Desoutter 🗞			CVI2 / TWINCVI2				Multi CVI			CVIx2 CVIC2 : 4.8A4				Multi CVIL2 Master : 2.6C6				CVI3 / TWINCVI3 / Workgroup			EABC (connected to a CVI3) EABC : v4.06.03			
	Last Firmware version			6.2A4				5.1E				2 : 4.8A4 2 : 4.8A4			Slave :	2.6C6			v1.6.9.6			CVI3 : 1.6		
ID	Licence Description	Rev 0/1	2	3 4 5	6 998 999	9 Rev 0/1	2 3	√ 4 5 6	998 999	Rev 0/1	2 3	4 5 6	998 999	Rev 0/1	2 3 4	5 6 998	999 Rev 0/	1 2 3	X 4 5	6 998 999	Rev 0/1 2	3 4	5 6 998 99	99 ID
	Communication messages																							AUD and
MID 0001 MID 0002	Communication start Communication start acknowledge	\ √	X	X X		\ √	X X	X		\ √	X X	X		V	x x x		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \	X		V V	√ X X		MID 0001 MID 0002
MID 0003	Communication stop	√				1				√				√			√				√			MID 0003
MID 0004	Request reply messages Command error	V								V				V			√				V			MID 0004
MID 0005	Command accepted	√				1				1				√			√				V			MID 0005
MID 0010	Parameter set messages Parameter set ID upload request	√				√				V				V			√				√			MID 0010
MID 0011	Parameter set ID upload reply	V				1				1				V			1				V			MID 0011
MID 0012 MID 0013	Parameter set data upload request Parameter set data upload reply	√ √	X	X X X		√ √	X X	X		1	x x	X		√ √	x x x x x		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X X			√ × ×	X		MID 0012 MID 0013
MID 0014	Parameter set selected subscribe	V				V				V				V			1				V			MID 0014
MID 0015 MID 0016	Parameter set selected Parameter set selected acknowledge	√ √				√ √				√ √				V			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		++		V			MID 0015 MID 0016
MID 0017	Parameter set selected unsubscribe	V				V				V				V			V				V			MID 0017
MID 0018 MID 0019	Select Parameter set Set Parameter set batch size	√ √				1				V				V			√ √				V			MID 0018 MID 0019
MID 0020	Reset Parameter set batch counter	√ (>=6.2A5)				√ (>=6.2A5)				х				Х			Х				Х			MID 0020
MID 0021 MID 0022	Lock at batch done subscribe Lock at batch done upload	X X				X				X				X			X				X			MID 0021 MID 0022
MID 0023 MID 0024	Lock at batch done upload acknowledge	Х				х				х				Х			Х				Х			MID 0023
MID 0024 MID 0025	Lock at batch done unsubscribe Parameter user set download request	X				X				X				X			X				X			MID 0024 MID 0025
MID 0030	Job message Job ID upload request		x								Y				× -									MID 0030
MID 0030	Job ID upload request Job ID upload reply	X X	X			X	X			X	X			X	X		1	V			1 1			MID 0030
MID 0032	Job data upload request	Х	Х	X		X	х х			Х	хх			Х	хх		√	\ \ \ \			V V	√		MID 0032
MID 0033 MID 0034	Job data upload reply Job info subscribe	X	X	X X		X	X X	X		X	X X	х		X	x x x		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \	X		V V	√ x		MID 0033 MID 0034
MID 0035	Job info	Х	Х	хх		X	X X	Х		Х	хх	X		Х	х х х		√	V V	Х		V V	√ X		MID 0035
MID 0036 MID 0037	Job info acknowledge Job info unsubscribe	X	X	X X		X	X X	X		X	x x	X		X	x x x		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \	X		V V	V X V		MID 0036 MID 0037
MID 0038	Select Job	Х	х			Х	Х			Х	х			Х	Х			√			√ √			MID 0038
MID 0039	Job restart Tool messages	X	X			X	X			X	X			X	X		X	X			X X			MID 0039
