

GE Discovery CT Series

Revision History

Date / Version	Author	Comments
5/16/2012	Steve Moore	Discovery CT750_HD – Software Release 08MW39.4 DOC0500644r3_CS
12/26/2012	Steve Moore	<ul style="list-style-type: none"> • Discovery CT750 HD - Software Release 11MW44.7 DOC1053442 Rev 1 • Discovery CT750 HD - Software Release 10MW25.6 DOC0793025, REV 5 • Discovery CT750 HD - Software Release 09MW29.14 DOC0636565r7_CS DOC0793025, REV 5 • Discovery CT590 RT - Software Release 11BW04.8 DOC0860282 Rev 3 • Discovery CT590 RT - Software Release 10BW06.5 DOC0636565r7_CS • Discovery CT590 RT - Software Release 09BW35.11 DOC0636565r4_CS

Introduction

This document lists private elements for GE Discovery CT systems. A separate table is maintained for each collection of private elements indexed by the Private Creator ID. Each table contains a column for each of the software versions listed below. The intersection of a row (private element) and a column (software version) is a cell with a symbol indicating if that private element is produced by that software version.

*: Element is listed in the document

X1: Element is listed with a note: No longer supported

If the cell is empty, the DICOM conformance statement for that software version does not mention that private element.

All data were determined by reading DICOM conformance statements.

Scanner/Software Versions

Link Name / GE website	Model	Software Version	Document
Discovery CT750_HD – Software Release 08MW39.4 DOC0500644r3_CS	Discovery CT750 HD	08MW39.4	DOC0500644r3
Discovery CT750 HD - Software Release 11MW44.7 DOC1053442 Rev 1	Discovery CT750 HD	11MW44.7	DOC1053442
Discovery CT750 HD - Software Release 10MW25.6 DOC0793025, REV 5	Discovery CT750 HD	10MW25.6	DOC0793025
Discovery CT590 RT - Software Release 10BW06.5 DOC0636565r7_CS	Discovery CT590 RT	10BW06.5	
Discovery CT750 HD - Software Release 09MW29.14 DOC0636565r7_CS	Discovery CT750 HD	09MW29.14	DOC0636565
Discovery CT590 RT - Software Release 11BW04.8 DOC0860282 Rev 3	Discovery CT590 RT	11BW04.8	DOC0860282
Discovery CT590 RT - Software Release 09BW35.11 DOC0636565r4_CS	Discovery CT590 RT	09BW35.11	DOC0636565

GEMS_IDEN_01

				Discovery CT750_HD – Software Release 00MW20.4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.14	CT590 RT - Software Release 11DW04.0	CT590 RT - Software Release 00DW25.11
Description	Tag	VR	VM						
GEHC Private Creator ID	0x00090010	LO	1	*	*	*	*	*	*
Full fidelity	0x00091001	LO	1	*	*	*	*	*	*
Suite id	0x00091002	SH	1	*	*	*	*	*	*
Product ID	0x00091004	SH	1	*	*	*	*	*	*
Image Actual Date	0x00091027	SL	1	*	*	*	*	*	*
Equipment UID	0x000910e3	UI	1	*	*	*	*	*	*

GEMS_ACQU_01

				Discovery CT750_HD - Software Release 08MW20_4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25_6	CT750 HD - Software Release 00MW20_14	CT590 RT - Software Release 11PM04_9	CT590 RT - Software Release 00PM25_11
GEHC Private Creator ID	0x00190010	LO	1	*	*	*	*	*	*
Number of cells I in Detector	0x00191002	SL	1	*	*	*	*	*	*
Cell number at Theta	0x00191003	DS	1	*	*	*	*	*	*
Cell spacing	0x00191004	DS	1	*	*	*	*	*	*
Horiz. Frame of ref.	0x0019100f	DS	1	*	*	*	*	*	*
Series Contrast	0x00191011	SS	1	*	*	*	*	*	*
First scan ras	0x00191018	LO	1	*	*	*	*	*	*
Last scan ras	0x0019101a	LO	1	*	*	*	*	*	*
Table speed	0x00191023	DS	1	*	*	*	*	*	*
Mid scan time	0x00191024	DS	1	*	*	*	*	*	*
Mid scan flag	0x00191025	SS	1	*	*	*	*	*	*
Degrees of azimuth	0x00191026	SL	1	*	*	*	*	*	*
Gantry period	0x00191027	DS	1	*	*	*	*	*	*
Number of triggers	0x0019102c	SL	1	*	*	*	*	*	*
Angle of first view	0x0019102e	DS	1	*	*	*	*	*	*
Trigger frequency	0x0019102f	DS	1	*	*	*	*	*	*
Scan FOV type	0x00191039	SS	1	*	*	*	*	*	*
Segment number	0x00191042	SS	1	*	*	*	*	*	*
Total segments requested	0x00191043	SS	1	*	*	*	*	*	*
View compression factor	0x00191047	SS	1	*	*	*	*	*	*
Recon post proc. Flag	0x00191052	SS	1	*	*	*	*	*	*
Dependent on #views processed	0x0019106a	SS	1	*	*	*	*	*	*

