

ISO/IEEE 11073, HL7 Medical Devices WG *and* **NIST**

*NIST Medical Device Connectivity Test Tooling
Semantic Interoperability of Medical Devices*

January 2012

Topics

- RTMMS
- TCAMT – Test Case Authoring and Management Tool
- ICSGenerator

RTMMS

*National Institute of Standards and Technology
January, 2012*



RTMMS Overview

- RTMMS was developed to support the IHE-PCD Rosetta Terminology Mapping (RTM)
 - Is a web application that allows vendors and reviewers to access and report on Rosetta Tables over the internet in conformance to IHE RTM Profiles.
 - Aids in the harmonization process by identifying missing terms, generate automatically "Harmonized Rosetta Table", view and download latest hRTM table.
 - Facilitates the proposal of new terms to x73 Nomenclature.

RTMMS Users

- General User (All users even without account)
 - Views Rosetta tables
- Vendor
 - Modifies Vendor Rosetta Table, suggests new or mapped terms
- Reviewer
 - Participates in discussions
- SDO (Standard Development Organization)
 - Modifies Units and Enumerations table, register new or mapped terms
- Admin
 - Manages User Accounts

RTMMS: Status Update

(since September 2011 meeting)

- **Added aECG into X73 Nomenclature Dbase.**
- **Populated X73 Nomenclature dbase systematic name, common term, acronym and term description tables.**
- Updated hRTM table to include "Vendor_VMD", and "Vendor Description"
- **Improved search capabilities**
- Added scroll bars in history panel
- Added missing columns in review panels
- **Enhanced SDO approval**
- Improved import functionality
- Updated password policy
- **SDO ability to view previous Rosetta versions.**
- **View/Manage X73 terms**
- **Tool ready for initial release – end of January**
 - Limited accessibility to selected user

RTMMS Scenarios

- **Scenario 1:** Mapping a term to the X73 Nomenclature
 - Vendor successfully maps a term to X73 nomenclature.
 - **Outcome:** The mapped term is added to the Rosetta table.
 - The SDO reviews and approves the proposed mapped term.
 - **Outcome:** The hRTM is updated, **not updates to the X73 Nomenclature.**
- **Scenario 2:** Missing Terms in the X73 Nomenclature
 - Vendor finds a missing term in the X73 and proposes a **new term**
 - **Outcome:** The **Rosetta table is updated** with new proposed term.
 - SDO reviews and approves the new proposed term.
 - **Outcome:** The **hRTM and X73 tables** are updated and the term remains in Rosetta, but shows as an already reviewed and approved term (is not highlighted).

RTMMS: Scenario 1 DEMO

- **Scenario 1:** Vendor successfully maps a term to X73 nomenclature.
 - Description = *"Drug delivery rate"*
 - DisplayName = *"DgDeliv"*
 - Vendor_UOM = *"g/min"*
 - Vendor_Status = *"DN"*
 - Vendor_Sort = *"8"*
 - Vendor_VMD = *"MDC_DEV_PUMP_INFUS_VMD"*

Vendor initiates mapping by searching the X73 Nomenclature

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Home My Rosetta Rosetta hRTM Units Enumerations Groups X73

Entry Information

Group information
Group *: INFUS

Vendor parameter information
Description *: Drug delivery rate
DisplayName *: DgDeliv
Vendor UOM *: g/min

Units / Unit Groups
Add Remove
UOM_MDC_REFID UOM_UCUM

Term Selection Wizard

REFIDs are defined in ISO/IEEE 11073 Nomenclature Standard. New REFIDs starting with MDCX_ can be proposed.

- Select REFID from ISO/IEEE 11073 Nomenclature Standard (click "next")
- Type a known REFID
Search REFID...
- Propose new REFID starting with MDCX_
Enter New REFID...

Back Cancel Done Next

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Vendor finds a mapping

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Entry Information

Group information

Units / Unit Groups

Term Selection Wizard

Select term from table.

Search

Term Code	Part	REFID	Systematic name	Common term	Acronym	Description
28744	2	MDC_DOSE_DRUG_BOLUS	Mass Bolus Drug, Fluid Pump	Bolus dose, PCA dose		Dose of drug (setting) to deliver to the
28752	2	MDC_MASS_DOSE_LOADING	Mass Loading Drug, Fluid Pump	Mass of loading dose		Mass of drug loaded to the fluid filled
28798	2	MDC_VOL_FLUID_DILUENT	Volume Diluent Fluid Pump	Diluent volume		Volume of diluent (solvent) for drug use
28840	2	MDC_TIME_PD_DELAY_INTERDOSES	Duration Interdoses Fluid Pump	Interval between dose		The interval between doses in a multi
28852	2	MDC_RATE_DOSE	Flow Mass, Delivery, Normalized	Dose rate		The dose rate normalized to body mass
28856	2	MDC_RATE_DOSE_BSA	Flow Mass, Delivery, Normalized	Dose rate BSA		The dose rate normalized to body surface
28880	2	MDC_NUM_DOSE_CURR	Number Doses Fluid Pump	Current dose number		The number of the current dose in a r
28884	2	MDC_NUM_DOSE_REMAIN	Number Doses, Remaining Fluid Pump	Number of doses remaining		The number of doses in a multidosing
28868	2	MDC_RATE_DOSE_GRANT_PER_HR	Rate PCA, GoodDemand Device	Dose grants per hour		The number of granted requests for br
28872	2	MDC_RATE_DOSE_REQ_PER_HR	Rate PCA, Requests Device	Dose requests per hour		The number of granted requests for br

