This is for	reference only, and the definitive of	lefir	nitio	ns a	are in												CAN			
	04/24/13 08:33 AM	n	1 1	2 3	4 5	<b>Full MTI For</b> 6 7 8 9 10		2 13	14 15		28	27 .	26 25 24	23 22 2	1 20 19 18 17 16 15 14 13 12	2 11 10	CAN 0 9 8 7 6 5	4 3 2 1 0		
						9 8 7 6 5					1 20	1	2 3 4	5 6	7 8 9 10 11 12 13 14 15 16	6 17 18	3 19 20 21 22 23	24 25 26 27 28		
		Reserved	Reserved	Special Stream or Datagram	Priority	Type within priority (decimal)	Simple Protocol	Address present Event# present	Modifier within Priority/Type	Full MTI (Hex	Priority	Frame-type	CAN Frame Type	5 0 1	CAN-MTI or Destination-alias ("Variable Part") (hex)	0 17 16	Source-al		CAN Header (hex)	Data-Part { } = optional
	Number of bits in field:	1	1   1	1   1	2	5	1 1	1   1	2	16		1	3		12		12		29	64
	Initialization Complete	11		0 0		8	0 (	_		0100		1	1		100		SSS		[19100sss]	Full Source Node ID
	Verify Node ID Number Addressed	11		0 0		4	0 1	_		0488		-	1		488		SSS		[19488sss]	fddd
Basic	Verify Node ID Number Global	11-1		0 0	_	4	1 (	_		0490	_	_	1		490		SSS		[19490sss]	(Full Course Nede ID)
	Verified Node ID Number Optional Interaction Rejected	1	_	0 0		3	0 1			0170		-	1		170 068		SSS		[19170sss] [19068sss]	{Full Source Node ID} fddd, error, optional info
	Terminate Due to Error	1	_	0 0		5	0 /	_		000A		-	1		008 0A8		SSS		[19000sss]	fddd, error, optional info
Protocol	Protocol Support Inquiry	=	_	0 0		1	0 -	_		0828		$\overline{}$	<del>.</del> 1		828		SSS		[19828sss]	fddd
Support	Protocol Support Reply	-		0 0		19	0 -	_		0668	$\dashv$	1	1		668		SSS		[19668sss]	fddd, Protocol flags
	Identify Consumer	0	0 (	0 0	2	7	1 (	0 1		08F4	4 1	1	1		8F4		SSS		[198F4sss]	EventID
	Consumer Range Identified	-	_	0 0		5	0 (	_		04A	4 1	1	1		4A4		SSS		[194A4sss]	EventID with mask
	Consumer Identified w validity unknown	1		0 0		6	0 (			04C		-	1		4C7		SSS		[194C7sss]	EventID
	Consumer Identified as currently valid	-	_	0 0		6	0 (		0	04C		$\rightarrow$	1		4C4		SSS		[194C4sss]	EventID
	Consumer Identified as currently invalid	-	_	0 0		6	0 0		1	04C		$\rightarrow$	1		4C5		SSS		[194C5sss]	EventID
	Consumer Identified (reserved) Identify Producer	0	_	0 0		6 8	0 0	_	2	04C	_	$\rightarrow$	1		4C6 914		SSS		[194C6sss]	EventID EventID
Event	Producer Range Identified	-	_	0 0		9	0 (	_		0524	_	$\rightarrow$	1		914 524		SSS		[19914sss] [19524sss]	EventID with mask
Event Exchange	Producer Identified w validity unknown		_	0 0		10	0 0		3	054		$\rightarrow$	1		547		SSS		[19524sss]	EventID
	Producer Identified as currently valid	-	_	0 0		10	0 0		0	0544	_	$\rightarrow$	1		544		SSS		[19544sss]	EventID
	Producer Identified as currently invalid	-	_	0 0		10	0 (		1	054		$\rightarrow$	1		545		sss		[19545sss]	EventID
	Producer Identified (reserved)	0	0 (	0 0	1	10	0 (	0 1	2	0546	6 1	1	1		546		SSS		[19546sss]	EventID
	Identify Events Addressed	0	0 (	0 0	2	11	0 1	1 0		0968	8 1	1	1		968		SSS		[19968sss]	fddd
	Identify Events Global	-	_	0 0	_	11	1 (	_		0970		1	1		970		SSS		[19970sss]	
	Learn Event	-		0 0		12	1 (			0594		$\rightarrow$	1		594		SSS		[19594sss]	EventID
	Producer/Consumer Event Report		_	0 0		13	1 (			05B		$\rightarrow$	11		5B4		SSS		[195B4sss]	EventID
Traction	Traction Control Command	11	_	0 0		15	0 1			05E			1		5E8		SSS			fddd, data bytes
Other	Traction Control Reply	===		0 0		/	0 0	_		04E		_	1		4E8		SSS			fddd, data bytes
