

GE LightSpeed CT Series

Revision History

Date / Version	Author	Comments
5/31/2012	Steve Moore	
7/6/2012	Steve Moore	Added <ul style="list-style-type: none"> LightSpeed VCT 5116427-100 Rev 1
7/12/2012	Steve Moore	Added <ul style="list-style-type: none"> LightSpeed Ultra 3.0 2320439-100 Rev 0 LightSpeed Ultra 3.1 2320439-100 Rev. 0 HiSpeed Advantage CT/i Direction 2162114-100 Rev 0 HiSpeed Advantage CT/i 4.1 & 5.3 2162114-100 Rev. 2

Introduction

This document lists private elements for GE LightSpeed 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	SW Version	Meta SW Version	Document	File Name
LightSpeed - Software releases 07MW18.x, 07BW08.x, 07MW11.x: Direction # 5198351-100 Rev. 1	LightSpeed	07MW18.x, 07BW08.x, 07MW11.x:	LightSpeed 07x	5198351-100, REV 1	GEHC-DICOM- Conformance_LightSpeed- Brightspeed_5198351-100_Rev1
LightSpeed RT16 - Software Release 08BW44.1: Direction # DOC0500644 Rev. 3	LightSpeed	08BW44.1	LightSpeed 08x	DOC0500644, REV 3	GEHC-DICOM- Conformance_Discovery- LightSpeed- BrightSpeed_DOC0500644_Rev3
LightSpeed VCT 5116427-100 Rev 1	LightSpeed VCT <u>LightSpeed</u> <u>Pro32</u>	<u>VCT.ME2PLUS</u> <u>VCT.ME2PLUS</u>	LightSpeed VCT ME2PLUS	5116427-100 Rev 1	
LightSpeed Ultra 3.0 2320439-100 Rev. 0	LightSpeed Ultra	3.0	LightSpeed Ultra 3.0	2320439-100 Rev. 0	
LightSpeed Ultra 3.1 2296445-100 Rev. 0	LightSpeed Ultra	3.1	LightSpeed Ultra 3.1	2296445-100 Rev. 0	
LightSpeed Plus 2.3 2243324-100 Rev. 0	LightSpeed Plus	2.3	LightSpeed Plus 2.3	2243324-100 Rev. 0	
CT/i 3.6 & 4.0 2162114-100 Rev. 1	HiSpeed CT/i	3.6, 4.0	HiSpeed CT/i 3.6	2162114-100 Rev. 0	
CT/i 4.1 & 5.3 2162114-100 Rev. 2	HiSpeed CT/i	4.1, 5.3	HiSpeed CT/i 4.1	2162114-100 Rev. 2	
CT/i 4.4 & 6.1 2162114-100 Rev. 5	HiSpeed CT/i	4.4, 6.1	HiSpeed CT/i 6.1	2162114-100 Rev. 5	

GEMS_IDEN_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		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	*	*	*	*	*	*	*	*	*
Service id	0x00091030	SH	1				*			*	*	*
Mobile location number	0x00091031	SH	1				*			*	*	*
Equipment UID	0x000910e3	UI	1	*	*	*	*	*	*	*	*	*
Genesis Version – now	0x000910e6	SH	1				*			*	*	*
Exam Record checksum	0x000910e7	UL	1				*			*	*	*
Actual series data time stamp	0x000910e9	SL	1				*			*	*	*

GEMS_PATI_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00110010	LO	1	*	*	*	*			*	*	*
Patient Status	0x00111010	SS	1				*			*	*	*

