards, related device interfaces and operations).

**CF** Coded Element with Formatted Values data type. This data type transmits

codes and the formatted text associated with the code.

Child Appointment A child appointment is an appointment subordinate to another appointment

(called a parent appointment). For example, a single instance of an appointment in a group of recurring appointments is a child to the group. Child appointments can themselves be parent appointments. For example, if a battery of appointments is scheduled, then the atomic units of the battery are children to the battery request. If the battery is scheduled as a repeating

 $\mathbf{C}\mathbf{K}$ 

appointment, then each instance of the battery of appointments (parent to each of the atomic units) is a child to the original repeating request.

Composite with Check Digits data type. A composite consisting of four components: an ID number, a check digit, a code showing the check digit

scheme employed, and an assigning facility ID.

**Clinical Information** Refers to the data contained in the patient record. The data may include such

things as problem lists, lab results, current medications, family history, etc. For the purposes of this chapter, clinical information is limited to diagnoses

(DG1), results reported (OBX/OBR), and allergies (AL1).

Clinical Pathway A clinical pathway is a standardized plan of care against which progress

towards health is measured. A clinical pathway is applied based upon the results of a patient assessment. A clinical pathway shows exact timing of all key patient care activities intended to achieve expected standard outcomes within designated time frames. A clinical pathway includes documentation of

problems, expected outcomes/goals, and clinical interventions/orders.

Clinical Trial A scientifically rigorous study of individual outcomes to some process of

healthcare intervention. Clinical trials usually involve medical treatments so this document will use the term *treatment*, rather than the broader term *intervention*. A clinical trial design may randomly assign and compare one treatment approach with another, or generate safety and efficacy data on a single treatment approach. The clinical trial has a protocol for the patient's course of treatment and/or evaluation. There is usually a schedule for

collection of data to measure compliance, safety, and outcomes.

CM Composite data type. A field that is a combination of other meaningful data

fields. Each portion is called a component.

CN Composite Number and Name data type. A field identifying a person both as

a coded value and with a text name. The first component is the coded ID according to a site-specific table. The second through the sixth components are the person's name as a PN field. The seventh component specifies the

source table used for the first component.

**CNE** Coded with no exceptions data type.

**Complex Appointments** For example, recurring batteries of appointments, or batteries of battery

appointments.

Component Separator The component separator is used to separate adjacent components of some

data fields. Its use is described in the descriptions of the relevant data fields. The character that represents the component separator is specified for each message as the first character in the Encoding Characters data field of the MSH segment. Absent other considerations it is recommended that all sending applications use ``as the component separator. However, all applications are required to accept whatever character is included in the

Message Header and use it to parse the message.

**Composite Document** A document that consists of an original document and one or more addenda.

**Computer-Based Patient** CPRI is an organization committed to initiating and coordinating urgently

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January 2011 Final Standard.

**Record Institute, Inc. (CPRI)** needed activities to facilitate and promote the routine use of computer-based

patient records. CPRI was incorporated in January 1992 in response to the

Institute of Medicine's Patient Record Study Committee report.

**CP** Composite price data type. In version 2.3, replaces the MO data type.

**CQ** Composite Quantity with Units data type. The first component is a quantity

and the second is the units in which the quantity is expressed.

**CRM** Clinical study registration message.

**CSU** Unsolicited study data message.

**CWE** Coded with exceptions data type.

**CX** Extended composite ID with check digit data type. Used for specifying an

identifier with its associated administrative detail.

D

**Data Fields** Appendix A, the data dictionary, provides an alphabetical listing of data

elements, listings of recommended coded values, and a cross reference from

data elements to segments.

**Data Schedule** The treatment, diagnostic, and procedural requirements, as well as data

collection due dates, scheduled on a timeline for most clinical trials. As data are reported, they may need to reflect the scheduled time point that they satisfy. Clinical trials quality control requires attention to compliance

between the protocol's schedule and patient data records.

The data schedule will be keyed by time points relative to the study. Some data may be due prior to and at the conclusion of the study and/or one or more of its phases. Some are interim within the study or its phases depending on protocol events such as administration of treatment, arbitrary time intervals instated to make and record assessments, or some clinical milestone such as relapse of disease. Often, multiple data parameters are scheduled at

the same time point. Several examples follow.

**Data Type** HL7 provides a special set of HL7 data types. These are defined in Chapter 2.

**Deferred Processing**In this mode the responding system sends an acknowledgment to the initiating

system that means the message has been placed in some type of secure environment and the receiving system commits to processing it within a "reasonable" amount of time, if (a) the message contains the necessary information, and (b) nothing causes the message's request for action to be canceled before the responding system processes the request. Both of these conditions are checked at the time of processing, <u>not</u> at the time of the first

acknowledgment.

**Dependent** Refers to a person who is affiliated with a subscriber, such as spouse or child.

**DFT** Detail Financial Transaction message. The DFT message is used to describe a

financial transaction transmitted between systems.

**DICOM** Digital Imaging and Communications in Medicine. Draft standard in

development by ACR/NEMA for exchange of radiological images. Version 3 of DICOM defines image data as well as patient, study and visit information necessary to provide the context for the images. This version incorporates an

object-oriented data model and adds support for ISO Standard

communications.

