FIRST EGSE Meeting #4

ESTEC, Room Af 205/206
June 15, 9:00 - 17:00

Attendees: Otto Bauer (MPE), Luc Dubbledam (SRON), Helmut Feuchtgruber (MPE), Astrid Heske (ESTEC), Rik Huygen (KUL), Albrecht de Jong (SRON, Groningen), Ken King (RAL), Johannes Riedinger (ESTEC), Peter Roelfsema (SRON, Groningen), Stephan Veillat (ESTEC, part time)

1   Adoption of the agenda

Agreed to review agenda after item 3

2   Minutes of last meeting

Agreed, with no comments

3   Review of Action Items

EGSE-25/1/00-09: Closed – IFSI will only provide complete images of the updated OBS, it is up to the ICCs (Probably using facilities in SCOS2000) to create patches from these. A meeting will be held at CSL on 26/27th June to look at possibilities of patching the OBS if virtuoso is used. (one day is discussing simulators, one day discussing virtuoso)

<u>Action EGSE#4-01</u>: OHB will distribute agenda (and minutes) to other instruments project offices so they may decide if they wish to participate. Due: 19 June 2000

EGSE-25/1/00-10: Closed by PACS (~6 items) – was sent to Dave Parker. Still Open on SPIRE (due beginning July)

EGSE-25/1/00-12: Closed. Document sent out by HF in May

EGSE#3-000: Closed
EGSE#3-001: Closed
EGSE#3-002: Closed – we now have 8 APIDS
EGSE#3-003: Closed
EGSE#3-004: Still Open
EGSE#3-005: Closed**.** Minutes of meeting on SCOS2000 (May 23 2000) contain the RTA delta URD requirements

<u>Action EGSE#4-02</u>: KJK to check if he received this information. (Note added after meeting: Yes he did!)

EGSE#3-006: Closed
EGSE#3-007: Still Open. Just installed Windows 2000 (Due end June)
EGSE#3-008: Closed in first instance – to be further discussed at this meeting
EGSE#3-009: Closed – couldn't find a simple way of doing this
EGSE#3-010: Closed
EGSE#3-011: Closed
EGSE#3-012: Closed
EGSE#3-013: Closed
EGSE#3-014: Closed

EGSE#3-015: Closed – to be discussed at this meeting

4 Discussion on scope of work to be done by EGSE, FGSSE groups

Stephan Veillat joined the meeting for this item only
PRR presented viewgraphs

We currently have the problem of working groups set up by the EGSE and FGSSE addressing overlapping areas of work.

It was proposed the FGSAG should address this. It needs to be established with proper terms of reference, on a short timescale (a few weeks) to address these problems.

Ideally the first meeting should be at the beginning of September (proposed date 7th Sept).

In the short term it was agreed that the FGSSE should take responsibility for including EGSE requirements, in the form of use cases, into the ground segment system. The instruments should ensure that additional requirements necessary for the EGSE are included, by priming their representatives in the Use Cases group.

The EGSE group will review the Use Cases to ensure that they comply with the ILT requirements. The same philosophy will be carried out with the Common Object Model.

The discussion went on to look at the individual areas of work:

CUS: Whatever work is needed for the CUS is already being done by the Use Cases group. The only inputs from the EGSE group should be provided to this. Implementation is another problem.

FINDAS: Could be handled in the same way as the CUS.

Agreed: EGSE CUS/FINDAS Clients working groups will be dissolved

5 Status of working groups

5.1 TM/TC and TEI interface

Viewgraphs presented by AdJ

AdJ had not found any definition of how to transfer TM/TC packets across a network using TCP/IP. OHB noted that CLUSTER has already got a TCP/IP link protocol for passing TM/TC packets across a network.

Action EGSE#4-03: OHB to send specification of CLUSTER TCP/IP protocol for TM/TC packet transfer to TM/TC and TEI Interface group.

There was identified a need to clarify what tests are done on the S/C interface (electrical and protocol) at the subsystem and instrument levels. It was not clear whether IFSI was assuming the low-level interface tests would be done using the EGSE CDMS simulator or their own test box.

There are potential requirements on the S/C interface for ILT, which may extend the ESA definition – e.g. higher speed command data transfer. These need to be specified and evaluated against the ESA protocol to see if they can be implemented using the ESA protocol (e.g. by modifying the time slicing).

Agreed: The general principle of incremental testing is that subsystems groups test their subsystem's functionality and interfaces before delivery for instrument-level testing. Thus it should be an IFSI responsibility to test the S/C interface (electrical and protocol).

