

Item	Item Name	Item Description	Item Category	Item ID	Item Value	Item Unit	Item Type	Item Status	Item Error	Item Error Code	Item Error Message	Item Error Detail	Item Error Action	Item Error Comment
BPULTA	BmPermTcActTstUmsk		Beam PERMIT		5	bool	:1	bool blecsBPULTA.1;	name="blecsBPULTA" multiplexing	field-ref-item field-		>blecsBPULTA.set(pAcq)	(data.itemAvailable)"b	Beam permit line unmaskable test activation (send to BLETC cards)
BPMLTA	BmPermTcActTstMsk		Beam PERMIT		4	bool	:1	bool blecsBPMLTA.1;	name="blecsBPMLTA" multiplexing	field-ref-item field-		>blecsBPMLTA.set(pAcq)	(data.itemAvailable)"b	Beam permit line maskable test activation (send to BLETC cards)
BPLTCN	BmPermTcActCrdNbr		Beam PERMIT		0.3	unsigned	:4	unsigned blecsBPLTCN.4;	name="blecsBPLTCN" multiplexing	field-ref-item field-		>blecsBPLTCN.set(pAcq)	(data.itemAvailable)"b	Beam permit line test TC card number (send to BLETC cards)
BEFCA	BmEngyFrmCntA		Beam ENERGY	700034	700038	16.31	unsigned	:16	unsigned blecsBEFCA.16;	name="blecsBEFCA" multiplexing	field-ref-item field-	>blecsBEFCA.set(pAcq)	(data.itemAvailable)"b	Beam Energy 2 Beam energy reception Frame counter channel A
BEFCB	BmEngyFrmCntB		Beam ENERGY			0.15	unsigned	:16	unsigned blecsBEFCB.16;	name="blecsBEFCB" multiplexing	field-ref-item field-	>blecsBEFCB.set(pAcq)	(data.itemAvailable)"b	Beam energy reception Frame counter channel B
BEBCRA	BmEngyCrcCntA	BEAM_ENGY_CRC_CNT_A	Beam ENERGY	700038	70003C	16.31	unsigned	:16	unsigned blecsBEBCRA.16;	name="blecsBEBCRA" multiplexing	field-ref-item field-	>blecsBEBCRA.set(pAcq)	(data.itemAvailable)"b	Number of CRC errors at the reception of the beam energy (channel A) from the CISV card (AB/CO)
BEBCRB	BmEngyCrcCntB	BEAM_ENGY_CRC_CNT_B	Beam ENERGY			0.15	unsigned	:16	unsigned blecsBEBCRB.16;	name="blecsBEBCRB" multiplexing	field-ref-item field-	>blecsBEBCRB.set(pAcq)	(data.itemAvailable)"b	Number of CRC errors at the reception of the beam energy (channel B) from the CISV card (AB/CO)
BELFA	BmEngyLstFrmCntA	BEAM_ENGY_LOSTF_CNT_A	Beam ENERGY	70003C	700040	16.31	unsigned	:16	unsigned blecsBELFA.16;	name="blecsBELFA" multiplexing	field-ref-item field-	>blecsBELFA.set(pAcq)	(data.itemAvailable)"b	Number of lost frames (packets) at the reception of the beam energy (channel A) from the CISV card (AB/CO)
BELFB	BmEngyLstFrmCntB	BEAM_ENGY_LOSTF_CNT_B	Beam ENERGY			0.15	unsigned	:16	unsigned blecsBELFB.16;	name="blecsBELFB" multiplexing	field-ref-item field-	>blecsBELFB.set(pAcq)	(data.itemAvailable)"b	Number of lost frames (packets) at the reception of the beam energy (channel B) from the CISV card (AB/CO)
BETOV	BmEngyTimeOut	BEAM_ENGY_TIME_OUT	Beam ENERGY	700040	700044	28.31	unsigned	:4	unsigned blecsBETOV.4;	name="blecsBETOV" multiplexing	field-ref-item field-	>blecsBETOV.set(pAcq)	(data.itemAvailable)"b	Number of TIMEOUTS at the reception of the beam energy value from the CISV card (AB/CO)
