

Base Data for MTI										Full MTI (e.g. as used on Ethernet)	CAN MTI	CAN Data
	Has Destination ID	Has Event ID	Simple node message	Priority (0 highest)	Type	Simple / Priority / Type	Extended flags	Flag & Expansion Nibble		MTI + flags	Top 17 bits of CAN header; odd refers to destination address.	Goes at start of CAN data, if present
Bits	1	1	1	2	5	8 hex	2	4 hex		16 bits hex	17 bits hex	8 hex
Base Messages												
Node number Allocate				0	0	00		7		F000		Not available on CAN
No Filtering				0	1	01		7		0017	18017	(Still under discussion)
Initialization Complete				0	8	08		7		0087	18087	Full Source Node ID
Verify Node ID Number	Y			0	10	0A				10A0	1Eddd	0A
Verify Node ID Number			Y	0	10	8A		7		08A7	188A7	
Verified Node ID Number			Y	0	11	8B		7		08B7	188B7	Full Source Node ID
Optional Interaction Rejected	Y			0	12	0C				10C0	1Eddd	0C MTI, error, optional information
Terminate Due to Error	Y			0	13	0D				10D0	1Eddd	0D MTI, error, optional information
Protocol Support Messages												
Protocol Support Inquiry	Y			1	14	2E				12E0	1Eddd	2E
Protocol Support Reply	Y			1	15	2F				12F0	1Eddd	2F Protocol flags
Event Exchange Messages												
Identify Consumer		Y	Y	1	4	A4		F		0A4F	18A4F	EventID
Consumer Identify Range		Y		1	5	25		F		025F	1825F	EventID w mask
Consumer Identified w validity unknown		Y		1	6	26	3	B		026B	1826B	EventID
Consumer Identified as currently valid		Y		1	6	26	0	8		0268	18268	EventID
Consumer Identified as currently invalid		Y		1	6	26	1	9		0269	18269	EventID
Consumer Identified (reserved)		Y		1	6	26	2	A		026A	1826A	EventID
Identify Producer		Y	Y	1	8	A8		F		0A8F	18A8F	EventID
Producer Identify Range		Y		1	9	29		F		029F	1829F	EventID w mask
Producer Identified w validity unknown		Y		1	10	2A	3	B		02AB	182AB	EventID
Producer Identified as currently valid		Y		1	10	2A	0	8		02A8	182A8	EventID
Producer Identified as currently invalid		Y		1	10	2A	1	9		02A9	182A9	EventID
Producer Identified (reserved)		Y		1	10	2A	2	A		02AA	182AA	EventID
Identify Events	Y			1	11	2B				12B0	1Eddd	2B
Identify Events			Y	1	11	AB		7		0AB7	18AB7	
Learn Event		Y	Y	1	12	AC		F		0ACF	18ACF	EventID
Producer/Consumer Event Report		Y	Y	1	13	AD		F		0ADF	18ADF	EventID
Other Messages												
Xpressnet				2	17	51		7		0517	18517	Xpressnet packet
Simple Node Ident Info Request	Y			2	18	52				1520	1Eddd	52
Simple Node Ident Info Reply	Y			2	19	53				1530	1Eddd	53 data bytes
Datagram Protocol												
Datagram Content (one frame)	Y			2	0	40				1400	1Addd	Datagram protocol id, data
Datagram Content (first frame)	Y			2	0	40					1Bddd	Datagram protocol id, data
Datagram Content (middle frame)	Y			2	0	40					1Cddd	Data (0-8 bytes)
Datagram Content (last frame)	Y			2	0	40					1Dddd	Data (0-8 bytes)
Datagram Received OK	Y			2	12	4C				14C0	1Eddd	4C MTI byte
Datagram Rejected	Y			2	13	4D				14D0	1Eddd	4D MTI byte, error code
Stream Messages												
Stream Initiate Request	Y			2	14	4E				14E0	1Eddd	4E MTI byte, buffer size (2 bytes), Source Stream ID (1 byte), reserved byte, flags (tagged=0x80)
Stream Initiate Reply	Y			2	15	4F				14F0	1Eddd	4F MTI byte 0x4B, buffer size (2 bytes), Source Stream ID (1 byte), Dest Stream ID, flags (tagged=0x80; error info)
Stream Data Send	Y			3	9	69				1690	1Fddd	(stream IDs inferred on CAN); 8 bytes data
Stream Data Proceed	Y			3	10	6A				16A0	1Eddd	6A MTI byte, Stream IDs (2 bytes)
Stream Data Complete	Y			3	11	6B				16B0	1Eddd	6B MTI byte, Stream IDs (2 bytes); optional length (4 bytes)

Places these appear in code:

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prototypes/C/libraries/OlcbTestCAN/obj/test
prototypes/C/libraries/OlcbCommonCAN/OpenLcbCan.h
prototypes/C/libraries/OpenLCB/OLCB_CAN_Buffer.cpp
prototypes/Arduino/libraries/OpenLCB/OpenLcbCan.h
prototypes/CBUS-PIC/canlib/frametypes.c
prototypes/ObjectiveC/OpenLcbLib/OlcbMtiDefinitions.h
prototypes/ObjectiveC/OpenLcbLib/OlcbTestDefinitions.h
prototypes/ObjectiveC/OpenLcbLib/MtiReformat.c
prototypes/java/src/org/openlcb/can/MessageBuilder.java

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