Inner-Tracker DAQ/LUMI data format Version 1.4 Date: 2020-10-13

Bit #	15	1	L4 13	12		11 10	9	8	7	6	5	4	3	2	2 1	0	S-link 128b order	Notes
Word																	(following page)	
0x00000000			М	agic #	<i>‡</i> 1	(0xC3)			Ver	Majo	or (1))	Ver	Mir	nor (3)		7	3 bit major version, 5 bit minor version
0x0000001		En	or Fla	gs	I					Chip	Cou	ınt					6	
0x00000002																	5	
0x00000003		Tri	g sour	ce							3X						4	Trig source: bit 0 → TCDS; bit 1 → LUMI
0x00000004																	3	
0x00000005																	2	
0x00000006		111 11															1	
0x00000007																	0	
0x00000008		-															7	
0x00000009		Chip 1 offset (in 16-bit words)(LSBs) 6															6	
		Chin Naffact (MCDa)																
		Chip N offset (MSBs)																
		Chip N offset (LSBs)															0	nodding filled with 'O'o
•••	N.4																7	padding filled with '0's Error flag bit $0 \rightarrow LOS$; bit $1 \rightarrow time-out$; bit $2 - chip$ disabled
	IVI																6	Efformag bit $0 \rightarrow 1005$, bit $1 \rightarrow 11111e^{-0}$ ut, bit $2 - 1111p$ disabled
																	5	ID to identify chip (optional, is controlled by ID bit in header)
•••		Raw chip 1 binary data															<u> </u>	ib to identify chip (optional, is controlled by ib bit in fleader)
•••		Naw Clip I biliary data																
		Raw chip 1 binary data Padding bits (End bit #)																Unused bits are padding with '0's
																Johnson Site and padaming than the		
	Magic #3 (0xE) Res ID? Error flags End bit #																	
		Chip N size (in 16-bit words)																
									(opti									
						F	Raw c	hip l	N bina	ary da	ata							
	F	Rav	v chip	N bina	ary	/ data			Р	addir	าg bi	its (En	nd bit	#)				
						Pad	ding	to 1	28 bit	word	d siz	ze					0	
			М	agic #	‡2	(0x3C)						Rese	erved	ı			7	
							T-DT	C-Li	nk un	ique I	ID						6	
									serve								5	
									serve								4	
									serve								3	
									serve								2	
									serve								1	
END								Res	serve	ľ							0	

Max size = 8+8+((2 + 3 + MAX_CHIP_SIZE) * N_CHIPS) = 16+ (~54000 * N_CHIPS)