MID 0040	Tool data upload request	√ ./	Х	х х х		1	_ ^ _ ^	хх		1	хх	хх		V	х х х	X	V	V V	√ x		V V	хх	X	MID 0040
MID 0041 MID 0042	Tool data upload reply Disable tool	√ √	Х	XXX		√ √	X X	XX		√ (>=2.6)	XX	X √ (>=3.6BB)		√ √	XXX	X	V	V X	XX		V	XX	X	MID 0041 MID 0042
MID 0043 MID 0044	Enable tool	√				1				√ (>=2.6)				√			√		\Box		1	\Box		MID 0043 MID 0044
MID 0045	Disconnect tool request Set calibration value request	X				X				X				X			X				X			MID 0044
MID 0046	Set primary tool request VIN Messages	Х				X				X				Х			Х				Х			MID 0046
MID 0050	Vehicle ID Number download request	V				√				V				V			√				√			MID 0050
MID 0051 MID 0052	Vehicle ID Number subscribe Vehicle ID Number	√ √	X X			√ √	X X			√ √	X			√ √	X		√ √	√ √	\vdash		$\sqrt{}$			MID 0051 MID 0052
MID 0053	Vehicle ID Number acknowledge	V	X			V	X			V	X			Ì	X		V	V			i i			MID 0053
MID 0054	Vehicle ID Number unsubscribe Tightening result messages	√	X			√	Х			√	Х			√	X		√	√			√ √			MID 0054
MID 0060	Last tightening result data subscribe	$\sqrt{}$	х	ххх	хх	√	х х	х х х	X	V	хх	х х х	Х	√	х х х	х х х	√	√ √	V V	√ √	√ √	√ √	1 1 1	MID 0060
MID 0061 MID 0062	Last tightening result data Last tightening result data acknowledge	√ √	√ (>=6.1B)	X X X X X X		√ √		x x x x x x x	X	√ √		x x x x x x	X	√ √	x x x x x x		√ √	\ \ \ \ \	\ \ \ \ \	V V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \	\ \ \ \ \ \ \	MID 0061 MID 0062
MID 0063	Last tightening result data unsubscribe	V	Х	ххх	х х	Ì	х х	х х х	X	Ż	хх	х х х	X	V	x x x		V	1 1	1 1	1 1	i i	7 7	1 1 1	MID 0063
MID 0064 MID 0065	Old tightening result upload request Old tightening result upload reply	√ (>=5.1B) √ (>=5.1B)		X X X	_	√ (>=5.1B) √ (>=5.1B)		X X X X X X X X X X		√ (>=2.6) √ (>=2.6)		X X X		V	x x x x x		\ \ \ \ \ \	\ \ \ \ \ \ \ \	\ \ \ \ \ \	√	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \	V V	MID 0064 MID 0065
	Alarm messages	, , , , ,				, , , , , , ,				,														
MID 0070 MID 0071	Alarm subscribe Alarm	√ √				√ √				√ √				√ √			1				V			MID 0070 MID 0071
MID 0072	Alarm acknowledge	V				V				1				V			V				V			MID 0072
MID 0073 MID 0074	Alarm unsubscribe Alarm acknowledged on controller	√ √				√ √				√ √				V			V				V			MID 0073 MID 0074
MID 0075 MID 0076	Alarm acknowledged on controller acknowledge Alarm status	√ √				V				√ √				√ √			V				V			MID 0075 MID 0076
MID 0077	Alarm status acknowledge	√ √				V				V				V			V				V			MID 0077
MID 0078	Acknowledge alarm remotely on controller Time messages	х				Х				х				χ			V				√			MID 0078
MID 0080	Read time upload request	V				V				V				√							V			MID 0080
MID 0081 MID 0082	Read time upload reply Set Time	√ √				V V				√ √				√ √			V				√ ¥			MID 0081 MID 0082
	Multi-spindle status messages																							
MID 0090 MID 0091	Multi-spindle status subscribe Multi-spindle status	X X				X				X				X			√ >=1.5. ⁻ √ >=1.5. ⁻				X			MID 0090 MID 0091
MID 0092	Multi-spindle status acknowledge	X				X				х				х			√ >=1.5.°	1.9			х			MID 0092
MID 0093	Multi-spindle status unsubscribe Multi-spindle result messages	х				X				Х				Х			√ >=1.5.	1.9			Х			MID 0093
