his is for reference only, and the definitive definitions are in the Standards 03/26/13 12:35 PM Full MTI Format						CAN											
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15									28	27 2	26 25 24	23 22 21 20 19 18 17 16 15 14 13 12 1			
		15	14 1	Datagram 21		9 8 7 6 5			•				2 3 4	5 6 7 8 9 10 11 12 13 14 15 16 1	7 18 19 20 21 22 23 24 25 26 27 28		
		Reserved	Reserved	5		Type within priority (decimal)	Simple Protocol Address present	Event# pre	Modifier w Priority/Ty	Full MTI (Hex)	Priority	Frame-typ	CAN Frame Type	CAN-MTI or Destination-alias ("Variable Part") (hex)	Source-alias	CAN Header (hex)	Data-Part {} = optional
	Number of bits in field:		1 1	1 1	2	5	1 1	1	2	16	1	1	3	12	12	29	64
	Initialization Complete	0	0 0	0 0	0	8	0 0	_		0100	1	1	1	100	SSS	[19100sss]	Full Source Node ID
	Verify Node ID Number Addressed	_	0 0			4	0 1			0488	1	-	1	488	SSS	[19488sss]	fddd
Basic	Verify Node ID Number Global Verified Node ID Number	-	0 0	-		11	1 0			0490	1		1	490 170	SSS SSS	[19490sss] [19170sss]	{Full Source Node ID}
	Optional Interaction Rejected	-	0 0	_		3	0 1			0068	1	-	1	068	SSS	[19068sss]	fddd, error, optional info
	Terminate Due to Error	Н—	0 0	_		5	0 1	-		00A8	1	-	1	0A8	SSS	[190A8sss]	fddd, error, optional info
rotocol	Protocol Support Inquiry	-	0 0			1	0 1	_		0828	1	1	1	828	SSS	[19828sss]	fddd
Support	Protocol Support Reply		0 0	\rightarrow	+	19	0 1	_		0668	1	_	1	668	sss	[19668sss]	fddd, Protocol flags
	Identify Consumer Consumer Range Identified	-	0 0			7 5	0 0			08F4 04A4	1		1	8F4 4A4	SSS SSS	[198F4sss]	EventID EventID with mask
	Consumer Identified w validity unknown		0 0			6	0 0	-	3	04C7	1	-	1	4C7	SSS	[194C7sss]	EventID
	Consumer Identified as currently valid	_	0 0	_		6	0 0	-	0	04C4	1	1	1	4C4	sss	[194C4sss]	EventID
	Consumer Identified as currently invalid	_	0 0	-		6	0 0	-	1	04C5	11 11	-	1	4C5	SSS	[194C5sss]	EventID
	Consumer Identified (reserved)		0 0	_		6 8	0 0	-	2	04C6 0914	1		1	4C6	SSS	[194C6sss]	EventID
Event	Identify Producer Producer Range Identified	-	0 0	_		9	0 0			0914	1		1	914 524	SSS SSS	[19914sss] [19524sss]	EventID EventID with mask
xchange	Producer Identified w validity unknown		0 0			10	0 0		3	0547	1		1	547	SSS	[19547sss]	EventID
	Producer Identified as currently valid	-	0 0			10	0 0		0	0544	1	1	1	544	sss	[19544sss]	EventID
	Producer Identified as currently invalid	-	0 0			10	0 0		1	0545	11 11	-	1	545	SSS	[19545sss]	EventID
	Producer Identified (reserved)	-	0 0			10	0 0	-	2	0546	1	-	1	546	SSS	[19546sss]	EventID
	Identify Events Addressed Identify Events Global	-	0 0		_	11	0 1			0968	1 1	_	1	968 970	SSS SSS	[19968sss] [19970sss]	fddd
	Learn Event	-	0 0			12	1 0			0594	1		1	594	SSS	[19594sss]	EventID
	Producer/Consumer Event Report	0	0 0	0 0	1	13	1 0			05B4	1	1	1	5B4	SSS	[195B4sss]	EventID
Other	Xpressnet	==	0 0			1	0 0			0820	1	_	1	820	SSS	[19820sss]	Xpressnet packet
Remote Button	Remote Button Request	==	0 0	_		10	0 1			0948	1	_	1	948	SSS	[19948sss]	fddd, data bytes
Button	Remote Button Reply Simple Node Ident Info Request	==	0 0	$\overline{}$		10	0 1		1	0949 0DE8	1		1	949 DE8	SSS SSS	[19949sss]	fddd, data bytes