						0.27	unsigned	:28	unsigned blecsSPARE118.28;					SPARE
V1H	HighV1High	HV_1_VOLT_HIGH		700044	700048	31	bool	:1	bool blecsV1H.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsV1H.set(pAcq)	(data.itemAvailable)"b	High Voltage 1 survey High Voltage power supply 1 / voltage higher
V1L	HighV1Low	HV_1_VOLT_LOW				30	bool	:1	bool blecsV1L.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsV1L.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 1 / voltage lower
I1H	HighV1High	HV_1_CURR_HIGH				29	bool	:1	bool blecsI1H.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsI1H.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 1 / current higher
I1L	HighV1Low	HV_1_CURR_LOW				28	bool	:1	bool blecsI1L.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsI1L.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 1 / current lower
						24.27	unsigned	:4	unsigned blecsSPARE123.4;					SPARE
HV1V	HighV1Value	HV_1_VOLT_VALUE				0.23	unsigned	:24	unsigned blecsHV1V.24;	name="blecsHV1V" multiplexing	field-ref-item field-	>blecsHV1V.set(pAcq)	(data.itemAvailable)"b	High Voltage 2 survey High Voltage power supply 1 / voltage value in [V] from 24 bits [HV = 3000/2**24]code]
V2H	HighV2High	HV_2_VOLT_HIGH	Survey	700048	70004C	31	bool	:1	bool blecsV2H.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsV2H.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 2 / voltage higher
V2L	HighV2Low	HV_2_VOLT_LOW				30	bool	:1	bool blecsV2L.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsV2L.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 2 / voltage lower
I2H	HighV2High	HV_2_CURR_HIGH				29	bool	:1	bool blecsI2H.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsI2H.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 2 / current higher
I2L	HighV2Low	HV_2_CURR_LOW				28	bool	:1	bool blecsI2L.1;	multiplexing-criteria="NONE"	field-ref-item field-	>blecsI2L.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 2 / current lower
						24.27	unsigned	:4	unsigned blecsSPARE129.4;					SPARE
HV2V	HighV2Value	HV_2_VOLT_VALUE				0.23	unsigned	:24	unsigned blecsHV2V.24;	name="blecsHV2V" multiplexing	field-ref-item field-	>blecsHV2V.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 2 / voltage value (24 bits) [HV = 3000/2**24]code] in V
HV1MAX	HighV1VMax		HV & LV Control and	70004C	700050	16.31	unsigned	:16	unsigned blecsHV1MAX.16;	name="blecsHV1MAX" multiplexing	field-ref-item field-	>blecsHV1MAX.set(pAcq)	(data.itemAvailable)"b	High Voltage 1 MinMax Max Value of HV1 since last read of the CPU (16bits) [Hvmax = 3000/2**16]code] in V
HV1MIN	HighV1VMin					0.15	unsigned	:16	unsigned blecsHV1MIN.16;	name="blecsHV1MIN" multiplexing	field-ref-item field-	>blecsHV1MIN.set(pAcq)	(data.itemAvailable)"b	Min Value of HV1 since last read of the CPU (16bits) [Hvmin = 3000/2**16]code] in V