MID 0100	Multi-spindle result subscribe	х	х	х		х	х х			х	хх				хх		√ >=1.5.°				х х	х		MID 0100
MID 0101 MID 0102	Multi-spindle result Multi-spindle result acknowledge	X X	x	X		X X	X X			X X	X X				X X X		√ >=1.5.· √ >=1.5.·				X X	X		MID 0101 MID 0102
MID 0102	Multi spindle result unsubscribe	х	х	х		х	х х			х	хх				x x		√ >=1.5.				X X			MID 0103
MID 0105	PowerMACS result data Last PowerMACS tightening result data subscribe	х	х	х		X	хх			x	хх			х	хх		х	хх			х х	x		MID 0105
MID 0106	Last PowerMACS tightening result Station data	х	х	х		х	хх			х	хх			Х	хх		X	хх			X X			MID 0106
MID 0107 MID 0108	Last PowerMACS tightening result Bolt data Last PowerMACS tightening result data acknowledge	X X	X	X		X	X X			X X	X X X				X X X		X	х х х х			X X	X		MID 0107 MID 0108
	Last PowerMACS tightening result data unsubscribe	X	Х	Х		Х	х х				хх				хх		Х	хх			х х	Х		MID 0109

CVI CVIL2 A8A4 Master : 2.6C6 Last Firmware version 6.2A4 5.1E CVIR2 : 4.8A4 Slave : 2.6C6 V1.6.9.6 CVIR2 : 4.8A4 Slave : 2.6C6 V1.6.9.6 CVIR2 : 4.8A4 V1.6.9.6 V1.6.9 CVIR2 : 4.8A4 V1.6.9 CVIR2 : 4.8A4 V1.6.9 CVIR2 : 4.8A4	EABC: v4.06.03 CVI3: 1.6.9.6
Color Colo	CV/3: 1.6.9.6
D	A
MID 0110 Display user text on compact x x x x x x x x x	3 4 5 6 998 999 ID
MID 0111 Display user text on graph √	MID 0110
MID 0120 Job line control info subscribe X X X X X X X X X	MID 0111
MID 0120 Job line control info subscribe X X X X X X X X X	MID 0113
MID 0122 Job line control alert 1 x <t< th=""><th>MID 0120</th></t<>	MID 0120
MID 0123 Job line control alert 2 x <t< th=""><th>MID 0121 MID 0122</th></t<>	MID 0121 MID 0122
MID 0125 Job line control info acknowledge x	MID 0122 MID 0123
MID 0126 Job line control info unsubscribe X I X	MID 0124 MID 0125
MID 0128 Job batch increment X<	MID 0125
MID 0129	MID 0127
MID 0130 Job off	MID 0128 MID 0129
	MID 0130
MID 0131 Set Job line control start x x x x MID 0132 Set Job line alert 1 x	MID 0131 MID 0132
MID 0133 Set Job line alert 2 x x x x x x x x x x x x x x x x x x	MID 0133
MID 0140 Execute dynamic Job request x x x x x x x x x x x x x x x x x x x	V MID 0140
MID 0150 Identifier download request x	MID 0150
MID 0151 Multiple identifiers work order subscribe x x x x x x x x x x x x x x x x x x x	MID 0151 MID 0152
MID 0153 Multiple Identifiers work order acknowledge x x x x x x x x x x x x x x x x x x x	MID 0153
MID 0154 Multiple Identifiers work order unsubscribe x x x x x x x x x x x x x x x x x x x	MID 0154 MID 0155
MID 0156 Reset latest Identifier x x x x	MID 0156
MID 0157 Reset all Identifiers x x x x x x x x x x x x x x x x x x x	MID 0157
MID 0200 Set externally controlled relays ✓ X X X X X X X	MID 0200
MID 0210 Status externally monitored inputs subscribe X V (>=3.689) X MID 0211 Status externally monitored inputs √ (>=2.6) X ✓ √ (>=2.6)	MID 0210 MID 0211
MID 0212 Status externally monitored inputs acknowledge ✓	MID 0212
MID 0213 Status externally monitored inputs unsubscribe	MID 0213 MID 0214
MID 0215 IO device status reply x x x x x x x x x x x x x x x x x x x	MID 0215