Angle of first view	0x0019102e	DS	1	*	*	*	*	*	*	*	*	*
Trigger frequency	0x0019102f	DS	1	*	*	*	*	*	*	*	*	*
Scan FOV type	0x00191039	SS	1	*	*	*	*	*	*	*	*	*
Stat recon flag	0x00191040	SS	1				*			*	*	*
Compute type	0x00191041	SS	1				*			*	*	*
Segment number	0x00191042	SS	1	*	*	*	*	*	*	*	*	*
Total segments requested	0x00191043	SS	1	*	*	*	*	*	*	*	*	*
Interscan delay	0x00191044	DS	1				*			*	*	*
View compression factor	0x00191047	SS	1	*	*	*	*	*	*	*	*	*
Total no. of ref channels	0x0019104a	SS	1				*			*	*	*
Data size for scan data	0x0019104b	SL	1				*			*	*	*
Recon post proc. Flag	0x00191052	SS	1	*	*	*	*	*	*	*	*	*
CT water number	0x00191057	SS	1				*			*	*	*
CT bone number	0x00191058	SS	1				*			*	*	*
Number of channels (1...512)	0x0019105e	SL	1				*			*	*	*
Increment between channels	0x0019105f	SL	1				*			*	*	*
Starting view	0x00191060	SL	1				*			*	*	*
Number of views	0x00191061	SL	1				*			*	*	*
Increment between views	0x00191062	SL	1				*			*	*	*
Dependent on #views processed	0x0019106a	SS	1	*	*	*	*	*	*	*	*	*
Field of view in detector cells	0x0019106b	SS	1				*			*	*	*
Value of back projection button	0x00191070	SS	1				*			*	*	*
Set if fatq estimates were used	0x00191071	SS	1				*			*	*	*
Z chan avg over views	0x00191072	DS	1				*			*	*	*
Avg of left ref chans over views	0x00191073	DS	1				*			*	*	*
Max left chan over views	0x00191074	DS	1				*			*	*	*
Avg of right ref chans over views	0x00191075	DS	1				*			*	*	*
Max right chan over views	0x00191076	DS	1				*			*	*	*
Reference channel used	0x001910da	SS	1				*			*	*	*
Back projector coefficient	0x001910db	DS	1				*			*	*	*
Primary speed correction used	0x001910dc	SS	1				*			*	*	*
Overrange correction used	0x001910dd	SS	1				*			*	*	*
Dynamic Z alpha value	0x001910de	DS	1				*			*	*	*

GEMS_STDY_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00230010	LO	1	*		*	*		*	*	*	*
Start time(secs) in first axial	0x00231070	FD	1	*		*	*	*	*	*	*	*
No. of updates to header	0x00230174	SL	1				*			*	*	*
Indicates if the study has complete info (DICOM/genesis)	0x0023107d	SS	1				*			*	*	*

GEMS_SERS_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00250010	LO	1				*			*	*	*
Last pulse sequence used	0x00251006	SS	1				*			*	*	*
Images in Series	0x00251007	SL	1				*			*	*	*
Landmark Counter	0x00251010	SL	1				*			*	*	*
Number of Acquisitions	0x00251011	SS	1				*			*	*	*
Series Complete Flag	0x00251017	SL	1				*			*	*	*
Number of images archived	0x00251018	SL	1				*			*	*	*
Last image number used	0x00251019	SL	1				*			*	*	*
Primary Receiver Suite and Host	0x0025101a	SH	1				*			*	*	*

GEMS_IMAG_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00270010	LO	1	*	*	*	*	*	*	*	*	*
Image archive flag	0x00271006	SL	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)	(L2)	(L2)	(L2)	(L2)	(L2)	(L2)	*	*
Smart scan ON/OFF flag	0x00271020	SS	1	*	*	*	*	*	*	*	*	*
Foreign Image Revision	0x00271030	SH	1				*			*	*	*
Plane Type	0x00271035	SS	1	*	*	*	*	*	*	*	*	*
RAS letter of image location	0x00271040	SH	1				*			*	*	*
Image location	0x00271041	FL	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	*	*	*	*	*	*	*	*	*
R Coord of Top Right Corner	0x00271048	FL	1				*			*	*	*
A Coord of Top Right Corner	0x00271049	FL	1				*			*	*	*
S Coord of Top Right	0x0027104a	FL	1				*			*	*	*

