

Minutes of the IA WG #29 (telecon)

Herschel-HSC-MoM-478

Place: n/a (telecon)

Date: 14 December 2004

Time: 11:30 - 13:00

Present:	S. Guest	SG (SPIRE/RAL)
	R. Huygen	RH (PACS/KUL)
	S. Ott	SO (HSCDT/ESTEC)
	H. Siddiqui	HS (HSCDT/ESTEC)

1 Welcome

SO welcomed all participants. He relayed the apologies of HIFI that couldn't participate in this IA status telecon. SO will contact HIFI so they could add their inputs to the minutes.

2 Agreement on agenda

The six agenda points of this telecon

- review of actions
- the current state of IA#6/2 --- can we meet our goals ?
- IA & HSGSR
- date/way forward for next technical IA meetings
- fall-out of IA#7 roadmap meeting
- AOB

were agreed.

3 Topics

3.1 Review of actions

Currently there are two open actions:

AI WG#26/4 Ndc to look in functionality of Python debugger and professional tools (like eclipse) to support Python debugging

OPEN HSDCT

Due date: 30/01/2005

SO reported that this is in progress, with JJM looking into eclipse (this IDE will be for developers only) and NdC into the python debugger. NdC already ported its functionality into JIDE, and will send out a note on its use.

AI WG#28/1 HIFI and PACS to comment on SG's note on calibration products

CLOSED PACS

OVERDUE HIFI

Due date: 03/12/2004

SO sent already a note to RFS reminding him on this overdue action. Also HS provided some comments. Due to a lack of time, these comments were brief. SG and HS discussed the level of requirements, and how to avoid the “analysis” – “paralysis” problem. As the discussion during this telecon did not converge, SG/HS agreed to follow up with a dedicated telecon Monday 20/12.

3.2 Review of intermediate progress of IA#6/2

HSCDT: SO reported that the HSCDT work was on track with the exception of the SPG prototyping. SO suggested that the restructuring of the documentation should take place after the Herschel Science Ground Segment Review (HSGSR) kick-off in order not to disrupt the WWW pages that serve as portal for the reviewers. SG said he favoured the development of a second, parallel portal. HS worried how to keep both documentation trees in sync. RH reminded that during the documentation review it was decided to define the IA documentation tree and the WWW pages and design/implement documentation structure/templates/JavaDoc-help tags by end of January. The IA WG agreed that there is no principal problem to perform these activities, freeze the current IA WWW page (as necessary for the HSGSR) and then switch to the new layout.

SO stressed that *now* we have to update the (dataset, display, plot, ...) class documentation that serves as interface to the online help. Only with sufficient examples we can take the second step to improve its presentation, and detect any shortcomings of the current system. SG stated that he tried the help framework for the access package, but found out that the current document addresses only a limited scenario. HS reminded that the original idea was to generate IA framework documentation from its classes, not for whole packages (that might even reside outside of the IA framework). SG suggested that his work done should be documented. [Post-meeting note: NdC confirmed that SG's requirements to automatically generate package documentation are beyond the currently envisaged work, but will be addressed as natural extension of the on-line help. JK was contacted to capture SG's procedure how to manually create package documentation / bind in ICC documentation into an developer's HowTo]

As JP and LD are working only part time and low-priority for Herschel, their work will move into #7.

PACS: RH reported that only very few comments only the “How to code efficiently” were received. He will provide an updated version for #6/2. RH stated that WdM hopes to complete all goals of the disp06 WP, with the exception of the assessment of 3d libraries. RH is currently on the array data explorer (part of help06). This functionality will be used by the session inspector.

SPIRE: SG believed that the design note will make it in #6/2, but the design itself will slip into #7. SG didn't know whether JK would be able to complete the remainders of the help06 WP, namely the package and the object methods viewers.

3.3 IA and Herschel Science Ground Segment Review

SO presented the schedule for the HSGSR presentations. Friday, 17/12 the overview of the IA documentation package should be ready. Small changes to the referred documents are OK, but in case major changes are planned until the documentation freeze 18/01 then a placeholder should be used. The presentations have to be ready before the dry-run 12/01.

