	reference only, and the definitive on 02/08/15 06:48 AM	defi	initi	ons	are in	the Standard Full MTI Fo								CAN		02/08/2015
		0 1 2 3 4 5 6 7 8 9 10 11 15 14 13 12 11 10 9 8 7 6 5 4					0 11 1	1 12 13 14 15				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 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				
	Number of bits in field:	1 Reserved			1 Stream or Datagram 5 Priority	Type within priority (decimal)	<u>-</u> <u>-</u>	Event# present	Modifier within Priority/Type	Full MTI (Hex)	Priority	CAN Frame Type	CAN-MTI or Destination-alias ("Variable Part") (hex)	Source-alias 12	CAN Header (hex) 29	Data-Part { } = optional 64
	Initialization Complete			0		8	0 0			0100	1 1	1 1	100	SSS	[19100sss]	Full Source Node ID
	Verify Node ID Number Addressed Verify Node ID Number Global			0		4	0 1			0488	1 1	1 1 1 1	488 490	SSS SSS	[19488sss] [19490sss]	fddd
	Verified Node ID Number	0	0	0	0 0	11	1 (0 0		0170	1 1	1 1	170	SSS	[19170sss]	{Full Source Node ID}
	Optional Interaction Rejected Terminate Due to Error			0		3 5		1 0 1 0		0068 00A8	1 1	1 1	068 0A8	SSS	[19068sss] [190A8sss]	fddd, error, optional info
	Protocol Support Inquiry	==	_	0		1		1 0		0828	1 1	1 1	828	SSS	[19828sss]	fddd
	Protocol Support Reply			0		19		1 0		0668	1 1	1 1	668	SSS	[19668sss]	fddd, Protocol flags
	Identify Consumer Consumer Range Identified			0	0 2	7 5	0 0			08F4 04A4	1 1	1 1	8F4 4A4	SSS	[198F4sss] [194A4sss]	EventID EventID with mask
	Consumer Identified w validity unknown			0		6	0 0		3	04C7	1 1	1 1	4C7	SSS	[194C7sss]	EventID With mask
	Consumer Identified as currently valid			0		6	0 () 1	0	04C4	1 1		4C4	SSS		EventID
	Consumer Identified as currently invalid Consumer Identified (reserved)			0		6	0 0			04C5 04C6	1 1	1 1	4C5 4C6	SSS SSS	[194C5sss] [194C6sss]	EventID EventID
	Identify Producer			0		8	1 (0914	1 1	1 1	914	SSS	[19914sss]	EventID
Event	Producer Range Identified			0		9	0 (0524	1 1	1 1	524	SSS	[19524sss]	EventID with mask
	Producer Identified w validity unknown Producer Identified as currently valid			0		10	0 0	1 1	0	0547 0544	1 1	1 1	547 544	SSS SSS	[19547sss] [19544sss]	EventID EventID
	Producer Identified as currently invalid	0	0	0	0 1	10	0 () 1	-	0545	1 1	1 1	545	SSS	[19545sss]	EventID
	Producer Identified (reserved)	0	0	0	0 1	10	0 (2	0546	1 1		546	SSS	[19546sss]	EventID
	Identify Events Addressed Identify Events Global			0		11	0 1	0 0		0968	1 1		968 970	SSS SSS	[19968sss] [19970sss]	fddd
	Learn Event	0	0	0	0 1	12	1 () 1		0594	1 1		594	SSS	[19594sss]	EventID
Traction	Producer/Consumer Event Report	~-	_	0	_	13	1 (05B4	1 1	1 1	5B4	SSS	[195B4sss]	EventID
Control	Traction Control Command Traction Control Reply	_	_	0		15 15	0 /	1 0 1 0	3	05EB 01E9	1 1	1 1	5EB 1E9	SSS	[195EBsss] [191E9sss]	fddd, data bytes fddd, data bytes
	Traction Proxy Command		_	0		15	0 -	1 0	2	05EA	1 1	1 1	5EA	SSS SSS	[191E9888]	fddd, data bytes
	Traction Proxy Reply			0		15		1 0	0	01E8	1 1	<u>' ' ' </u>	1E8	SSS	[191E8sss]	fddd, data bytes
	Xpressnet Powerst		_	0		10	0 0	0 0	0	0820	1 1	1 1	820 948	SSS	[19820sss]	Xpressnet packet
	Remote Button Request Remote Button Reply		_	0		10		1 0	1	0549	1 1	1 1	549	SSS SSS	[19948sss] [19549sss]	fddd, data bytes fddd, data bytes
Traction	Simple Train Node Ident Info Request	0	0	0	0 3	13	0 -	1 0		0DA8	1 1		DA8	SSS	[19DA8sss]	fddd
	Simple Train Node Ident Info Reply			0		14		1 0		09C8	1 1		9C8	SSS	[199C8sss]	fddd, data bytes
oae laent	Simple Node Ident Info Request Simple Node Ident Info Reply			0		15 16	-	1 0 1 0		0DE8 0A08	1 1	· · · · · · · · · · · · · · · · · · ·	DE8 A08	SSS SSS	[19DE8sss] [19A08sss]	fddd fddd, data bytes
	Datagram				1 3	2	0 -	1 0		1C48						
	CAN-Datagram Content (one frame) CAN-Datagram Content (first frame)					и					1 1	1 2	ddd ddd	SSS	[1Adddsss]	Data (0-8 bytes) Data (0-8 bytes)
atagram	CAN-Datagram Content (mist frame) CAN-Datagram Content (middle frame	2				и					1 1	1 4	ddd	SSS SSS	[1Cdddsss]	Data (0-8 bytes)
	CAN-Datagram Content (last frame)					"					1 1	1 5	ddd	SSS	[1Ddddsss]	Data (0-8 bytes)