Agreed: to set up a meeting between the instruments and IFSI to discuss testing of the Interface and the possibility of extending the protocol to take account of additional test requirements. Proposed date: July 18th

Action EGSE#4-04: OHB to set up testing meeting between IFSI and the instruments

There was a question of how we get (if we want) Planck involved in the definition of the CDMS I/F?

Next Steps:
AdJ will produce a common block diagram for the I/F Unit and, together with the rest of the group, put together the requirements on the different blocks and produce a work package description.

Action EGSE#4-05: RH to set up an EGSE group Mailing List.

5.2 SCOS 2000 and Test Control

SPIRE representative is no long available (Not added after meeting: Jeff Payne j.payne@rl.ac.uk will take on this role)

A meeting has been held to review the additional requirements on SCOS2000. Many were found to be already available in the current system. The minutes of the meeting contain the remaining requirements.

Agreed: The three FIRST instruments (and the Planck instruments) should review the remaining RTA requirements to see if these are really necessary – in the hope that they are not.

Action EGSE#4-06: LD to send the new Delta RTS requirements to the FIRST and Planck Managers to be reviewed.

There are still problems with getting the software:
    LD has got the SCOS2000 licence (other groups have not yet)
    There is still difficulty in getting the COTS tools.

Agreed: We should co-ordinate our efforts to address the problems with getting the software. LD should keep the other teams updated with progress.

OHB felt it was also important that we make use of the ESA paid effort (5sm). We have already identified some work (provision of the interface from SCOS2000 to the EGSE uplink/downlink) that could be done. The Planck instruments may want other work carried out. We need to be invited to get involved in using the ESA manpower.

Action EGSE#4-07: OHB to send email to the HFI/LFI Project managers to invite them to join us in the use of the ESA manpower.

Support and Maintenance: It looks as if ESOC would accept that the FIRST/Planck instruments could be involved in software maintenance as one entity. This means the 35K could be split between instruments

 Action EGSE#4-08: LD to extend the SCOS2000 mail exploder.

5.3   CUS

Dissolved – see 4

5.4   FINDAS clients, incl. use cases, COM

Not to be started – see 4

6   EGSE URD incl. IA/QLA

RTA Requirements:
Need to include all RTA requirements in the document. Each should be identifed as desirable/necessary and flagged as available, or not, in SCOS2000.

Action EGSE#4-09: RH to provide the complete set of RTA requirements in MS Word readable format to KK.

Test Control requirements:
Already included

IA/QLA I/F requirements:
To be left in the document

CUS requirements:
KK to extract these from HF's note and PRR's comments.

FINDAS requirements:
No requirements to be included, but explanation of why to be put in the document

Action EGSE#4-10: PR to provide a piece of text explaining how the FINDAS requirements will be implemented

Action EGSE#4-11: KK to issue new version of EGSE URD. Due 21 July 2000.

Action EGSE#4-12: All to reviewed the EGSE URD and make comments. Due: 21 September 2000

7   Next steps

Nothing to discuss

8   AOB

None

9   Date of next meeting

6th September 2000, TBC

Actions from this Meeting

Action EGSE#4-01: OHB to distribute agenda (and minutes) of the PACS meeting at CSL to discuss patching the OBS, to other instruments project offices so they may decide if they wish to participate. Due: 19 June 2000

Action EGSE#4-02: KJK to check if he received the Minutes of the technical meeting on SCOS2000 (held on May 23 2000). Due: 23 June 2000.

Action EGSE#4-03: OHB to send specification of CLUSTER TCP/IP protocol for TM/TC packet transfer to the TM/TC and TEI Interface group. Due: 23 June 2000

Action EGSE#4-04: OHB to send out a note suggesting a meeting to discuss the testing of the S/C interface between IFSI and the instruments to discuss the testing of the S/C interface. Due: 21 June 2000

Action EGSE#4-05: RH to set up an EGSE group Mailing List. Due: 19th June 2000

Action EGSE#4-06: LD to send the new Delta RTA requirements to the FIRST and Planck Managers to be reviewed. Due: 22 June 2000

Action EGSE#4-07: OHB to send email to the HFI/LFI Project managers to invite them to join us in the use of the ESA manpower. Due 21 June 2000

Action EGSE#4-08: LD to extend the SCOS2000 mail exploder. Due 19 June 2000

Action EGSE#4-09: RH to provide the complete set of RTA requirements in MS Word readable format to KK. Due 30 June 2000

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