Following SO's question what documents are missing (and can be expected to materialize), the he following additional documents were identified:

- use case document
- supplementary requirement document
- minutes of IA design review
- minutes of IA documentation review
- draft work-packages for #7

SO asked what we should do with the documentation that doesn't have a documentation ID or an issue number. The conclusion was that it would be advantageous to have a general document registry (see http://www.rssd.esa.int/herschel_webapps/servletsuite/GenDocServlet) for IA documentation, regardless of its origin. However, this needs the agreement of the HCSS management group. Therefore SO took the action:

AI WG#29/1 SO to contact HCSSMGT group to enquire whether they would agree to a general IA registry for all IA documentation, regardless of its origin.

Due date: 17/12/2004

If the management group agrees, then all currently unnamed IA documents would be named according the new scheme, if not then each custodian will have to acquire a local document ID.

SG asked what would be done with the current user HowTos, as they are expected to be merged into the IA users manual. This would have to take place one week earlier than planned, and SO agreed to contact TM to see whether he considers this feasible. [Post-meeting information from TM: Advancement of the UM won't be possible. TM believes that it will be already substantial effort to finish the UM by 24/01/2005.]

The IA WG discussed who should be the presenters for the HSGSR. Ideally, the presentations are given by different centres to demonstrate the common / collegial approach.

SG proposed JBa as presenter for the IA architecture presentation. Another candidate could be AdJ.

For the IA package overview SG or EkW could be the presenters.

The IA WG wondered whether these presentations can be split in two so each centre could give a presentation. SO agreed to contact JRR to discuss this. [Post-meeting note: JRR is not favouring this approach, as this would be rather disruptive]

3.4 Date/way forward for next technical IA meetings

SO asked how to start the IA system architecture group so the fall-out from the IA design review can be tackled as long as the memory is fresh. It was agreed that JBa should take the lead and suggest a date.

SO asked how to start the IA documentation RRFs so the fall-out from the IA documentation review can be tackled as long as the memory is fresh. As a starter RH will visit ESTEC next week (week 52) and, together with HS, and call the other documentation enthusiasts by telecon.

The dates for the IA WG will be set after the steering group meeting #4 decided on the future structure of the IA WG.

3.5 Fall-out of IA#7 roadmap meeting

not covered due to lack of time.

4 AOB

Next status telecon: Tuesday, 1st of February, 10:30 (Dutch time)

Appendix A

State of IA work (ordered by completeness) at time of IA WG#27

Goals for Herschel IA iteration #6/2 (start: 01/11/2004, IA code freeze: 24/01/2005; delivery for system test 28/01/2005)

last modification: 09/12/2004

Phase	WP	Task	State	Comments	Task total	HIFI			
						JCG	DK	AL	PRR
6.2	misc06	Formal release of #6/1	done		3				
6.2	dataflow06	SPR-1041 DataFlow Manager removes the guis of existing IaProcesses	done		2	2			
6.2	dataflow06	SPR-1160 DataFlowManager is not able to remove a problematic process, with weird info	done		0.5	0.5			
6.1	dbase06	ingestion of selected ISO GBPP data	done		3				
5.3	help06	on-line help functionality (documentation)	done		13				
6.1	help06	SCR 1027 Help should provide HTML formatted output	done		0.1				
6.2	help06	on-line documentation: help format, map entries, documentation search	done		3				
6.2	help06	on-line documentation: jython scripts	done		5				
6.2	help06	on-line information: jython support	done		1				
6.2	help06	on-line information: link to help	done		2				
6.2	help06	SCR-1244 help files should also be generatable from the elements of a task	done		0.5				
7	jide06	SPR-1093 syntax highlighting	done		0.1				
6.2	meet06	IA WG#28	done		8				1
6.2	meet06	toolbox WS	done		7		1		
5.2	numeric06	PACS "appendix K" wishes	done	remainders taken over in #7 WP	6				
5.4	plot06	composite plots	done		4				4
6.1	plot06	Adaptation of HCSS properties and preferences	done		1				1
6.2	plot06	appending of data points	done		1				1
6.2	plot06	change of axes	done		1				1
6.2	plot06	return of indices	done		0.5				0.5
6.2	plot06	SCR-1212 coordinates reference of annotations	done		0.2				0.2
6.2	plot06	SPR-1187 PlotXY plots negative data on log axes	done		1				1
6.2	plot06	SPR-1223 Plot properties use incorrect prefix	done		0.1				0.1
6.2	plot06	SPR-1234 setWidth() and setHeight() have no effect on plot size	done		0.4				0.4
6.2	plot06	SPR-1239 stroke attribute is not accepted in PlotXY()	done		0.1				0.1
6.2	plot06	SPR-1240 replot() method on Layer doesn't remember stroke and symbol	done		0.2				0.2
6.2	plot06	SPR-1241 Apply button in LayerPanel or Props set Legend in default location	done		0.1				0.1
6.2	plot06	SPR-1242 Title: setWidth and setHeight remove previous supplementary axes on plot	done		0.3				0.3
7	plot06	SCR-1150 PlotXY getCoords need better documentation and give feedback	done		1				1
7	plot06	SPR-0912 PlotXY drawing area and window resizing	done		1.5				1.5
5.3	test06	dummy x-server	done		2				
6.2	ui06	SCR-1262 Inconsistent method names in GuiUtils class	done	deprecated method has to be removed	0.1				
6.2	ui06	SPR-1191 Three broken document links in ia_help output docs	done		0.1				
6.2	ui06	SPR-1243 No file printing without printer possible	done		0.2				
6.1	user06	collection of requirements for error handling	done		3				
6.1	cal06	design of prototype	in progress		2				
6.1	cal06	requirements for calibration data access	in progress		2				
5.3	dataflow06	Interface with online information system	in progress		1	0.5			
6.1	dataflow06	SPR-0938 dataflow test harnesses fail with X11 errors	in progress	by-product when dummy x-server is enabled	0.5	0.5			
6.1	disp06	assessment of 3-D libraries	in progress		3				

