































# JUICE-SCM/Ground Segment

	2023-9				2023-10				2023-11				2023-12				2024-1				2024-2			
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7
<b>LPP</b>																								
<b>INSTRU</b>																								
<b>JUICE-SCM/Ground Segment</b>																								
Documenter le code MMS/SCM avec (...)	New 55%																							
Formatage des commentaires (...)	In Progress 10%																							
MàJ du document Ground Segment (...)	New 0%																							
Adapter le code IDL d'MMS/SCM à (...)	New 0%																							
Première version calibration python	New 99%																							
Create Kernel in python	Resolved 100%																							
Bessel filter	Resolved 100%																							
DFB filter	Resolved 100%																							
Antenna response function	Resolved 100%																							
Bandpass filter	Resolved 100%																							
Extract and export cdf file (...)	In Progress 50%																							
Discover units test python (...)	Resolved 100%																							
Unit test Bessel filter	Resolved 100%																							
Unit test DFB	Resolved 100%																							
Unit test Antenna filter	Resolved 100%																							
Create unit test for (...)	Resolved 100%																							
Reorganise the code to have (...)	Resolved 100%																							
Create the complete Kernel	Resolved 100%																							
Create the kernel_creation (...)	Resolved 100%																							
Unit test kernel_creation	Resolved 100%																							
Full code documentation	Resolved 100%																							
Create deconvo_vec function (...)	Resolved 100%																							
Check real/imag parts	Resolved 100%																							
Shift kernel	Resolved 100%																							
Hanning window creation	Resolved 100%																							

JUICE-

<b>Coscub window creation</b>	<b>Resolved 100%</b>
<b>Gaussian window creation</b>	<b>Resolved 100%</b>
<b>Trapezoid window creation</b>	<b>Resolved 100%</b>
<b>Unit test deconvo vec (...)</b>	<b>Resolved 100%</b>
<b>Correct the documentation (...)</b>	<b>Resolved 100%</b>
<b>deconvo_vec convolution part</b>	<b>Resolved 100%</b>
<b>Implement graphical comparison (...)</b>	<b>Resolved 100%</b>
<b>Implement blk_con IDL function</b>	<b>Resolved 100%</b>
<b>Create Calibrate CDF function</b>	<b>In Progress 100%</b>
<b>Implement the blocks (...)</b>	<b>Resolved 100%</b>
<b>Implement the cdf writing (...)</b>	<b>Resolved 100%</b>
<b>Implement function that compare (...)</b>	<b>Resolved 100%</b>
<b>General class to compare waveforms, (...)</b>	<b>Resolved 100%</b>
<b>Obtain good result in the (...)</b>	<b>Resolved 100%</b>
<b>Implementation of ConfigHandler (...)</b>	<b>Resolved 100%</b>
<b>Implement function that compute (...)</b>	<b>Resolved 100%</b>
<b>Implement a simple spectrogram (...)</b>	<b>Resolved 100%</b>
<b>Create function that plot (...)</b>	<b>Resolved 100%</b>
<b>Create Function that compare (...)</b>	<b>Resolved 100%</b>
<b>Find why the computed spectrum (...)</b>	<b>Resolved 100%</b>
<b>Make documentation of all (...)</b>	<b>Resolved 100%</b>
<b>Reorganise and simplify spectra (...)</b>	<b>Resolved 100%</b>
<b>Investigate why results are (...)</b>	<b>Resolved 100%</b>
<b>Spectra densities computation</b>	<b>Resolved 100%</b>
<b>Spectra densities plot and (...)</b>	<b>Resolved 100%</b>
<b>Completely change ConfigHandler (...)</b>	<b>Resolved 100%</b>
<b>ConfigHandler modularity implementation</b>	<b>In Progress 100%</b>
<b>Global attributes and (...)</b>	<b>Resolved 100%</b>
<b>default / current / limits (...)</b>	<b>Resolved 100%</b>
<b>Make class for deduce (...)</b>	<b>Resolved 100%</b>
<b>kernel_creation.py reworked (...)</b>	<b>Resolved 100%</b>
<b>Implement system of class (...)</b>	<b>Resolved 100%</b>
<b>Spectra powers computation</b>	<b>Resolved 100%</b>
<b>Spectra powers plot / comparison</b>	<b>Resolved 100%</b>

