

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		
Verify Node ID Number		Y		0	10	8A		7		28A7	188A7			
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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