6.1	disp06	SPR-1021 Display memory problem	in progress		1				
6.1	disp06	SPR-1090 Weired axis tick levels	in progress		1				
5.3	doc06	HowTo program efficiently	in progress	first draft issued	2				
5.4	doc06	developers HowTo deal with errors and exceptions	in progress		2				
6.2	doc06	IA ADD	in progress	first draft issued	5				
6.2	doc06	IA documentation review	in progress		32	1			1
6.2	doc06	IA Use case document	in progress	first draft issued	17			1	1
7	dset	quantities handling (SCR 999)	in progress	exploratory prototype only	5				
4	dset06	Implementation of first version of spectrum data set	in progress	re-design necessary	15		10		2
6.2	dset06	spectrum dataset: quantities in frequency scale	in progress		4		4		
5.4	jide06	SCR 830 Jython / Java name clash	in progress	waiting for Jython community	1				
6.2	meet06	IA WG#29	in progress		3				0.5
6.2	meet06	preparations for ground segment status review	in progress		14.5	1		1	1
6.2	meet06	preparations for IA#7	in progress		14.5	0.5		0.5	1
6.2	misc06	SCR-1256 adaption of HCSS to JDK 5	in progress		5	0.5		0.5	
5.2	numeric06	SCR 602:numeric types need formatting	in progress	currently only int[0..3]d and double[0..3] d supported	0.5		???		
6.1	numeric06	test harnesses	in progress		15				
6.2	numeric06	SCR 802 "4 and 5 dimensional data types"	in progress		15				
6.2	numeric06	where functionality for numeric	in progress	needed to implement 4/5 d arrays	8				
5.4	plot06	SCR 927 PlotXY doesn't handle NaN values gracefully	in progress		0.1				0.1
5.3	review06	IA code review	in progress		48.5	3	1	3	2
6.2	spg06	Herschel pipeline architecture	in progress		2				
5.3	task06	further analysis of stopping long tasks by CTRL-C (SCR 646)	in progress		1				
6.2	user06	analysis and presentation of solution found for error handling	in progress		6				
6.2	user06	investigation of existing tools for Jython debugging	in progress		3				
6.2	cal06	CCM and data model			3				
6.2	cal06	find_best			5				
6.2	dataflow06	Interface with online help (documentation) system			2	1			
6.2	dbase06	HowTo use the calibration sources database			2				
6.2	dbase06	moving new version of calbd into proto tree			0.5				
6.1	disp06	SCR-0902 ImageDataset should support non-celestial coordinate systems							
					2				
6.2	disp06	feasibility analysis to integrate 3-D library candidate			3				1
6.2	disp06	Interface with online help (documentation) system			2				
6.2	disp06	SPR-0953 herschel.ia.image.Wcs not serialisable			2				
6.2	disp06	SPR-1087 coordinates in IA Display			0.4				
5.2	doc06	HowTo reload Java and Jython scripts			2				
6.2	doc06	restructuring of documentation			5				
6.2	doc06	SCR-1114 API confusion			2				
6.2	doc06	V0.4 of user's manual			10				
6.1	dset06	requirements for cube dataset			3				
6.2	dset06	Interface with online help (documentation) system			3		1		
6.2	dset06	SCR-1145 metadata "type" field in Product			0.1				
6.2	dset06	spectrum dataset: calculate errors in wavelength scale			4		4		
6.2	dset06	spectrum dataset: test harness			2		2		
6.2	dset06	SPR-1143 Documentation of TableDataset unclear			0.1				
6.1	help06	SPR 968 HCSSv0.2.1ST: ia_help -- javadoc warnings		expected to be solved with first release of on-line help system	0				
6.2	help06	on-line documentation: test harness			3				
6.2	help06	on-line information: command line print			1				
6.2	help06	on-line information: package and object viewers			4				
6.2	help06	SPR 992 Download link for demo tarball gives nonsense			0.5				
6.2	io06	Interface with online help (documentation) system			2				
6.2	io06	test harnesses			13				
6.2	jide06	SCR-1266 Jconsole debugger tool requires some jython Lib scripts			0.1				