**Dictated** A status in which information has been orally recorded but not yet

transcribed.

**Diet** A diet consists of the diet codes, supplements, and preferences effective at a

given time. These three specifications govern which foods a patient will receive. Diets generally do not have a stated ending time to ensure that the

patient always receives food.

**Diet Code** A diet code defines which foods a patient may receive; a patient must have at

least one diet code to receive food.

**Dietary Orders** An order for a patient diet. A patient may have only one effective diet order

at a time.

**DLN** Drivers' License Number data type. Contains the driver's license information.

**DOC** Document response message.

**Documented** A status in which document content, other than dictation, has been received

but has not been translated into the final electronic format. Examples include paper documents, whether hand-written or typewritten, and intermediate

electronic forms, such as voice to text.

**DR** Date/time range data type.

**Drug** Any chemical compound that may be used on or administered to humans or

animals as an aid in the diagnosis, treatment or prevention of disease or other abnormal condition, for the relief of pain or suffering, or to control or improve any physiologic condition (Dorland's Illustrated Medical Dictionary

27<sup>th</sup> edition).

**DSR** Display Response message.

**D**T Date data type. Always in the format YYYYMMDD.

 $\mathbf{E}$ 

**EAC** Automated equipment command message.

**EAN** Automated equipment notification message.

**EAR** Automated equipment response message.

**ED** Encapsulated data type. Supports ASCII MIME-encoding of binary data.

**EDIFACT** The Electronic Data Interchange For Administration, Commerce and

Transport (EDIFACT) is a set of internationally agreed standards, directories, and guidelines for the electronic interchange of structured data related to trade in goods and services between independent computerized information

systems.

The basic EDIFACT (ISO 9735) syntax standard was formally adopted in

September 1987.

Edited Document A document that alters an existing document which had not been made

available for patient care.

**EDR** Enhanced display response

EI Entity identifier data type.

**Eligibility/Coverage** Refers to the period of time a subscriber or dependent is entitled to benefits.

**Encoding Rules**To determine the exact representation of an abstract message, one applies the

HL7 encoding rules defined in Chapter 2 to the abstract definition from the relevant transaction definition chapter. This level corresponds most closely to ISO layers 5 and 6. In effect, the encoding rules support an established

session for each message and its reply.

**Encounter** Refers to a face-to-face meeting between a covered person and a health care

provider whose services are provided.

**EQQ** Embedded query language query.

**ERP** Event replay response.

**Escape Character** In text fields (Type TX or FT) another special character is allowed, the escape

character. Any character allowed in a TX or FT field may serve as the escape character. The single character that represents the escape character is

specified differently for each message as the third character in the Encoding Characters data field of the MSH segment. This field is optional.

Applications that do not need to use an escape character may omit this character. Absent other considerations it is recommended that all sending applications use '\' as the escape character. However, all applications are required to accept whatever character is included in this field and use it to

parse text fields within the message.

**ESR** Automated equipment status update acknowledgement message

**ESU** Automated equipment status update message.

**EUCLIDES** EUCLIDES, an acronym derived from EUropean CLInical Data Exchange

Standard, provides a standard for clinical laboratory data exchange between independent and heterogeneous medical information systems. EUCLIDES is

supported by the Commission of the European Communities (CEC DGXIII) within the framework of the Advanced Informatics in Medicine (AIM) Program.

#### **Expected Adverse Product** Reaction

Expected events are those which prior experience has demonstrated to be probabilistically linked to the product and are generally included in product labeling.

Pre-marketing: An adverse reaction, the nature or severity of which is not consistent with the applicable product information (e.g., Investigator's Brochure for an unapproved investigational product).

Post-marketing/US (current): Unexpected means an adverse drug experience that is not listed in the current labeling for the drug product and includes an event that may be symptomatically and pathophysiologically related to an event listed in the labeling but differs from the event because of greater severity or specificity.

Post-marketing/US (proposed): The applicant's core safety data sheet shall be a document prepared by the applicant that contains all relevant safety information, including adverse drug experiences, which the applicant believes should e listed for the drug in all countries where the drug is marketed. It may be used by the applicant as the reference document by which an adverse drug experience is judged to be expected or unexpected for purposes of this post-marketing periodic report.

Post-marketing/European Union: This relates to an adverse reaction which is not mentioned in any ECsummary of product characteristics (SPC). In the absence of any European SPC, an international document prepared by the marketing authorization holder containing all relevant safety information which the marketing authorization holder considers should be listed for the medicinal product in all countries where the medicinal product is marketed (Care Data Sheet).

Post-marketing/WHO: An adverse reaction, the nature or severity of which is not consistent with domestic labeling or market authorization, or expected from characteristics of the drug.

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FC Financial class data type. Used to assign a financial class to a person.

Field An HL7 field is a string of characters defined by one of the HL7 data types.

**Field Components** A field entry may also have discernable parts or components. For example, the patient's name is recorded as last name, first name, and middle initial, each of which is a distinct entity separated by a component delimiter (sub-

subfield in astm e1238-94).