Back

Cancel Done Next

CODE10:

CF_CODE10:

Save

Cancel

Vendor reviews mapped term

Entry Information

Group information

Group:

Vendor parameter information

Description:

DisplayName:

Vendor_UOM:

Vendor_Status:

Vendor_Sort:

Vendor_VMD:

Vendor_Comment:

Term information

REFID:

is uncertain REFID

PART:

CODE10:

CF_CODE10:

Units / Unit Groups

UOM_MDC_REFID	UOM_UCUM
---------------	----------

Enumerations / Enumeration Groups

Enum_Value

Vendor select a unit (g/min) for the term

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Entry Information

Group information

Group:

Vendor parameter information

Description: Dr

DisplayName: Dc

Vendor_UOM: g/

Vendor_Status: DI

Vendor_Sort: 8

Vendor_VMD: MI

Vendor_Comment:

Term information

REFID: MI

is uncertain REFID

PART: 2

CODE10: 26

CF_CODE10: 15

Units / Unit Groups

Unit Selection Dialog

Unit Selection Unit Group Selection

Search:

<input type="checkbox"/>	Dimension	Dim	DimC	Unit_of_Measure	Symbol	UOM_UCUM	UOM_MDC	UCODE10	Discuss
<input type="checkbox"/>	Volume per minute per body	L3T-1L-2	LT-1	A magnitude lit	l min-1 m-2	L/min/m2	MDC_DIM_X_L_PER_MIN_I	2848	
<input type="checkbox"/>	Volume per minute per body	L3T-1L-2	LT-1		ml min-1 m-	mL/min/m2	MDC_DIM_MILLI_L_PER_M	2866	
<input type="checkbox"/>	Volume per minute per body	L2T-1	L2T-1	square A magnitude	m2 s-1	m2/s	MDC_DIM_SQ_X_M_PER_S	2880	
<input type="checkbox"/>	L3T-1 (volume flow rate)	L3T-1	L3T-1	cubic A magnitude	m3 min-1	m3/min	MDC_DIM_CUBIC_X_M_PE	2944	
<input type="checkbox"/>	L3T-1 (volume flow rate)	L3T-1	L3T-1	A magnitude lit	l min-1	L/min	MDC_DIM_X_L_PER_MIN	3072	
<input type="checkbox"/>	L3T-1 (volume flow rate)	L3T-1	L3T-1		ml min-1	mL/min	MDC_DIM_MILLI_L_PER_M	3090	
<input type="checkbox"/>	L3T-1 (volume flow rate)	L3T-1	L3T-1		ul min-1	uL/min	MDC_DIM_MICRO_L_PER	3091	
<input type="checkbox"/>	L3T-1 (volume flow rate)	L3T-1	L3T-1	A magnitude dr	drops min-1	[drp]/min	MDC_DIM_X_DROPS_PER	0	
<input type="checkbox"/>	L2M-1T (permeability)	L2M-1T	L2M-1T	A magnitude lit	l min-1 mm	L/min/mm[Hg]	MDC_DIM_X_L_PER_MIN_I	3264	
<input type="checkbox"/>	MT-1 (mass flow rate)	MT-1	MT-1	A magnitude gr	g min-1	g/min	MDC_DIM_X_G_PER_MIN	3328	
<input type="checkbox"/>	MT-1 (mass flow rate)	MT-1	MT-1			mg/min	MDC_DIM_MILLI_G_PER_M	3346	
<input type="checkbox"/>	MT-1 (mass flow rate)	MT-1	MT-1			ug/min	MDC_DIM_MICRO_G_PER	3347	
<input type="checkbox"/>	MT-1 (mass flow rate)	MT-1	MT-1			ng/min	MDC_DIM_NANO_G_PER_I	3348	
<input type="checkbox"/>	- mass dose rate per body wei	MT-1M-1	T-1	A magnitude gr	g kg-1 m-1	g/kg/min	MDC_DIM_X_G_PER_KG_F	3456	
<input type="checkbox"/>	- mass dose rate per body wei	MT-1M-1	T-1			mg/kg/min	MDC_DIM_MILLI_G_PER_M	3474	
<input type="checkbox"/>	- mass dose rate per body wei	MT-1M-1	T-1			ug/kg/min	MDC_DIM_MICRO_G_PER	3475	
<input type="checkbox"/>	- mass dose rate per body wei	MT-1M-1	T-1			ng/kg/min	MDC_DIM_NANO_G_PER_I	3476	
<input type="checkbox"/>	- mass dose rate per body wei	MT-1M-1	T-1	A magnitude gr	g lb-1 min-1	g/[lb_av]/min	MDC_DIM_X_G_PER_LB_F	6784	
<input type="checkbox"/>	- mass dose rate per body wei	MT-1M-1	T-1			mg/[lb_av]/min	MDC_DIM_MILLI_G_PER_L	6802	

Vendor review and save mapped term

Entry Information

Group information

Group *: INFUS

Vendor parameter information

Description *: Drug delivery rate
 DisplayName *: DgDeliv
 Vendor_UOM *: g/min
 Vendor_Status: DN
 Vendor_Sort: 8
 Vendor_VMD *: MDC_DEV_P
 Vendor_Comment:

Term information

REFID *: MDC_RATE_...
 is uncertain REFID
 PART: 2
 CODE10: 26852
 CF_CODE10: 157924