Corner												
R Coord of Bottom Right Corner	0x0027104b	FL	1				*			*	*	*
A Coord of Bottom Right Corner	0x0027104c	FL	1				*			*	*	*
S Coord of Bottom Right Corner	0x0027104d	FL	1				*			*	*	*
Table start location	0x00271050	FL	1	*	*	*	*	*	*	*	*	*
Table end location	0x00271051	FL	1	*	*	*	*	*	*	*	*	*
RAS letter for side of image	0x00271052	SH	1				*			*	*	*
RAS letter for anterior/posterior	0x00271053	SH	1				*			*	*	*
RAS letter for scout start loc	0x00271054	SH	1				*			*	*	*
RAS letter for scout end loc	0x00271055	SH	1				*			*	*	*

GEMS_IMPS_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00290010	LO	1				*			*	*	*
Lower range of Pixels1	0x00291004	SL	1				*			*	*	*
Lower range of Pixels1	0x00291005	DS	1				*			*	*	*
Lower range of Pixels1	0x00291006	DS	1				*			*	*	*
Lower range of Pixels1	0x00291007	SL	1				*			*	*	*
Lower range of Pixels1	0x00291008	SH	1				*			*	*	*
Lower range of Pixels1	0x00291009	SH	1				*			*	*	*
Lower range of Pixels1	0x0029100a	SS	1				*			*	*	*
Version of the hdr struct	0x00291026	SS	1				*			*	*	*
Advantage comp. Overflow	0x00291034	SL	1				*			*	*	*

GEMS_PARM_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00430010	LO	1	*	*	*	*	*	*	*	*	*
Window value	0x00431010	US	1	*	*	*	*	*	*	*	*	*
Total input views	0x00431011	US	1				*			*	*	*
X-ray chain	0x00431012	SS	3	*	*	*	*	*	*	*	*	*
Decon kernel parameters	0x00431013	SS	5				*			*	*	*
Calibration parameters	0x00431014	SS	3				*			*	*	*
Total output views	0x00431015	SS	3				*			*	*	*
Number of overranges	0x00431016	SS	1-5	*	*	*	*	*	*	*	*	*
IBH image scale factors	0x00431017	DS	1				*			*	*	*
BBH coefficients	0x00431018	DS	3				*			*	*	*
Number of BBH chains to blend	0x00431019	SS	1				*			*	*	*
Starting channel number	0x0043101a	SL	1				*			*	*	*
Ppscan parameters	0x0043101b	SS	1				*			*	*	*
GE image integrity	0x0043101c	SS	1				*			*	*	*
Level value	0x0043101d	SS	1				*			*	*	*
Delta start time	0x0043101e	DS	1	*	*	*	*	*	*	*	*	*
Max overranges in a view	0x0043101f	SL	1	*	*	*	*	*	*	*	*	*
Avg overranges all views	0x00431020	DS	1				*			*	*	*
Corrected after glow terms	0x00431021	SS	1	*	*	*	*	*	*	*	*	*
Reference channels	0x00431025	SS	6	*	*	*	*	*	*	*	*	*
No views ref chans blocked	0x00431026	US	6	*	*	*	*	*	*	*	*	*
Scan pitch ratio	0x00431027	SH	1	*	*	*	*	*	*	*	*	*
Unique image iden	0x00431028	OB	1	*	*	*	*	*	*	*	*	*
Histogram tables	0x00431029	OB	1				*			*	*	*
User defined data	0x0043102a	OB	1				*			*	*	*

