

(2019-02-12) ROC-LFR teams telecon

Goals

- Discussions about the LFR BP1 decommutation
- Discussions about the LFR_CALBUT integration into the ROC pipeline (requirements and road map)

Date

12 févr. 2019




Attendees





- [Xavier Bonnin](#)
- Thomas Chust
- Rodrigue Piberne

Agenda

1. LFR BP1 decommutation
2. LFR_CALBUT integration into the ROC pipeline (requirements and road map)
3. AOB

Discussion items

Item	Notes	Action-items
1.	<ul style="list-style-type: none">• For now, the L0 data contains the RPW TM LFR BP1/BP2 packet parameters as defined in the RPW ICD (see RPW-SYS-MEB-DPS-ICD-000211-LES). The ROC pipeline just reads from L0 and saved into the corresponding RPW LFR BP1/BP2 L1 CDF• The way the the PA_LFR_SC_BP1_NVEC_Fi, PA_LFR_SC_BP1_ELLIP_Fi, PA_LFR_SC_BP1_DOP_Fi parameters in the TM_LFR_SCIENCE_*_BP1_Fi LFR science packets are stored into the L0/L1 data is not fully clear (i.e., how extracted bits are saved into L0/L1 parameters?)• Rodrigue and Thomas will review the L1 CDF skeletons for LFR (starting with ROC-SGSE datasets into https://gitlab.obspm.fr/ROC/DataPool/tree/rsc/GSE/ROC-SGSE/CDF/Excel) and update them if required• Xavier will adapt into the ROC Python pipeline the LFR team C++ code to perform the full analysis of the BP parameters. The objective is to provide in the L1 CDF the "human-readable" BP1/BP2 values (not only the ICD-level "raw" decommutation values).• The implementation of this feature should not start before mid-March 2019.	<ul style="list-style-type: none">• Action Rodrigue: Send to Xavier the latest version of the C++ program used to analyse and extract the BP1 /BP2 "human-readable" values<div> ROCDATPRO-111 - Jira project doesn't exist or you don't have permission to view it.</div>• Action Rodrigue: Review the ROC-SGSE L1 BP1/BP2 CDF skeletons to ensure that the expected zVariables are defined<div> ROCDATPRO-112 - Jira project doesn't exist or you don't have permission to view it.</div>• Action Xavier: Update the ROC pipeline code in order to write the ROC BP1/BP2 human-readable" values in the LFR L1 CDF<div> ROCDATPRO-113 - Jira project doesn't exist or you don't have permission to view it.</div>

2.	<ul style="list-style-type: none"> The ROC team wants to start the integration of the RCS software into the pipeline On the ROC side, a "testing" instance of the pipeline should be available within few weeks to allow RCS teams to check that the software is compliant with the RCS ICD 1.2 (see https://confluence-lesia.obspm.fr/display/ROC/ROC+Documents?preview=/3113240/15761536/ROC-PRO-PIP-ICD-00037-LES_Iss01_Rev02(RPW_Calibration_Software_ICD).Draft.pdf) On the RCS team side (and LFR in particular), the ROC team asks to check that the software can be run as described in the RCS ICD (i.e., with the right command line interface and using the right environment variables) The ROC will test the software using the "master" branch of the RCS dedicated repository on gitlab (cf. https://gitlab.obspm.fr/ROC/RCS/LFR_CALBUT for LFR) As explained in the REGU 2.1 (see https://confluence-lesia.obspm.fr/display/ROC/ROC+Documents?preview=/3113240/15761535/ROC-GEN-SYS-NTT-00019-LES_Issue02_Rev01(Engineering_Guidelines_For_External_Users).Draft.pdf) the test will be driven by the ROC and will mainly consist of: <ul style="list-style-type: none"> Retrieve the software directory (e.g. git clone https://gitlab.obspm.fr/ROC/RCS/LFR_CALBUT for the first time or git pull after), if required retrieved the right L1R/L2 master CDF (from Datapool git repo.), the right calibration table files and the corresponding test data (examples of L1/L1R/L2 data products) Run the software with the pipeline to check that the calling works as expected (software can be run correctly by the pipeline) Compare software output files generated by the pipeline with the corresponding "test" data provided by the RCS team (the pipeline just check that there is the same content. There is no verification of the data quality) The ROC and LFR teams should start to test the integration around mid-March 2019. 	<ul style="list-style-type: none"> Action Quynh Nhu: Deploy an "testing" instance of the ROC pipeline to help teams to test their RCS calling <div data-bbox="982 210 1485 415">  ROCDATPRO-114 - Jira project doesn't exist or you don't have permission to view it. </div> Action Rodrigue: Ensure that the LFR_CALBUT software can be called as described in the RCS ICD 1.2 (with the right command line interface and using the reserved env. variables) <div data-bbox="982 510 1485 716">  ROCDATPRO-115 - Jira project doesn't exist or you don't have permission to view it. </div> Action Rodrigue: Provide L1R/L2 "test" data CDF samples to the ROC <div data-bbox="982 766 1485 972">  ROCDATPRO-116 - Jira project doesn't exist or you don't have permission to view it. </div>
3.	<ul style="list-style-type: none"> Values inside BIAS HK CDF seem to be invalid Xavier has reminded that currently the HK CDF provided HK values in "raw" TM units (conversion is thus required for some parameters to have "physical" values) The ROC plans to provide HK CDF with "physical" values in the next few months. (RCS will be informed). 	<ul style="list-style-type: none"> Action Rodrigue: Check how the BIAS HK parameters are read and processed by the LFR_CALBUT <div data-bbox="982 1087 1485 1293">  ROCDATPRO-117 - Jira project doesn't exist or you don't have permission to view it. </div>

Action items

Open issues

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
<div data-bbox="170 1617 198 1652"></div> Jira project doesn't exist or you don't have permission to view it. <div data-bbox="170 1686 386 1709">View these issues in Jira</div>										

Closed issues

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Attached items