Units / Unit Groups

Units / Unit Groups	
UOM_MDC_REFID	UOM_UCUM
MDC_DIM_X_G_PER_MIN	g/min

Add New Entry

Group: INFUS
REFID: MDC_RATE_DOSE
PART: 2
CODE10: 26852
UCODE10:
CF_UCODE10:
DisplayName: DgDeliv
Vendor_UOM: g/min
Vendor_Status: DN
Vendor_Sort: 8
Description: Drug delivery rate
Vendor_VMD: MDC_DEV_PUMP_INFUS_VMD

UOM_MDC_REFID	UOM_UCUM
MDC_DIM_X_G_PER_MIN	g/min

Enum_Values:

Vendor_Comment
Vendor_Discussion
General_Discussion

Save Cancel

Rosetta is updated with mapped term

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Home | My Rosetta | Rosetta | hRTM | Units | Enumerations | Groups | X73

Entry Information

Group information
Group *: INFUS

Vendor parameter information
Description *: Drug delivery rate
DisplayName *: DgDeliv
Vendor_UOM *: g/min
Vendor_Status: DN
Vendor_Sort: 8
Vendor_VMD *: MDC_DEV_PUMP_INFUS_VMD
Vendor_Comment:

Units / Unit Groups
Add Remove
UOM_MDC_REFID UOM_UCUM
MDC_DIM_X_G_PER_MIN g/min

Enumerations / Enumeration Groups

Term information
REFID *: MDC_RATE_DOSE
 is uncertain REFID
PART: 2
CODE10: 26852
CF_CODE10: 157924

Message
Rosetta Table has been successfully updated!
OK

Save Cancel

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Mapped term is now in Vendor Rosetta

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IEEE Rosetta Table

[Edit](#) [New](#) [Deprecate](#) [Vendor Discussion](#) [General Discussion](#) [Download Table](#)

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	UOM_UCUM
FUSED	MDC_ECG_JUNC_RHY	2	16391	147463	dfdfs	dsdsf	dsdsf		
CVS_HEMO_IBP_ABI	<i>MDCX_Test</i>	0			daff	dfsdfs	dfsdfs	MDC_DIM_DIMLESS	51
BLD_CHM_HCT_ART	<i>MDC_NOTI_PDMO</i>	1	3353	68889	fsadf	sadf	sdf		
BLD_CHEM_TEMP	MDC_IDC_SET_LEADCHNL	11	9354	730250	sdf	sdf	dsf		
TEMP	<i>MDCX_W_HEATER_POWEI</i>	0			Warmer Heater Power	HtrPwr	%	MDC_DIM_PERCENT	54
INFUS	MDC_RATE_DOSE	2	28852	157924	Drug delivery rate	DgDeliv	g/s, g/min	MDC_DIM_X_G_PER_MIN	33
INFUS	<i>MDC_RATE_DOSE</i>	2	28852	157924	Drug delivery rate	DgDeliv	g/min		



Page 1 of 1 Displaying terms 1 - 7 of 7

Group: INFUS REFID: MDC_ECG_ELEC_POTL_V1 PART: 2 CODE10: 259 UCODE10: CF_UCODE10: DisplayName: dfdfs Vendor_UOM: dsfdf Vendor_Status: Vendor_Sort: Description: dfd Vendor_VMD: fdsafds UOM_MDC_REFIDUOM_UCUM: Enum_Values:	Vendor_Comment Vendor_Discussion General_Discussion
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SDO lists mapped term in Rosetta

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Home Vendor Rosetta Rosetta hRTM Units Enumerations Groups Vendors X73 Term Approval

Rosetta Table

General Discussion Download Table Search: MDC_RATE X Select Rosetta version: Current

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	UOM_UCUM
INFUS	MDC_RATE_INFUS	2	26712	157784	Infusion Rate	InRate			
INFUS	MDC_RATE_DOSE	2	26852	157924	Dosage			MDC_DIM_X_G_PER_SEC	MDC_DIM_X_G_PER_MIN
INFUS	MDC_RATE_DOSE	2	26852	157924	Drug delivery rate (substance)			MDC_DIM_MILLI_L_PER_MIN	MDC_DIM_X_G_PER_MIN
INFUS	MDC_RATE_DOSE	2	26852	157924	Drug delivery rate	DgDeliv	g/s, g/min	MDC_DIM_X_G_PER_MIN	MDC_DIM_X_G_PER_MIN

Page 1 of 1 Displaying terms 1 - 4 of 4

Group: INFUS Vendor_Comment
 REFID: MDC_RATE_DOSE Vendor_Discussion
 PART: 2 General_Discussion
 CODE10: 26852
 UCODE10: 3328
 CF_UCODE10: 134400
 DisplayName: DgDeliv
 Vendor_UOM: g/s, g/min
 Vendor_Status: DN
 Vendor_Sort: 6
 Description: Drug delivery rate
 Vendor_VHD: MDC_DEV_PUMP_INFUS_VMD
 UOM_MDC_REFID: UOM_UCUM
 MDC_DIM_X_G_PER_MIN: g/s, g/min

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SDO reviews term for approval

Mapped terms New terms Approved terms

Proposed Terms Table

Approve mapping SDO Discussion Search

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	U
BLD_CHM_HCT_ART	MDC_MDC_VMO_METRIC_1	1	9	65545	fsadf	sadf	sdf		
BLD_CHEM_TEMP	MDC_IDC_SET_LEADCHNL	11	9354	730250	sdf	sdf	dsf		
INFUS	MDC_RATE_DOSE	2	26852	157924	Drug delivery rate	DgDeliv	g/s, g/min	MDC_DIM_X_G_PER_MIN	33