The HL7 field separator separates two adjacent data fields within an HL7 **Field Separator** segment. It also separates the segment ID from the first data field in the

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segment. The value that represents the field separator may be defined differently for each message. Whatever character is the fourth character of the MSH segment serves as the field separator for all segments in the message. Absent other considerations, it is recommended that all sending applications use "|" as the field separator. However, all receiving applications are required to accept whatever character is included in this position and use it to parse the message.

Filler

The application responding to, i.e., performing, a request for services (orders) or producing an observation. The fill can also originate requests for services (new orders), add additional services to existing orders, replace existing orders, put an order on hold, discontinue an order, release a held order, or cancel existing orders. Referred to as Producer in ASTM terminology.

Filler

\*\*Person, or service, which produces the observations (fills the order) requested by the requestor. The word is synonymous with "producer" and includes diagnostic services and clinical services and care providers who report observations about their patients. The clinical laboratory is a producer of lab test results (filler of a lab order), the nursing service is the producer of vital signs observations (the filler of orders to measure vital signs), and so on.

**Filler Application** 

The filler application role in the scheduling model is very similar to the filler application concept presented in Chapter 4, Order Entry. A filler application, in the scheduling model, is one that "owns" one or more schedules for one or more services or resources. It fulfills requests to book slots for the services or resources over which it exerts control. It also notifies other applications of activity related to appointments, such as new bookings, modifications, cancellations, etc.

FN

Family name data type. This data type allows full specification of the surname of a person. Where appropriate, it differentiates the person's own surname from that of the person's partner or spouse, in cases where the person's name may contain elements from either name. It also permits messages to distinguish the surname prefix (such as "van" or "de") from the surname root.

FT

Formatted Text data type. This data type is derived from the string data type by allowing the addition of embedded formatting instructions. These instructions are limited to those that are intrinsic and independent of the circumstances under which the field is to be displayed, FT supports width-independent and device-independent text display.

G

Goal

A goal refers to an objective to be achieved as a consequence of health care interventions applied to an individual. Goals are set in many areas of the health care system, and include educational, behavior modification, and clinical goals such as reduced discomfort, improved circulation. Goals are documented by a variety of health care professionals including physicians, nurses, and respiratory and other therapists. Goals are defined during patient

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visits and they may span one or multiple visits, encounters, or episodes of

care.

**Guarantor** Refers to a person who has financial responsibility for the payment of a

patient account.

H

**HD** Hierarchic designator data type.

**Health Care Provider** Refers to a person licensed, certified or otherwise authorized or permitted by

law to administer health care in the ordinary course of business or practice of

a profession, including a health care facility.

HISB The American National Standards Institute's Healthcare Informatics Standards

Board (ANSI HISB) provides an open, public forum for the voluntary coordination of healthcare informatics standards among all United States' standard developing organizations. Every major developer of healthcare informatics standards in the United States participates in ANSI HISB. The ANSI HISB has 38 voting members and more than 100 participants, including ANSI-accredited and other standards developing organizations, professional

societies, trade associations, private companies, federal agencies, and others.

**HISPP** Healthcare Informatics Standards Planning Panel. HISPP was formed in early

1992. HISPP is charged with coordinating the work of the standards groups for healthcare data interchange and healthcare informatics (e.g., HL7), and other relevant standards groups (e.g., ASC X12) toward achieving the evolution of a unified set of non-redundant, non-conflicting standards that are compatible with ISO and non-ISO communications environments. HISPP also interacts with and provides input to CEN/TC251 in a coordinated fashion

and explores avenues of international standards development (e.g., ISO).

HL7 Health Level Seven (HL7) is an application protocol for electronic data

exchange in health care environments. The HL7 protocol is a collection of standard formats that specify the implementation of interfaces between computer applications from different vendors. This communication protocol allows healthcare institutions to exchange key sets of data amount different

application systems. Flexibility is built into the protocol to allow compatibility for specialized data sets that have facility-specific needs.

**HL7 Batch Protocol** Protocol utilized to transmit a batch of HL7 messages. The protocol uses

FHS, BHS, BTS and FTS segments to delineate the batch.

**Holder of Marketing** The organization that holds the authority to market a product. This will often

be the organization that manufactures the product.

I

**Authorization (HMA)** 

ID Coded Value data type. The value of such a field follows the formatting rules

for a ST field except that it is drawn from a table of legal values. Examples of

ID fields include religion and sex.

**IEEE** Institute of Electrical and Electronics Engineers. IEEE is accredited by ANSI

> to submit its documents for approval as American National Standards. IEEE subcommittee P1073 develops standards for healthcare informatics: MEDIX

(P1157) and MIB (P1073).

**IEEE MEDIX** IEEE P1157 Medical Data Interchange (MEDIX) Committee. MEDIX was

> organized in 1987 to draft a standard for the exchange of data between hospital computer systems. The MEDIX committee is committed to developing a standard set of hospital system interface transactions based on the ISO standards for all seven layers of the OSI reference model. The committee proposes to use the ASN.1 standard to specify message content as well as encode standard messages. IEEE is also developing the standard medical information bus (MIB; IEEE P1073) for communicating among

critical care devices and computers.

**IEEE MIB** IEEE Medical Information Bus Committee. IEEE subcommittee (P1073) to

develop standards for communications between patient monitoring devices

and computer systems.