HV2MAX	HighV2VMax			700050	700054	16.31	unsigned	:16	unsigned blecsHV2MAX.16;	name="blecsHV2MAX" multiplexing	field-ref-item field-	>blecsHV2MAX.set(pAcq)	(data.itemAvailable)"b	High Voltage 2 MinMax Max Value of HV2 since last read of the CPU (16bits) [Hvmax = 3000/2**16]code] in V
HV2MIN	HighV2VMin					0.15	unsigned	:16	unsigned blecsHV2MIN.16;	name="blecsHV2MIN" multiplexing	field-ref-item field-	>blecsHV2MIN.set(pAcq)	(data.itemAvailable)"b	Min Value of HV2 since last read of the CPU (16bits) [Hvmin = 3000/2**16]code] in V
HV1I	HighV1IValue	HV_1_CURR_VALUE		700054	700058	16.31	unsigned	:16	unsigned blecsHV1I.16;	name="blecsHV1I" multiplexing	field-ref-item field-	>blecsHV1I.set(pAcq)	(data.itemAvailable)"b	High Voltage Currents High Voltage power supply 1 / current value (16 bits) [I = 20/2**16]code] in mA
HV2I	HighV2IValue	HV_2_CURR_VALUE				0.15	unsigned	:16	unsigned blecsHV2I.16;	name="blecsHV2I" multiplexing	field-ref-item field-	>blecsHV2I.set(pAcq)	(data.itemAvailable)"b	High Voltage power supply 2 / current value (16 bits) [I = 20/2**16]code] in mA
HV1MAX	HighV1IMax			700058	70005C	16.31	unsigned	:16	unsigned blecsHV1MAX.16;	name="blecsHV1MAX" multiplexing	field-ref-item field-	>blecsHV1MAX.set(pAcq)	(data.itemAvailable)"b	High Voltage 1 Current MinMax Max Value of the HV1 current since last read of the CPU (16 bits) [I = 20/2**16]code] in mA
HV1MIN	HighV1IMin					0.15	unsigned	:16	unsigned blecsHV1MIN.16;	name="blecsHV1MIN" multiplexing	field-ref-item field-	>blecsHV1MIN.set(pAcq)	(data.itemAvailable)"b	Min Value of the HV1 current since last read of the CPU (16 bits) [I = 20/2**16]code] in mA
HV2MAX	HighV2IMax			70005C	700060	16.31	unsigned	:16	unsigned blecsHV2MAX.16;	name="blecsHV2MAX" multiplexing	field-ref-item field-	>blecsHV2MAX.set(pAcq)	(data.itemAvailable)"b	High Voltage 2 Current MinMax Max Value of the HV2 current since last read of the CPU (16 bits) [I = 20/2**16]code] in mA
HV2MIN	HighV2IMin					0.15	unsigned	:16	unsigned blecsHV2MIN.16;	name="blecsHV2MIN" multiplexing	field-ref-item field-	>blecsHV2MIN.set(pAcq)	(data.itemAvailable)"b	Min Value of the HV2 current since last read of the CPU (16 bits) [I = 20/2**16]code] in mA
				700060	700064	29.31	unsigned	:3	unsigned blecsSPARE141.3;					SPARE
VME3V3	Vme3Volt3Value					16.28	unsigned	:13	unsigned blecsVME3V3.13;	name="blecsVME3V3" multiplexing	field-ref-item field-	>blecsVME3V3.set(pAcq)	(data.itemAvailable)"b	VME Voltages 1 VME 3V3 (13 bits) with 10V full scale
						13.15	unsigned	:3	unsigned blecsSPARE143.3;					SPARE
VME3V3DEL	Vme3Volt3Delta			700064	700068	0.12	unsigned	:13	unsigned blecsVME3V3DEL.13;	name="blecsVME3V3DEL" multiplexing	field-ref-item field-	>blecsVME3V3DEL.set(pAcq)	(data.itemAvailable)"b	VME Voltages 2 Delta value of the VME3V3 => Vmax-Vmin [V=10/2**13]code] in V
						29.31	unsigned	:3	unsigned blecsSPARE145.3;					SPARE
VME5V	Vme5VoltValue					16.28	unsigned	:13	unsigned blecsVME5V.13;	name="blecsVME5V" multiplexing	field-ref-item field-	>blecsVME5V.set(pAcq)	(data.itemAvailable)"b	VME 5V (13 bits) with 10V full scale