Private Scan Options	0x0043102b	SS	4	*	*	*	*	*	*	*	*	*
RA cord of target recon center	0x00431031	DS	2	*	*	*	*	*	*	*	*	*
Trigger on position	0x00431040	FL	1-4	*	*	*	*	*	*	*	*	*
Degree of rotation	0x00431041	FL	1-4	*	*	*	*	*	*	*	*	*
DAS trigger source	0x00431042	SL	1-4	*	*	*	*	*	*	*	*	*
DAS fpa gain	0x00431043	SL	1-4	*	*	*	*	*	*	*	*	*
DAS output source	0x00431044	SL	1-4	*	*	*	*	*	*	*	*	*
DAS ad input	0x00431045	SL	1-4	*	*	*	*	*	*	*	*	*
DAS cal mode	0x00431046	SL	1-4	*	*	*	*	*	*	*	*	*
DAS cal frequency	0x00431047	SL	4				*			*	*	*
DAS reg xm	0x00431048	SL	4				*			*	*	*
DAS auto zero	0x00431049	SL	4				*			*	*	*
Starting channel of view	0x0043104a	SS	4				*			*	*	*
DAS xm pattern	0x0043104b	SL	4				*			*	*	*
TGGC trigger mode	0x0043104c	SS	4				*			*	*	*
Start scan to X-ray on delay	0x0043104d	FL	1-4	*	*	*	*	*	*	*	*	*
Duration of X-ray on	0x0043104e	FL	1-4	*	*	*	*	*	*	*	*	*
Recon filter	0x00431064	LO	1	*	*							

GEMS_HELIOS_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
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	*	*	*	*	*	*			
Air Calibration Date	0x00401019	SS	1				*					

Air Calibration Time	0x0045101a	SS	1				*					
Phantom Calibration Date	0x0045101b	SS	1				*					
Phantom Calibration Time	0x0045101c	SS	1				*					
Z Slope Calibration Date	0x0045101d	SS	1				*					
Z Slope Calibration Time	0x0045101e	SS	1				*					
Cross Talk Calibration Date	0x0045101f	SS	1				*					
Cross Talk Calibration Time	0x00451020	SS	1				*					
Iterbone 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		*							
CardiacScanOption	0x00451045	ST	1		*							

GEHC_IQTB_IDEN_47

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00470010	LO	1				*					
Image Path	0x00471001	SH	1				*					
Image Date/Time	0x00470002	UL	1				*					
Queue Sequence Number	0x00471003	UL	1				*					
Recon Sequence ID	0x00471004	UL	1				*					

GEMS_CT_VES_01

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00510010	LO	1					*	*			
CTVESSequence	0x00511001	SQ	1					*	*			
➤ VESaccessionNumber	0x00080050	SH	1					*	*			
➤ VESprocedureCodeSequence	0x00081032	SQ	1					*	*			
➤ > VESactionItemCodeValue	0x00080100	SH	1					*	*			
➤ > VESactionItemCodeScheme	0x00080102	SH	1					*	*			
➤ > VESactionItemCodeMeaning	0x00080104	LO	1					*	*			
➤ VESreferenceStudySequence	0x00081110	SQ	1					*	*			
➤ > VESRefStudySequenceSopClassUid	0x00081150	UI	1					*	*			
➤ > VESRefStudySequenceSopInstanceUid	0x00081155	UI	1					*	*			
➤ VESstudyInstanceUID	0x0020000d	UI	1					*	*			
➤ VESrequestedProcedureDescription	0x00321060	LO	1					*	*			
➤ VESrequestedProcedureID	0x00401001	SH	1					*	*			

GEHC_CT_ADVAPP_001

				LightSpeed 07x	LightSpeed 08x	LightSpeed VCT ME2PLUS	LightSpeed Ultra 3.0	LightSpeed Ultra 3.1	LightSpeed Plus 2.3	HiSpeed CT/i 3.6	HiSpeed CT/i 4.1	HiSpeed CT/i 6.1
		VR	VM									
GEHC Private Creator ID	0x00530010	LO	1		*							
ShuttleFlag	0x00531020	IS	1		*							
TableSpeedNot ReachesTargetFlag	0x00531021	IS	1		*							
IterativeReconAnnotation	0x00531040	SH	1		*							
IterativeReconMode	0x00531041	SH	1		*							
IterativeReconConfiguration	0x00531042	LO	1		*							
IterativeReconLevel	0x00531043	SH	1		*							
reconFlipRotateAnno	0x00531060	SH	1		*							
highResolutionFlag	0x00531061	SH	1		*							
RespiratoryFlag	0x00531062	SH	1		*							