	reference only, and the definitive of 11/30/19 06:29 PM			_	, ,	Full MTI For				 				CAN			
			0 1 2 3 4 5 6 7 8 9 10 1 15 14 13 12 11 10 9 8 7 6 5 4										23 22 21 20 19 18 17 16 15 14 13 12 1 5 6 7 8 9 10 11 12 13 14 15 16 1				
]	Number of bits in field:	Reserved		or Datagram	·		Simple Protocol Address present			III Siriyi	Frame-type		CAN-MTI or Destination-alias ("Variable Part") (hex)	Source-alias 12		CAN Header (hex) 29	Data-Part { } = optional 64
			0 0) 0			0 0 0		010		1 1	1	100		H		
- t	Initialization Complete Verify Node ID Number Addressed		0 0		1	8 4	0 1 0		048		1 1	1	488	SSS		[19100sss] [19488sss]	Full Source Node ID fddd
Basic	Verify Node ID Number Global		0 0		1	4	1 0 0		049	_	1 1	1	490	SSS	_	[19490sss]	
	Verified Node ID Number	-	0 0		0	11	1 0 0		017		1 1	1	170	SSS	-	[19170sss]	{Full Source Node ID}
1	Optional Interaction Rejected Terminate Due to Error	+	0 0		0	3 	0 1 0		000		1 1 1 1		068 0A8	SSS	-	[19068sss]	fddd, error, optional info
	Protocol Support Inquiry	-	0 0	_	2	<u>5</u> 1	0 1 0		082		1 1		828	SSS	_	[19828sss]	fddd, error, optional info
	Protocol Support Reply	_	0 0	_	1	19	0 1 0		066		1 1	1	668	SSS	-	[19668sss]	fddd, Protocol flags
ŀ	Identify Consumer	-	0 0			7	1 0 '		081		1 1		8F4	SSS	-	[198F4sss]	EventID
- t	Consumer Range Identified Consumer Identified w validity unknown	-	0 0		1	5 6	0 0 7		04/		1 1 1 1		4A4 4C7	SSS	_	[194A4sss] [194C7sss]	EventID with mask EventID
, , , , , , , , , , , , , , , , , , ,	Consumer Identified as currently valid	-	0 0		1	6	0 0	_	040		1 1		4C4	SSS		[194C4sss]	EventID
· ·	Consumer Identified as currently invalid	-	0 0		1	6	0 0	_	040		1 1	1	4C5	SSS	_	[194C5sss]	EventID
	Consumer Identified (reserved) Identify Producer	┈	0 0		2	6 8	0 0 7		040		1 1 1 1		4C6 914	SSS		[194C6sss]	EventID EventID
	Producer Range Identified	┈	0 0		1	9	0 0		052		1 1		524	SSS	_	[19914sss] [19524sss]	EventID with mask
	Producer Identified w validity unknown	₩	0 0		1	10	0 0		054		1 1	1	547	SSS	+	[19547sss]	EventID
- t	Producer Identified as currently valid	-	0 0		1	10	0 0		054		1 1		544	SSS	_	[19544sss]	EventID
- t	Producer Identified as currently invalid Producer Identified (reserved)		0 0	_	1	10 10	0 0 7		054		1 1 1 1		545 546	SSS	_	[19545sss] [19546sss]	EventID EventID
- t	Identify Events Addressed		0 0	_	2	11	0 1 (096		1 1		968	SSS		[19968sss]	fddd
	Identify Events Global	-	0 0		2	11	1 0 0		097		1 1	1	970	SSS		[19970sss]	
-	Learn Event		0 0			12	1 0 1		059		1 1		594	SSS	_	[19594sss]	EventID
	Producer/Consumer Event Report Traction Control Command	~	0 0		 	13 15	0 1 0		05E		1 1		5B4 5E8	SSS			EventID fddd, data bytes
1	Traction Control Reply	+-	0 0	-	0	15	0 1 0		016		1 1	1	1E8	SSS		[191E8sss]	fddd, data bytes
	Traction Proxy Command (obsolete)	_	0 0	_		15	0 1 0		098	-	1 1	1	9E9	SSS		[199E9sss]	fddd, data bytes
	Traction Proxy Reply (obsolete) Xpressnet	_	0 0	_		15 1	0 1 0		058		1 1 1 1	1 1	5E9 820	SSS	+ + -	[195E9sss]	fddd, data bytes Xpressnet packet
	Remote Button Request	==	0 0	_		10	0 1 0		094	_ =	1 1		948	SSS	+	[19948sss]	fddd, data bytes
Button	Remote Button Reply	0	0 0	0 0	1	10	0 1 (054	49 1	1 1		549	SSS		[19549sss]	fddd, data bytes
	Simple Train Node Ident Info Request	-	0 0	_		13	0 1 0		0D/		1 1		DA8	SSS		[19DA8sss]	fddd
	Simple Train Node Ident Info Reply Simple Node Ident Info Request	-	0 0	_		14 15	0 1 0		090 0DI	_ =	1 1	1 1	9C8 DE8	SSS		[199C8sss] [19DE8sss]	fddd, data bytes fddd
ode ident +	Simple Node Ident Info Reply	-	0 0			16	0 1 (0A		1 1		A08	SSS			fddd, data bytes
	Datagram	0	0 0) 1	3	2	0 1 0)	1C								In
