

**Minutes of Meeting
EGSE-WG # 32 at Astrium/ Friedrichshafen
16-Sept-2003**

Participants:

HIFI: Luc Dubbeldam
PACS: Otto H. Bauer, Erich Wiezorrek
SPIRE: Ken King
ESTEC: Johannes Riedinger
Stefan Thürey, Serge Valera
Alcatel: Felix Chatte
Astrium: Markus Kölle, Siegmund Idler
ESOC: Gianpiero Di Girolamo

Proposed Agenda: (Minute writer: Otto)

- (1) Minutes and Action Items from last meeting
- (2) Status of IEGSE hardware
- (3) PIPE and TOPE status
- (4) IEGSE/CCS integration planning
 - IEGSE Hardware Integration Plan
 - PIPE Validation Plan prepared by Alcatel
 - TOPE Validation Plan
- (5) 1553 testing concept
 - IFSI proposal and Project reaction
 - Use of CCS-Light CDMU simulator and real DPU
- (6) HPSDB and Instrument MIB's
- (7) MOIS
- (8) OBSM and SCOS 2000
- (6) Next meeting/telecon
- (7) AOB

Additional topics:

- (1) Logica patch
- (2) OOL, TCH
- (3) Epoch
- (4) iLog

(1) Minutes and Action Items from last meeting

No comments on minutes from last meeting

Action	Actionee	Description	Due Date
EGSE#23-03	Otto	Provide EGSE-CCS integration plan	Mid September
EGSE#29-05	Felix	Confirm date of CCS/light availability and make sure that time will be set aside for IEGSE integration	Mid September
EGSE#29-08	Bryan, Serge	Find out status of MIB Tailoring Notes	Mid September
EGSE#29-09	Bryan	Find out if and when LOGICA patch will be permanent	Mid September
EGSE#30-02	Felix	to contact whomever appropriate at Project or Industry to formalize the agreements between Instruments and TERMA	Mid September
EGSE#30-03	Otto	to arrange with Project that one IEGSE system is sufficient	1 st August
EGSE#31-01	Otto	to organise a meeting between the 3 instrument teams , Theurey and the ESA Avionics lab to define the etests that should be carried out on the 1553 interface.	1 st August
EGSE#31-02	Otto	to finalise formal details about getting CCS	Mid September

EGSE#23-03: Closed, PIPE-AT first draft is delivered, next steps are clear.

EGSE#29-05: Closed, CCS light is available.

EGSE#29-08: Open: Serge, still has to check this with Hassan,
new due date end of September.

EGSE#29-09: Closed, it will be included.

→ **AI EGSE#31-01:** Felix to find out, if Logica patch is included in CCS, patch has to be tested, due 06-Oct-03.

EGSE#30-02: Closed by email from Osvaldo.

EGSE#30-03: Closed: Otto tried it, but nobody from Project feels responsible.
Whom to address? Alenia, Alcatel, Astrium?

EGSE#31-01: Closed, meeting date will be set in this meeting.

EGSE#31-02: Closed.

(2) Status of IEGSE hardware

Offer delivered by Dell this day (of the meeting) was discussed.

Identical machines would be preferable: Data server, SCOS 2000, IA, also for the redundant machines.

Instruments will pay hardware maintenance for the first three years, but ask industry to organize it, and pay for it later.

→ **AI EGSE#31-02:** Felix to find out if a half-set (3 machines: data server, SCOS 2000, IA) is sufficient for tests at Alenia, due 06-Oct-03.

→ **AI EGSE#31-03:** Felix to confirm that proposed H/W maintenance concept is accepted by Alcatel, due 06-Oct-03

Software maintenance:

SCOS:

SCOS 2.3e will be frozen until at least the end of AVM testing. Very likely there will be an update for FM. ESOC plans already with S2K V 3.1.

Serge: The final version will be S2K 4.0 which incorporates V3.1 with all the patches needed by IEGSE's and CCS.

HCSS (including Versant, Java, ...):

Updates are possible, but have to be agreed between instrument teams and Astrium. Acceptance tests are necessary.

Internet connection:

→ **AI EGSE#31-04:** Felix, Markus: Alcatel, Astrium to confirm that we have external network connections for S/W update and remote login to IEGSE, due 15-Oct-03.

(3) PIPE and TOPE status

Luc wrote SOW (implementation in Java) and test report. PIPE-IF has to be tested on CCS light. Simulator also written by Luc.

Erich: Presented a viewgraph to clarify principal of operation and integration of TC (see annex to MoM).

→ **AI EGSE#31-05:** Luc to distribute his PIPE documentation to Felix, Markus Ken, Otto, due 23-Sep-03.

