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TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50001	Main Periodic H/K	1	1	0	0	0	10	Y		EPDH,EPCE,EPEA

This telemetry packet contains the main periodic H/K, sampled every 8 seconds, of the whole EPCS chain.

In certain conditions part of the packet data could be not valid depending on the status of the units which H/K refers to.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	8

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50002	AdditionalPeriodicHK	1	1	0	0	0	11	Y		EPEA,EPCH,EPVC

This telemetry packet contains the additional periodic H/K, sampled every 64 seconds, of the whole EPCS chain.

In certain conditions part of the packet data could be not valid depending on the status of the units which H/K refers to.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	64

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50003	SuccessfulCommandAcc	3	1	0	0	0	0	Y		EPDH

Report indicating the telecommand identified by the Sequence Count has been correctly received and accepted by EPDH.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50004	UnsComAc-IllegalAPID	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal APID.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50005	UnsComEx-GenericErr	3	4	0	0	0	0	Y		EPDH

Report indicating the telecommand identified by the Sequence Count has not been correctly executed by EPCS due to a

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
130	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50006	Initialization Log	4	1	0	0	0	0	Y		EPDH

This telemetry packet contains a report giving some information about the successfull execution of the EPDH Initialization

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SafeStandBy mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50007	SuccessfulCommExecut	4	1	0	0	0	16	Y		EPDH

Report indicating the telecommand identified by the TC Sequence Count has been correctly executed by EPCS.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

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TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50008	FullScientificBuffer	4	1	0	0	0	47	Y		EPDH

Report indicating the Scientific Events have filled EPDH Scientific Buffer exceeding the 75% of the buffer capability.
EPDH will stop to insert in the buffer the following events and they will be counted.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	OBS/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50009	SuccLoadTaskTCExecut	4	1	0	0	0	18	Y		EPDH

Report indicating the Load Task telecommand identified by the TC Sequence Count has been correctly executed by EPCS.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	InFlightTestMode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50010	ErrorOnEnterDiagMode	4	3	0	0	0	114	Y		EPDH

This telemetry packet is transmitted when an error occurs sending LC EACMMODE; the EPCS returns to IDLE mode.
The identified task will not be descheduled.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50011	LBR Protocol Error	4	2	0	0	0	81	Y		EPDH

This telemetry packet contains the error identifier of a problem found during EPDH/EPCE communication activity on the

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50012	FailedInitialization	4	3	0	0	0	112	Y		EPDH

This telemetry packet contains a report giving information about the failed execution of the EPDH Initialization phase.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SafeStandBy mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50013	HBR Fifo Full	4	3	0	0	0	115	Y		EPDH

This telemetry packet contains the HBR channel identifier whose input Fifo has been found completely full.
The relevant HBR channel after this event will be automatically disabled.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	OBS/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50015	ThermalControlAlarm	4	3	0	0	0	127	Y		EPDH

This telemetry packet contains information about focal plane temperature exceeding of predefined limits.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

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TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50016	Fault on Switch	4	3	0	0	0	125	Y		EPDH

This telemetry packet contains information about a failure of an automatic switch opening command autonomously generated by EPDH following a current limiter intervention.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	I/IFT/EXH mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50017	CurrentLimitersActiv	4	3	0	0	0	126	Y		EPDH

This telemetry packet contains information about a current limiter intervention relevant to a EPDH switch.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	I/IFT/EXH mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50020	HBR Configuration	5	4	255	128	0	0	Y	F0037	EDPH

This telemetry packet contains the activation and the processing status for all the HBR channels.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	Idle / IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50021	HBR Buffer Size	5	4	255	129	0	0	Y	F0038	EDPH

This telemetry packet contains the buffer allocation for all the HBR channels.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	Idle / IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50022	ThermalMonitoringLim	5	4	255	160	0	0	Y	F0042	EPDH

Safety temperature limits used by EPDH when the normal operating thermal control of the focal plane is active.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	Idle / IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50023	EPDH Memory Dump	6	2	0	0	0	0	Y	F0051	EPDH

This telemetry packet contains the requested EPDH memory dump.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50024	EPCE Memory Dump	6	2	0	0	0	0	Y	F0064	EPCE

This telemetry packet contains the requested EPCE memory dump.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

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50025	EPEA 0 Memory Dump	6	2	0	0	0	0	Y	F0067	EPEA

This telemetry packet contains the requested EPEA quadrant 0 memory dump.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50026	EPEA 1 Memory Dump	6	2	0	0	0	0	Y	F0169	EPEA

This telemetry packet contains the requested EPEA quadrant 1 memory dump.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50027	EPEA 2 Memory Dump	6	2	0	0	0	0	Y	F0171	EPEA

This telemetry packet contains the requested EPEA quadrant 2 memory dump.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50028	EPEA 3 Memory Dump	6	2	0	0	0	0	Y	F0173	EPEA

This telemetry packet contains the requested EPEA quadrant 3 memory dump.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50029	EPDH Memory	6	3	0	0	0	0	Y	F0052	EPDH

