

## Minutes of CCB Telecon #23 Herschel/HSC/MOM/0482

CCB telecon #23 was held on 14-Dec-04. Text in *blue italics* is taken over from the draft agenda (JRR e-mail dd. 7-Dec-04).

### Participants:

J. Brumfitt	HSCDT
K. Galloway	HSCDT
S. Guest	SPIRE
R. Huygen	PACS
D. Kester	HIFI
T. Lock	HSCDT
C. Porrett	HSCDT
J. Riedinger	HSCDT
H. Siddiqui	HSCDT

### Action Item Status

*Overdue actions from previous CCBs and actions due by the telecon:*

AI	Description	Status
130504/2	<i>JBr/HS/SG/AdJ to agree which option to resolve SPR 611 shall be implemented</i>	<p><i>From the MoM of CCB #22:</i></p> <p><i>“SG had replied by e-mail that he could live with HS’s proposal. However, it turned out that the fix SG intended to implement in his code as a result of this proposal would use Versant-specific SW which HSCDT was quite unhappy about until we better understands why generic, DB-independent code would not work. In addition, AdJ had left no reply with PRR ⇒ the AI remains open”</i></p> <p><i>This action has been with us for more than half a year now. Any constructive input how we can close and bury this one once and for all?</i></p> <p>After phone calls between SG/JBr/TZ (AdJ could not be reached) it appears that currently this problem cannot be solved. It is proposed to the CCB to freeze the status quo of this discussion, archive the SPR for the next several months until full replication</p>

		and DB merging have been implemented, and then revisit the issue by mid-2005 (which will become the new due date for the action so we don't lose track of the issue).  This proposal was accepted by the CCB.
041104/1	<i>JBr and SG to agree on the fate of SxRs 715 and 756 which have to be treated together</i>	<i>This is an issue we couldn't resolve on-line during CCB #22.</i> JBr proposes to fix the problem described in SCR-0756 and then to remove the getSession method. The analysis of SCR-0756 has been updated accordingly on 14-Dec-04. Action closed.
041104/2	<i>JBr (in his function of HCSS system architect) to look at the remaining dependencies given in the analysis of SxR 1043 and to close this SxR if he considers these dependencies to be acceptable</i>	According to a 9-Dec-04 entry in the analysis section, JBr wants one more dependency to be removed ⇒ AI closed.
041104/4	<i>CP and JBa to analyse SxR 950 (integration of Calibration Table with IA Dataset)</i>	Analysis added and already responded to on 15-Dec-04. Action closed.
041104/6	<i>SG to provide analysis for SxR-1069</i>	Analysis was added on 9-Nov-04. Action closed.
041104/7	<i>SG/ AdJ/ HS to agree closure of SxR-0951</i>	The next level of analysis was added by HS on 14-Dec-04 and there was quite a bit of discussion on this issue. It was agreed that more analysis is needed. <b>Replacement Action 141204/1: HSCDT to agree on whether arbitrary products should be associated with Instrument models, and if so, the procedure and constraints. Due: 27-Jan-05.</b>

### *Non-IA Methuselah SPRs/SCRs*

*The following 24(!) non-IA SxRs have entered Methuselah age and are up for discussion whether or not they should be retired to status "archived":*

- 0243 *MIB should support synthetic parameters. Part of WP 521. Touch (and wait until implementation appears as "important" on some ICC's wish list for a user release) or wait until by HS finds time to implement this naturally (not very likely for quite some time) ?* This is "accepted for implementation" but nothing happened since the Jun-04 entry by HS with a reference to the on-going WP 521. This SCR is expensive (1 mw estimated) and cannot be implemented "on the fly". RH had heard from BvdB that synthetic parameters had been discussed by the HGSSE. KG clarified that what had been discussed was that different types of synthetic parameters exist, but not whether and which types should be supported by the MIB. SxR touched. **Action 141204/2: KG to put the need for support for synthetic parameters in instrument MIBs on the agenda for the next HGSSE meeting.**
- 0256 *BLOBs are not cached in database. Do we need MIBs and OBSW stored in the DB as BLOBs ? If not, we should archive this SCR (as HS suggested more than 6 months ago). Do not discuss. The conclusion on this one in CCB #22 was: "It has already*