In Progress/Assigned

Document

A workflow status change in which the recipient has assigned the material to personnel to perform the task of transcription. The document remains in this

state until the document is transcribed.

**Incomplete Document** A status in which information is known to be missing from a transcribed

document.

INR Automated equipment inventory request message.

INU Automated equipment inventory update message.

IS Coded value for user defined tables data type.

ISO International Organization for Standardization. A voluntary, non-treaty

> organization established in 1949 to promote international standards. Developers of the ISO Reference Model for Open Systems Interconnection (OSI Model), a standard approach to network design which introduces modularity by dividing the complex set of functions into more manageable,

self-contained, functional slices (layers).

J

**JCC** Job class/code data type. This contains the person's job code.

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# L

**Legally Authenticated** Document

A status in which a document or entry has been signed manually or electronically by the individual who is legally responsible for that document or entry. This is the most mature state in the workflow process.

Level Seven

Organizations (ISO) communications model for Open Systems Interconnection (OSI)—the application level. Issues within the application level include definition of the data to be exchanged, the timing of the interchange, and communication of certain errors to the application.

Level Seven refers to the highest level of International Standards

The seventh level supports such functions as security checks, identification of the participants, availability checks, negotiating exchange mechanisms and, most importantly, structuring the data exchanges themselves.

Local-Area Network (LAN)

A user-owned, user-operated, high-volume data transmission facility connecting a number of communicating devices (e.g., computers, terminals, word processor, printers, and mass storage units) within a single building or campus of buildings.

LSR Automated equipment log/service request message.

LSU Automated equipment log/service update message.

# M

MA Multiplexed array data type.

**Master Files** A set of common reference files used by one or more application systems.

These common reference files need to be synchronized across the various applications at a given site. The Master Files Notification transactions

provide a way of maintaining this synchronization.

**Master Files Notification** 

transactions

The Master Files Notification transactions support the distribution of changes to various master files between systems in either on-line or batch modes, and allow the use of either original or enhanced acknowledgment modes, as well

as providing for a delayed application acknowledgment mode.

Delayed Acknowledgment message. This message remains in the **MCF** 

> specification only for reasons of backwards compatibility. It is used as a part of the protocol that creates a generic form of an asynchronous application

level acknowledgment.

**MDM** Medical Document Management message.

**Medical Device:** Something contrived for or used in the diagnosis (vascular catheters),

treatment (thermotherapy units) or prevention of disease or other abnormal condition, for the relief of pain or suffering or to control or improve any

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physiologic condition, including instrumentation and implanted devices

(prosthetic cardiac valves, pacemakers, hip prostheses).

**MEDIX** See IEEE MEDIX

**Message** A message is the atomic unit of data transferred between systems. It is

comprised of a group of segments in a defined sequence. Each message has a message type that defines its purpose. For example, the ADT Message type is used to transmit portions of a patient's ADT data from one system to another. A three character code contained within each message identifies its type.

Segment Terminator, the Field Separator, the Component Separator, the Sub-Component Separator, Repetition Character, and the Escape Character.

**Message Type** Each message has a message type that defines its purpose. For example, the

ADT Message Type is used to transmit portions of a patient's ADT data from one system to another. A 3-character code contained within each message

identifies its type.

**MFD** Master Files Delayed Application Acknowledgment message.

MFK Master files application acknowledgement.

**MFN** Master Files Change Notification message.

MFO Master Files Query message allows a system to query for a particular record in

a particular master file.

**MFR** Master Files Response message.

MIB See IEEE MIB

MO Money data type. The first component is a quantity and the second is the

denomination in which quantity is expressed. See also CP data type.

MSDS Message Standards Developers Subcommittee of the ANSI HISPP.

N

**NA** Numeric array data type.

NCPDP National Council for Prescription Drug Programs. The Standardization

Committee within the NCPDP developed a standard format for the electronic submission of third party drug claims. The standard was developed to accommodate the eligibility verification process at the point-of-sale and to provide a consistent format for electronic claims processing. The standard is used primarily by pharmacy providers, insurance carriers, third-party administrators and other responsible parties. The NCPDP communication standard is used by more than 60% of the nation's prescription volume.

**New or Original Document** The first version of a document. The original may or may not be final or

authenticated. An original document should have a set of associated statuses

to define its current condition.

NM Numeric data type. A number represented as a series of ASCII numeric

characters consisting of an optional leading sign (+ or -), the digits and an

optional decimal point.

NMD Network Management Data message. One system creates an unsolicited

update (UU) Network Management Data message (NMD) to transmit network

management information to another system.

NMQ Network Management Query message. One system needs network

information from another system. The NMQ is used by one system to make

system-level requests for information or action to another system.

NMR Application Management Response message.

Non-Proprietary (Generic)

Name

Drug name that are not protected by a trademark, usually descriptive of its chemical structure; sometimes called a public name. In the US, most generic drug names are assigned by the US adopted name council (USAN). Other generic names in common use are the national formulary (NF) and the US pharmacopoeia (USP) names. *Figure 2-3* (chapter 2) lists other available

drug coding systems.