MID 0216 Relay function subscribe X X X X MID 0217 Relay function X	MID 0216 MID 0217
MID 0218 Relay function acknowledge x x x x x x x x x x x x x x x x x x x	MID 0218
MID 0219 Relay function unsubscribe x x x x x x x x x x x x x x x x x x x	MID 0219 MID 0220
MID 0221 Digital input function x	MID 0221
MID 0222 Digital input function acknowledge x x x x x x x x x x x x x x x x x x x	MID 0222 MID 0223
MID 0224 Set digital input function x	MID 0224
MID 0225 Reset digital input function x \ \frac{\sqrt{\sq}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}}} \sqnt{\sqnt{\sqrt{\sqrt{\sqrt{\	MID 0225
MID 0240 User data download	MID 0240
MID 0241 User data subscribe X X X X X MID 0242 User data X	MID 0241 MID 0242
MID 0243 User data acknowledge x x x x x x x x x x x x x x x x x x x	MID 0243
MID 0244 User data unsubscribe x x x x x x x x x x x x x x x x x x x	MID 0244
MID 0250 Selector socket info subscribe	MID 0250
MID 0251 Selector socket info √ √ √ √ √ √ √ √ √ √ ✓	MID 0251 MID 0252
MID 0253 Selector socket info unsubscribe	MID 0253
MID 0254 Selector control green lights √ X X MID 0255 Selector control red lights X X X X	MID 0254 MID 0255
Tool Tag	
MID 0260 Tool Tag ID request X </th <th>MID 0260 MID 0261</th>	MID 0260 MID 0261
MID 0262 Tool Tag ID x x x x x x x x x x x x x x x x x x	MID 0262
MID 0263 Tool Tag ID acknowledge X X X X MID 0264 Tool Tag ID unsubscribe X	MID 0263 MID 0264
Controller reboot	
MID 0270 Controller reboot request x x x x x x x x x x x x x x x x x x x	MID 0270
MID 0300 Histogram upload request x x x x x x x x x x x x x x x x x x x	MID 0300
MID 0301 Histogram upload reply x x x x x x x x x x x x x x x x x x x	MID 0301
MID 0400 Automatic/Manual mode subscribe x	MID 0400
MID 0402 Automatic/Manual mode acknowledge x x x x x x x x x x x x x x x x x x x	MID 0401 MID 0402
MID 0403 Automatic/Manual mode unsubscribe x x x x x x x x x x x x x x x x x x x	MID 0403
MID 0410 AutoDisable settings request X X X X X X X X X X X X X X X X X X X	MID 0410 MID 0411
Open Protocol Commands Disabled	
MID 0420 Open Protocol commands disabled subscribe x x x x x x x x x x x x x x x x x x x	MID 0420 MID 0421
MID 0422 Open Protocol commands disabled acknowledge x x x x x x x x x x x x x x x x x x x	MID 0422
MID 0423 Open Protocol commands disabled unsubscribe x x x x x x x x x x x x x x x x x x x	MID 0423
MID 9999 Keep alive message	MID 9999

Desoutter Controllers - Open Protocol MID list

	Desoutter ?		FF			*			
		CVI2 / TWINCVI2	Multi CVI	CVIx2	Multi CVIL2	CVI3 / TWINCVI3 / Workgroup	EABC (connected to a CVI3)		
	Last Firmware version	6.2A4	5.1E	CVIC2 : 4.8A4 CVIR2 : 4.8A4 CVIL2 : 4.8A4	Master : 2.6C6 Slave : 2.6C6	v1.6.9.6	EABC : v4.06.03 CVI3 : 1.6.9.6		
ID	Licence Description		Rev 0/1 2 3 4 5 6 998 999				X		
MID	Description	Particularity of some MID fu		Particularity of some MID functions of The values a		Particulary of some MID on CVI3 / EABC			
MID 0013	Parameter set data upload reply	The values are those of the last final speed phase of the pset.		the last final speed	phase of the pset.				