Ident	Simple Node Ident Info Reply	-	0 0	-		16	0 1			0A08	1	-	1	A08	SSS	[19A08sss]	fddd, data bytes
	Datagram		0 0			2	0 1			1C48							
	CAN-Datagram Content (one frame)	_				ű					1	1	2	ddd	SSS	[1Adddsss]	Data (0-8 bytes)
otoarom	CAN Datagram Content (first frame)	\downarrow				"					1	1	3	ddd	SSS	[1Bdddsss]	Data (0-8 bytes)
atagram	→ CAN-Datagram Content (middle frame → CAN-Datagram Content (last frame)	1				ű					1	1	5	ddd ddd	SSS SSS	[1Cdddsss]	Data (0-8 bytes) Data (0-8 bytes)
	Datagram Received OK	0	0 0	0 0	2	17	0 1	0		0A28	1		1	A28	SSS	[19A28sss]	fddd
	Datagram Rejected	0	0 0	0 0	2	18	0 1	+		0A48	1	1	1	A48	sss	[19A48sss]	fddd, error code
	Stream Initiate Request	⊣—	0 0	_		6	0 1			0CC8	1 1		1	CC8	SSS	[19CC8sss]	fddd, buffer size, srcSID
Ctucom	Stream Initiate Reply	⊣—	0 0	_		3	0 1			0868	1		7	868	SSS	[19868sss]	fddd, buffer size, srcSID
Stream	Stream Data Send Stream Data Proceed	_	0 0	_		28	0 1	-		1F88 0888	1		1	ddd 888	SSS SSS	[1Fdddsss] [19888sss]	Data (0-8 bytes) fddd, srcSID, dstSID
	Stream Data Complete	-	0 0	_		5	0 1	-		08A8	1		1	8A8	SSS	[198A8sss]	fddd, srcSID, dstSID, { len
Extra	Node number Allocate	0	0 1	1 0	0	0	0 0	0		2000	1	4	1	000	999	[19000sss]	not carried on CAN
	No Filtering	0	0 1	1 0		1	0 0	0		2020	1	1	4	020	999	[19020sss]	(Still under discussion)
	Reserved for MTI Expansion			+	0	0					HH					+	
	Reserved for MTI Expansion Reserved for MTI Expansion	1			2	0										+ -	
	Reserved for MTI Expansion			+	3	0											
										_						, [<u> </u>
eneral Dat	agrams need to be fragmented and	٦ `			_						Γ,			$\overline{}$	f = Flags	Frame	
	ed into multiple CAN frames.				À	†					\				r r 0 0	Only	
						_								umns means that it is e, and should be checked.	r r 0 1	First	
	Priority Classes				,	,				identic	ai iu a	anou	iei value	s, and should be checked.	r r 1 0	Last	
	Description Initialization; Error handling			Pr	iority 0										r r 1 1 r = Send 0, o	Middle	
	Event transfer; Operation responses				1			CA	N Mes	sage	Types	s			1 - Schu 0, 0	TOTT CHECK.	
	Operation requests; Bulk data transfer res	spor	nses		2			Titl	le		R	R	Туре	Variable Part (binary)	Source-alias (hex)		
	Bulk data transfer requests				3	▼ .		\vdash	served		1		0	Obxxxx xxxx xxxx	SSS		
Dac'	ntions							N	bal		1		1	Obmmmm mmmm 0 mmm	SSS		
Descri	ptions Description								dressed tagram	-	1	-	2	0bmmmm mmmm 1mmm 0bdddd dddd dddd	SSS SSS		
	Reserved							-	tagram tagram		1		3	Obdddd dddd dddd	SSS		
	Special – Operationally special									Middle			4	Obdddd dddd dddd	SSS		
12	Stream or Datagram – used by Gateways	as i	ndicat	tion 1	to fragm	nent.			tagram		1	1	5	Obdddd dddd dddd	SSS		
10-11	Priority – indicates gross priority of messa	ge.							served		1	-	6	Obxxxx xxxx xxxx	SSS		
5-9	Type within priority							Str	eam		1 1	1	7	Obdddd dddd dddd	SSS		
	Simple protocol – (unaddressed) message					Assessed A. C. C.					-		eserved)[

OpenLCB MTI Definitions
This is for reference only, and the definitive definitions are in the Standards