Page 1 of 1 Displaying terms 1 - 3 of 3

REFID: MDC_RATE_DOSE
 PART: 2 Vendor_Discussion
 CODE10: 26852 General_Discussion
 UCODE10: 3328
 CF_UCODE10: 134400
 Displayname: DgDeliv
 Vendor_UOM: g/s, g/min
 Vendor_Status: DN
 Vendor_Sort: 8
 Description: Drug delivery rate
 Vendor_VMD: MDC_DEV_PUMP_INFUS_VMD
 UOM_MDC_REFID UOM_UCUM
 MDC_DIM_X_G_PER_MIN g/min
 Enum_Values:

SDO approves mapped term

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Home Vendor Rosetta Rosetta hRTM Units Enumerations Groups Vendors **X73** Term Approval

Mapped terms New terms Approved terms

Proposed Terms Table

Approve mapping SDO Discussion Search

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	UOM_UCUM
BLD_CHM_HCT_ART	MDC_MDC_VMO_METRIC	1	9	65545	fsadf	sadf	sdf		
BLD_CHEM_TEMP	MDC_IDC_SET_LEADCHNL	11	9354	730250	sdf	sdf	dsf		
INFUS	MDC_RATE_DOSE	2	26852	157924	Drug delivery rate	DgDeliv	g/s, g/min	MDC_DIM_X_G_PER_MIN	33

Page 1 of 1

Displaying terms 1 - 3 of 3

Confirm

Are you sure you want to approve the mapping of "MDC_RATE_DOSE"

Group: INFUS
REFID: MDC_RATE_DOSE
PART: 2
CODE10: 26852
UCODE10: 3328
CF_UCODE10: 134400
Displayname: DgDeliv
Vendor_UOM: g/s, g/min
Vendor_Status: DN
Vendor_Sort: 8
Description: Drug delivery rate
Vendor_VMD: MDC_DEV_PUMP_INFUS_VMD
UOM_MDC_REFID UOM_UCUM
MDC_DIM_X_G_PER_MIN

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hRTM updated with mapped term

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Mapped terms | New terms | Approved terms

Proposed Terms Table

Approve mapping SDO Discussion Search

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	U
BLD_CHM_HCT_ART	MDC_MDC_VMO_METRIC_1	1	9	65545	fsdf	sdf	sdf		
BLD_CHEM_TEMP	MDC_OC_SET_LEADCHNL	11	9354	730250	sdf	sdf	dsf		

Page 1 of 1 | Displaying terms 1 - 2 of 2

Mapping approved

The mapping has been approved and the harmonized Rosetta has been updated!

Group: INFUS
REFID: MDC_RATE_DOSE
PART: 2
CODE10: 26652
UCODE10: 3328
CF_UCODE10: 134400
DisplayName: DgDeliv
Vendor_UOM: g/s, g/min
Vendor_Status: DN
Vendor_Sort: 8
Description: Drug delivery rate
Vendor_VHD: MDC_DEV_PUMP_INFUS_VMD
UOM_MDC_REFID: UOM_UCUM
MDC_DIM_X_G_PER_MIN: g/min
From Value:

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SOD lists mapped term in hRTM

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Download Table Search MDC_RATE X

Group	REFID	CF_CODE10	DIM	UOM_MDC	UOM_UCUM	CF_UCODE	Enum_Values	External
INFUS	MDC_RATE_DOSE	157924	[U]T-1L-2	MDC_DIM_MEGA_INTL_UNIT_PER_M	m[U]/m2/d	mol/m	269348 0 2t	
INFUS	MDC_RATE_INFUS	157784						

Page 1 of 1 Displaying terms 1 - 2 of 2

Group: INFUS
REFID: MDC_RATE_DOSE
PART:
CODE10:
CF_CODE10: 157924
Vendor VHD:
MDC_DEV_PUMP_INFUS_VMD

Units:

UOM_MDC_REFID	UOM_UCUM	DIM	CF_UCODE10
MDC_DIM_MEGA_INTL_UNIT_PER_M_SQ_PER_DAY	m[U]/m2/d	[U]T-1L-2	269348
MDC_DIM_X_MOLE_PER_M_SQ_PER_DAY	mol/m2/d	NT-1L-2	0
MDC_DIM_MILLI_G_PER_KG_PER_DAY	mg/kg/d	MT-1M-1	265682
MDC_DIM_NANO_G_PER_LB_PER_HR	ng/[lb_av]/h	MT-1M-1	268916
MDC_DIM_X_INTL_UNIT_PER_KG_PER_MIN	[U]/kg/min	[U]T-1M-1	267936
MDC_DIM_X_MOLE_PER_MIN	mol/min	NT-1	267136
MDC_DIM_MILLI_EQUIV_PER_MIN	meq/min	NT-1	267282
MDC_DIM_X_L_PER_HR	L/h	L3T-1	265248
MDC_DIM_MILLI_INTL_UNIT_PER_HR	m[U]/h	[U]T-1	267858
MDC_DIM_X_EQUIV_PER_KG_PER_DAY	eq/kg/d	NT-1M-1	267584
MDC_DIM_MILLI_MOLE_PER_MIN	mmol/min	NT-1	267154
MDC_DIM_X_G_PER_KG_PER_MIN	g/kg/min	MT-1M-1	265600
MDC_DIM_MILLI_INTL_UNIT_PER_KG_PER_DAY	m[U]/kg/d	[U]T-1M-1	268018

