Registry of General-Purpose Primitive Elements Developed For This Standard

323 266 — Max & min Class Code this section (See below for program-unique primitive data entities)

Date of Approval for use	Class Code, decimal value	Class Code, hex value	Class Descriptor (For registry sorting convenience; not required for file format)	Type Descriptor (For registry sorting convenience; not required for file format)	Class/Type Descriptor (For registry sorting convenience; not required for file format)	C/T Code Char cnt	Primitive size, bytes	Description	Bit 0	Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8	Bit 9	Bit 10	Bit 11	Bit 12	Bit 13	Bit 14	Bit 15
20-Feb-2004	266	10A	AIMPOINT	ALPHA MAX	AIMPOINT ALPHA MAX	18	2	Maximum allowable positive angle of attack, in pitch plane		0	[Formatted per GEN ANGLE-M; LSB = 20 arc sec; except values shall always be positive (b0 = 0)]													
20-Feb-2004	267	10B	AIMPOINT	ALPHA MIN	AIMPOINT ALPHA MIN	18	2	Maximum allowable negative angle of attack, in pitch plane		1	[Formatted per GEN ANGLE-M; LSB = 20 arc sec; except values shall always be negitive (b0 = 1)]													
20-Feb-2004	268	10C	AIMPOINT	BETA MAX	AIMPOINT BETA MAX	17	2	Maximum allowable positive angle of attack, in yaw plane		0	[Formatted per GEN ANGLE-M; LSB = 20 arc sec; except values shall always be positive (b0 = 0)]													
20-Feb-2004	269	10D	AIMPOINT	BETA MIN	AIMPOINT BETA MIN	17	2	Maximum allowable negative angle of attack, in yaw plane		1	[Formatted per GEN ANGLE-M; LSB = 20 arc sec; except values shall always be negitive (b0 = 1)]													
20-Feb-2004	270	10E	AIMPOINT	IMPCT VEL MN	AIMPOINT IMPCT VEL MN	21	2	Impact velocity, minimum limit			[Formatted per APT IMP VEL]													
20-Feb-2004	271	10F	AIMPOINT	IMPCT VEL MX	AIMPOINT IMPCT VEL MX	21	2	Impact velocity, maximum limit			[Formatted per APT IMP VEL]													
20-Feb-2004	272	110	AIMPOINT	PITCH	AIMPOINT PITCH	14	2	Pitch, per MIL STD 1760			[Formatted per GEN ANGLE-M; LSB = 20 arc sec]													
20-Feb-2004	273	111	AIMPOINT	ROLL	AIMPOINT ROLL	13	2	Roll per MIL STD 1760			[Formatted per GEN ANGLE-M; LSB = 20 arc sec]													
20-Feb-2004	274	112	AIMPOINT	YAW	AIMPOINT YAW	12	2	Yaw per MIL STD 1760			[Formatted per GEN ANGLE-M; LSB = 20 arc sec]													
20-Feb-2004	275	113	AIMPOINT	LAT	AIMPOINT LAT	12	4	Latitude			[Formatted per GEN ANGLE-M plus GEN ANGLE L; LSB = 9.3 mm; except values shall be between +/- 90 deg - positive is North Latitude													
20-Feb-2004	276	114	AIMPOINT	LONG	AIMPOINT LONG	13	4	Longitude			[Formatted per GEN ANGLE-M plus GEN ANGLE L; LSB = 9.3 mm - Positive is East Longitude													
20-Feb-2004	277	115	AIMPOINT	GEO EL ELPSD	AIMPOINT GEO EL ELPSD	21	4	Geodetic distance (altitude/elevation) above WGS-84 ellipsoid			[Format per GEN DISTANCE-M plus GEN DISTANCE-L (LSB = 0.78mm; MSBs ~ +/-8400 km)													
17-Mar-2004	318	13E	BUS	SUBADDR	BUS SUBADDR	11	2	MIL-STD-1760 Subaddress (message number) used in MSN LEGACY TD BLOCK concatenated to support receiving platform reconstruction of TD message.			[Format per GEN NUMBER-L (16-bit unsigned integer, lsb = 1, msb = 32,768; allowable values: decimal 0 through 31 except as restricted by MIL-STD-1760)													