O

**Observation** A measurement of a single variable or a single value derived logically and/or

algebraically from other measured or derived values. A test result, a diastolic

blood pressure, and a single chest x-ray impression are examples of

observations. In certain circumstances, tracings and images may be treated by HL7 as individual observations and sent as a single OBX. These include waveform data described in Section 7.14 and encapsulated data aggregates using the ED data type described in 2.4.5.12 (which can represent actual

images, audio data, etc.).

**Obsolete Document** A status in which a document has been replaced by a document that contains

revised content.

**OBX** Observation/result message. OBX is intended to cover all types of patient

specific observation reports except pharmacy.

**ODS** (New with Version 2.2) Dietary orders, supplements and preferences

segment.

**ODT** (New with Version 2.2) Diet tray instructions segment.

**OMD** Dietary order message.

**OMG** General clinical order message.

OML Laboratory order message.

**OMN** Non-stock requisition order message

**OMP** Pharmacy/treatment order message.

**OMS** Stock requisition order message.

**ORD** Dietary order - General order acknowledgement message.

Order An order is a request for a service from one application to a second

application. The second application may in some cases be the same, i.e., an

application is allowed to place orders with itself. Usually orders are

associated with a particular patient.

Order Detail Segment One of several segments that can carry order information. Examples are OBR

and RXO.

**Order Group** See Placer Order Group.

**ORF** Query for results of observation message.

**ORG** General clinical order acknowledgement message.

ORL Laboratory acknowledgement message (unsolicited)

**ORM** General Order message. The function of this message is to initiate the

transmission of information about an order. This includes placing new orders, cancellation of existing orders, discontinuation, holding, etc. ORM messages

can originate also with a placer, filler or an interested third party.

**ORN** Non-stock requisition - General order acknowledgement message.

**ORP** Pharmacy/treatment order acknowledgement message.

**ORR** General Order Response message. The function of this message is to respond

to an ORM message.

ORS Stock requisition - General order acknowledgment message.

ORU Unsolicited Transmission of an Observation. For each patient order (OBR

segment) more results may be transmitted depending upon the number of

observations generated by the order.

OSI Model Open Systems Interconnection Model. A standard approach to network

design developed by the International Standards Organization (ISO) that introduces modularity by dividing the complex set of functions into more manageable, self-contained, functional slices. The seven layers, from the

innermost layer, are:

1. Physical Layer - concerned with the mechanical and electrical means by

which devices are physically connected and data is transmitted.

- 2. Link Layer concerned with moving data reliably across the physical data link.
- 3. Network Layer provides the means to establish, maintain and terminate connections between systems; concerned with information switching and routing.
- 4. Transport Layer concerned with end-to-end data integrity and quality of service.
- 5. Session Layer standardizes the task of setting up and terminating a session; it coordinates interaction between end application processes.
- 6. Presentation Layer relates to the character set and data code used, and to the way data is displayed on a screen or printer.
- 7. Application Layer concerned with the higher-level functions that provide support to the application or system activities.

**OSQ** Query response for order status message.

**OSR** Query response for order status message.

OUL Unsolicited laboratory observation message.

## P

#### **Parent Appointment**

A parent appointment is an appointment that consists of one or more subordinate appointments (called child appointments). A parent appointment is used to relate or group multiple appointments together in various ways. Examples of kinds of parent scheduled activities include, but are not limited to, the following.

Parent appointments can themselves be children to other appointments.

### **Patient Accounting Message Set**

The Patient Accounting message set provides for the entry and manipulation of charge, payment, adjustment, demographic, insurance, and other related patient billing and accounts receivable information. The specification includes all the data defined in the National Uniform Billing Data Element Specifications (UB-82 and UB-92).

Payor

Indicates a third party entity that pays for or underwrites coverage for health care expenses. A payor may be an insurance company, a health maintenance organization (HMO), a preferred provider organization (PPO), a government agency or an agency such as a third party administrator (TPA).

**PEX** Product experience message.

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**PGL** 

Patient goal message.

**Pharmacy Order Messages** 

A series of messages used to convey pharmacy order information. Messages include ORM (general order; proposed as RDO), RDE (pharmacy encoded order), RDS (pharmacy dispensing information), RGV (pharmacy give) and RAS (pharmacy administration).

Phase of a Clinical Trial

The phase structure serves several purposes in the clinical trials messages. Other computer systems may need to know that the patient has begun a phase with a particular treatment regimen or diagnostic schedule, such as the pharmacy or order entry systems. When reporting study data, observations and variables often describe particular phase instances. For example, each course of treatment may have its own values for the same set of observations or variables. Phase instances may also have distinct data schedules that need to be linked to submitted data.

**PIN** Patient insurance information message.

PL Patient location data type.

Placer The application (system or individual) originating a request for services

(order).

**Placer** \*\*Person or service that requests (places order for) an observation battery,

e.g., the physician, the practice, clinic, or ward service, that orders a lab test,

x-ray, vital signs, etc. The meaning is synonymous with, and used

interchangeably with, requestor.

**Placer Application** The role of the placer application in the scheduling model is also very similar

to its counterpart in the Order Entry chapter. A placer application must request the booking, modification, cancellation, etc., of an appointment for a service or resource because it cannot exert any control over that service or resource on the schedule. In requesting that these appointments be booked or modified in some way, the placer application is asking the filler application to

exert its control over the schedule on the placer application's behalf.