GEMS_REL_01

				Discovery CT750_HD - Software Release 09MW20.4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.14	CT590 RT - Software Release 11PM04.8	CT590 RT - Software Release 00PM25.11
GEHC Private Creator ID	0x00210010	LO	1	*	*	*	*	*	*
Series from which Prescribed	0x00211003	SS	1	*	*	*	*	*	*
Series Prescribed From	0x00211035	SS	1	*	*	*	*	*	*
Image Prescribed From	0x00211036	SS	1	*	*	*	*	*	*
Biopsy position	0x00211091	SS	1	*	*	*	*	*	*
Biopsy T location	0x00211092	FL	1	*	*	*	*	*	*
Biopsy ref location	0x00211093	FL	1	*	*	*	*	*	*

GEMS_STDY_01

				Discovery CT750_HD - Software Release 00MW20.4	CT750 HD / 11MW44.7	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.1.4	CT590 RT - Software Release 11DW04.9	CT590 RT - Software Release 00DW25.1.1
GEHC Private Creator ID	0x00230010	LO	1	*	*	*	*	*	*
Start time(secs) in first axial	0x00231070	FD	1	*	*	*	*	*	*

GEMS_IMAG_01

				Discovery CT750_HD – Software Release 08MW20.4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.14	CT590 RT - Software Release 11PW04.8	CT590 RT - Software Release 00PW25.11
GEHC Private Creator ID	0x00270010	LO	1	*	*	*	*	*	*
Scout Type	0x00271010	SS	1	*	*	*	*	*	*
Vma mamp	0x0027101c	SL	1	*	*	*	*	*	*
Vma mod	0x0027101e	SL	1	*	*	*	*	*	*
(L1) GE Noise Index * 10 (L2) Vma clip	0x0027101f	SL	1	(L2)	(L1)	(L1)	(L1)	(L1)	(L1)
Smart scan ON/OFF flag	0x00271020	SS	1	*	*	*	*	*	*
Plane Type	0x00271035	SS	1	*	*	*	*	*	*
Center R coord of plane image	0x00271042	FL	1	*	*	*	*	*	*
Center A coord of plane image	0x00271043	FL	1	*	*	*	*	*	*
Center S coord of plane image	0x00271044	FL	1	*	*	*	*	*	*
Normal R coord	0x00271045	FL	1	*	*	*	*	*	*
Normal A coord	0x00271046	FL	1	*	*	*	*	*	*
Normal S coord	0x00271047	FL	1	*	*	*	*	*	*
Table start location	0x00271050	FL	1	*	*	*	*	*	*
Table end location	0x00271051	FL	1	*	*	*	*	*	*

GEMS_0039

				Discovery CT750_HD – Software Release 08MW20.4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.14	CT590 RT - Software Release 11RW04.9	CT590 RT - Software Release 00RW25.14
GEHC Private Creator ID	0x00390010	LO	1	*	*	*	*	*	*
SR Application Name	0x00391095	LO	1	*	*	*	*	*	*

GEMS_CT_FLRO_01

				Discovery CT750_HD – Software Release 08MW20.4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.14	CT590 RT - Software Release 11RW04.9	CT590 RT - Software Release 00RW25.14
GEHC Private Creator ID	0x00290010	LO	1	*	*	*	*	*	*
CT Int Fluoro	0x00291001	SS	1	*	*	*	*	*	*
Image Precise Location	0x00291002	DS	1	*	*	*	*	*	*

