

Health Terminology Transformations

Clinical Terminology Service (CTS) is a shared service that provides an application programming interface to third-party terminology providers, such as HealthTerm™ and Health Language. It takes coded values from incoming HL7 messages and carries out the following transformations:

- Code Normalization — The process of replacing a custom code identifier (code and coding system) with a standard code identifier from a recognized code set, such as LOINC or SNOMED.
- Code Sensitivity — A lookup to determine the level of sensitivity associated with a coded term. For example, exposure to HIV.

Example 1

Field		Sent to CTS	After Normalization	After determining Sensitivity
PRB.3	Problem ID	Z21^suspected exposure to HIV^I10	Z21^Asymptomatic human immunodeficiency virus [HIV] infection status^I10	R
PRB.10	Problem Classification	Z20^exposure to human immunodeficiency virus^I10	Z20^Contact with and (suspected) exposure to communicable diseases^I10	-
PRB.14	Problem Life Cycle Status	G43.7^chronic migraine^I10	G43.7^Chronic migraine without aura^I10	-

The confidentiality code R is inserted in the PRB.25 Security Confidentiality field, as CTS has identified PRB.3 as confidential.

Example 2





















Field		Sent to CTS	After Normalization	After determining Sensitivity
PR1.3	Procedure Code	V80.3^Screen for ear disease^I9	Z13.5^Encounter for screening for eye and ear disorders^I10CM	-
PR1.15	Associated Diagnosis Code	90698^DTAP-HIB-IPV VACCINE, IM (90698)^C4	90698^Diphtheria, tetanus toxoids, acellular pertussis vaccine, haemophilus influenza Type B, and poliovirus vaccine, inactivated (DTaP - Hib - IPV), for intramuscular use^C4	-

Nothing is inserted in the ZPR1.1 Confidentiality Code field, as CTS has not identified either PR1.3 or PR1.15 as confidential.

Normalized Fields

The table below lists the fields that are normalized and enriched for confidentiality by CTS.

 CTS normalizes this field
 CTS sets the sensitivity level in this field

	Field		Message Type	CTS sets the Confidentiality in this Field...
	PRB.3	Problem ID	PPR	
	PRB.10	Problem Classification	PPR	
	PRB.14	Problem Life Cycle Status	PPR	
	PRB.25	Security Confidentiality	PPR	If PRB.3, PRB.10 or PRB.14 are normalized.
	OBR.4	Universal Service Identifier	ORU	
	OBR.26.1	Parent Observation Identifier	ORU	
	OBX.3	Observation Identifier	ORU	
	ORC.28	Confidentiality Code	ORU	If OBR.4, OBR.26.1 or OBX.3 are normalized.
	AL1.2	Allergy Type	ADT	
	AL1.3	Allergy Code Mnemonic Description	ADT	
	AL1.4	Allergy Severity	ADT	
	DG1.3	Diagnosis Code	ADT	
	DG1.18	Confidential Indicator	ADT	If DG1.3 is normalized.
	PR1.3	Procedure Code	ADT	
	PR1.15	Associated Diagnosis Code	ADT	
	ZPR1.1	Confidentiality Code	ADT	If PR1.3 or PR1.15 are normalized.
	IAM.2	Allergen Type Code	ADT	
	IAM.3	Allergen Code Mnemonic Description	ADT	
	IAM.4	Allergy Severity Code	ADT	
	RXO.1.1	Requested Give Code Identifier	OMP	
	RXO.1.3	Requested Give Code Name of Coding System	OMP	
	RXA.5.1	Administered Code Identifier	RAS, VXU	
	RXA.5.3	Administered Code Name of Coding System	RAS, VXU	
	RXE.2.1	Give Code Identifier	RDE	
	RXE.2.3	Give Code Name of Coding System	RDE	
	RXD.2.1	Dispense Give Code Identifier	RDS	
	RXD.2.3	Dispense Give Code Name of Coding System	RDS	
	OBR.26.1	Parent Result Parent Observation Identifier	ORU	
	RXR.1.1	Route Identifier	OMP, RAS, RDE, RDS, VXU	
	RXR.1.3	Route Name of Coding System	OMP, RAS, RDE, RDS, VXU	