Placer Order Group A list of associated orders coming from a single location regarding a single

patient; usually representing a single session by an ordering provider. A group is established when the placer supplies a placer group number with the

original order.

PMU Add personnel record message.

**PN** Person Name data type. A name includes multiple free text components:

family name, given name, middle initial or name, suffix, prefix, and degree.

**PPG** Patient pathway message (goal-oriented)

**PPN** Performing person time stamp data type. This data type is the equivalent of

an XCN data type joined with a TS data type. However, since HL7 does not support subcomponents in Version 2.3, the XCN data type has been flattened.

**PPP** Patient pathway message (problem-oriented).

**PPR** Patient problem message.

**PPT** Patient pathway goal-oriented response.

**PPV** Patient goal response message.

**Pre-Authenticated Document** A status in which a document is transcribed but not authenticated.

**Pre-Authorization** Refers to the process of obtaining prior approval as to the appropriateness of

a service. Pre-authorization does not guarantee coverage.

**Preferences** (related to Dietary Orders) Preferences consist of likes, dislikes, substitutions,

and complementary foods. Preferences are diet orders, effectively from the patient, but transmitted from the ward. They are subject to change. Preferences are independent of the diet order and do not change when the

order changes.

**Primary Care Provider** Indicates the provider responsible for delivering care as well as authorizing

and channeling care to specialists and other providers in a gatekeeper system.

The provider is also referred to as a case manager or a gatekeeper.

**PRM** Response to request for Personnel dta message.

**Problem** A problem of a given individual can be described by formal diagnosis coding

systems (such as DRGs, NANDA Nursing Diagnosis, ICD9, DSM, etc.) or by other professional descriptions of health care issues affecting an individual. Problems can be short or long term in nature, chronic or acute, and have a status. In a longitudinal record, all problems may be of importance in the overall long term care of an individual, and may undergo

changes in status repeatedly. Problems are identified during patient visits,

and may span multiple visits, encounters, or episodes of care.

**Product** A drug or medical device.

**Product Manufacturer** The organization that is responsible for the manufacture of a product. This

will usually be the entity that holds the marketing authorization for the

product.

**Protocol** A set of procedures for establishing and controlling data transmission.

**Protocol Conversion** The process of translating the protocol native to an end-user device (e.g., a

terminal) into a different protocol (e.g., ASCII to BSC), enabling that device to communicate with another device (e.g., a computer) with which it would

otherwise be incompatible. Protocol conversion

**PRR** Patient problem response message.

PT Processing type data type. This data type indicates whether to process a

message as defined in HL7 Application (level 7) Processing rules.

**PTR** Patient pathway problem-oriented response message.

Purged Document

A status in which a document is no longer available in this system.

Q

**QBP** Query by parameter.

**QCK** Deferred query.

QCN Cancel query.

QIP Query input parameter list data type. Contains the list of parameter names and

values to be passed to the stored procedure.

**QRY** Query message.

**QSB** Create subscription message.

QSC Query selection criteria data type. Indicates the conditions that qualify the

rows to be returned in the query response.

**QSX** Cancel subscription/acknowledge message.

Querying Application A querying application neither exerts control over, nor requests changes to a

schedule. Rather than accepting unsolicited information about schedules, as does an auxiliary application, the querying application actively solicits this information using a query mechanism. It will be driven by a person wanting information about schedules, and may be part of an application filling the placer application role as defined in this chapter. The information that the querying application receives is valid only at the exact time that the query results are generated by the filler application. Changes made to the schedule after the query results have been returned are not communicated to the

querying application until it issues another query transaction.

**QVR** Query for previous events.

R

**RAR** Pharmacy/treatment administration information.

**RAS** Pharmacy Administration message.

**RCD** Row column definition data types. Specifies the format of a column in terms

of a segment field name, a data type, and a maximum length.

**RCI** Return clinical information.

**RCL** Return clinical information.

**RDE** Pharmacy Encoded Order message.

**RDO** Pharmacy Prescription message.

**RDR** Pharmacy/treatment dispense information.

**RDS** Pharmacy Dispense message. The RDS message may be created by the

Pharmacy application for each instance of dispensing drugs to fill an existing

order(s).

**RDY** Display based response.

Recurring (Repeating) Appointments.

For example, a physical therapy appointment may be scheduled every

Tuesday at 4:00 PM for three months.

**REF** Patient Referral message.

**Referral** Means a provider's recommendation that a covered person receive care from

a different provider.

**Referred-to-Provider** Typically indicates a specialty care provider who provides services at the

request of a primary care provider or another specialty care provider.

**Referring Provider** Indicates the provider who requests services from a specialist or another

primary care provider. A referring provider may, in fact, be a specialist who

is referring a patient to another specialist.

**Regulatory Agency** Many geopolitical entities have established agencies/authority responsible for

regulating products used in health care. The agencies are collectively

referred to as regulatory agencies.

**Repeated Value** Some fields may contain many repeat fields. For example, the diagnoses

field may contain many different diagnoses.