GEMS_PARM_01

				Discovery CT750_HD – Software Release 08MW20.4	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.14	CT590 RT - Software Release 11PW04.9	CT590 RT - Software Release 00PW05.14
GEHC Private Creator ID	0x00430010	LO	1	*	*	*	*	*	*
Window value	0x00431010	US	1	*	*	*	*	*	*
X-ray chain	0x00431012	SS	3	*	*	*	*	*	*
Number of overranges	0x00431016	SS	1	*	*	*	*	*	*
Delta start time	0x0043101e	DS	1	*	*	*	*	*	*
Max overranges in a view	0x0043101f	SL	1	*	*	*	*	*	*
Corrected after glow terms	0x00431021	SS	1	*	*	*	*	*	*
Reference channels	0x00431025	SS	6	*	*	*	*	*	*
No views ref chans blocked	0x00431026	US	4-6	*	*	*	*	*	*
Scan pitch ratio	0x00431027	SH	1	*	*	*	*	*	*
Unique image iden	0x00431028	OB	1	*	*	*	*	*	*
Private Scan Options	0x0043102b	SS	4	*	*	*	*	*	*
RA cord of target recon center	0x00431031	DS	2	*	*	*	*	*	*
Trigger on position	0x00431040	FL	1	*	*	*	*	*	*
Degree of rotation	0x00431041	FL	1	*	*	*	*	*	*
DAS trigger source	0x00431042	SL	1	*	*	*	*	*	*
DAS fpa gain	0x00431043	SL	1	*	*	*	*	*	*
DAS output source	0x00431044	SL	1	*	*	*	*	*	*
DAS ad input	0x00431045	SL	1	*	*	*	*	*	*
DAS cal mode	0x00431046	SL	1	*	*	*	*	*	*
Start scan to X-ray on delay	0x0043104d	FL	1	*	*	*	*	*	*
Duration of X-ray on	0x0043104e	FL	1	*	*	*	*	*	*
Recon filter	0x00431064	LO	1	*	*	*	*	*	*

GEMS_HELIOS_01

				Discovery CT750_HD - Software Release 00MW20.1	CT750 HD / 11MW44.7 DOC1052442 Rev.1	CT750 HD - Software Release 10MW25.6	CT750 HD - Software Release 00MW20.1.1	CT590 RT - Software Release 11DW04.0	CT590 RT - Software Release 00MW25.1.1
GEHC Private Creator ID	0x00450010	LO	1	*	*	*	*	*	*
Number of Macro Rows in Detector	0x00451001	SS	1	*	*	*	*	*	*
Macro width at ISO Center	0x00451002	FL	1	*	*	*	*	*	*
DAS type	0x00451003	SS	1	*	*	*	*	*	*
DAS gain	0x00451004	SS	1	*	*	*	*	*	*
DAS Temperature	0x00451005	SS	1	*	*	*	*	*	*
Table Direction	0x00451006	CS	1	*	*	*	*	*	*
Z smoothing Factor	0x00451007	FL	1	*	*	*	*	*	*
View Weighting Mode	0x00451008	SS	1	*	*	*	*	*	*
Sigma Row number	0x00451009	SS	1	*	*	*	*	*	*
Minimum DAS value	0x0045100a	FL	1	*	*	*	*	*	*
Maximum Offset Value	0x0045100b	FL	1	*	*	*	*	*	*
Number of Views shifted	0x0045100c	SS	1	*	*	*	*	*	*
Z tracking Flag	0x0045100d	SS	1	*	*	*	*	*	*
Mean Z error	0x0045100e	FL	1	*	*	*	*	*	*
Z tracking Error	0x0045100f	FL	1	*	*	*	*	*	*
Start View 2A	0x00451010	SS	1	*	*	*	*	*	*
Number of Views 2A	0x00451011	SS	1	*	*	*	*	*	*
Start View 1A	0x00451012	SS	1	*	*	*	*	*	*
Sigma Mode	0x00451013	SS	1	*	*	*	*	*	*
Number of Views 1A	0x00451014	SS	1	*	*	*	*	*	*
Start View 2B	0x00451015	SS	1	*	*	*	*	*	*
Number Views 2B	0x00451016	SS	1	*	*	*	*	*	*
Start View 1B	0x00451017	SS	1	*	*	*	*	*	*
Number of Views 1B	0x00451018	SS	1	*	*	*	*	*	*
Itebone Flag	0x00451021	SS	1	*	*	*	*	*	*
Perisstaltic Flag	0x00451022	SS	1	*	*	*	*	*	*