	Xpressnet  Remote Button Request	=	_	0 0		1 10	0 7		-	0948		=	1		820 948		SSS		[19820sss] [19948sss]	Xpressnet packet fddd, data bytes
Remote Button	Remote Button Reply		_	0 0		10	0 /	_	_	0949	= = = = = = = = = = = = = = = = = = = =	$\overline{}$	<u>'</u> 1		948		SSS		[19946sss]	fddd, data bytes
	Simple Node Ident Info Request	==	_	0 0	<del></del>	15	0 /	_	-	0DE		$\rightarrow$	1		DE8		SSS			fddd
Ident	Simple Node Ident Info Reply	-	_	0 0		16	0	_		0A0	_	_	1		A08		SSS			fddd, data bytes
	Datagram	0	0 (	0 1	3	2	0 1	1 0		1C4	8									
	CAN-Datagram Content (one frame)	l d				"				•	1	1	2		ddd		SSS		[1Adddsss]	Data (0-8 bytes)
	CAN-Datagram Content (first frame)					ű					1	1	3		ddd		SSS		[1Bdddsss]	Data (0-8 bytes)
Datagram	CAN-Datagram Content (middle frame					ű					1	1	4		ddd		SSS		[1Cdddsss]	Data (0-8 bytes)
	► CAN-Datagram Content (last frame)					"					1		5		ddd		SSS		[1Ddddsss]	Data (0-8 bytes)
	Datagram Received OK	-		0 0		17	0 1			0A2	<b>→</b>	_	1		A28		SSS		[19A28sss]	fddd
	Datagram Rejected			0 0		18	0 1	_		0A48		$\rightarrow$	1		A48		SSS		[19A48sss]	fddd, error code
	Stream Initiate Request Stream Initiate Reply		_	0 0		6 3	0 7	_		0CC 0868		_	1		CC8 868		SSS		[19CC8sss] [19868sss]	fddd, buffer size, srcSID fddd, buffer size, srcSID
Stream	Stream Data Send	╫	_	0 1	3	28	0 /	_		1F88	_	$\rightarrow$	7		ddd		SSS		[1Fdddsss]	Data (0-8 bytes)
0	Stream Data Proceed	╫	_	0 0		4	0 /			0888		-	1		888		SSS			fddd, srcSID, dstSID
	Stream Data Complete			0 0		5	0 -			08A8		_	1		8A8		sss			fddd srcSID, dstSID, { len }
Extra	Node number Allocate		_	1 0		0	0 (	_		2000	= ==	-	1		900		999		[19000sss]	not carried on CAN
	No Filtering	0	0	1 0	0	1	0 (	0 0		2020	0 4	1	1		020		sss		[19020sss]	(Still under discussion)
	Reserved for MTI Expansion			$\bot$	0	0						$\bot$								
	Reserved for MTI Expansion			+	1	0	++					_								
	Reserved for MTI Expansion			+	2	0	++				$\parallel \parallel$	+							+	
	Reserved for MTI Expansion			<u></u>	3	0	<u></u>													
		Ţ																	<del>ا</del> ر	
	agrams need to be fragmented and				_	- <b>⊿</b> `					1				Ň		4	f = Flags	Frame	
	Priority Classes														eans that it is nould be checked.			r r 0 0 r r 0 1 r r 1 0	Only First Last	
	Description			Pri	iority	<b> </b>											•	r r 1 1	Middle	
	Initialization; Error handling			+	0	<b> </b>			AN Mes	20000	Types					人		r = Send 0, 0	don't check.	
	Event transfer; Operation responses	non	000	+	1	-{			an wes	ssage			Tuno		Variable Bart (hiparu)	1	Source alice	(box)	•	
	Operation requests; Bulk data transfer res Bulk data transfer requests	hou	<b>ು</b> ೮೪	+	3	<b>₩</b>			tie eserved		R	$\rightarrow$	<b>Type</b> ∩		Variable Part (binary)  0bxxxx xxxx xxxx		Source-alias sss	(IIEX)		
	Bailt data transion requests			<u></u>				-	obal		1	_	1	0	bmmmm mmmm 0mmm		SSS			
Bit Descrip	ptions							<b>N</b>	dresse	d	1	_	<u>·</u> 1		bmmmm mmmm 1mmm		SSS			
	Description								atagram		1	_	2		Obdddd dddd dddd		sss			
14-15	Reserved								atagram		1	_	3		Obdddd dddd dddd		SSS			
13	Special – Operationally special								atagram		$\overline{}$	-	4		Obdddd dddd dddd		SSS			
12	Stream or Datagram – used by Gateways		ndicat	tion to	to fragn	nent.			atagram		1	-	5		Obdddd dddd dddd		SSS			
10-11	Priority – indicates gross priority of message	ge.							eserved		1	-	6		Obxxxx xxxx xxxx		SSS			
5-9	Type within priority							St	ream		1 1	1	7		Obdddd dddd dddd		SSS			