RTMMS: Scenario 2 DEMO

- **Scenario 2:** Vendor IEEE proposes a new term to the X73 nomenclature, mapping was not possible.
 - **Group:** GASDLV
 - **DisplayName:** SPO-RR
 - **Vendor_UOM:** breaths/min
 - **Vendor_Status:** GDN
 - **Vendor_Sort:** 23
 - **Description:** Spontaneous Respiration Rate
 - **Vendor_VMD:** MDC_DEV_ANALY_AWAY_MULTI_PARAM_VMD

Vendor proposes a new term

Entry Information

Group information

Group: GASDLV

Vendor parameter information

Description *: Spontaneous Respiration Rate

DisplayName *: SPO-RR

Vendor UOM *:

Units / Unit Groups

+ Add - Remove

UOM_MDC_REFID

UOM_UCUM

Term Selection Wizard

REFIDs are defined in ISO/IEEE 11073 Nomenclature Standard. New REFIDs starting with MDCX_ can be proposed.

Select REFID from ISO/IEEE 11073 Nomenclature Standard (click "next")

Type a known REFID

Search REFID...

Propose new REFID starting with MDCX_

MDCX_RESP_RATE_SPNT

Back

Cancel Done Next

Vendor review and save term info

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Home | My Rosetta | Rosetta | hRTM | Units | Enumerations | Groups | X73

Entry Information

Group information

Group *:

Vendor parameter information

Description *:

DisplayName *:

Vendor_UOM *:

Vendor_Status:

Vendor_Sort:

Vendor_VMD *:

Vendor_Comment:

Term information

REFID *:

is uncertain REFID

PART:

CODE10:

CF_CODE10:

Units / Unit Groups

+ Add - Remove

UOM_MDC_REFID	UOM_UCUM
---------------	----------

Add New Entry

<p>Group: GASDLV</p> <p>REFID: MDCX_RESP_RATE_SPNT</p> <p>PART:</p> <p>CODE10:</p> <p>UCODE10:</p> <p>CF_UCODE10:</p> <p>DisplayName: SPO-RR</p> <p>Vendor_UOM: breaths/min</p> <p>Vendor_Status:</p> <p>Vendor_Sort: 23</p> <p>Description: Spontaneous Respiration Rate</p> <p>Vendor_VMD:</p> <p>UOM_MDC_REFIDUOM_UCUM</p> <p>Enum_Values:</p>	<p>Vendor_Comment</p> <p>Vendor_Discussion</p> <p>General_Discussion</p>
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Rosetta table is updated with new proposed term

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Home | My Rosetta | Rosetta | hRTM | Units | Enumerations | Groups | X73

Entry Information

Group information
Group *: GASDLV

Vendor parameter information
Description *: Spontaneous Respiration Rate
DisplayName *: SPO-RR
Vendor_UOM *: breaths/min
Vendor_Status: Select status...
Vendor_Sort:
Vendor_VMD *: MDC_DEV_ANALY_AWAY_MULTI_PARAM_VMD
Vendor_Comment:

Units / Unit Groups
Add Remove
UOM_MDC_REFID UOM_UCUM

Enumerations / Enumeration Groups
Add Remove
Enum_Value

Term information
REFID *: MDCX_RESP_RATE_SPNT
 is uncertain REFID
PART:
CODE10:
CF_CODE10:

Message
Rosetta Table has been successfully updated!
OK

Save Cancel

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New Term added to Rosetta

RTM Management Service
In partnership with NIST

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Home My Rosetta Rosetta hRTM Units Enumerations Groups X73

IEEE Rosetta Table

[Edit](#)
[New](#)
[Deprecate](#)
[Vendor Discussion](#)
[General Discussion](#)
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Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	Ut
FUSED	MDC_ECG_JUNC_RHY	2	16391	147463	dfdfs	dsdsf	dsdsf		
CVS_HEMO_IBP_ABI	<i>MDCX_Test</i>	0			daff	dfsdsf	dfsdfs	MDC_DIM_DIMLESS	51
BLD_CHM_HCT_ART	<i>MDC_NOTI_PDMO</i>	1	3353	68889	fsadf	sadf	sdf		
BLD_CHEM_TEMP	MDC_IDC_SET_LEADCHNL	11	9354	730250	sdf	sdf	dsf		
TEMP	<i>MDCX_W_HEATER_POWE</i>	0			Warmer Heater Power	HtrPwr	%	MDC_DIM_PERCENT	54
INFUS	MDC_RATE_DOSE	2	26852	157924	Drug delivery rate	DgDeliv	g/s, g/min	MDC_DIM_X_G_PER_MIN	33
INFUS	<i>MDC_RATE_DOSE</i>	2	26852	157924	Drug delivery rate	DgDeliv	g/min		
GASDLV	<i>MDCX_RESP_RATE_SPNT</i>	0			Spontaneous Respiration Rate	SPO-RR	breaths/min		

Displaying terms 1 - 8 of 8

Please select a row to see additional details

SDO Review new proposed term

Please select vendor id from the list:

IEEE Rosetta Table

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	U
GASDLV	MDCX_RESP_RATE_SPNT	0			Spontaneous Respiration Rate	SPO-RR	breaths/min		

Page 1 of 1 | Displaying terms 1 - 1 of 1

Group: GASDLV
REFID: MDCX_RESP_RATE_SPNT
PART: 0
CODE10:
UCODE10:
CF_UCODE10:
DisplayName: SPO-RR
Vendor_UOM: breaths/min
Vendor_Status:
Vendor_Sort:
Description: Spontaneous Respiration Rate
Vendor_VMD: MDC_DEV_ANALY_AWAY_MULTI_PARAM_VMD
UOM_MDC_REFIDUOM_UCUM
Enum_Values:

