	reference only, and the definitive d 45250.37			110	ui o		Full MTI For					\rceil ┌─				CAN		
	40230.01						6 7 8 9 1	0 11	12				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					
		15	14		_	1 10	9 8 7 6 5	5 4	3	2 1 0		0	1 2 3	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		
			1		Datagram			_	뉟									
			,					Protocol	present	vithin Vithin			o o					
		ved	ved	<u>_</u>	n or	ے	Type within	Pro e	d ss	# pr Ferv	Full	₂	Frame-type Fran Forn	N.	CAN-MTI or Destination-alias			
		Reserved	eser	Special	Stream	jori	priority	mpl	Simple Protocol Address present	Event# p Modifier Priority/T	MTI	Priority	E Frai	me	("Variable Part")		CAN Header	
[Number of bits in field:			1 1		2 2	(decimal)	<u>්</u>		ш́ ≥ँ⊡ 1 2	(Hex)	4	上 Forn	mat	(hex)	Source-alias	(hex)	{ } = optional
Į.						2	5						1 3	•	12	12	29	64
The state of the s	Initialization Complete	-		0		0	8		0		0100				100	SSS	[19100sss]	Full Source Node ID
ŀ	Verify Node ID Number Addressed Verify Node ID Number Global	-	0		-	1	4 4	0	0		0488				488 490	SSS	[19488sss] [19490sss]	fddd
asic +	Verified Node ID Number	0	-			0	11		0		0170				170	SSS	[19430333]	{Full Source Node ID}
	Optional Interaction Rejected	-	0	_		0	3		1		0068		1 1	ı	068	SSS	[19068sss]	fddd, error, optional in
	Terminate Due to Error	=		0	_	0	5	_	-		00A8	1	1 1		0A8	SSS	[190A8sss]	fddd, error, optional in
	Protocol Support Inquiry	-	-	0	_	2	1	0	-	0	0828				828	SSS	[19828sss]	fddd
	Protocol Support Reply Identify Consumer	-	0			2	19 7		0		0668 08F4		_		668 8F4	SSS	[19668sss]	fddd, Protocol flags EventID
ŀ	Consumer Range Identified	-	0			1	5		0		04A4				4A4	SSS	[194A4sss]	EventID with mask
ŀ	Consumer Identified w validity unknown	-	0		0	1	6		0	_	04C7				4C7	SSS	[194C7sss]	EventID
	Consumer Identified as currently valid	-	0		-	1	6		-	1 0	04C4		1 1 1		4C4	SSS	[194C4sss]	EventID
l l	Consumer Identified as currently invalid	-	-	0	_	1	6		0		04C5			1	4C5	SSS	[194C5sss]	EventID
1	Consumer Identified (reserved)		0	0		1	6		0		04C6		1 1		4C6	SSS	[194C6sss]	EventID EventID
1	Identify Producer Producer Range Identified		0		-	2	9		0		0914 0524				914 524	SSS	[19914sss] [19524sss]	EventID EventID with mask
	Producer Identified w validity unknown	0	-			1	10		0		0524				547	SSS	[19524sss]	EventID Will Mask
vent	Producer Identified as currently valid	-	0			1	10	0	0	1 0	0544		1 1		544	SSS	[19544sss]	EventID
	Producer Identified as currently invalid	-	0		-	1	10	_	0		0545				545	SSS	[19545sss]	EventID
ŀ	Producer Identified (reserved)	_	_	0		1	10		0		0546				546	SSS	[19546sss]	EventID
ŀ	Identify Events Addressed	-	-	0	_	2	11 11		0		0968				968 970	SSS	[19968sss] [19970sss]	fddd
	Identify Events Global Learn Event			0			12		0		0594				594	SSS SSS	[19570sss]	EventID
	PCER - Producer/Consumer Event Report	_				1	13			1 0	05B4				5B4	SSS	[195B4sss]	EventID
	CAN-PCER with data, first frame						u			_		1	1 1		5B7	SSS	[195B7sss]	EventID