20-Feb-2004	278	116	GENERAL	ACCEL D	GENERAL ACCEL D	15	4	Acceleration vector, down component (WGS-84, local vertical)			[Format per GEN ACCEL-M plus GEN ACEL-L (LSB ~ 0.47 um/s2; MSB = 512 m/s2)													
20-Feb-2004	279	117	GENERAL	ACCEL E	GENERAL ACCEL E	15	4	Acceleration vector, east component (WGS-84, local vertical)			[Format per GEN ACCEL-M plus GEN ACEL-L (LSB ~ 0.47 um/s2; MSB = 512 m/s2)													
20-Feb-2004	280	118	GENERAL	ACCEL N	GENERAL ACCEL N	15	4	Acceleration vector, north component (WGS-84, local vertical)			[Format per GEN ACCEL-M plus GEN ACEL-L (LSB ~ 0.47 um/s2; MSB = 512 m/s2)													
20-Feb-2004	281	119	GENERAL	ACCEL TOT	GENERAL ACCEL TOT	17	4	Acceleration vector, scalar component			[Format per GEN ACCEL-M plus GEN ACEL-L (LSB ~ 0.47 um/s2; MSB = 512 m/s2)													
20-Feb-2004	282	11A	GENERAL	DIST D	GENERAL DIST D	14	4	Distance vector from defined point; down component (WGS-84, local vertical)			[Format per GEN DISTANCE-M plus GEN DISTANCE-L (LSB = 0.78mm; MSB ~ +/-8400 km)													
20-Feb-2004	283	11B	GENERAL	DIST E	GENERAL DIST E	14	4	Distance vector from defined point; east component (WGS-84, local vertical)			[Format per GEN DISTANCE-M plus GEN DISTANCE-L (LSB = 0.78mm; MSB ~ +/-8400 km)													
20-Feb-2004	284	11C	GENERAL	DIST N	GENERAL DIST N	14	4	Distance vector from defined point; north component (WGS-84, local vertical)			[Format per GEN DISTANCE-M plus GEN DISTANCE-L (LSB = 0.78mm; MSB ~ +/-8400 km)													
20-Feb-2004	285	11D	GENERAL	DIST SLANT	GENERAL DIST SLANT	18	4	Distance from defined point; scalar			[Format per GEN DISTANCE-M plus GEN DISTANCE-L (LSB = 0.78mm; MSB ~ +/-8400 km)													
20-Feb-2004	286	11E	GENERAL	SPEED	GENERAL SPEED	13	4	Velocity vector, scalar component			[Format per GEN VELOCITY-M plus GEN VELOCITY-L (LSB ~ 3.8 um/s; MSB = 4192 m/s)													
20-Feb-2004	287	11F	GENERAL	SPEED MAX	GENERAL SPEED MAX	17	4	Upper limit on speed			[Format per GEN VELOCITY-M plus GEN VELOCITY-L (LSB ~ 3.8 um/s; MSB = 4192 m/s)													
20-Feb-2004	288	120	GENERAL	SPEED MIN	GENERAL SPEED MIN	17	4	Lower limit on speed			[Format per GEN VELOCITY-M plus GEN VELOCITY-L (LSB ~ 3.8 um/s; MSB = 4192 m/s)													
20-Feb-2004	289	121	GENERAL	VEL D	GENERAL VEL D	13	4	Velocity vector, down component (WGS-84, local vertical)			[Format per GEN VELOCITY-M plus GEN VELOCITY-L (LSB ~ 3.8 um/s; MSB = 4192 m/s)													
20-Feb-2004	290	122	GENERAL	VEL E	GENERAL VEL E	13	4	Velocity vector, east component (WGS-84, local vertical)			[Format per GEN VELOCITY-M plus GEN VELOCITY-L (LSB ~ 3.8 um/s; MSB = 4192 m/s)													
20-Feb-2004	291	123	GENERAL	VEL N	GENERAL VEL N	13	4	Velocity vector, north component (WGS-84, local vertical)			[Format per GEN VELOCITY-M plus GEN VELOCITY-L (LSB ~ 3.8 um/s; MSB = 4192 m/s)													
20-Feb-2004	292	124	GENERAL	USEC	GENERAL USEC	12	2	Time in microseconds, unsigned integer			[Format per GEN NUMBER-L (LSB = 1; MSB = 32768; max = 65535)													
20-Feb-2004	294	126	GENERAL	AZIMANGLE	GENERAL AZIMANGLE	17	2	Azimuth angle, relative to true north, positive clockwise			[Formatted per GEN ANGLE-M; LSB = 20 arc sec]													
