	reference only, and the definitive (2015-02-07 02:42					Full MTI For	mat						CAN				
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0							5	28 2	28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 0						
ı	Number of bits in field	Reserved	Reserved	or Datagram		Type within priority (decimal)		Event# present Modifier within Priority/Type		Priority	CAN Frame Type	CAN-MTI or Destination-alias ("Variable Part") (hex)	Source-alias	CAN Header (hex)	Data-Part {} = optional 64		
			0 0	1		5	1 . 1 . 1	1 2			1 1	12	12				
	Initialization Complete Initialization Complete (simple)	\rightarrow	0 0			8	0 0		010		1 1	100 110	SSS		Full Source Node ID Full Source Node ID		
	Verify Node ID Number Addressed		0 0			4	1 1		049		1 1	498	SSS		fddd Full Source Node		
Sasic I	Verify Node ID Number Global		0 0			4	1 0		049			490	SSS	[19490sss]	Full Source Node ID		
	Verified Node ID Number Verified Node ID Number (Simple)		0 0			11 11	0 0		016			160 170	SSS SSS	[19160sss] [19170sss]	{Full Source Node ID} {Full Source Node ID}		
	Optional Interaction Rejected		0 0			3	0 1		000		-	068	SSS	[19068sss]	fddd, error, optional info		
	Terminate Due to Error		0 0	_		5	0 1	_	00/		-	0A8	SSS		fddd, error, optional info		
	Protocol Support Inquiry Protocol Support Reply		0 0 0 0	_		1 19	0 1		082	_		828 668	SSS SSS	<u> </u>	fddd fddd, Protocol flags		
	Identify Consumer		0 0			7	1 0		080			8F4	SSS		EventID		
	Consumer Range Identified	0	0 0	0	1	5	0 0	1	04/	44 1 1	1 1	4A4	sss	[194A4sss]	EventID with mask		
	Consumer Identified w validity unknown	\rightarrow	0 0	_		6	0 0	_	040			4C7	sss		EventID		
	Consumer Identified as currently valid Consumer Identified as currently invalid	0	0 0	_		6	0 0	1 0	040		1 1	4C4 4C5	SSS		EventID EventID		
	Consumer Identified (reserved)		0 0	_	1	6	0 0	1 2	040		1 1	4C6	sss		EventID		
	Identify Producer		0 0	_		8	1 0		09			914	SSS	[19914sss]	EventID		
	Producer Range Identified Producer Identified w validity unknown		0 0	_		9 10	0 0	1 3	052			524 547	SSS		EventID with mask EventID		
_	Producer Identified w validity unknown Producer Identified as currently valid		0 0	_		10	0 0	1 0	054			544	SSS SSS		EventID		
	Producer Identified as currently invalid	0	0 0	0	1	10	0 0	1 1	054	15 1 1		545	SSS	[19545sss]	EventID		
	Producer Identified (reserved)		0 0			10	0 0		054			546	SSS		EventID		
	Identify Events Addressed Identify Events Global		0 0			11 11	0 1		096	_		968 970	SSS SSS	[19968sss] [19970sss]	fddd		
	Learn Event		0 0			12	1 0		059			594	sss		EventID		
	Producer/Consumer Event Report	0		_		13	1 0		058			5B4	SSS	[195B4sss]			
	Traction Control Command Traction Proxy Command	_	0 0	_		15 15	0 1	_	05E		1 1	5EA 1EA	SSS SSS		fddd, data bytes fddd, data bytes		
	Traction Control Reply		0 0			15	0 1	-	058		1 1	5E8	SSS		fddd, data bytes		
	Traction Proxy Reply	0	0 0	0	0	15	0 1		018	8 1 1	1 1	1E8	sss		fddd, data bytes		
	Xpressnet Parties Parties	_==	0 0			1	0 0		082			820	sss		Xpressnet packet		
	Remote Button Request Remote Button Reply		0 0			10 10	0 1	_	094			948 949	SSS SSS		fddd, data bytes fddd, data bytes		
	Simple Train Node Ident Info Request	0				13	0 1		09/			9A8	SSS		fddd		
	Simple Train Node Ident Info Reply	===	0 0	_		14	0 1		0D0		1	DC8	SSS		fddd, data bytes		
de ident i	Simple Node Ident Info Request Simple Node Ident Info Reply		0 0 0 0			15 16	0 1		0DI 0A		·	DE8 A08	SSS SSS		fddd fddd, data bytes		
	Datagram				3	2	0 1		1C		ı	Aud	333	[19/100333]	ludu, data bytes		
	CAN-Datagram Content (one frame)					ű				1 1		ddd	SSS		Data (0-8 bytes)		
atagram	CAN-Datagram Content (first frame) CAN-Datagram Content (middle frame)					ű				1 1	3	ddd ddd	SSS SSS		Data (0-8 bytes) Data (0-8 bytes)		
itagram	CAN-Datagram Content (Initiale Iranie)					и				1 1	5	ddd	SSS		Data (0-8 bytes)		
	Datagram Received OK		0 0			17	0 1		0A:		1	A28	sss	-	fddd		
	Datagram Rejected		0 0 0 0	_		18	0 1	_	0A4		1 1	A48	SSS		fddd, error code		
	Stream Initiate Request Stream Initiate Reply	\rightarrow	0 0	_		6 3	0 1		0C0		1 1	CC8 868	SSS		fddd, buffer size, srcSID fddd, buffer size, srcSID		