This telemetry packet contains the checksum of the requested EPDH memory area by the dedicated telecommand.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50030	EPCE Memory	6	3	0	0	0	0	Y	F0065	EPCE

This telemetry packet contains the checksum of the requested EPCE memory area by the dedicated telecommand.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50031	EPEA0	6	3	0	0	0	0	Y	F0068	EPEA

This telemetry packet contains the checksum of the requested EPEA quadrant 0 memory area by the dedicated telecommand.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

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50032	EPEA1	6	3	0	0	0	0	Y	F0170	EPEA

This telemetry packet contains the checksum of the requested EPEA quadrant 1 memory area by the dedicated telecommand.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50033	EPEA2	6	3	0	0	0	0	Y	F0172	EPEA

This telemetry packet contains the checksum of the requested EPEA quadrant 2 memory area by the dedicated telecommand.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50034	EPEA3	6	3	0	0	0	0	Y	F0174	EPEA

This telemetry packet contains the checksum of the requested EPEA quadrant 3 memory area by the dedicated telecommand.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50035	TMPacketGeneratStat	9	1	0	0	0	0	Y	F0055	EPDH

This telemetry packet contains the generation status (generation enabled or disabled) of each TM packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50036	TimeVerificatReport	10	5	0	0	0	0	N	F0062	EPDH

This telemetry packet contains a copy of the EPDH local On Board Time.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	SSB/I/IFT mode	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50037	Imaging Data	15	1	0	0	0	1	N		EPDH,EPEA

These telemetry packets contain the events detected by EPCS during the observation in Imaging mode.

Additionally to events also ITB-Headers, Time Info and Count Info data formats can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50038	Timing Data	15	2	0	0	0	2	N		EPDH,EPEA

These telemetry packets contain the events detected by EPCS during the observation in Timing mode.

Additionally to events also ITB-Headers, Time Info and Count Info data formats can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

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50039	Burst Data	15	2	0	0	0	3	N		EPDH,EPEA

These telemetry packets contain the events detected by EPCS during the observation in Burst mode.

Additionally to events also ITB-Headers, Time Info and Count Info data formats can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50040	Diagnostic Data	15	3	0	0	0	5	N		EPDH,EPEA

This packets contain pixels information, relevant to n readout, of the selected CCD of a quadrant when EPCS is in

Additionally to events also D-Header, EPEA Header, and Time Info data formats can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50041	Offset Data	15	4	0	0	0	6	N	F0069	EPDH,EPEA,EPCE

Offset of each pixel relevant to the selected CCD of a quadrant calculated when EPCS is in Offset/Noise Computation mode.

Additionally to offset information also T-Headers can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50042	Noise Data	15	4	0	0	0	7	N	F0069	EPDH,EPCE,EPEA

Noise of each pixel relevant to the selected CCD of a quadrant calculated when EPCS is in Offset/Noise Computation mode.

Additionally to noise information also T-Headers can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50043	Discarded Lines Data	15	4	0	0	0	8	N	F0069	EPDH,EPCE,EPEA

Theses TM packet contains, for each line, a counter of the Discarded Lines due to MIP relevant to the selected CCD of a

Additionally to the counters information also T-Headers and Start Time data formats can be found in the packet.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50044	CountingCycleReport	15	4	0	0	0	9	N		EPDH

This telemetry packet contains information about the scientific data received in the period in which the EPDH is in counting

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
0	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50104	UnsComAc-IncorrCHK	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to incorrect

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
1	none	none	none	1

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TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50105	UnsComEx-WrongAddre	3	4	0	0	0	0	Y		EPDH

Unsuccessful execution of dump/checksum management TC due to wrong start/end address or block.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
131	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50204	UnsComAc-IllegalType	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal TC packet

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
2	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50205	UnsComEx-CHKNotRea	3	4	0	0	0	0	Y		EPDH

Unsuccessful TC execution due to EPEA(s)/EPCE checksum not ready in high priority HK data.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
132	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50304	UnsComAc-IllegalSuTy	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal TC packet

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
3	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50305	UnsComEx-LBRProtErr	3	4	0	0	0	0	Y		EPDH

Report indicating the telecommand identified by the Sequence Count has not been correctly executed by EPCS.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
238	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50404	UnsComAc-IlgTCLength	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal TC packet

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
5	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50504	UnsComAc-IllegalTID	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal TID.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
8	none	none	none	1

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50604	UnsComAc-IllegalFID	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal FID.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
9	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50704	UnsComAc-IllegalMODE	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal Mode.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
10	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50804	UnsComAc-IllegalMID	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to illegal MID.

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
11	none	none	none	1

TPN	NAME	TYPE	STYPE	TID	FID	MID	SID	TIME FLAG	TC	SOURCE
50904	UnsComAc-IllegHeader	3	2	0	0	0	0	Y		EPDH

Report indicating the TC identified by the Sequence Count has not been correctly accepted by EPDH due to incorrect packet

ERROR CODE	ERROR FLAG	PERIODIC PKT CONDITION	APERIODIC PKT CONDITION	PERIOD
129	none	none	none	1