20-Feb-2004	295	127	GENERAL	ELEVANGLE	GENERAL ELEVANGLE	17	2	Elevation angle, relative to forward at local level, positive downward			[Formatted per GEN ANGLE-M; LSB = 20 arc sec]													
20-Feb-2004	296	128	GENERAL	SPEEDCOARSE	GENERAL SPEEDCOARS	19	4	Airspeed, scalar, coarse (1/4 m/s resolution)			[Format per GEN VELOCITY-M (LSB 0.25 m/s; MSB = 4192 m/s)													
20-Feb-2004	297	129	GENERAL	DATA WORD	GENERAL DATA WORD	17	2	16-bit data, undefined	MSB															LSB
20-Feb-2004	310	136	GENERAL	PACKED BYTES	GENERAL PACKED BYTE	20	2	Two elements of 8-bit data, undefined	MSB				Byte 1			LSB	MSB				Byte 0			LSB
20-Feb-2004	311	137	GENERAL	PACK ASCII	GENERAL PACK ASCII	18	2	Two 6-bit or 7-bit ASCII Characters, each right-justified in a byte-sized field	0	MSB (7)	MSB (6)		Char 1			LSB	0	MSB (7)	MSB (6)		Char 0			LSB
17-Apr-2005	319	13F	GENERAL	DIST HORIZ	GENERAL DIST HORIZ	18	4	Scalar distance in a local horizontal plane			[Format per GEN DISTANCE-M plus GEN DISTANCE-L (LSB = 0.78mm; MSB ~ +/-8400 km)													
20-Feb-2004	298	12A	TARGET	CE90 HORIZ	TARGET CE90 HORIZ	17	2	Horizontal error estimate, 90% probability, scalar, of target coordinates		0	[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
20-Feb-2004	299	12B	TARGET	CEP HORIZ	TARGET CEP HORIZ	16	2	Horizontal error estimate, 50% probability, scalar, of target coordinates		0	[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
20-Feb-2004	300	12C	TARGET	LE90 VERT	TARGET LE90 VERT	16	2	Vertical error estimate, 90% probability, scalar, of target coordinates		0	[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
20-Feb-2004	301	12D	TARGET	LEP VERT	TARGET LEP VERT	15	2	Vertical error estimate, 50% probability, scalar, of target coordinates		0	[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
20-Feb-2004	302	12E	TARGET	MAJ AXIS AZ	TARGET MAJ AXIS AZ	18	2	Azimuth of major error, WGS-84 local true north			[Formatted per GEN ANGLE-M; LSB = 20 arc sec]													
20-Feb-2004	303	12F	TARGET	MAJ AXIS ER9	TARGET MAJ AXIS ER9	19	2	90% probability target position error estimate along minor axis of ellipse		0	[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
20-Feb-2004	304	130	TARGET	MIN AXIS ER9	TARGET MIN AXIS ER9	19	2	90% probability target position error estimate along major axis of ellipse		0	[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
20-Feb-2004	305	131	TARGET	SIGNIF BITS	TARGET SIGNIF BITS	18	2	Position of least significant bit (0-31) in lat, long & el. For two-dimensional coordinates, the values in elevation (b11-b15) are 'don't care'.		0	MSB <--------	Latitude	--------> LSB		MSB <--------	Longitude	--------> LSB		MSB <--------	Elevation	--------> LSB		
20-Feb-2004	306	132	TARGET	TRACK NUM	TARGET TRACK NUM	16	4	Formatted per Link 16, to tie MIDEF file's target to other C2 messages in Link 16			Link-16 objective (target) track number format; 19 bits, left-justified in a 4-byte element length; remaining bits are 'don't care'													
17-Apr-2005	321	141	TARGET	1SIGMA HORIZ	TARGET 1SIGMA HORIZ	19	2	Horizontal error estimate, one sigma probability of target coordinates			[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