- been agreed that MIBs will not have to be stored as BLOBs in the HCSS. Whether or not OBSW has to be stored as BLOBs will depend on (currently not yet available) information concerning configuration control functions in the OBSW management system. This information is expected to become available by end 2004, so this SxR stays open until then. However, it is already known now that IA requires generic support for BLOBs.”*
- 0343 *The need for an installer for the HCSS. Part of WP 5q0. Touch ?* Touch. Rik re-sent an e-mail he had already sent in June, containing a link to an open source installer that could simplify work in WP 5q0.
- 0362 *Provide extended support for insertion/extraction of bit data from byte arrays. Part of WP 540. Touch ?* Touch. It was noted that this also appears on the wish list for implementation by HCSS v0.2.4/ v0.2.5.
- 0429 *Associate documentation with HCSS version/build. Part of WP J00. Touch ?* Touch.
- 0452 *Some queries are impossible with store. Part of WP 530. Touch ?* Touch.
- 0454 *javadoc should hide documentation which is not part of the public API. Part of WP J00. Touch ?* Touch.
- 0487 *MIB dataset structure needs extending. Also part of WP 521. Touch ?* Touch.
- 0492 *Strange versant behaviour. Part of WP 530. Touch ?* According to TZ this has been recorded by Versant as bug #19644 (assuming that they use automatically assigned consecutive numbers just as we do: isn't it reassuring that apparently more than 10 times as many bugs have been reported on their system so far than on the HCSS ☺) ? Also, it has been raised on the 3<sup>rd</sup> party SW problems page: Closed on 9-Dec-04.
- 0524 *Need access to PCF entries from the MIB through the MonitorParameterDefinition. Part of WP 521. Touch (and wait until implementation appears as “important” on some ICC’s wish list for a user release) or wait until by magic HS finds time to implement this anyway (very unlikely for a long time to come) ?* Touch.
- 0540 *MIB API does not seem to handle repeated monitor parameters. Also part of WP 521. Touch ?* SCR has apparently been implemented for quite a while and was forgotten. Closed on 10-Dec-04.
- 0620 *Access reports wrong object count in log after query. Do, can you please ask AdJ whether we can archive this with the partial solution SG put in ?* Archive.
- 0635 *herschel.share.log.api.Logging.getLogger should be static. Part of WP 540. Touch ?* According to HS this SCR is no longer relevant (as it addresses a deprecated class). The CCB withdraws this on behalf of AdJ.
- 0715 *HCSSv0.2.0ST: Access using deprecated method. The discussion of this during CCB #22 resulted in the above AI. Deprecated method to be removed and this SxR to be closed when SxR-0756 has been implemented.*
- 0731 *Specification of external MIB version number. Also part of WP 521. Touch ?* Touch.
- 0746 *HCSSv0.2.0ST: CCM the properties for db initialization should be in the progen. Part of WP 350. Touch ?* Touch.
- 0756 *Add introspection methods to ObjectStore. Cf. AI 041104/1 above. Implement. Cf. the disposition on SxR-0715 above.*
- 0763 *Empty CO maps in the Galactic plane. The analysis reports this as being a bug in 3<sup>rd</sup> party SW (SkyView). Shall we put this onto our 3<sup>rd</sup> party SW page and close it ? Should a reminder be sent to Trey ? Cf. SxR-0764.*