	→ CAN-PCER with data, middle frame						"					1	1 1	l	5B6	SSS	[195B6sss]	Data (8 bytes)
	CAN-PCER with data, last frame		0		0	4	4.5		4	0	0550	1	1 1		5B5	SSS	[195B5sss]	Data (1-8 bytes)
	Traction Control Command Traction Control Reply	_	-	0	-	0	15 15	0	1		05E8 01E8	HH	1 1		5E8 1E8	SSS SSS	[195E8sss] [191E8sss]	fddd, data bytes fddd, data bytes
	Traction Proxy Command (obsolete)			0		2	15	0	-	0 1	09E9	11 11	1 1		9E9	SSS	[199E9sss]	fddd, data bytes
- 1	Traction Proxy Reply (obsolete)	_	-	0	-	1	15	0	1		05E9	\mathbf{H}	1 1	ı	5E9	SSS	[195E9sss]	fddd, data bytes
ther	Xpressnet	0	0	0	0	2	1	0	0	0	0820	1	1 1		820	SSS	[19820sss]	Xpressnet packet
mote	Remote Button Request	-	-	0		2	10	_	-		0948			1	948	SSS	[19948sss]	fddd, data bytes
	Remote Button Reply	==	=	0	_	1	10		1		0549				549 DAG	SSS	[19549sss]	fddd, data bytes
	Simple Train Node Ident Info Request Simple Train Node Ident Info Reply	-	-	0	_	2	13 14		1		0DA8				DA8 9C8	SSS	[19DA8sss] [199C8sss]	fddd fddd, data bytes
	Simple Node Ident Info Request	-	$\overline{}$	0	-	3	15	0	-	_	0DE8				DE8	SSS	[19DE8sss]	fddd
le ident	Simple Node Ident Info Reply			0		2	16	0			0A08		1 1	ı	A08	SSS	[19A08sss]	fddd, data bytes
	Datagram	0	0	0	1	3	2	0	1	0	1C48							
	CAN-Datagram Content (one frame)	-					"					1	1 2		ddd	SSS	[1Adddsss]	Data (0-8 bytes)
agram	CAN Datagram Content (first frame)		-				"					1	1 3	3	ddd	SSS	[1Bdddsss]	Data (0-8 bytes)
agrain	CAN-Datagram Content (middle frame) CAN-Datagram Content (last frame)	1					66					1	1 5	5	ddd ddd	\$88 \$88	[1Cdddsss]	Data (0-8 bytes) Data (0-8 bytes)
	Datagram Received OK	0	0	0	0	2	17	0	1	0	0A28	1	1 1		A28	SSS	[19A28sss]	fddd
	Datagram Rejected	0	0	0	0	2	18	0	1	0	0A48	1	1 1		A48	SSS	[19A48sss]	fddd, error code
	Stream Initiate Request	-	-	0		3	6	0		0	0008			1	CC8	SSS	[19CC8sss]	fddd, buffer size, srcS
i i	Stream Initiate Reply	1	0			2	3	0		0	0868		<u> </u>		868	SSS	[19868sss]	fddd, buffer size, srcS
l l	Stream Data Send Stream Data Proceed	0	0	0	_	2	28	0		0	1F88 0888		1 7		ddd 888	SSS SSS	[1Fdddsss] [19888sss]	Data (0-8 bytes) fddd, srcSID, dstSID
ŀ	Stream Data Complete	-	0		_	2	4 5	0			08A8		1 1		8A8	SSS	[198A8sss]	fddd, srcSID, dstSID,
	Node number Allocate	\sim	-	1	_	0	0		0		2000		1 1	-	000	999	[19000sss]	not carried on CAN
	No Filtering	_	-	1 (0	1		0		2020		1 1		020	999	[19020sss]	(Still under discussion
	Reserved for MTI Expansion					0	0											/
	Reserved for MTI Expansion Reserved for MTI Expansion				_	2	0										/	
	Reserved for MTI Expansion				_	3	0											
ral Data	agrams need to be fragmented and	1									1					f = Flags	Frame	
iai Dala	d into multiple CAN frames.				- /		7				\ \	J '	0 in 41	2001	no magne that it is	r r 0 0	Only	_
gmented					*		/								ns means that it is and should be checked.	r r 0 1 r r 1 0		_
gmented	Priority Classes		<u> </u>	F	Priori	ity	_ /									r r 1 1	Middle	
gmented	Priority Classes Description			-T	0				(CAN Me	ssage	Type	 es			r = Send 0,	don't check.	