CardiacReconAlgorithm	0x00451030	CS	1	*	*	*	*	*	*
AvgHeartRateForImage	0x00451031	CS	1	*	*	*	*	*	*
TemporalResolution	0x00451032	FL	1	*	*	*	*	*	*
PctRpeakDelay	0x00451033	CS	1	*	*	*	*	*	*
ActualPctRpeakDelay	0x00451034	CS	1	*	*	*	*	*	*
EkgFullMaStartPhase	0x00451036	CS	1	*	*	*	*	*	*
EkgFullMaEndPhase	0x00451037	CS	1	*	*	*	*	*	*
EkgModulationMaxMa	0x00451038	CS	1	*	*	*	*	*	*
EkgModulationMinMa	0x00451039	CS	1	*	*	*	*	*	*
Noise Reduction Image Filter Desc	0x0045103b	LO	1	*	*	*	*	*	*
RPeakTimeDelay	0x0045103f	IS	1	*	*	*	*	*	*
ActualRPeakTimeDelay	0x00451044	IS	1	*	*	*	*	*	*
CardiacScanOptions	0x00451045	ST	1	*	*	*	*	*	*

GEMS_CT_CARDIAC_001

				Discovery CT750_HD - Software	CT750 HD / 11MW44.7	CT750 HD - Software Release	CT750 HD - Software Release	CT590 RT - Software Release	CT590 RT - Software Release
GEHC Private Creator ID	0x00490010	LO	1	*	*	*	*	*	*
CT Cardiac Sequence	0x00491001	SQ	1	*	*	*	*	*	*
> HeartRateAtConfirm	0x00491002	CS	1	*	*	*	*	*	*
> AvgHeartRatePriorToConfirm	0x00491003	FL	1	*	*	*	*	*	*
> MinHeartRatePriorToConfirm	0x00491004	CS	1	*	*	*	*	*	*
> Max Heart Rate Prior To Confirm	0x00491005	CS	1	*	*	*	*	*	*
> StdDevHeartRate PriorToConfirm	0x00491006	FL	1	*	*	*	*	*	*
> Num Heart Rate Samples Prior To Confirm	0x00491007	US	1	*	*	*	*	*	*
> Auto Heart Rate Detect Predict	0x00491008	CS	1	*	*	*	*	*	*
> System Optimized Heart Rate	0x00491009	CS	1	*	*	*	*	*	*
> EkgMonitorType	0x0049100a	ST	1	*	*	*	*	*	*
> NumReconSectors	0x0049100b	CS	1	*	*	*	*	*	*
RpeakTimeStamps	0x0049100c	FL	1-256	*	*	*	*	*	*
EkgGatingType	0x00491016	SH	1	*	*	*	*	*	*
Ekg Wave Time Off First Data Point	0x0049101b	FL	1	*	*	*	*	*	*
TemporalAlg	0x00491022	CS	1		*				
PhaseLocation	0x00491023	CS	1		*				
PreBlendedCycle1	0x00491024	OW	1		*				
PreBlendedCycle2	0x00491025	OW	1		*				
CompressionAlg	0x00491026	CS	1		*				