Vendor_Comment
Vendor_Discussion
General_Discussion

SDO register new term

Mapped terms **New terms** Approved terms

Proposed Terms Table

Register Assign REFID SDO Discussion

Search MDCX_RESP_RA

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	U
GASDLV	MDCX_RESP_RATE_SPNT	0			Spontaneous Respiration Rate	SPO-RR	breaths/min		

Page 1 of 1

Group: GASDLV
REFID: MDCX_RESP_RATE_SPNT
PART: 0
CODE10:
UCODE10:
CF_UCODE10:
DisplayName: SPO-RR
Vendor_UOM: breaths/min
Vendor_Status:
Vendor_Sort:
Description: Spontaneous Respiration Rate
Vendor_VMD: MDC_DEV_ANALY_AWAY_MULTI_PARAM_VMD
UOM_MDC_REFIDUOM_UCUM
Enum_Values:

Register Proposed Term Dialog

New REFID:

Block:

PART:

CODE10:

Displaying terms 1 - 1 of 1

X73 Nomenclature is updated with new term

RTM Management Service
In partnership with NIST

User Guide | Preferences | Logout sdo

Home | Vendor Rosetta | Rosetta | hRTM | Units | Enumerations | Groups | Vendors | X73 | Term Approval

Mapped terms | **New terms** | Approved terms

Proposed Terms Table

Search: MDCX_RESP

Group	REFID	PART	CODE10	CF_CODE10	Description	DisplayName	Vendor_UOM	UOM_MDC	Ut
No topics to display									

Page 1 of 1

Group: RESP_
REFID: MDCX_RESP_RATE_SPON
PART: 0
CODE10:
UCODE10: 2784
CF_UCODE10:
DisplayName: Spon Rate
Vendor_UOM: bpm
Vendor_Status: 5
Vendor_Sort: 1430
Description: Spontaneous breath rate
Vendor_VMD:

UOM_MDC_REFID	UOM_UCUM
MDC_DIM_RESP_PER_MIN	/min

Form Values:

Message

Operation successful! The term has been add to the X73 nomenclature

Next Steps

- John add release info!!

Issues

- IEEE copyright issues
 - Against NIST Policy to maintain proprietary data
- Integration of LOINC Terms
 - We have no documentation on LOINC.
 - Mapping must be provided.
- Waiting for SNOMED mapped terms.

Test Case Authoring and Management Tool (TCAMT)

*National Institute of Standards and Technology
January, 2012*

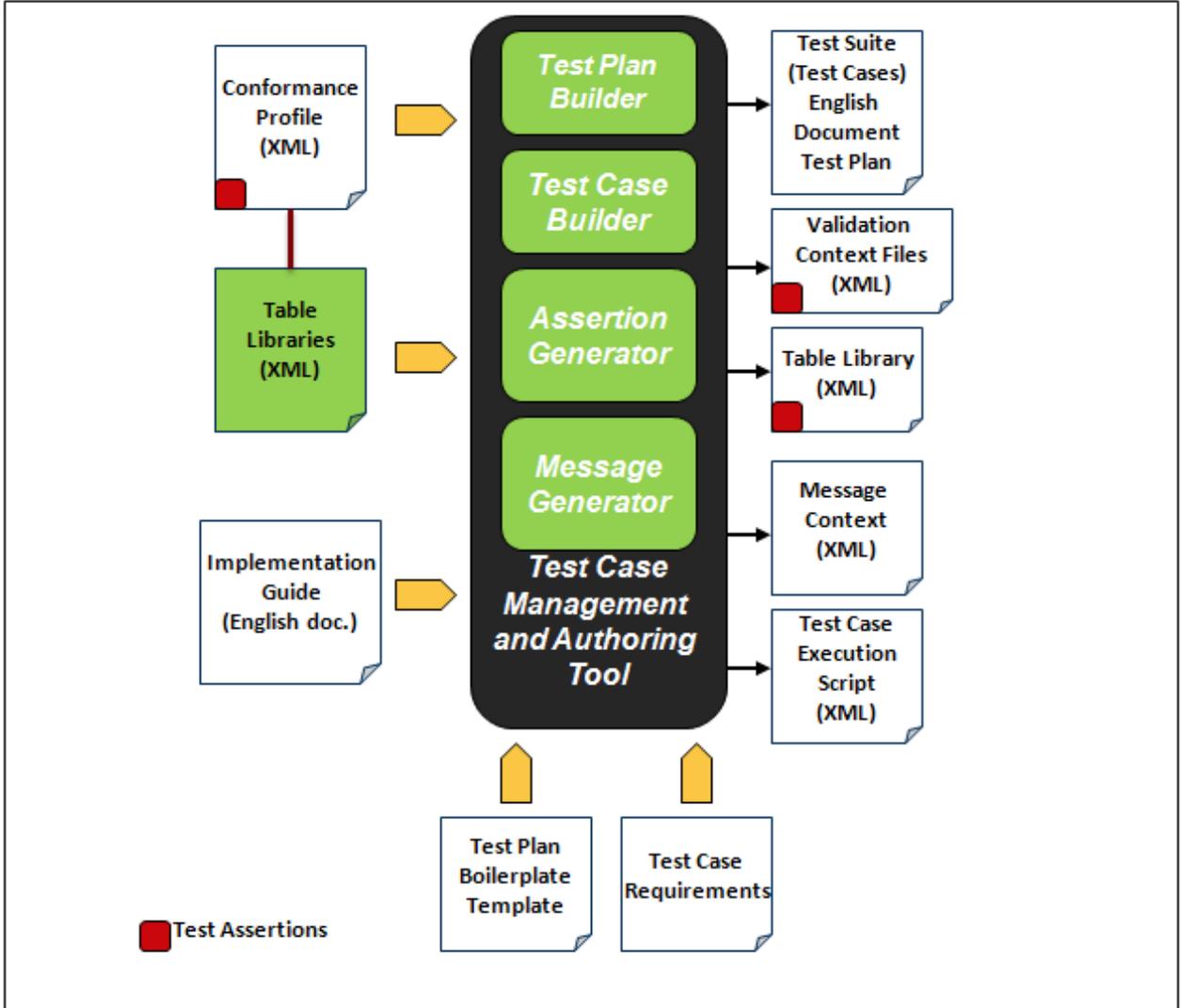
Test Case Authoring and Management Tool Overview