2	Event present – this message has an event#.
0-1	Modifier within modifier type – message specific extra information

d, ddd, dddd dddd - destination alias x, xxx, xxxx xxxx xxxx – undefinied field

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OpenLCB MTI Definitions
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	Ger	neral		C	AN	
		Full MTI (Hex)	Data		CAN Header (hex)	Data-Part { } = optional
	Number of bits in field:	16	many		29	64
	Initialization Complete	0100	Source	Initialization Complete	[19100sss]	Full Source Node ID
	Verify Node ID Number Addressed	0488	Destination, Source	Verify Node ID Number Addressed	[19488sss]	fddd
Basic	Verify Node ID Number Global	0490	Source	Verify Node ID Number Global	[19490sss]	
	Verified Node ID Number	0170	Source	Verified Node ID Number	[19170sss]	{Full Source Node ID}
	Optional Interaction Rejected	0068	Destination, Source, error, optional	. ,	[19068sss]	fddd, error, optional info
	Terminate Due to Error	00A8 0828	Destination, Source, error, optional		[190A8sss]	fddd, error, optional info
Protocol	Protocol Support Inquiry		Destination, Source	Protocol Support Inquiry	[19828sss]	fddd
Support	Protocol Support Reply	0668	Destination, Source, Protocol flags		[19668sss]	fddd, Protocol flags
	Identify Consumer	08F4 04A4	EventID, Source	Identify Consumer	[198F4sss]	EventID
	Consumer Identify Range		EventID with Mask, Source	Consumer Identify Range	[194A4sss]	EventID with mask
	Consumer Identified w validity unknown	04C7	EventID, Source	Consumer Identified w validity unknown	[194C7sss]	EventID
	Consumer Identified as currently valid	04C4	EventID, Source	Consumer Identified as currently valid	[194C4sss]	EventID
	Consumer Identified as currently invalid	04C5	EventID, Source	Consumer Identified as currently invalid	[194C5sss]	EventID
	Consumer Identified (reserved)	04C6	EventID, Source	Consumer Identified (reserved)	[194C6sss]	EventID
	Identify Producer	0914	EventID, Source	Identify Producer	[19914sss]	EventID
Event	Producer Identify Range	0524	EventID with Mask, Source	Producer Identify Range	[19524sss]	EventID with mask
Exchange	Producer Identified w validity unknown	0547	EventID, Source	Producer Identified w validity unknown	[19547sss]	EventID
	Producer Identified as currently valid	0544	EventID, Source	Producer Identified as currently valid	[19544sss]	EventID
	Producer Identified as currently invalid	0545	EventID, Source	Producer Identified as currently invalid	[19545sss]	EventID
	Producer Identified (reserved)	0546	EventID, Source	Producer Identified (reserved)	[19546sss]	EventID
	Identify Events Addressed	0968	Destination, Source	Identify Events Addressed	[19968sss]	fddd
	Identify Events Global	0970	Source	Identify Events Global	[19970sss]	
	Learn Event		EventID, Source	Learn Event	[19594sss]	EventID
	Producer/Consumer Event Report	05B4	EventID, Source	Producer/Consumer Event Report	[195B4sss]	EventID
Other	Xpressnet	0820	Source, Xpressnet packet	Xpressnet	[19820sss]	Xpressnet packet
Ident	Simple Node Ident Info Request	0DE8	Destination, Source	Simple Node Ident Info Request	[19DE8sss]	fddd
idoni	Simple Node Ident Info Reply	0A08	Destination, Source, Data bytes	Simple Node Ident Info Reply	[19A08sss]	fddd, data bytes
				CAN-Datagram Content (one frame)	[1Adddsss]	Data (0-8 bytes)
	Datagram Content	1048	Destination, Source, Data bytes	CAN-Datagram Content (first frame)	[1Bdddsss]	Data (0-8 bytes)
Datagram		1040	Decimation, Cource, Data Syles	CAN-Datagram Content (middle frame	[1Cdddsss]	Data (0-8 bytes)
Datagram				CAN-Datagram Content (last frame)	[1Ddddsss]	Data (0-8 bytes)
	Datagram Received OK	0A28	Destination, Source	Datagram Received OK	[19A28sss]	fddd
	Datagram Rejected	0A48	Destination, Source, Error code	Datagram Rejected	[19A48sss]	fddd, error code
	Stream Initiate Request	0CC8	Destination, Source, Buffer size	Stream Initiate Request	[19CC8sss]	fddd, buffer size, srcSID
	Stream Initiate Reply	0868	Destination, Source, Buffer size	Stream Initiate Reply	[19868sss]	fddd, buffer size, srcSID
Stream	Stream Data Send	1F88	Destination, Source, Data bytes	Stream Data Send	[1Fdddsss]	Data (0-8 bytes)
	Stream Data Proceed	0888	Destination, Source, ID	Stream Data Proceed	[19888sss]	fddd, srcSID, dstSID
	Stream Data Complete	08A8	Destination, Source, ID, {len}	Stream Data Complete	[198A8sss]	fddd, srcSID, dstSID, { len
Fytra	Node number Allocate	2000	Source			
Extra	No Filtering	2020	Source			