						13.15	unsigned	:3	unsigned blecsSPARE147.3;					SPARE
VME5VDEL	Vme5VoltDelta			700068	70006C	0.12	unsigned	:13	unsigned blecsVME5VDEL.13;	name="blecsVME5VDEL" multiplexing	field-ref-item field-	>blecsVME5VDEL.set(pAcq)	(data.itemAvailable)"b	VME 5V Delta Delta value of the VME5V => Vmax-Vmin [V=10/2**13]code] in V
						29.31	unsigned	:3	unsigned blecsSPARE149.3;					SPARE
A5V5	Analog5VoltValue		Survey HV & LV Control and			16.28	unsigned	:13	unsigned blecsA5V5.13;	name="blecsA5V5" multiplexing	field-ref-item field-	>blecsA5V5.set(pAcq)	(data.itemAvailable)"b	Analog 5V (13 bits) with 10V full scale
						13.15	unsigned	:3	unsigned blecsSPARE151.3;					SPARE
A5V5DEL	Analog5VoltDelta			70006C	700070	0.12	unsigned	:13	unsigned blecsA5V5DEL.13;	name="blecsA5V5DEL" multiplexing	field-ref-item field-	>blecsA5V5DEL.set(pAcq)	(data.itemAvailable)"b	Analog 5V Delta Delta value of the A5V5 => Vmax-Vmin [V=10/2**13]code] in V
						29.31	unsigned	:3	unsigned blecsSPARE153.3;					SPARE
AVP15V	AnalogP15VoltValue					16.28	unsigned	:13	unsigned blecsAVP15V.13;	name="blecsAVP15V" multiplexing	field-ref-item field-	>blecsAVP15V.set(pAcq)	(data.itemAvailable)"b	Analog Voltages 2 Analog P15V reference (13 bits) [V = 10/2**13]code] in V
						13.15	unsigned	:3	unsigned blecsSPARE155.3;					SPARE
AVP15VDEL	AnalogP15VoltDelta			700070	700074	0.12	unsigned	:13	unsigned blecsAVP15VDEL.13;	name="blecsAVP15VDEL" multiplexing	field-ref-item field-	>blecsAVP15VDEL.set(pAcq)	(data.itemAvailable)"b	Analog Voltages 2 Delta value of the AP15V => Vmax-Vmin [V=30/2**13]code] in V
						29.31	unsigned	:3	unsigned blecsSPARE157.3;					SPARE
AVM15V	AnalogM15VoltValue					16.28	unsigned	:13	unsigned blecsAVM15V.13;	name="blecsAVM15V" multiplexing	field-ref-item field-	>blecsAVM15V.set(pAcq)	(data.itemAvailable)"b	Analog Voltages 3 Analog M15V reference (13 bits) [V = (20/2**13]code-10)] in V (result in signed val)
						13.15	unsigned	:3	unsigned blecsSPARE159.3;					SPARE
AVM15VDEL	AnalogM15VoltDelta			700074	700078	0.12	unsigned	:13	unsigned blecsAVM15VDEL.13;	name="blecsAVM15VDEL" multiplexing	field-ref-item field-	>blecsAVM15VDEL.set(pAcq)	(data.itemAvailable)"b	Analog Voltages 3 Delta value of the M15V => Vmin-Vmax [V=(20/2**13]code-10)] in V
						30.31	unsigned	:2	unsigned blecsSPARE161.2;					SPARE
AV5VREF	AnalogRef5VoltValue					20.29	unsigned	:10	unsigned blecsAV5VREF.10;	name="blecsAV5VREF" multiplexing	field-ref-item field-	>blecsAV5VREF.set(pAcq)	(data.itemAvailable)"b	Analog 5V reference (10 bits) with [V=10/2**10]code] in V
AV10VREFA	AnalogRefA10VoltValue					10.19	unsigned	:10	unsigned blecsAV10VREFA.10;	name="blecsAV10VREFA" multiplexing	field-ref-item field-	>blecsAV10VREFA.set(pAcq)	(data.itemAvailable)"b	Analog 10V_A reference (10 bits) with [V=20/2**10]code] in V