- Constructs Test Case Library for authoring the Test Cases
 - Test Artifacts: Actor, Message, Interaction, and Transaction
 - Embedded Assertion Generator: Message level, Interaction level, and Transaction level Assertions
 - Imports additional Test Artifact: Conformance Profile and Table Library
- Build Test Suite
 - Creates test plan, test cases, test steps
- Creates executable files
 - Generation context, Validation context
 - Test Engine script
- Generates English Document Test Plan
- Web Application and Graphical User interface

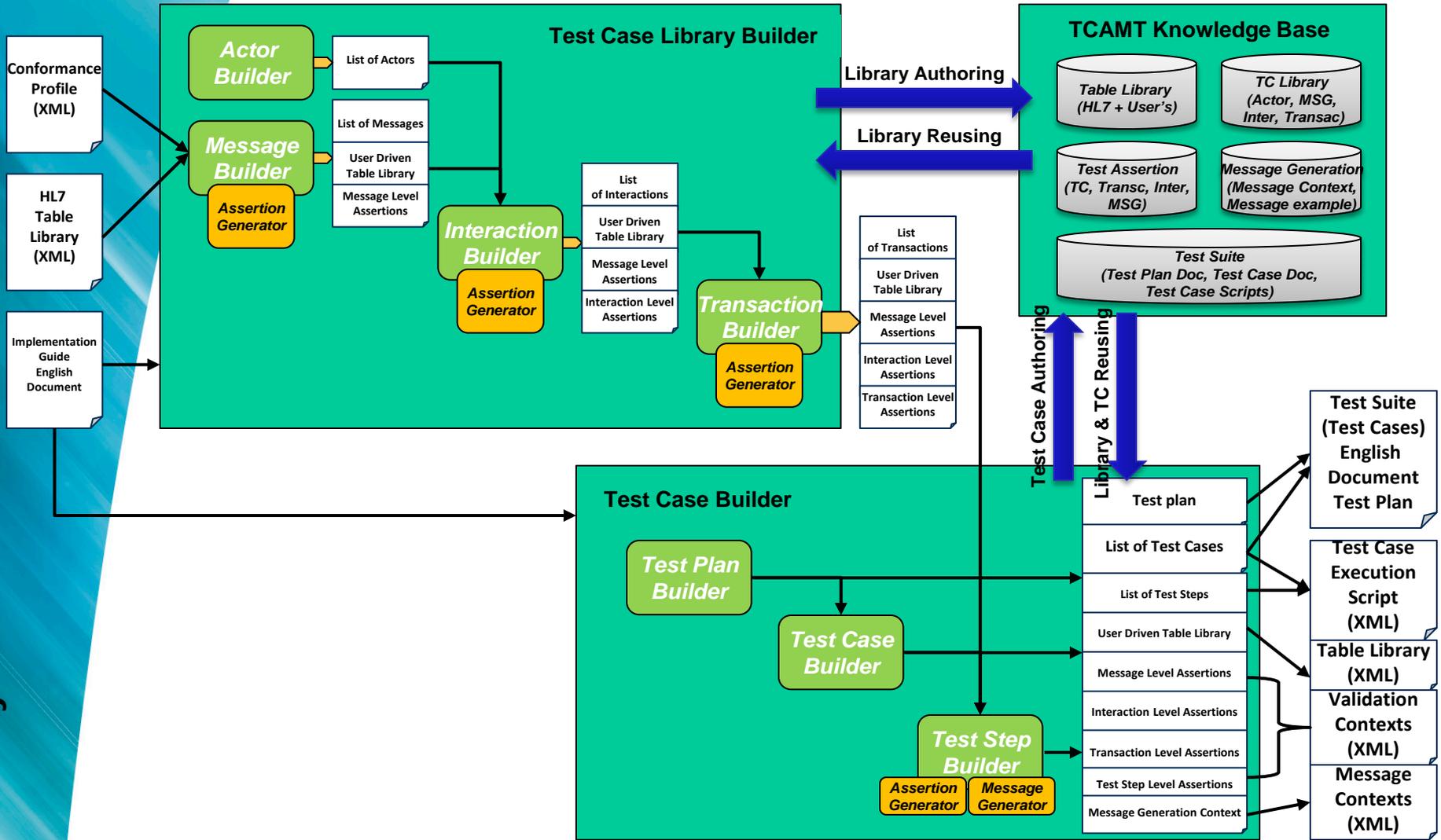
Test Artifacts definitions

- Message
 - A message is an object of communication. Conceptually, it is a kind of event, not actual (real) message between real actor. It may indicate its schema such as XML schema, conformance profile in order to define its syntax and structure.
- Interaction
 - An interaction represents to transfer information (message) between two or more actors. It generally consists of initiating Actor, message, and responding Actor.
- Transaction
 - A transaction is a sequence of Interactions between two or more actors, that have a specific business meaning and are supposed to occur together.
 - A transaction is a sequence of one or more interactions that have a specific business meaning and are supposed to occur together.

