


# JUICE-SCM/Ground Segment

	2023-7				2023-8				2023-9				2023-10				2023-11				2023-12				
	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
<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	 <span style="float: right;">New 99%</span>																								
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-

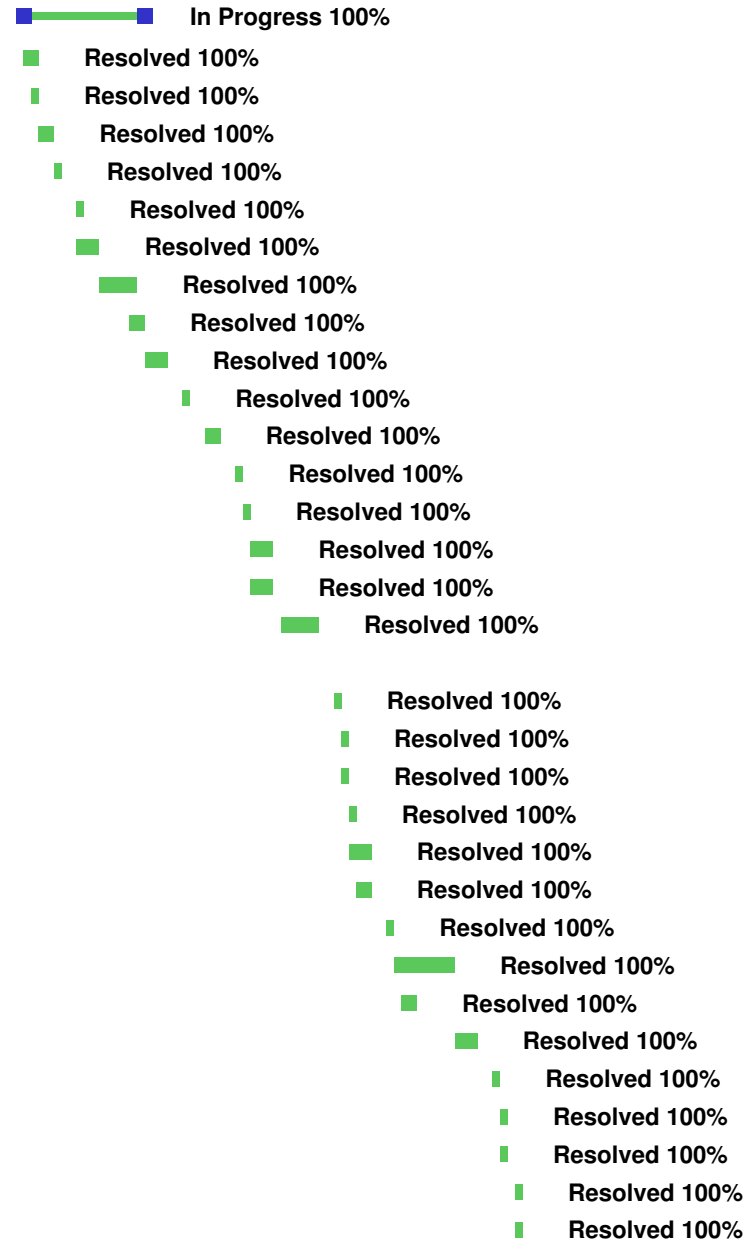
Coscub window creation	Resolved 100%
Gaussian window creation	Resolved 100%
Trapezoid window creation	Resolved 100%
Unit test deconvo vec (...)	Resolved 100%
Correct the documentation (...)	Resolved 100%
deconvo_vec convolution part	Resolved 100%
Implement graphical comparison (...)	Resolved 100%
Implement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

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

**Analyse fichiers L1A JUICE**

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

Resolved 100%



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

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