MID 0041	Tool data upload reply			Last calibration date field is the date for th In MultiCVIL, data corres					
MID 0042	Disable tool	The tool is disabled by using the spindle validation control (che source is PLC or Protocol(if existing)).	eck in station parameters menu that the spindle validation	The tool is disabled by using the spindle validation cont validation sou Don't use it if a fieldbus module is used in	rce is PLC).				
MID 0043	Enable tool	The tool is enabled by using the spindle validation control (che source is PLC or Protocol(if existing)).	ck in station parameters menu that the spindle validation	The tool is enabled by using the spindle validation cont validation sou Don't use it if a fieldbus module is used in	rce is PLC).				
MID 0044	Disconnect tool	The tool cannot be disconnected from CVI controllers. An erro	r message is returned to this frame.	The tool cannot be CVI controllers. A is returned to	n error message	CVI3 : The tool cannot be disconnected from CVI controllers. An error message is returned to this frame.			
MID 0065	Old tightening result upload reply	Batch counter and Batch status are always 0. They are not sto	ored in the result memory.	Batch counter and Batch They are not stored in					
MID 0071	Alarm Upload	Error codes returned by this function are those of CVI (E001 to	D E012).	Error codes returnor are those of CVI	ed by this function				
MID 0074	Alarm Acknowledged on torque controller	Alarms are acknowledged on the CVI controller after that the p	problem is resolved and a "start cycle" is done.	Alarms are acknowledge after that the problem is resolv	d on the CVI controller				
MID 0076	Alarm Status	Error codes returned by this function are those of CVI (from EC	001 to E012).	Error codes return are those of CVI (fr					
MID 0091	Multi-spindle status					CVI3 : Parameter number of spino	dles can have value from 1 to 99 (ACTA from 2 to 10)		
MID 0101	Multi-spindle result					CVI3 : Parameter number of spindles can have value f	from 1 to 99 (ACTA from 2 to 10). Tolerance and target come from the fi tool.		
MID 0111 MID 0113	Display user text on graph Flash green light on tool	This functionality does not exist for MULTICVI.				This functionality does not exist for CVI3 and EABC EABC : flash all lights 5 times			
MID 0113	Execute dynamic Job request					CVI3 : TU#1	C . Index i am lights 5 times 1 - Ch ID = 0 / TU#2 - Ch ID = 1 3C : TU#51 - Ch ID = 51		
MID 0200	Set "external controlled" relays	This functionality is enabled for one channel CVI, and for synctused as external outputs. The list of outputs is the following: Open Protocol relay id - CVI output id (on I/O port 2) - Pin not 1 - 7 - 8 - 8 - 9 - 9 - 10 - 10 - 10 - 10 - 10 - 10 -	umber - 6 - 5 - 3 - 2 - 18 - 19 - 14 - 12 - 10 - 35	MultiCVII2 : set ISaGRAF outputs : relay 1 = Output ISA 1 Outputs IS/ CVIxII : only 8 outputs can be driven. Th The "flash" mode	.2 slave 3 ay have to be configured as Pass Thru	"OP external outputs" only			
MID 0211	Status "external monitored inputs" upload	This functionality is enabled for one channel CVI, and for synclused as external inputs. The list of inputs is the following: Open Protocol input id - CVI input id (on I/O port 2) - Pin nut 1 - 1 2 - 2 3 - 3 4 - 4 5 - 5 6 - 6 7 - 7 8 - 8		MultiCVIL 2 : read ma	ster controller inputs	"OP external inputs" only			
MID 0217	Relay function					All o	outputs are not available		
MID 0221	Digital input function			CVIxII: only item (start cyc	le cont)	All i	inputs are not available		
MID 0224	Set digital input function			CVIxII: only item (start cyc		All i	inputs are not available		
MID 0225	Reset digital input function			CVIxII: only item (start cyc	le cont)	All inputs are not available			
MID 0251	Selector socket info			On CVIx2, the 5 first inputs are used for socket detect socket					
	Other	"No ack flag" n	not managed	"No ack flag"	not managed	"N	No ack flag" managed		