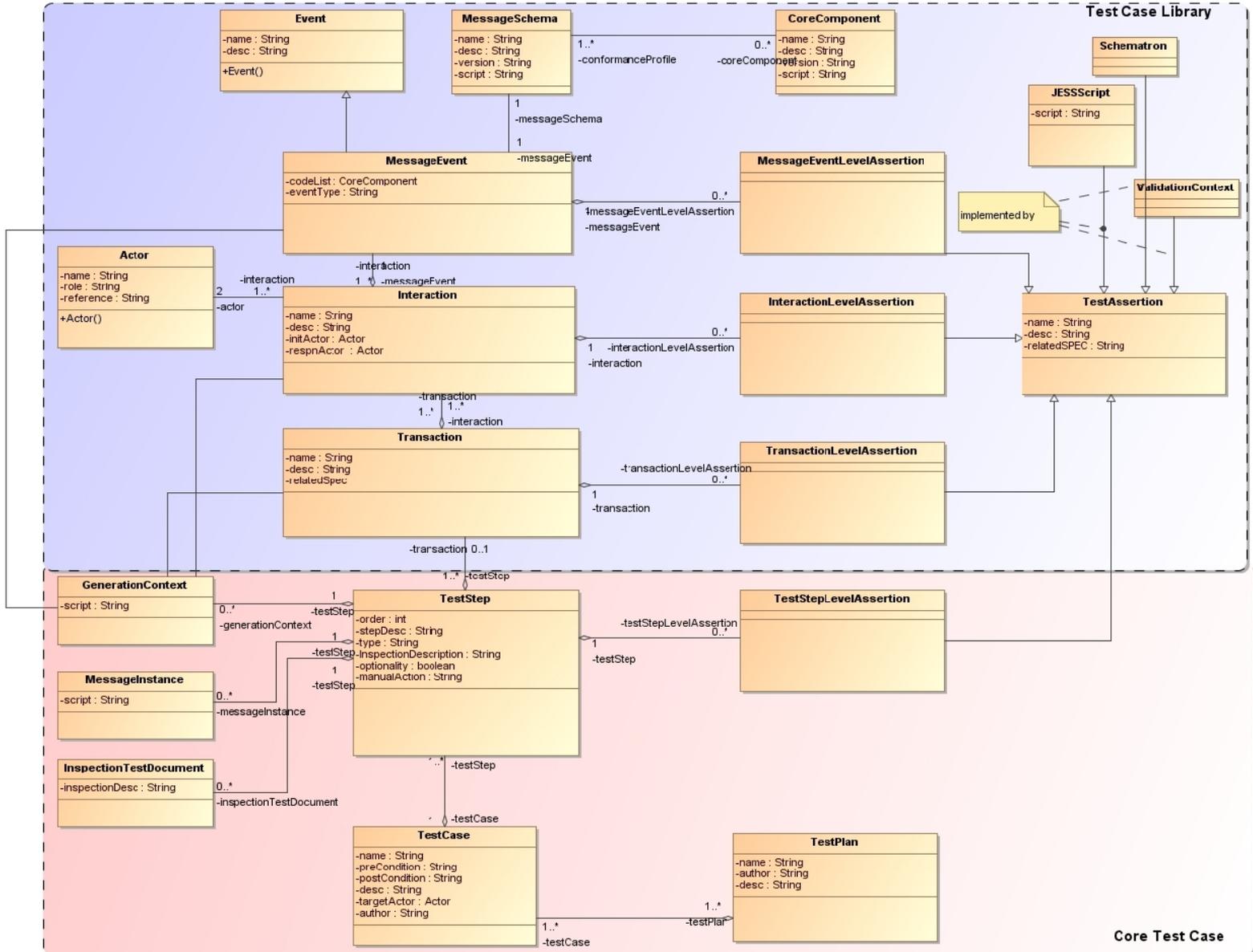
TCAMT High Level



TCAMT



TCAMT Model



Core Test Case

TCAMT Status

- Developed Functional specification for the TCAMT-Assertion generator.
- Developed TCAMT-Assertion Generator User Requirement document.
- User interface design/ wireframes
- TCAMT initial prototype developed
- TCAMT Initial testing performed
- Assertion Generator core logic and base UI developed
- Assertion Generator: Tree Table model constructed for Conformance Profile
- Assertion Generator: Data Value Assertion, Conditional Assertion

(Ongoing)

- TCAMT and Assertion Generator: User, version, life-cycle manager
- Assertion Generator: Correlation Assertion
- TCAMT: Test Plan Manager and view
- TCAMT: Test Case Manager and view

TCAMT Next Steps

- Release working version for TCAMT and Assertion Generator
- Create Test Plan for PIX-PDQ and IHE-PCD
- Continue TCAMT development and enhancements
- Demo/Promote for use in other domains
 - IHE, MU, etc.
- Journal Paper for Test Case Generation