<b>Quicklook computation / plot</b>	<b>Resolved 100%</b>
<b>Config Handler and config (...)</b>	<b>Resolved 100%</b>
<b>Modularisation of calibrate (...)</b>	<b>Resolved 100%</b>
<b>Create functional Diagram (...)</b>	<b>Resolved 100%</b>
<b>Sphinx documentation with (...)</b>	<b>Resolved 100%</b>
<b>Sphinx documentation with (...)</b>	<b>Resolved 100%</b>
<b>Sphinx documentation with (...)</b>	<b>Resolved 100%</b>
<b>Rewrite the readme with a (...)</b>	<b>Resolved 100%</b>
<b>Add freq samp deducing function (...)</b>	<b>Resolved 100%</b>
<b>Reorganise functions (kernel (...))</b>	<b>Resolved 100%</b>
<b>Adapt the code to use SCHB (...)</b>	<b>Resolved 100%</b>
<b>Adapt the code to have correct (...)</b>	<b>Resolved 100%</b>
<b>Add documentation on all code (...)</b>	<b>Resolved 100%</b>
<b>Make correct and complete (...)</b>	<b>Resolved 100%</b>
<b>Resolve problems with epochs</b>	<b>Resolved 100%</b>
<b>Create script with inline (...)</b>	<b>Resolved 100%</b>
<b>Modify config handler (config (...))</b>	<b>Resolved 100%</b>
<b>Make inline arguments gestion (...)</b>	<b>Resolved 100%</b>
<b>Resolve plenty of problems (...)</b>	<b>Resolved 100%</b>
<b>Implement a first bash script, (...)</b>	<b>Resolved 100%</b>
<b>Resolve problems with venv (...)</b>	<b>Resolved 100%</b>
<b>Make the cdf data extraction (...)</b>	<b>Resolved 100%</b>
<b>Adapt the matlab code for (...)</b>	<b>Resolved 100%</b>
<b>Produce a waveform plot of (...)</b>	<b>Resolved 100%</b>
<b>Take the python code of David (...)</b>	<b>Resolved 100%</b>
<b>Resolve the problem with epochs (...)</b>	<b>Resolved 100%</b>
<b>Create generic log printer (...)</b>	<b>Resolved 100%</b>
<b>Add systematical logs for (...)</b>	<b>Resolved 100%</b>
<b>Modify the extract data/ epoch (...)</b>	<b>Resolved 100%</b>
<b>Reorganisation of kernel construction</b>	<b>Resolved 100%</b>
<b>Add systematical logs for (...)</b>	<b>Resolved 100%</b>
<b>Create and improve the scripts (...)</b>	<b>Resolved 100%</b>
<b>Fourier transform (and inverse (...))</b>	<b>Resolved 100%</b>
<b>Write installation notice</b>	<b>Resolved 100%</b>

<b>Analyse fichiers L1A JUICE</b>	<b>Resolved 100%</b>
Create interactive version of quicklook, (...)	  <b>In Progress 100%</b>
Find proper tools and solutions (...)	<b>Resolved 100%</b>
Find proper solution for zoom (...)	<b>Resolved 100%</b>
Create a version of quicklook (...)	<b>Resolved 100%</b>
Fusion the static and interactive (...)	 <b>Resolved 100%</b>
Modify the visuals of interactive (...)	 <b>Resolved 100%</b>
Modify deeply the code organisation (...)	 <b>Resolved 100%</b>
Improve and resolve problems (...)	 <b>Resolved 100%</b>
Add buttons to change the (...)	 <b>Resolved 100%</b>
Adapt the calibration / evaluation (...)	 <b>Resolved 100%</b>
Start the rework of documentation	 <b>Resolved 100%</b>
Reorganise and document the display (...)	 <b>Resolved 100%</b>
Code reorganisation to have scripts (...)	 <b>Resolved 100%</b>
Lot of new sh and python scripts (...)	 <b>Resolved 100%</b>
Juice files first calibration	 <b>Resolved 100%</b>
JUICE quicklook analysis	 <b>Resolved 100%</b>
Code Analysis / Investigation / (...)	 <b>Resolved 100%</b>
The problem with JUICE results (...)	
Research with laurent about the (...)	 <b>Resolved 100%</b>
Make all the variables of input (...)	 <b>Resolved 100%</b>
Make the script able to specify (...)	 <b>Resolved 100%</b>
register all remaining taks written (...)	 <b>Resolved 100%</b>
Debug/resolution of some little (...)	 <b>Resolved 100%</b>
Documentation debugging	 <b>Resolved 100%</b>
Create script for documentation (...)	 <b>Resolved 100%</b>
Documentation complete add and (...)	 <b>Resolved 100%</b>
New tries concerning the differences (...)	 <b>Resolved 100%</b>
First version of a "time extract" (...)	 <b>Resolved 100%</b>
Finish complete time extract method	 <b>Resolved 100%</b>
implement system to check the version (...)	 <b>Resolved 100%</b>
Create 'file name' used in plot (...)	 <b>Resolved 100%</b>
Make the 'file name' in the plot (...)	 <b>Resolved 100%</b>
Create a sh script that use time (...)	 <b>Resolved 100%</b>