AV10VREFB	AnalogRefB10VoltValue					0.9	unsigned	:10	unsigned blecsAV10VREFB.10;	name="blecsAV10VREFB" multiplexing	field-ref-item field-	>blecsAV10VREFB.set(pAcq)	(data.itemAvailable)"b	Analog 10V_B reference (10 bits) with [V=20/2**10]code] in V
LV5A	Analog5VoltOk			700078	70007C	31	bool	:1	bool blecsLV5A.1;	name="blecsLV5A" multiplexing	field-ref-item field-	>blecsLV5A.set(pAcq)	(data.itemAvailable)"b	Low Voltage survey 1 LV Analog 5V ok
LV5AC	Analog5VoltCnt					0.30	unsigned	:31	unsigned blecsLV5AC.31;	name="blecsLV5AC" multiplexing	field-ref-item field-	>blecsLV5AC.set(pAcq)	(data.itemAvailable)"b	LV Analog 5V Counter. When below level, count with 25ns period
LV15A	Analog15VoltOk			70007C	700080	31	bool	:1	bool blecsLV15A.1;	name="blecsLV15A" multiplexing	field-ref-item field-	>blecsLV15A.set(pAcq)	(data.itemAvailable)"b	Low Voltage survey 2 LV Analog +15V ok
LV15AC	Analog15VoltCnt					0.30	unsigned	:31	unsigned blecsLV15AC.31;	name="blecsLV15AC" multiplexing	field-ref-item field-	>blecsLV15AC.set(pAcq)	(data.itemAvailable)"b	LV Analog +15V Counter. When below or higher level, count with 25ns period
LV3D3	Vme3Volt3Ok			700080	700084	31	bool	:1	bool blecsLV3D3.1;	name="blecsLV3D3" multiplexing	field-ref-item field-	>blecsLV3D3.set(pAcq)	(data.itemAvailable)"b	Low Voltage survey 3 LV Digital 3.3V ok
LV3D3C	Vme3Volt3Cnt					0.30	unsigned	:31	unsigned blecsLV3D3C.31;	name="blecsLV3D3C" multiplexing	field-ref-item field-	>blecsLV3D3C.set(pAcq)	(data.itemAvailable)"b	LV Digital 3.3V Counter. When below level, count with 25ns period
LV5D	Vme5VoltOk			700084	700088	31	bool	:1	bool blecsLV5D.1;	name="blecsLV5D" multiplexing	field-ref-item field-	>blecsLV5D.set(pAcq)	(data.itemAvailable)"b	Low Voltage survey 4 LV Digital 5V ok
LV5DC	Vme5VoltCnt					0.30	unsigned	:31	unsigned blecsLV5DC.31;	name="blecsLV5DC" multiplexing	field-ref-item field-	>blecsLV5DC.set(pAcq)	(data.itemAvailable)"b	LV Digital 5V Counter. When below level, count with 25ns period
LV12D	Vmr12VoltOk			700088	70008C	31	bool	:1	bool blecsLV12D.1;	name="blecsLV12D" multiplexing	field-ref-item field-	>blecsLV12D.set(pAcq)	(data.itemAvailable)"b	Low Voltage survey 5 LV Digital +12V ok
LV12DC	Vmr12VoltCnt					0.30	unsigned	:31	unsigned blecsLV12DC.31;	name="blecsLV12DC" multiplexing	field-ref-item field-	>blecsLV12DC.set(pAcq)	(data.itemAvailable)"b	LV Digital +12V Counter. When below or higher level, count with 25ns period
TCFUAB	TurnCntWhenfallUAB	TURN_CNT_WN_FALL_U_AORB	Beam PERMIT	70008C	700090	0.31	unsigned	:32	unsigned blecsTCFUAB.32;	name="blecsTCFUAB" multiplexing	field-ref-item field-	>blecsTCFUAB.set(pAcq)	(data.itemAvailable)"b	Turn counter when last fall of UA or UB Turn counter when last fall of UA or UB (32 bits)
TCFMAB	TurnCntWhenfallMAB	TURN_CNT_WN_FALL_M_AORB	Beam PERMIT	700090	700094	0.31	unsigned	:32	unsigned blecsTCFMAB.32;	name="blecsTCFMAB" multiplexing	field-ref-item field-	>blecsTCFMAB.set(pAcq)	(data.itemAvailable)"b	Turn counter when last fall of MA or MB Turn counter when last fall of MA or MB (32 bits)
