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Planck LFI

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1 INTRODUCTION

The present document contains the release note for the LFI FM database version 4.2 based on the first official release (LFI FM 4.1) with the following NC applied:

- NC 13273 - Telemetry monitoring (OOL) Action:#8 from MN-8861
- NC 13323 - This NC is divided in two points:
 - The first regard the telemetry validity check and is not included in this delivery as it is still in discussion (due date middle of April)
 - The second regard the periodic packet outdated topic and is include in the LFI FM database 4.2
- NC13333 – This NC is divided in two points:
 - The first regard the decommutation of Memory dump. This is not included on the LFI FM 4.2 release as is still in discussion internally due to the impact that it will have on the test procedures (due date middle of April).
 - The second regard the requested change of parameters type from 7.2 to 3.12. This is not a real NC as 7.2 is allowed by the Scos2k Mibs Definition table but this parameter type cause problem to the MOIS system (see MN 8887). As described in MN-8928 was decide to apply this change on the LFI FM database 4.2
- NC LFI-0001 – Change of way to display the LM207342 parameter inside the LA110369 monitor display from binary to Hexadecimal



2 DATABASE VERSION

The Database version delivered is the one verified during the LFI FM tests plus some minor modifications (see chapter 3) rose during REBA UFT debug.

The upgraded version is tagged with: FM_4.2.0



3 CHANGES TO PREVIOUS VERSION

The changes respects the LFI FM 4.1 are here reported:

NC 13273 - Telemetry monitoring (OOL) from MN-8861

Table affected: ocf.dat (in red the valued changed)

LM121342 1 2 ~~U~~ ~~H~~ **C R**
 LM122342 1 2 ~~U~~ ~~H~~ **C R**
 LM123342 1 2 ~~U~~ ~~H~~ **C R**
 LM211342 1 2 ~~U~~ ~~H~~ **C R**
 LM212342 1 2 ~~U~~ ~~H~~ **C R**
 LM213342 1 2 ~~U~~ ~~H~~ **C R**

NC 13323 Periodic packet outdated topic from MN-8887

Table affected: pid.dat (in red the values added):

3 25 1536 102 0 121102369 Planck LFI DAE Fast Essential	12 -1 0 Y	32000	Y 1 N
3 25 1536 202 0 121202369 Planck LFI REBA Essential HK	12 -1 0 Y	32000	Y 1 N
3 25 1538 101 0 120101369 Planck LFI DAE Slow HK Format	12 -1 0 Y	64000	Y 1 N
3 25 1538 102 0 120102369 Planck LFI DAE Fast HK Format	12 -1 0 Y	4000	Y 1 N
3 25 1538 201 0 120201342 Planck LFI REBA Susw HK	12 -1 0 Y	1000	Y 1 N
3 25 1538 202 0 120202369 Planck LFI REBA HK	12 -1 0 Y	4000	Y 1 N
3 26 1538 300 0 120300369 Planck LFI REBA Diagnostic HK	12 -1 0 Y	4000	Y 1 N

NC13333 Change of parameters type from 7.2 to 3.12. from MN 8887

Tables affected: pcf.dat (in red the new value):

LM501340	CDMS I Tra_Appl	7	3 12
LM543340	DPU Task Status	7	3 12
LM544340	DPU HK Status	7	3 12
LM546340	DPU HK Errors	7	3 12
LM547340	DPU DSP STKY	7	3 12
LM551340	DPU 1355 SMCS	7	3 12
LM552340	DPU 1355 Status	7	3 12
LM553340	DPU 1355 Commun	7	3 12
LM554350	DPU SW FIFOs	7	3 12
LM555350	DPU SW Reso_Err	7	3 12
LM558350	SPU Science_Err	7	3 12
LM576350	SPU Task Status	7	3 12
LM579350	SPU DSP STKY	7	3 12
LM586350	SPU 1355 SMCS	7	3 12
LM587350	SPU 1355 Status	7	3 12
LM588350	SPU 1355 Commun	7	3 12
LM591350	SPU FIFOs	7	3 12
LM592350	SPU Resources	7	3 12

Tables affected: dpc.dat (in red the new value)

LA110369	LM501340	4	1	N	B	H
LA110369	LM543340	23	1	N	B	H
LA110369	LM544340	24	1	N	B	H
LA110369	LM546340	25	1	N	B	H



LA110369	LM547340	26	1	N	B	H
LA110369	LM551340	28	1	N	B	H
LA110369	LM552340	29	1	N	B	H
LA110369	LM553340	30	1	N	B	H
LA110369	LM554350	31	1	N	B	H
LA110369	LM555350	32	1	N	B	H
LA110369	LM558350	35	1	N	B	H
LA110369	LM576350	52	1	N	B	H
LA110369	LM579350	53	1	N	B	H
LA110369	LM586350	55	1	N	B	H
LA110369	LM587350	56	1	N	B	H
LA110369	LM588350	57	1	N	B	H
LA110369	LM591350	58	1	N	B	H
LA110369	LM592350	59	1	N	B	H

LFI-0001 Change of way to display the LM207342 parameter inside the LA110369 Monitor display

LA110369	LM207342	2	1	N	B	H
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4 VALIDATION OF THE CHANGES TO PREVIOUS VERSION

The LFI Database version 4.2.0 was validated, before the release, internally at the LFI DPC.



5 DIFFERENCES BETWEEN HPSDB AND CCS DATABASE

None in the LFI FM DB up to now.



6 DIFFERENCES BETWEEN STAND ALONE TESTING AND CCS DATABASE

None up to now.