- 0764 *Image scaling unclear. According to the analysis, implementation requires a change in the core SPOT which is reported as having been requested. Status ?* AB proposes to leave 0763 & 0764 as they are for the time being and to discuss them with Trey Roby in his next telecon to see what the status is. If 0763 is not closed by the time of CCB telecon #24 it could be moved to the 3rd party software page then. Touch.  
**Action 141204/3: AB to address the issue of image scaling in core SPOT with Trey Roby. Due: 27-Jan-05.**
- 0805 *Additional comments in parameter block should be allowed. This is a strange one: The analysis states that implementation is part of WP 515. In the September 04 monthly progress report WP 515 was closed but this SCR is still open. Has this SCR been implemented (and it was just forgotten to close it) or do we re-open WP 515 or do we archive this SCR ?* SxR-0805 is implemented; marked closed on 15-Dec-04.
- 0815 *SPR editing to automatically add names and dates for update. I strongly propose we archive this ☺.* Archive.
- 0823 *gencusscript fails. Has gencusscript been removed from the list of available tools, has the documentation been updated (I think I saw this not too long ago in either a MIB or a CUS HTML page referenced in our on-line HCSS document tree) and can we then close this one ?* **Action 141204/4: HS/ CP to update the on-line HCSS documentation as necessary and remove gencusscript by HCSS v0.2.4. Due 31-Jan-05.**
- 0856 *CCM uses iterators where collections would be more appropriate. This one has never even been analysed (because of its “low” priority it never came up in the CCB). I propose that either JBr spends a maximum of 30 min on it or we archive it as is because from the sound of it it’s more of a style issue than of something not working.* Well, JBr’s analysis dd. 9-Dec-04 argues that there was a good reason for doing it the way it is done. JBr further said during the meeting that we can either (i) do nothing, (ii) implement a sized iterator, or (iii) implement a list. No consensus between these alternatives could be reached ⇒ touch.
- 0859 *CUS allows to issue commands outside the context of a building block. Touch ?* Touch.

**Priority > “low”, status < “analysed”, older than 1 month and non-IA**

*As of 7-Dec-04 there are 27 SPRs/SCRs in this category and it would be nice if for the majority we could have the analysis performed in time of the CCB telecon:*

- BinStruct:* 1136 *Binstruct not reading TmVersions.tbl correctly. Rik, can you have a look ? Given the two questionmarks at the end of the analysis section, this perhaps needs a phone call to Tony Marston ?* RH had talked to TM and PZ: the problem now is that this is not reproducible. **Action 141204/5: HIFI to either reproduce the problem or close SxR-1136. Due: 27-Jan-05.**
- CCM:* 0950 *ccm CalibrationTable and ia Dataset to be integrated.* Analysis added and already responded to on 15-Dec-04.

- 0951 *Products to be associated with instrument model for downlink calibration.* Cf. above new AI 141204/1.
- 1221 *Unify TmSourcePacket classes.* This already is under discussion between RH and JBr. Analysis will be added in due time.
- CUS: 1218 *CUS to support observation preparation during slews.* Pre-analysis and effort estimate added on 14-Dec-04.
- MIB: 0949 *Logic for determining whether a parameter is engineering requires improvement. Quote from the CCB #22 MoM: "HS is waiting for input/ feedback from Serge Valera."* Withdrawn on 13-Dec-04; new SCR-1290 raised instead with a more accurate description.
- 1042 *New checks based on bridge file loading.* This SxR is a place holder/ bucket into which developers were expected to throw requests for additional checks to be performed by MIB ingestion. Since nobody has entered anything in more than 3 months the CCB decided to close this SCR and open new, dedicated ones should such requests come in in the future.
- 1128 *Range entries should be converted where necessary.*
- 1171 *MIB Services needed by BINSTRUCT.* Status changed to "Accepted for Analysis" (why this state and not "analysed" ?) and effort estimate provided on 10-Dec-04. This is part of WP 523.
- 1202 *MIB monitor parameter calibration range limited.* Analysed and effort estimate provided on 10-Dec-04 (not 20-Dec-04 as the analysis says). Linear extrapolation is to be implemented.
- PropGen 1230 *HCSSv0.2.3ST:-Use case not complete.* Analysed on 10-Dec-04 and effort estimate provided (0.5 md). **Action 141204/6: KG to update the use case according to SxR-1230 in time for System Testing HCSS v0.2.4. Due: 31-Jan-04.**
- TMIngest: 1181 *Pacs TmSourcePackets have OBSID and BBID in the compressed part.* PACS have withdrawn this SPR on 9-Dec-04.
- 1224 *Tmingest crash with 'cannot make object persistent'.* This is not reproducible. **Action 141204/7: HIFI to reproduce or close SxR-1224. Due: 27-Jan-05.**
- 1237 *HCSSv0.2.3ST:- Use case numbering incorrect.* **Action 141204/8: KG to update the use case according to SxR-1237 in time for System Testing HCSS v0.2.4. Due: 31-Jan-04.**
- TMProc: 1197 *Fifo's pop() method should throw InterruptedException.* KG confirmed that he would implement this in time for HCSS v0.2.4 as requested by PACS (although at low priority).
- Browser: 1126 *Browser throws exception if the accessed database server has not databases.* KG will analyse this.
- HCSS 1023 *Test harnesses to be updated when telemetry generators become available. Skip: Cannot be done yet.*
- 1046 *CLASSPATH problems when running HCSS under the TCSH shell. This one is high priority...* HS reported that the previously encountered problems (combined .jar-file giving problems because of inconsistent libraries being used by different tools) is at present being solved and