	Datagram Received OK Datagram Rejected			0		17 18	0 -	1 0 1 0		0A28 0A48	1 1		A28 A48	SSS SSS	[19A28sss] [19A48sss]	fddd fddd, error code
	Stream Initiate Request	٦٣=	_			6		1 0		0CC8	1 1	1 1	CC8	SSS	[19CC8sss]	fddd, buffer size, srcSID
	Stream Initiate Reply	_	_			3		1 0		0868	1 1	·	868	SSS	[19868sss]	fddd, buffer size, srcSID
	Stream Data Send Stream Data Proceed	_	0	0	1 3 0 2	28		1 0 1 0		1F88 0888	1 1	1 7	ddd 888	SSS	[1Fdddsss] [19888sss]	Data (0-8 bytes) fddd, srcSID, dstSID
	Stream Data Complete	_	_	_		5	0 -	1 0		08A8	1 1	1 1	8A8	SSS SSS		fddd, srcSID, dstSID, { I
	Node number Allocate	_	_	1		0	0 (2000	1 1		000	888	[19000sss]	not carried on CAN
	No Filtering Reserved for MTI Expansion	0	0	1	0 0	0	0 (0 0		2020	1 1	1 1	020	\$ \$\$\$	[19020sss]	(Still under discussion)
	Reserved for MTI Expansion				1	0										
	Reserved for MTI Expansion				2	0										
	Reserved for MTI Expansion				3	0										
		٦ ,	_							-				f = F1	J F	7
	agrams need to be fragmented and d into multiple CAN frames.				7	- ♠				\				f = Flags r r 0 0	Frame Only	1
					*								umns means that it is	r r 0 1	First	
4	Priority Classes				Dulante					Identica	ai to ar	nother value	e, and should be checked.	r r 1 0	Last	
	Description Initialization; Error handling				Priority 0									r r 1 1 r = Send 0,	Middle don't check.	
	Event transfer; Operation responses				1		-	CA	N Mes	ssage T	ypes			T Solid 6,	i acii t ciiocii.	
	Operation requests; Bulk data transfer res	spor	nses	3	2	1		Tit				Type	Variable Part (binary)	Source-alias (hex)		
	Bulk data transfer requests				3	J 7		-	eserved obal		1 1		Obxxxx xxxx xxxx Obmmmm mmmm 0 mmm	SSS SSS		
t Descrip	otions							\neg	dresse	d	1 1		0bmmmm mmmm 1mmm	SSS		
III-MTI bit	Description								atagram		1 1	_	Obdddd dddd dddd	SSS		
	Reserved Special – Operationally special							_	atagram atagram		1 1		Obdddd dddd dddd Obdddd dddd dddd	SSS SSS		
	Stream or Datagram – used by Gateways	as i	indic	catio	n to fragn	nent.			atagram		1 1		Obdddd dddd dddd	SSS		
10-11	Priority – indicates gross priority of messa							Re	eserved		1 1		Obxxxx xxxx xxxx	SSS		
	Type within priority Simple protocol – (unaddressed) message	20 to	n ha	reco	aived by !	eimnla' nodes		Stı	ream		1 1	1 7 - reserved	Obdddd dddd dddd	SSS		
	Address present – this message has an ad			1 C CE	Sived by	ompie noues.				VEV	0.00		s ssss – source alias			
3										KEY						
2	Event present – this message has an eve Modifier within modifier type – message sp												dd dddd – destination alias x xxxx – undefinied field			

OpenLCB MTI Definitions
This is for reference only, and the definitive definitions are in the Standards
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	Ger	neral		CAN				
		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		
D	Verify Node ID Number Addressed	0488	Destination, Source	Verify Node ID Number Addressed	[19488sss]	fddd		
	Verify Node ID Number Global	0490	Source	Verify Node ID Number Global	[19490sss]			
Basic	Verified Node ID Number	0170	Source	Verified Node ID Number	[19170sss]	{Full Source Node ID}		
	Optional Interaction Rejected	0068	Destination, Source, error, optional	Optional Interaction Rejected	[19068sss]	fddd, error, optional info		
	Terminate Due to Error	00A8	Destination, Source, error, optional	Terminate Due to Error	[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	Protocol Support Reply	[19668sss]	fddd, Protocol flags		
	Identify Consumer	08F4	EventID, Source	Identify Consumer	[198F4sss]	EventID		
	Consumer Identify Range	04A4	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		
	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		
Ident	Simple Node Ident Info Request	0DE8	Destination, Source	Simple Node Ident Info Request	[19DE8sss]	fddd		
	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		Doctination Source Data bytes	CAN-Datagram Content (first frame)	[1Bdddsss]	Data (0-8 bytes)		
Determen	Datagram Content	1046	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	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		
Evtra	Node number Allocate	2000	Source					
Extra	No Filtering	2020	Source					