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

4	Simple protocol – (unaddressed) messages to be received by 'simple' nodes.
3	Address present – this message has an address.
2	Event present – this message has an event#.
0-1	Modifier within modifier type – message specific extra information

r, R – reserved KEY
s, sss, ssss ssss – source alias
d, ddd, dddd dddd – destination alias x, xxx, xxxx xxxx xxxx – undefinied field

04/24/2013 08:33:55

OpenLCB MTI Definitions
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04/24/13 08:33 AM

	Ger	neral		CAN					
		Full MTI (Hex)	Data		CAN Header (hex)	Data-Part {} = optional			
	Number of bits in field:	16	many		29	64			
	le it elle et en Oesselete	0400	0	latification Consolate	[40400]	Full Occurs Neda ID			
	Initialization Complete		Source	Initialization Complete	[19100sss]	Full Source Node ID			
	Verify Node ID Number Addressed		Destination, Source	Verify Node ID Number Addressed	[19488sss]	fddd			
Basic	Verify Node ID Number Global		Source	Verify Node ID Number Global	[19490sss]	(5    0   1   1    10)			
	Verified Node ID Number	0170 0068	Source	Verified Node ID Number	[19170sss]	{Full Source Node ID}			
	Optional Interaction Rejected		Destination, Source, error, optional		[19068sss]	fddd, error, optional info			
_	Terminate Due to Error		Destination, Source, error, optional		[190A8sss]	fddd, error, optional info			
Protocol	Protocol Support Inquiry	0828	Destination, Source	Protocol Support Inquiry	[19828sss]	fddd			
Support	Protocol Support Reply	0668		Protocol Support Reply	[19668sss]	fddd, Protocol flags			
	Identify Consumer	08F4	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		EventID, Source	Consumer Identified w validity unknown	[194C7sss]	EventID			
	Consumer Identified as currently valid		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)		EventID, Source	Consumer Identified (reserved)	[194C6sss]	EventID			
	Identify Producer		EventID, Source	Identify Producer	[19914sss]	EventID			
:			EventID with Mask, Source	Producer Identify Range	[19524sss]	EventID with mask			
	1 Toddoor Idontinod II Vallaity dilitiroitii		EventID, Source	Producer Identified w validity unknown	[19547sss]	EventID			
	Producer Identified as currently valid		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			
lalama	Simple Node Ident Info Request	0DE8	Destination, Source	Simple Node Ident Info Request	[19DE8sss]	fddd			
Ident	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)			
	Bata was Cantant	1010	Destination Course Data hada	CAN-Datagram Content (first frame)	[1Bdddsss]	Data (0-8 bytes)			
	Datagram Content	1048	Destination, Source, Data bytes	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		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		Destination, Source, ID, {len}	Stream Data Complete	[198A8sss]	fddd, srcSID, dstSID, { len			
	Node number Allocate	08A8 2000	Source		[	, c. cc.b, dotoib, [1011			
Extra			Source						