	CAN-Datagram Content (one frame) CAN-Datagram Content (first frame)					u					1 1 1 1	3	ddd ddd	SSS		[1Adddsss]	Data (0-8 bytes) Data (0-8 bytes)
atagram	CAN-Datagram Content (middle frame					"					1 1	4	ddd	SSS	-	[1Cdddsss]	Data (0-8 bytes)
	CAN-Datagram Content (last frame)					ű					1 1	5	ddd	SSS		[1Ddddsss]	Data (0-8 bytes)
	Datagram Received OK	-	0 0			17 18	0 1 0		0A2		1 1 1 1		A28 A48	SSS	-	[19A28sss]	fddd fddd, error code
	Datagram Rejected Stream Initiate Request	-	0 0			6	0 1 0		000		1 1		CC8	SSS		[19A48sss] [19CC8sss]	fddd, buffer size, srcSID
F	Stream Initiate Reply	_	0 0	_	2	3	0 1 ()	086		1 1	1	868	SSS		[19868sss]	fddd, buffer size, srcSID
+	Stream Data Send	-	0 0	_	3	28	0 1 0		1F8		1 1		ddd	SSS		[1Fdddsss]	Data (0-8 bytes)
	Stream Data Proceed Stream Data Complete	-	0 0	_		<u>4</u> 5	0 1 0		088		1 1 1 1		888 8A8	SSS		[19888sss] [198A8sss]	fddd, srcSID, dstSID fddd, srcSID, dstSID, { le
	Node number Allocate	-	0 1	_		0	0 0 0		200		1 1		900	SSS	\vdash		not carried on CAN
	No Filtering	0	0 1	1 0	0	1	0 0 0)	202	20 4	1 1	4	920	SSS		[19020sss]	(Still under discussion)
	Reserved for MTI Expansion Reserved for MTI Expansion	<u> </u>		+	0	0									oxdot		
	Reserved for MTI Expansion				2	0											
	Reserved for MTI Expansion				3	0											
	grams need to be fragmented and I into multiple CAN frames.				—	· 🔥				\				f = Flags	\vdash	Frame	
	Time manapie of its marries.	J							A R	led valu	ue in	these colu	umns means that it is	r r 0 0 r r 0 1	_	Only First	_
(Priority Classes					\neg			ider	ntical to	o ano	other value	, and should be checked.	r r 1 0	++-	Last	
	Description			Pri	ority									r r 1 1	<u>Ļ</u>	Middle	<u> </u>
	Initialization; Error handling Event transfer; Operation responses			+	0			AN Me	ssan	e Tvn	105			r = Send 0,	don	't check.	
	Operation requests; Bulk data transfer res	spoi	nses		2			Title	ooug			Туре	Variable Part (binary)	Source-alias (hex)	1		
	Bulk data transfer requests				3			Reserved	t		1 1		Obxxxx xxxx xxxx	SSS			
Descrip	tions						The	Global Addresse	2d	-	1 1 1 1		0bmmmm mmmm 0 mmm 0bmmmm mmmm 1 mmm	SSS SSS			
	Description							Datagram		-++	1 1	2	Obdddd dddd dddd	SSS			
14-15	Reserved							Datagram	n First	: 1	1 1	3	Obdddd dddd dddd	SSS			
	Special – Operationally special		الحصا	41a *	- F	ont .		Datagram			1 1		Obdddd dddd dddd	SSS	1		
12	Stream or Datagram – used by Gateways Priority – indicates gross priority of messa		ındıcat	tion to	o tragm	ent.		Datagram Reserved		-+	1 1 1 1	5 6	0bdddd dddd dddd 0bxxxx xxxx xxxx	SSS			
		Ju.					п п Г	v CU			. '			555	1		
10-11	Type within priority							Stream		1	1 1	7	Obdddd dddd dddd	SSS			
10-11 5-9 4	Simple protocol – (unaddressed) message			eceive	ed by 's	imple' nodes.		Stream		r,	R – ı	reserved		SSS			
10-11 5-9 4 3		ddre	ess.	eceive	ed by 's	imple' nodes.		Stream	K	r, s,	R – ı	reserved , ssss ssss	Obdddd dddd dddd s ssss – source alias dd dddd – destination alias	SSS]		

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			
Basic	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]				
	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			
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			
Ident	Simple Node Ident Info Request	0DE8	Destination, Source	Simple Node Ident Info Request	[19DE8sss]	fddd			
idelit	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		Destination, Source, Data bytes	CAN-Datagram Content (first frame)	[1Bdddsss]	Data (0-8 bytes)			
Datagram			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			
Extra	Node number Allocate		Source						
-Alia	No Filtering	2020	Source						