

This spreadsheet is obsolete. Please see the one in <http://openlcb.org/trunk/specs> instead

Name	Full 16 Bit MTI calculation							CAN Calculation					CAN Content	
	DID?EID?CAN Y/N/CY/N/Flags?	Simple Node MsGroup	Priority (2 bits)	Type (4 bits)	DID/EID/Flags (3 bits)	Complete Value (16 bits hex)	Format (3 bits)	Type Byte (8 bits hex)	Flag bit A 0 default 1 bit	Flag bit B 1 default 1 bit	Flag bit C 0 default 1 bit	Flag bit D 1 default 1 bit		CAN MTI (15 bits hex)
Base Messages														
Initialization Complete	N	N		0	8	0	3080	1	08					108F Full, Source Node ID
Verify Node ID Number	Y	N	Y	0	10	4	30A4	6	dest NIDA					6ddd MTI byte 0x0A
Verify Node ID Number	N	N	Y	0	10	0	30A0	0	0A					00AF
Verified Node ID Number	N	N		0	11	0	30B0	1	0B					10BF Full, Source Node ID
Protocol Support Inquiry	Y	N	Y	1	14	4	32E4	6	dest NIDA					6ddd MTI byte 0x2E
Protocol Support Reply	Y	N	Y	1	15	4	32F4	6	dest NIDA					6ddd MTI byte 0x2F, protocol flags
Optional Interaction Rejected	Y	N		0	12	4	30C4	6	dest NIDA					6ddd MTI byte 0x0C, MTI, error, optional information
Terminate Due to Error	Y	N		0	13	4	30D4	6	dest NIDA					6ddd MTI byte 0x0D, MTI, error, optional information
Event Exchange Messages														
Identify Consumers	N	Y	Y	1	4	2	3242	0	24					024F EventID (no room for DestID!)
Consumer Identify Range	N	Y		1	5	2	3252	1	25					125F EventID w mask (no room for DestID!)
Consumer Identified	N	Y	Y	1	6	3	3263	1	26	1	1	valid	uncertain	126F EventID (no room for DestID!)
Identify Producers	N	Y	Y	1	8	2	3282	0	28					028F EventID (no room for DestID!)
Producer Identify Range	N	Y		1	9	2	3292	1	29					129F EventID w mask (no room for DestID!)
Producer Identified	N	Y	Y	1	10	3	32A3	1	2A	1	1	valid	uncertain	12AF EventID (no room for DestID!)
Identify Events	Y	N	Y	1	11	4	32B4	6	dest NIDA					6ddd MTI byte 0x2B
Identify Events	N	N	Y	1	11	0	32B0	0	2B					02BF
Learn Event	N	Y	Y	1	12	2	32C2	0	2C					02CF EventID
Producer/Consumer Event Report	N	Y	Y	1	13	2	32D2	0	2D					02DF EventID
Datagram Messages														
Datagram (General)	Y	N	Y	2	0	4	3404	4,5	dest NIDA					4/5ddd Data (0-8 bytes)
Datagram Received OK	Y	N	Y	2	12	4	34C4	6	dest NIDA					6ddd MTI byte
Datagram Rejected	Y	N	Y	2	13	4	34D4	6	dest NIDA					6ddd MTI byte, error code
Stream Messages														
Stream Initiate Request	Y	N		2	14	4	34E4	6	dest NIDA					6ddd MTI byte, buffer size (2 bytes), Source Stream ID (1 byte), reserved byte, flags (tagged=0x80)
Stream Initiate Reply	Y	N		2	15	4	34F4	6	dest NIDA					6ddd MTI byte 0x4B, buffer size (2 bytes), Source Stream ID (1 byte), Dest Stream ID, flags (tagged=0x80; error info)
Stream Data Send	Y	N		3	9	4	3694	7	dest NIDA					7ddd (stream IDs inferred on CAN); 8 bytes data
Stream Data Proceed	Y	N		3	10	4	36A4	6	dest NIDA					7ddd MTI byte, Stream IDs (2 bytes)
Stream Data Complete	Y	N		3	11	4	36B4	6	dest NIDA					7ddd MTI byte, Stream IDs (2 bytes); optional length (4 bytes)
			0 gets more priority			coding 1=carries EID 2=carries DID		0=simple MTI 1=complex MTI						d=dest NIDA f=flags
					Full value must be checked!			4=DestID datagram 5=DestID datagram last segment 6=DestID non-Stream 7=DestID stream data						If flags not specified, send and check 1 bits
Places these appear in code:					prototypes/Arduino/libraries/OpenLCB/OpenLcbCan.h prototypes/CBUS-PIC/canlib/frametypes.c									