

	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; ddd 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			0000			Not available on CAN
No Filtering				0	1	01		7			2017	18017		(Still under discussion)
Initialization Complete				0	8	08		7			2087	18087		Full Source Node ID
Verify Node ID Number	Y			0	10	0A					30A0	1Eddd	0A	
" " " " with NID	Y			0	10	0A					30A0	1Eddd	0A	Full Source Node ID
Verify Node ID Number			Y	0	10	8A		7			28A7	188A7		
" " " " with NID			Y	0	10	8A		7			28A7	188A7		Full Source Node ID
Verified Node ID Number			Y	0	11	8B		7			28B7	188B7		Full Source Node ID
Optional Interaction Rejected	Y			0	12	0C					30C0	1Eddd	0C	MTI, error, optional information
Terminate Due to Error	Y			0	13	0D					30D0	1Eddd	0D	MTI, error, optional information
Protocol Support Messages														
Protocol Support Inquiry	Y			1	14	2E					32E0	1Eddd	2E	
Protocol Support Reply	Y			1	15	2F					32F0	1Eddd	2F	Protocol flags
Event Exchange Messages														
Identify Consumer		Y	Y	1	4	A4		F			2A4F	18A4F		EventID
Consumer Identify Range		Y		1	5	25		F			225F	1825F		EventID w mask
Consumer Identified w validity unknown		Y		1	6	26	3	B			226B	1826B		EventID
Consumer Identified as currently valid		Y		1	6	26	0	8			2268	18268		EventID
Consumer Identified as currently invalid		Y		1	6	26	1	9			2269	18269		EventID
Consumer Identified (reserved)		Y		1	6	26	2	A			226A	1826A		EventID
Identify Producer		Y	Y	1	8	A8		F			2A8F	18A8F		EventID
Producer Identify Range		Y		1	9	29		F			229F	1829F		EventID w mask
Producer Identified w validity unknown		Y		1	10	2A	3	B			22AB	182AB		EventID
Producer Identified as currently valid		Y		1	10	2A	0	8			22A8	182A8		EventID
Producer Identified as currently invalid		Y		1	10	2A	1	9			22A9	182A9		EventID
Producer Identified (reserved)		Y		1	10	2A	2	A			22AA	182AA		EventID
Identify Events	Y			1	11	2B					32B0	1Eddd	2B	
Identify Events			Y	1	11	AB		7			2AB7	18AB7		
Learn Event		Y	Y	1	12	AC		F			2ACF	18ACF		EventID
Producer/Consumer Event Report		Y	Y	1	13	AD		F			2ADF	18ADF		EventID
Other Messages														
Xpressnet				2	17	51		7			2517	18517		Xpressnet packet
Simple Node Ident Info Request	Y			2	18	52					3520	1Eddd	52	
Simple Node Ident Info Reply	Y			2	19	53					3530	1Eddd	53	data bytes
Datagram Protocol														
Datagram Content (one frame)	Y			2	0	40					3400	1Addd		Datagram protocol id, data
Datagram Content (first frame)	Y			2	0	40					3400	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					34C0	1Eddd	4C	MTI byte
Datagram Rejected	Y			2	13	4D					34D0	1Eddd	4D	MTI byte, error code
Stream Messages														
Stream Initiate Request	Y			2	14	4E					34E0	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					34F0	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					3690	1Fddd		(stream IDs inferred on CAN); 8 bytes data
Stream Data Proceed	Y			3	10	6A					36A0	1Eddd	6A	MTI byte, Stream IDs (2 bytes)
Stream Data Complete	Y			3	11	6B					36B0	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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