Modify the extract argvs and env (...)	■ Resolved 100%
Modify the extract_cdf methods (...)	■ Resolved 100%
Make all the python and sh scripts (...)	■ Resolved 100%
Create a GUI for selection of a (...)	■ Resolved 100%
Find the problem of difference (...)	■ Resolved 100%
Make the GUI able to select what (...)	■ Resolved 100%
Advances in the comparison between (...)	■ Resolved 100%
Reorganisation of the python scripts (...)	■ Resolved 100%
Make the GUI a general tool, replacing (...)	■ Resolved 100%
Update documentation for time/solo (...)	■ Resolved 100%
Add a check if we don't find cdfs (...)	■ Resolved 100%
Find the cdfs with temperature (...)	■ Resolved 100%
Modify the data extraction method (...)	■ Resolved 100%
Modify the evaluation part (creation (...)	■ Resolved 100%
Improvements and bug resolve for (...)	■ Resolved 100%
Professional training about the (...)	■ Resolved 100%
Change the code from pyenv environnement (...)	■ Resolved 100%
Software exploration for documentation (...)	■ Resolved 100%
Documentation improvements following (...)	■ Resolved 100%
Documentation update, especially (...)	■ Resolved 100%
Bug solving for spectrum computation (...)	■ Resolved 100%
Gathering and analysis of all remaining (...)	■ Resolved 100%
Discovering of the Ruff linter (...)	■ Resolved 100%
Creation of a ruff pre commit hook	■ Resolved 100%
Add documentation handle in pre (...)	■ Resolved 100%
Discover of pytest and add to pre (...)	■ Resolved 100%
Add multiple pytests (init, extract, (...)	■ Resolved 100%
Add a system that allows to handle (...)	■ Resolved 100%
Research for a method to easily (...)	■ Resolved 100%
Creation of a visual documentation (...)	■ Resolved 100%
Make the writing and initialization (...)	■ Resolved 100%
Create pdf user documentation (Three (...)	■ Resolved 100%
Test the different SID, gather (...)	■ Resolved 100%
Update sphinx documentation for (...)	■ Resolved 100%

Modify the code to be coherent (...)		■ Resolved 100%
Bug with MMS files now that the (...)		■ Resolved 100%
Add of some modularisation in parameters		■ Resolved 100%
Creation of a table documenting (...)		■ Resolved 100%
Improve and simplify some parameters (...)		■ Resolved 100%
Clean and simplify the config files		■ Resolved 100%
Change the way the datetimes are (...)		■ Resolved 100%
Find how to force the documentation (...)		■ Resolved 100%
Improve the GUI by adding a embedded (...)		■ Resolved 100%
Develop a little code that for (...)		■ Resolved 100%
Generate a directory with quicklooks (...)		■ Resolved 100%
Resolve the problem concerning (...)		■ Resolved 100%
Resolve the problem concerning (...)		■ Resolved 100%
Research to find a standardisation (...)	Resolved 100%	
Implement a logging code levels (...)	Resolved 100%	
Reshape the write log part, with (...)	Resolved 100%	
Search different support data (temperatures, (...)	Resolved 100%	
Test the extract of temperatures (...)	Resolved 100%	
major change : all the extracted (...)	Resolved 100%	
Complete reshape of the method (...)	Resolved 100%	
Add the temperature waveform to (...)	Resolved 100%	
Create new file prepare_data_for_plot (...)	Resolved 100%	
Produce and test the creation of (...)	Resolved 100%	
Meeting with Alessandro on the (...)	Resolved 100%	
Resolve massive problem of performance (...)	Resolved 100%	
Benchmarking of the code execution (...)	Resolved 100%	
Annual Report writing	Resolved 100%	