the solution is (so far successfully) in testing under Linux. It does need more testing (also under Solaris) but it is hoped to be available in time for the HCSS v0.2.4 release.

- 1132 *Herschel ADD outdated*. JBr has updated the ADD to Issue 1 and closed this SPR on 8-Dec-04.
- 1146 *FitsArchive.save()*. Shouldn't be here as it is on IA.
- 1147 *FitsArchive*. Shouldn't be here as it is on IA.
- 1228 *Definition of True() and False() classes stops several demos*. Shouldn't be here as it is on IA.
- 1229 *HCSS deprecated methods --- status --- for HCSS v0.2.3*.
- Infrastructure 1127 *Automatic test against latest ICC data (MIB,CUS)*. Analysed and effort-estimated on 10-Dec-04. Left to normal work.
- 1203 *Watchdog for HCSS processes required*. Analysis added 15-Dec-04, which suggests that new JDK 5 monitoring tools might help implement this. Also, HIFI are internally looking at this (PRR e-mail dd. 15-Dec-04).
- TestControl 1180 *Test Control server doesn't work with Versant 6.0.5.3 patch 1*.
- 1192 *Lock timedout error*. On both of these SxRs RH (replacing ErW on short notice) had no information. **Action 141204/9: RH to contact ErW concerning missing analysis on SxRs 1180 and 1192 (both on Test Control). Due: 27-Jan-04.**

### Implemented but not closed

*At the time of this writing there are 33 SPRs/SCRs in this category. 11 are on IA, which leaves 22 for this CCB. Of these 22, 9 have been implemented more recently than a month ago, so we give the originators a chance to close them as part of normal work, which leaves the following 13 (and as always there are a few old acquaintances among them):*

ID	Description	Needed to close	Disposition
418	<i>Start time of persistent telecommand sequences</i>	<i>As determined previously, the test harness is still missing. No change, so there is no need to discuss this.</i>	
0860	<i>Configuration to support debugging mode</i>	<i>Appears to me as if this one could be closed. Guess who's sitting on it? Correct: AdJ!! Do, help!!</i>	It was reported that AdJ could not get this to work. <b>Action 141204/10: HS/AdJ/RH to find out and solve why the configuration to support debugging (SxR-0860) apparently does not work for everyone. Due: 27-Jan-05.</b>
0920	<i>Store exception should mention which database is involved in case exc. is thrown</i>	<i>CCB #22 agreed to deprecate in HCSS v0.2.3, remove in v0.2.4. No need to discuss.</i>	