gmented	Description Initialization; Error handling			\rightarrow	1	II.			•		- J	R	R Typ	ре	Variable Part (binary)	Source-alias (hex)		
gmented	Description Initialization; Error handling Event transfer; Operation responses Operation requests; Bulk data transfer res	pons	ses	\mp	1 2					Title	1				Obxxxx xxxx xxxx	999	1	
gmented	Description Initialization; Error handling Event transfer; Operation responses	pons	ses		1 2 3				F	Reserved Global		1	1 0)	0bmmmm mmmm 0 mmm	SSS		
gmented [Description Initialization; Error handling Event transfer; Operation responses Operation requests; Bulk data transfer res Bulk data transfer requests	pons	ses				≠			Reserved Global Addresse	ed	1 1	1 0 1 1 1 1)	0bmmmm mmmm 1mmm	SSS SSS		
Descrip MTI bit	Description Initialization; Error handling Event transfer; Operation responses Operation requests; Bulk data transfer res Bulk data transfer requests btions Description Reserved	pons	ses				*			Reserved Global Addresse Datagran Datagran	ed n Only n First	1 1 1 1	1 0 1 1 1 1 1 2 1 3		Obmmmm mmmm 1mmm Obdddd dddd dddd Obdddd dddd dddd	\$88 \$88 \$88 \$88		
Descrip-MTI bit 4-15 13 12	Description Initialization; Error handling Event transfer; Operation responses Operation requests; Bulk data transfer res Bulk data transfer requests ptions Description Reserved Special – Operationally special Stream or Datagram – used by Gateways a	as in			3		ent.			Reserved Global Addresse Datagran Datagran Datagran Datagran	ed n Only n First n Middle n Last	1 1 1 1	1 0 1 1 1 1 1 2 1 3 1 4		Obmmmm mmmm 1mmm Obdddd dddd dddd Obdddd dddd dddd Obdddd dddd	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$		
Descrip MTI bit 4-15 13 12 0-11	Description Initialization; Error handling Event transfer; Operation responses Operation requests; Bulk data transfer res Bulk data transfer requests ptions Description Reserved Special – Operationally special Stream or Datagram – used by Gateways a Priority – indicates gross priority of message	as in			3		ent.			Reserved Global Addresse Datagran Datagran Datagran Datagran Reserved	ed n Only n First n Middle n Last	1 1 1 1 1 1	1 0 1 1 1 1 1 2 1 3 1 4 1 5 1 6	5	Obmmmm mmmm 1mmm Obdddd dddd dddd Obdddd dddd dddd Obdddd dddd	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$		
escrip MTI bit 1-15 13 12 1-11 1-9	Description Initialization; Error handling Event transfer; Operation responses Operation requests; Bulk data transfer res Bulk data transfer requests ptions Description Reserved Special – Operationally special Stream or Datagram – used by Gateways a	as in	ndica	ation	3 to fra	agme				Reserved Global Addresse Datagran Datagran Datagran Datagran	ed n Only n First n Middle n Last	1 1 1 1 1 1 1 1 1 1 1 7	1 0 1 1 1 2 1 3 1 4 1 5 1 6 1 7	ved	Obmmmm mmmm 1mmm Obdddd dddd dddd Obdddd dddd dddd Obdddd dddd	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$		