**Repetition Separator** The repetition separator is used in some data fields to separate multiple

occurrences of a field. It is used only where specifically authorized in the descriptions of the relevant data fields. The character that represents the repetition separator is specified for each message as the second character in the Encoding Characters data field of the MSH segment. Absent other considerations it is recommended that all sending applications use "~" as the repetition separator. However, all applications are required to accept whatever character is included in the Message Header and use it to parse the

message.

**Replacement Document** A document that replaces an existing document. The original document

becomes obsolete, but is still retained in the system for historical reference.

**RER** Pharmacy/treatment encoded order information.

**Resource** A resource is any person, place or thing that must be reserved prior to its use.

**Restricted Document** A status in which access to a document has institutionally assigned

limitations.

**Revised Document** This is not a supported trigger event. When a document has not been made

available for patient care, the "Edit" trigger event (T07) may be used to accomplish this function. Once a document has been made available, revision is not allowed. Instead, a replacement is issued (T010) which contains the revised content, together with a notice that the original document, which it supersedes) remains but is now obsolete.

**RGV** Pharmacy Give message. The RGV message can communicate drug

administration instructions and/or dispensing information.

**RGR** Pharmacy/treatment dose information message.

**RI** Repeat interval data type. Contains the interval between repeating

appointments.

**Role** A role refers to the function or responsibility assumed by a person in the

context of a health care event. Role information documents a person's association with an identified healthcare activity. Examples include primary

care provider, transcriptionist, reviewer, and consulting physician.

**ROR** Pharmacy/treatment order response.

**RP** Reference Pointer data type. This data type transmits information about data

stored on another system.

**RPA** Return patient authorization message.

**RPI** Return patient information message.

**RPL** Return patient display list.

**RPR** Return patient list.

**RO1** One of several segments related to supply orders. Contains additional

information of detail for each requisitioned item. It is required for all non-

stock orders (and is paired with the RQD in this case).

**RQA** Request patient authorization.

**RQC** Request clinical information.

**RQD** One of several segments related to supply orders. Contains the detail for each

requisitioned item. It is required for all stock orders. It is assumed that this is enough information for the application receiving the message to identify the

item.

**RQI** Request patient information.

**RQP** Request patient demographics.

**RQQ** Event replay query.

**RRA** Pharmacy/treatment administration acknowledgement message.

**RRD** Pharmacy/treatment dispense acknowledgement message.

**RRE** Pharmacy/treatment encoded order acknowledgement message.

**RRG** Pharmacy/treatment give acknowledgement message.

**RRI** Return referral information message.

**RS-232C** A technical specification published by the Electronic Industries Association

(EIA) that establishes mechanical and electrical interface requirements among

computers, terminals and communications lines.

**RSP** Segment pattern response.

RTB Tabular response

S

SAD Street address data type. This data type appears only as part of the XAD data

type.

**Schedule** A schedule is the sum of all of the slots related to a service or resource.

SCV Scheduling class value pair data type. Used to communicate parameters and

preferences to the filler application regarding the selection of an appropriate time slot, resource, location, or filler override criterion for an appointment.

Used only with the scheduling chapter.

**Segment** An HL7 segment is a logical grouping of data fields. Segments of a message

may be required or optional. They may occur only once in a message or they may be allowed to repeat. Each segment is identified by a unique three

character code known as the Segment ID.

**Segment (Record)** A typed aggregate of fields (fields) describing one complete aspect of a

message. For example, the information about one order is sent as type of segment (OBR), the information related to an observation is sent as another

segment (OBX).

The segment in a message is analogous to a record in a database, and in previous versions of the standard we used record in place of the word segment. We have changed the nomenclature to be consistent with HL7 and

other standards organizations in this version.

**Segment Terminator** The segment terminator is the last character of every segment. It is always the

ASCII CR character (hex 0D).

**Sequence Number Protocol** An extension to the basic HL7 message protocol used for certain types of data

transactions between systems where the issue of keeping the data bases

synchronized is critical. Although the sequence number protocol is limited to the use of sequence numbers on a single transaction stream between two applications, this sequencing protocol is sufficiently robust to allow the design of HL7-compatible store-and-forward applications.

#### Serious Adverse Product Reaction

An adverse product reaction which:

is fatal (results in death)

is life threatening

requires hospitalization or prolongation of a hospitalization

results in persistent or significant disability/incapacity

results in a congenital anomaly/birth defect.

Medical and scientific judgment should be exercised in deciding whether expedited reporting is appropriate in other situations, such as important medical events that may not be immediately life-threatening or result in hospitalization but may jeopardize the patient or may require intervention to prevent one of the other outcomes listed in the definition above. These should also be considered serious.

**Service** A service is any activity that must be scheduled prior to its performance.

SI Sequence ID data type. A positive integer in the form of a NM field.

**SIU** Schedule information unsolicited message.

**Slot** A slot is one unit on a schedule. A slot represents the smallest unit of time or

quantity that a service or resource may be booked. Depending on the nature of the service or resource, there may be more than one defined slot at a given instant of time. For example, if a service is an open group therapy session with twelve available seats, then there are twelve slots for the given block of

time.

SN Structured numeric data type.

**Specialist** Means a provider of services that are beyond the capabilities or resources of

the primary care provider. A specialist is also known as a specialty care provider who provides services at the request of a primary care provider or

another specialty care provider.