0981	<i>SPIRE packets with APID 0x0508 kill telemetry ingestor</i>	<i>Disposition from CCB #21: "In fact, the test harness still needs to be updated. KG to do by HCSS v0.2.3." Test harness still needs to be done and with the HSGS review coming up it doesn't look like we make it for HCSS v0.2.4 either...</i>	KG will see to it that this gets into HCSS v0.2.4.
1043	<i>vsnt.store and vsnt.tools.replication need refactoring to resolve dependencies</i>	<i>Cf. AI 041104/2 above</i>	According to JBr's analysis: One more thing to be done by TZ.
1082	<i>PusTmSourcePacket changes checksum of a packet</i>	<i>From the MoM of CCB #22: "Agreed by RH on 4-Nov-04 to be left open until the test harness has been updated." No test harness yet.</i>	Closed on 9-Dec-04.
1105	<i>Performance/efficiency problem</i>	<i>Appears to me as if this one could be closed. Guess who's sitting on it? Correct: AdJ!! Do, help!!</i>	Closed on 8-Dec-04.
1111	<i>Main method of TestExecutionBrowser not functional</i>	<i>Appears to me as if this one could be closed. Guess who's sitting on it? Correct: AdJ!! Do, help!!</i>	Closed on 8-Dec-04.
1134	<i>Misleading default properties for packetprocessor</i>	<i>According to AdJ this cannot yet be closed but I find the entry why not rather confusing. Can the originator (AdJ) and the implementer (MW) please discuss what still needs to be done and straighten this out ?</i>	Closed on 8-Dec-04.
1162	<i>Perform controlled clearing of versant cache</i>	<i>It appears to me that this can be closed. Tilmann ?</i>	Closed on 13-Dec-04.
1172	<i>schema_tool script doesn't work on Windows</i>	<i>It appears to me that this can be closed. Steve ?</i>	According to SG this still does not work. Reset to "analysed" on 9-Dec-04.  TZ worked on this and reset the status to "implemented" on 10-Dec-04.  <b>Action 141204/11: SG to check implementation of SxR-1172. Due: 24-Dec-04.</b>
1173	<i>schema_tool throws away Versant messages</i>	<i>It appears to me that this can be closed. Steve ?</i>	Closed on 9-Dec-04.

1238	<i>HCSSv0.2.3ST:- NullPointerException reported when stopping playback</i>	<i>It appears to me that this can be closed. Craig ?</i>	According to test by CP this still throws exceptions (although the dumped stack trace no longer appears). Reset to “accepted for implementation”.
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## Round Table

### ➤ S. Ott

- SCR-0816: The fact that this SCR has not been implemented since it was analysed more than 5 months ago, has in the meantime cost SO significantly more effort in preparing the IA CCBs than the 1 md it is expected to implement the SCR.

At the time JRR raised SCR-0816, this was considered a slight generalisation/refinement of SCR-0807, which was closed as a consequence. As it turns out, it is significantly more work to implement SCR-0816 than it is to implement SCR-0807. To set an example that in the future we will not get every change implemented even if the request is reasonable, JRR agreed to withdraw SCR-0816 and the CCB agreed to re-instate SCR-0807 as “to be implemented”.

- SPR-1046: cf. above: Testing is on-going and we hope to have a solution in time for the release of HCSS v0.2.4.

### ➤ S. Guest: Mentioned SxR-1277, which only was put into the system a week before the CCB meeting (dealing with HowTo work with calibration objects in IA). HS will analyse this.

## Schema Evolution Prospects

*We just upgraded to schema version 15. What do we already know concerning version 16 ?*

New SPIRE dataframes need to be accommodated in Jan-05. SG mentioned that SPIRE somehow never quite get their latest dataframe changes implemented in time for HCSS user releases, so SPIRE users are stuck with previous HCSS releases. Although the CCB acknowledges that a problem may exist, there is nothing the CSDT can do about it: Dates for user releases are announced well in advance and if SPIRE don’t get ready in time there is nothing the CSDT can do.



## AOB

- *We already have the next CCB scheduled: CCB #24: 27-Jan-05 @ 16:00. Shall we look ahead one further ?* RH was concerned that ErW may not be available on 27-Jan-05. JRR will discuss this with ErW. CCB #25: 15-Mar-05 @16:00.
- Discussion: In a use case it is stated that the CCB reviews the outcome of a user release and plans ahead which functionality is to be implemented in the period until the next user release. At present the second task (wish list for the next user release) is handled at the level of the HCSSMG. Should this responsibility be handed down to the CCB ?

The CCB accepted to take over this responsibility from the HCSSMG in the future. As a result we try to schedule (some of the) CCB telecons in close proximity to HCSS user releases.

JRR, 15-Dec-04