GEHC_CT_ADVAPP_001

				Discovery CT750_HD – Software Release.08MW39.4	CT750 HD / 11MW44.7 DOC1053442 Rev 1	CT750 HD - Software Release	CT750 HD - Software Release	CT590 RT - Software Release	CT590 RT - Software Release
GEHC Private Creator ID	0x00530010	LO	1	*	*	*	*	*	*
MultiEnergyNoise RedBlendingFact	0x00531001	FL	1-n		*	*			
MultiEnergyNose RedScaleFact	0x00531002	FL	1-n		*	*			
MultiEnergyMD TransformEnergies	0x00531003	IS	2		*	*			
ShuttleFlag	0x00531020	IS	1	*	*	*	*		*
TableSpeedNotReaches TargetFlag	0x00531021	IS	1	*	*	*	*		*
IterativeReconAnnotation	0x00531040	SH	1	*	*	*	*		*
IterativeReconMode	0x00531041	SH	1	*	*	*	*		*
IterativeReconConfiguration	0x00531042	LO	1	*	*	*	*		*
IterativeReconLevel	0x00531043	SH	1	*	*	*	*		*
ReconFlipRotateAnno	0x00531060	SH	1	*	*	*	*	*	*
(L1) HiResMode (L2) highResolutionFlag	0x00531061	SH	1	(L2)	(L1)	(L 1)	(L 1)		(L 1)
RespiratoryFlag	0x00531062	SH	1	*	*	*	*	*	*
Image Position Patient Setting	0x00531063	CS	1		*	*			
Shutter Mode	0x00531064	IS	1		*	*			
Shutter Mode Percent	0x00531065	IS	1		*	*			
Image Browser Annotation	0x00531066	LO	1		*	*			
Overlapped Recon Flag	0x00531067	IS	1		*	*			
Row Number Anotation Flag	0x00531068	IS	1		*	*			
MultiEnergySourceCount	0x00531070	IS	1		*	*	*		*
MultiEnergyScanType	0x00531071	LO	1		*	*	*		*
MultiEnergyReconType	0x00531072	LO	1		*	*	*		*
MultiEnergyImageType	0x00531073	LO	1		*	*	*		*
MultiEnergyMaterialType	0x00531074	LO	1		*	*	*		*
MonochromaticEnergy	0x00531075	DS	1		*	*	*		*

multiEnergyWeightedSubractionWidth1	0x00531076	DS	1		*	*	*		*
MultiEnergyWeightedSubractionWidth2	0x00531077	DS	1		*	*	*		*
MultiEnergyWeightedSubractionType	0x00531078	LO	1		*	*	*		*
MultiEnergyAcqMethod	0x00531079	LO	1		*	*	*		*
MultiEnergyFeatAnnotName	0x0053107A	SH	1		*	*	*		*
MultiEnergyNoiseReduced	0x0053107B	SH	1		*	*	*		*
MultiEnergyNoiseReducdeMethod	0x0053107C	LO	1		*	*	*		*
SubOptimalIQString	0x0053107D	LO	1		*	*	*		*
MultiEnergyHighLowRatio	0x0053107E	DS	1		*	*	*		*
AnnotationmA	0x00531083	DS	1		*	*	*		*
CommandedFirstkVp	0x00531084	DS	1		*	*	*		*
CommandedFirstmA	0x00531085	DS	1		*	*	*		*
CommandedSecondkVp	0x00531086	DS	1		*	*	*		*
CommandedSecondmA	0x00531087	DS	1		*	*	*		*
MultiEnergyKVAnnotName	0x00531088	SH	1		*	*	*		*
MultiEnergyKVUnitLabel	0x00531089	SH	1		*	*	*		*
MaterialType#1	0x0053108A	LO	1		*	*	*		*
MaterialType#2	0x0053108B	LO	1		*	*	*		*
GSIScanModePreset	0x0053108C	LO	1		*	*	*		*
MonoWindowLow	0x0053108D	IS	1		*	*	*		*
MonoWindoHigh	0x0053108E	IS	1		*	*	*		*
MD1AttenuationCurve	0x0053108F	FL	1-143		*	*	*		*
MD1intercept	0x00531092	DS	1		*	*	*		*
MD1slope	0x00531093	DS	1		*	*	*		*
MD1supportData	0x00531095	OW	1		*	*	*		*
MD2supportData	0x00531096	OW	1		*	*	*		*
NM1data	0x00531097	OW	1		*	*	*		*
MD2intercept	0x00531098	DS	1		*	*	*		*
MD2slope	0x00531099	DS	1		*	*	*		*
NM2data	0x0053109A	OW	1		*	*	*		*
MD2attenuationCurve	0x0053109B	FL	1-143		*	*	*		*
GSIdataVersion	0x0053109C	SH	1		*	*	*		*
MARsAnnotation	0x0053109D	LO	1		*	*	*		*
MultiEnergyNumNoiseRedPair	0x0053109E	IS	1		*	*			
MultiEnergyNoiseRedPairString	0x0053109F	LO	1-n		*	*			