**SPQ** Stored procedure request.

**SQM** Schedule query message.

**SQR** Schedule query response.

**SRM** Schedule request message.

**SRT** Sort order data type. Specifies those parameters by which the response will be

sorted and by what method.

**SSR** Specimen statue update message.

SSU Specimen status update message.

String data type. String Data is left justified with trailing blanks optional.

Any printable ASCII characters are allowed.

**Subcomponent Separator** The subcomponent separator is used to separate adjacent subcomponents of

some data fields. Its use is described in the descriptions of the relevant data fields. The character that represents the subcomponent separator is specified for each message as the fourth character in the Encoding Characters data field of the MSH segment. Absent other considerations it is recommended that all sending applications use "&" as the subcomponent separator. However, all applications are required to accept whatever character is included in the

Message Header and use it to parse the message.

**Subscriber** Refers to a person who elects benefits and is affiliated with an employer or

insurer.

**Supplements** Supplements provide a mechanism for giving any additional desired foods to a

patient. Supplements are foods given to a patient regardless of their diet codes. These foods are part of the patient's diet without being restricted by

any other part of the order.

**Supply Order Segment** One of several segments that can carry supply order information. Supply

order segments include RQD (stock orders) and RQ1 (non-stock orders)

**Supply Orders** Supply Orders are used to order medical and surgical supplies, both stock and

non-stock. Stock Orders are supplies stocked in the hospital in designated areas, such as the warehouse, central supply, nursing floors, or operating room. Non-stock Orders are supplies that are not stocked anywhere in the

hospital and that must be ordered from an industry distributor or

manufacturer. A supply order may or may not be associated with a patient.

**SUR** Summary product experience report.

T

**TBR** Tabular data response

TC 224 Technical Committee 224. Established by the European Committee for

Standardization (CEN), TC 224 focuses on the development of standards for

machine-readable cards, related device interfaces and operations.

TC 251 Technical Committee 251. Established by the European Committee for

Standardization (CEN), TC 251 focuses on the development of standards for healthcare informatics. A major goal of this committee is to develop standards for communication among independent medical information systems so that clinical and management date produced by one computer

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system could be transmitted to another system.

TCP/IP Transaction Control Protocol/Internet Protocol. A set of protocols for Layers

3 (Network) and 4 (Transfer) of the OSI network model. TCP/IP has been developed over a period of 15 years under the auspices of the Department of Defense. It is a de facto standard, particularly as higher-level layers over ethernet. Although it builds upon the OSI model, TCP/IP is not OSI-

compliant.

TCR Automated equipment test code settings request message.

TCU Automated equipment test code setting update message.

**Test** Observations/results that are done on specimens and those that are standard

measurements are typically referred to as tests.

TM Time data type. Always in the format HHMM[SS[.SSSS]] using a 24 hour

clock notation.

TN Telephone Number data type. For use in the U.S. and conforming countries.

TQ Timing/Quantity data type. Describes when a service should be performed

and how frequently.

**Trade (Brand) Name** Proprietary names that are registered to protect the name for the sole use of

the manufacturer holding the trademark.

**Transcription** A process of transforming dictated or otherwise documented information into

an electronic format.

**Trigger Event** The event that initiates an exchange of messages is called a trigger event. The

HL7 Standard is written from the assumption that an event in the real world of health care creates the need for data to flow among systems. The real-world event is called the trigger event. For example, the trigger event "a patient is admitted" may cause the need for data about that patient to be sent to a number of other systems. There is a one-to-many relationship between message types and trigger event codes. The same trigger event code may not

be associated with more than one message type.

TS Time Stamp data type. Contains the exact time of an event, including the date

and time.

**TX** Text data type. String data meant for user display on a terminal or printer.

U

**UDM** Unsolicited Display Message. The UDM describes a display oriented

message. It is the unsolicited version of the generalized Response display

message. It is acknowledged by a generic ACK message.

UI Universal identifier data type.

**Unsolicited Update** When the transfer of information is initiated by the application system that

deals with the triggering event, the transaction is termed an unsolicited update.

 $\mathbf{V}$ 

Variance Variances are documented deviations, either positive or negative from a pre-

defined standard. Variances are documented against expected outcomes,

orders, or the patient's progress in general.

VH Visiting hours data type. Contains the hours when a patient location is open

for visiting.

VID Version identifier data type. Used to identify the HL7 version being used.

**VQQ** Virtual table query.

**VXQ** Query for vaccination record.

VXR Vaccination record response.

VXU Unsolicited vaccination record update.

**VXX** Response for vaccination query with multiple PID matches.

W

**WEDI** Workgroup for Electronic Data Interchange.

X

X12 See ASC X12.

**XAD** Extended address data type. In version 2.3, replaces the AD data type.

**XCN** Extended composite ID number and name data type. In version 2.3, use

instead of the CN data type.

**XON** Extended composite name and ID number for organizations data type.

**XPN** Extended person name data type. In version 2.3, replaces the PN data type.

XTN

Extended telecommunications number data type. In version 2.3, replaces the TN data type.

Z

Z Segment

All message type and trigger event codes beginning with Z are reserved for locally defined messages. No such codes will be defined within the  $\rm HL7$  Standard.