6.2	numeric06	SPR-1121 AmoebaFitter complains about out-of limits when started in the limits			0.5	0.5				
6.2	numeric06	ADD			2					
6.2	numeric06	Interface with online help (documentation) system			2					
6.2	numeric06	SCR-1165 When Amoebafitter does not converge it crashes with a Java error			0.5	0.5				
6.2	numeric06	Updates to HowTos and User Guide			3					
6.2	plot06	documentation updates			3				3	
6.2	plot06	Interface with online help (documentation) system			2				2	
6.2	plot06	plotting of error bars		suggested to postpone after refactoring	3				3	
6.2	spg06	exploratory prototyping			5					
6.2	spg06	history API			5					
6.2	test06	end-to-end test		RZ task leader	5					
6.2	test06	testing of code contained in demos et al		RZ task leader	5					
6.2	user06	Implementation of solution found for error handling			10					
6.2	user06	SCR-0560 More than line number in error messages		hoped to be by-product of user-friendly error messages	0					
6.2	user06	SPR-0905 Confusing error messages when using wrong field declaration		by-product of implementation of user06	0					
	leave/misc				18					
	md				442.3	9.5	25	29.5	7.5	
	Load				8.85	0.19	0.50	0.59	0.15	

Legend

- black work scheduled for this mini-iteration
- blue additional work for this mini-iteration
- red work slipped from previous mini-iterations
- pink information missing

Notes, Concerns, Unsolved problems

best efforts goals

Phase	WP	Task	State	Comments	Task total	HIFI			
						JCG	DK	AL	PRR
	dbase06	additional ingestion, data browser and extraction			5				
	demo06	review of procedure to introduce demos			0				
	doc06	design of documentation framework			5				
	doc06	SCR 895 reference platform definition reqd		assumed to be withdrawn	0				
	dset06	SCR-0787 Row-wise appending of TableDatasets required			1.5				
	dset06	SCR978 Metadata and Dataset change listeners			5				
	dset06	test harnesses			2				
6.1	help06	on-line documentation: extended tags			5				
6.2	help06	on-line information: automatic update			3				
6.2	help06	on-line information: category view			2				
6.2	help06	on-line information: clear/save			2				
	io06	Import of non-HCSS generated FITS files			5				
	io06	SPR-1054 IA_io test harnesses uses TestExecutions		assumed to be withdrawn	0				
	numeric06	SCR-0831 Access to individual elements in a selection			1				
	numeric06	SCR-0864 insert method on ArrayData			4				

plot	SCR-0622 PlotXY should allow plotting of selected data in a TableDataset				4	
plot06	labelling by strings				1	1
plot06	test harnesses				5	
user06	documentation of error handling package				5	
user06	implementation of debugging features	in progress	eclipse for Jython developers, python debugger for Jython users		15	
user06	maintenance				7	

5	
	5
15	
1	6