				700094	700098	31.24	unsigned	:8	unsigned blecsSPARE177.8;					SPARE
BCFMAB	BunchCntWhenfallMAB	BUNCH_CNT_WN_FALL_M_AORB	Beam PERMIT			23.12	unsigned	:12	unsigned blecsBCFMAB.12;	name="blecsBCFMAB" multiplexing	field-ref-item field-	>blecsBCFMAB.set(pAcq)	(data.itemAvailable)"b	Bunch counter when last fall of MA or MB 12 bits counter
BCFUAB	BunchCntWhenfallUAB	BUNCH_CNT_WN_FALL_U_AORB	Beam PERMIT			11.0	unsigned	:12	unsigned blecsBCFUAB.12;	name="blecsBCFUAB" multiplexing	field-ref-item field-	>blecsBCFUAB.set(pAcq)	(data.itemAvailable)"b	Bunch counter when last fall of UA or UB 12 bits counter
FpgaFirmRev	Firmware revision		OVERVIEW	700098	70009C	31.0	unsigned	:32	unsigned blecsFpgaFirmRev.32;	name="blecsFpgaFirmRev" multiplexing	field-ref-item field-	>blecs		

ETRTBPL	ExtTstResThresBpl	-			2	bool	:1	bool blecsETRTBPL:1;	name="blecsETRTBPL"	field-ref-item field-		>blecsETRTBPL.set(p	(data.itemAvailable("b				External Test result: Threshold to BPL given by the CPU 1=passed, 0=failed
ETRCTYR	ExtTstResRdyConsist	-			1	bool	:1	bool blecsETRCTYR:1;	name="blecsETRCTYR"	field-ref-item field-		>blecsETRCTYR.set(p	(data.itemAvailable("b		field-ref-item field-		External Test result ready: Consistency
ETRCTY	ExtTstResConsist	-			0	bool	:1	bool blecsETRCTY:1;	name="blecsETRCTY"	field-ref-item field-		>blecsETRCTY.set(p	(data.itemAvailable("b		field-ref-item field-		External Test result: Consistency given by the CPU 1=passed, 0=failed
ETRTPBLET	-	-	702174	702178	16..31	unsigned	:16	unsigned blecsETRTPBLET:16;	name="blecsETRTPBLET"	field-ref-item field-		>blecsETRTPBLET.C	(data.itemAvailable("b			ExternalTestResultPerBLET	Threshold to BPL result per BLET, MSBit=BLET_1, LSBit=BLET_16, 1=passed, 0=failed
ETRCPBLET	-	-			0..15	unsigned	:16	unsigned blecsETRCPBLET:16;	name="blecsETRCPBLET"	field-ref-item field-		>blecsETRCPBLET.C	(data.itemAvailable("b				Consistency result per BLET, MSBit=BLET_1, LSBit=BLET_16, 1=passed, 0=failed
																	SPARE
BISFMB	-	-			4	bool	:1	bool blecsBISFMB:1;	name="blecsBISFMB" multiplexing	field-ref-item field-		>blecsBISFMB.set(pA	(data.itemAvailable("b		field-ref-item field-		BIS force beam permit maskable B
BISFMA	-	-			3	bool	:1	bool blecsBISFMA:1;	name="blecsBISFMA" multiplexing	field-ref-item field-		>blecsBISFMA.set(pA	(data.itemAvailable("b		field-ref-item field-		BIS force beam permit maskable A
BISFUB	-	-			2	bool	:1	bool blecsBISFUB:1;	name="blecsBISFUB" multiplexing	field-ref-item field-		>blecsBISFUB.set(pA	(data.itemAvailable("b		field-ref-item field-		BIS force beam permit Unmaskable B
BISFUA	-	-			1	bool	:1	bool blecsBISFUA:1;	name="blecsBISFUA" multiplexing	field-ref-item field-		>blecsBISFUA.set(pA	(data.itemAvailable("b		field-ref-item field-		BIS force beam permit Unmaskable A
																	SPARE
			70217C	702200		unsigned	[33]	unsigned blecsSPARE33[33];									SPARE