17-Apr-2005	322	142	TARGET	1SIGMA VERT	TARGET 1SIGMA VERT	18	2	Vertical error estimate, one sigma probability of target coordinates			[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m); except values shall always be positive (b0 = 0)]													
17-Apr-2005	323	143	TARGET	HEIGHT	TARGET HEIGHT	13	2	Target object vertical dimension			[Formatted per GEN DISTANCE-F (LSB = 0.5 m; MSB = 8192 m)]													
20-Feb-2004	307	133	TIME	DT TM GP	TIME DT TM GP	13	14	Message Date/time group; 14 ASCII chars: DDHHMM("Z ")MMM YY Example: 170656Z APR 01																
20-Feb-2004	308	134	TIME	UTC TOD	TIME UTC TOD	12	4	Time of day (from 0000 hr) in Universal Time Coord (per JSOW ICD 03-003-03)			[Formatted per GEN TIME M & L (4 bytes), lsb is 64 us]													
17-Apr-2005	320	140	TIME	DURATION	TIME DURATION	13	4	Duration or period of time			[Formatted per GEN TIME M & L (4 bytes), lsb is 64 us]													
20-Feb-2004	309	135	NAVIGATION	SIGNIF BITS	NAVIGATION SIGNIF BITS	22	4	Position of least significant bit (0-31) in lat, long & el. For two-dimensional coordinates, the values in elevation (b11-b15) are 'don't care'.		0	MSB <--------	Latitude	--------> LSB		MSB <--------	Longitude	--------> LSB		MSB <--------	Elevation	--------> LSB		
20-Feb-2004	312	138	NAVIGATION	LATITUDE	NAVIGATION LATITUDE	19	4	Latitude MSP & LSP			[Formatted per TARGET LATITUDE 1760 primitive, but not tied to a specific purpose]													
20-Feb-2004	313	139	NAVIGATION	LONGITUDE	NAVIGATION LONGITUDE	20	4	Longitude MSP & LSP			[Formatted per TARGET LONGITUDE 1760 primitive, but not tied to a specific purpose]													
20-Feb-2004	314	13A	NAVIGATION	HEIGHT ABOVE ELLI	NAVIGATION HEIGHT AB	33	4	Geodetic elevation MSP & LSP (Above WGS-84 ellipsoid)			[Formatted per TARGET GEO EL ELPSD 1760 primitive, but not tied to a specific purpose]													
20-Feb-2004	315	13B	NAVIGATION	OFFSET NORTH	NAVIGATION OFFSET NO	23	2	Distance North from fixed point origin; referenced to local level at fixed point			[Formatted per GEN DISTANCE-F (signed; LSB = 0.5 m; MSB = 8192 m)]													
20-Feb-2004	316	13C	NAVIGATION	OFFSET EAST	NAVIGATION OFFSET EA	22	2	Distance East from fixed point origin; referenced to local level at fixed point			[Formatted per GEN DISTANCE-F (signed; LSB = 0.5 m; MSB = 8192 m)]													
20-Feb-2004	317	13D	NAVIGATION	OFFSET DOWN	NAVIGATION OFFSET DO	22	2	Distance down from fixed point origin; referenced to local level at fixed point			[Formatted per GEN DISTANCE-F (signed; LSB = 0.5 m; MSB = 8192 m)]													

Registry of Program-Specific Primitive Elements Developed For This Standard

32767 32761 — Max & min Class Code this section (See above for general-purpose primitive data entities)

Date of Approval for use	Class Code, decimal value	Class Code, hex value	Organization Requesting Element	POC Name from Requesting Organization	POC Phone Number	POC e-mail	Primitive size, bytes	Description	Bit 0	Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8	Bit 9	Bit 10	Bit 11	Bit 12	Bit 13	Bit 14	Bit 15
	32767	7FFF																						
	32766	7FFE																						
	32765	7FFD																						
	32764	7FFC																						
	32763	7FFB																						
	32762	7FFA																						
	32761	7FF9																						