	Stream Data Send	0	_	_	3	28	0 1	0	1F8		7	ddd	sss		Data (0-8 bytes)		
	Stream Data Proceed		0 0	_		4	0 1	-	088		1 1	888	SSS		fddd, srcSID, dstSID		
	Stream Data Complete Node number Allocate		0 0 0 1	_		5 θ	0 1		0C/		1 1	CA8 000	SSS SSS		idda, srcSID, dstSID, {		
Eytra	No Filtering		0 1	_		4	0 0		202			020	SSS	[19020sss] /	(Still under discussion)		
	Reserved for MTI Expansion/Hold off				0	0		0	000		0	000	000	[00000000]			
	Reserved for MTI Expansion Reserved for MTI Expansion				0	0			000	00							
	Reserved for MTI Expansion				2	0											
	Reserved for MTI Expansion				3	0			Щ								
															7		
eral Data	agrams need to be fragmented and d into multiple CAN frames.				7	<i>'</i>				abla		Y .	f = Flags r r 0 0	Frame Only			
	Priority Classes				<u> </u>							ns means that it is nd should be checked.	r r 0 1 r r 1 0	First Last			
ĺ	Description			Pri	ority								r r 1 1	Middle]		
	Initialization; Error handling				0								r = Send 0, o	lon't check.			
	Event transfer; Operation responses				1				essag	e Types	R Type	Variable Dout (binami)	Source alies (how)				
	Operation requests; Bulk data transfer re Bulk data transfer requests	.spuil8		\pm	3	*	-	Title Reserve	d	1 1		Variable Part (binary) Obxxxx xxxx xxxx	Source-alias (hex)				
							\neg	Global		1 1	1 1	0bmmmm mmmm 0 mmm	SSS				
Descrip								Address		1 1		Obmann mmmm 1mmm	SSS				
	Description Reserved							Datagrar Datagrar				Obdddd dddd dddd Obdddd dddd dddd	SSS SSS				
	Special – Operationally special							Datagrar Datagrar				Obdddd dddd dddd	SSS				
12	Stream or Datagram – used by Gateways		dicat	ion to	fragm	ent.		Datagrar	n Last	1 1		Obdddd dddd dddd	SSS				
10-11	Priority – indicates gross priority of messa	age.						Reserve	d	1 1		Obxxxx xxxx xxxx	sss				
							11 11										
5-9	Type within priority Simple protocol – (unaddressed) messag	es to h	oe re	ceive	ed bv 's	imple' nodes.		Stream			reserved	Obdddd dddd dddd	SSS				
5-9 4 3	Simple protocol – (unaddressed) messag Address present – this message has an a Event present – this message has an eve	addres		ceive	ed by 's	simple' nodes.		Stream	L/I	r, R -	- reserved	sss – source alias	SSS				

OpenLCB MTI Definitions
This is for reference only, and the definitive definitions are in the Standards
2015-02-07 02:42

	Ger	neral		CAN					
		Full MTI (Hex)	Data		CAN Header (hex)	Data-Part { } = optional			
	Number of bits in field:	16	many		29	64			
		0400			[10100]				
	Initialization Complete	0100	Source	Initialization Complete	[19100sss]	Full Source Node ID			
	Verify Node ID Number Addressed	0498	Destination, Source	Verify Node ID Number Addressed	[19498sss]	fddd Full Source Node ID			
Basic	Verify Node ID Number Global	0490	Source	Verify Node ID Number Global	[19490sss]	(Full Course Neds ID)			
	Verified Node ID Number		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	00A8	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	Destination, Source, Protocol flags		[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)	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	0594	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			
1.14	Simple Node Ident Info Request	0DE8	Destination, Source	Simple Node Ident Info Request	[19DE8sss]	fddd			
ldent	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)			
				CAN-Datagram Content (first frame)	[1Bdddsss]	Data (0-8 bytes)			
	Datagram Content		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			Stream Initiate Request	[19CC8sss]	fddd, buffer size, srcSID			
	Stream Initiate Reply		Destination, Source, Buffer size	Stream Initiate Reply	[19868sss]	fddd, buffer size, srcSID			
Stream	Stream Data Send		Destination, Source, Data bytes	Stream Data Send	[1Fdddsss]	Data (0-8 bytes)			
	Stream Data Proceed		Destination, Source, ID	Stream Data Proceed	[19888sss]	fddd, srcSID, dstSID			
	Stream Data Complete		Destination, Source, ID, {len}	Stream Data Complete	[19CA8sss]	fddd, srcSID, dstSID, { len			
	Node number Allocate	2000			[.00.10000]				
Extra	No Filtering		Source						