→ **AI EGSE#31-06:** Felix, Markus, Ken, Otto to comment, due 06-Oct-03.

(4) IEGSE/CCS integration planning (only affecting IEGSE and HCSS)

IEGSE/CCS: (only affecting IEGSE and HCSS)

hardware integration

PIPE testing

TOPE testing

This integration is separated from the CCS/EGSE/instrument (1553) integration. The proposed date to integrate IEGSE and CCS is middle of March 2004, delivery to Astrium, to be ready to do acceptance testing end of March 2004.

CCS/EGSE/instrument: 1553 integration

Cable (1553, power, sync) will be available beginning of November. After middle of November PACS will have difficulties to support the test. The PACS DPU will not be available after middle of November. **Now: .. after middle of December.**

- **AI EGSE#31-07:** Otto to check, if PACS DPU needs external 131 kHz sync, due 19-Sep-03.
- **AI EGSE#31-08:** Ken to check when CDMS Sim modification for PACS burst mode can be implemented, due 30-Sep-03.
- **AI EGSE#31-09:** Felix to check when 1553 cable will be available, due 30-Sep-03.
- **AI EGSE#31-10:** Ken, Luc to check, if PACS 1553 implementation is also representative for SPIRE and HIFI, 06-Oct-03.
- **AI EGSE#31-11:** Otto to coordinate EGSE WG plan for IEGSE H/W purchase and set-up, and S/W deliveries, due 17-Oct-03.

IEGSE Hardware Integration Plan:

Incoming inspection plan already exists. Otto requests information about location, power/network connections ...

- **AI EGSE#31-12:** Markus, Astrium to draft IEGSE H/W integration plan, due 30-Oct-03.

PIPE testing:

Alcatel will update the already existing plan to include connection failures.

- **AI EGSE#31-13:** Markus, Ken, Erich to comment on PIPE validation plan (draft 2), due 30-Sep-03.

Telecommand Sequence Interface:

Draft of validation plan will be delivered by Erich end of October.

→ **AI EGSE#31-14:** Erich to provide validation plan for Telecommand Sequence I/F, due 30-Oct-03.

→ **AI EGSE#31-15:** Felix, Markus, Ken, Luc, Otto to comment, due 14-Nov-03.

(5) 1553 testing concept

IFSI proposal and Project reaction:

Luc original document is ok. IFSI should react on Stefan's comments. Alcatel has the same requirements on 1553 testing (MIL 1553B). Perhaps Alcatel could help with equipment.

Special meeting at IFSI, October 23: **Meeting did not take place.**

Use of CCS-Light CDMU simulator and real DPU:
SVVP has to be rewritten for test.

→ **AI EGSE#31-16:** Otto to trigger IFSI to respond to Stefan's comments, due 19-Oct-03.

→ **AI EGSE#31-17:** Patrice to provide test plan for CSS – PACS DPU testing, due 14-Oct-03-

(6) HPSDB and Instrument MIB's

Nothing new, there are some problems with the HPSDB right now. Felix will keep us informed.

(7) MOIS

MOIS can generate test procedure and at the same time also already the TC sequence(s). A tool is requested to transfer back a test procedure into MOIS. Some rules have to be followed. The corresponding document will be distributed by Felix.

For ERICH: check how PACS internal CRC TC parameters fit.

→ **AI EGSE#31-18:** Felix to distribute rules for MOIS applications, due 30-Sep-03.

→ **AI EGSE#31-19:** Ken, Luc, Otto to comment on MOIS rules, due 17-Oct-03.

(8) OBSM and SCOS 2000

Common approach Herschel/Planck shall be reached.

ESOC may deliver a common S2K OBSW implementation, but implementation will not

start before July 2004.

Felix will report about a meeting between ESOC/Alcatel to be held beginning October in the next EGSE WG meeting/telecon. Here OBSM will be discussed.

→ **AI EGSE#31-20:** Serge to distribute new installation guide and user manual for new patch, due 22-Oct-03

(6) Next meeting/telecon

Telecon: Wednesday, October 29, 10:00

(7) AOB

ESOC wants to present external interfaces at next EGSE meeting.

- OOL & TCH

Johannes: Client-Server concept: Server has to run on CCS, nearly real-time information, decision within 5 minutes. If CCS screen is available to instruments OOL and TCH can be transferred in files.

It was agreed that there will be a CCS SCOS client in the IEGSE area for TCH display. CCS S2K client will be set-up/purchased by industry.

A procedure is needed how to transfer the OOL/TCH files once per day or on instrument request to IEGSE.

- time epoch we are using

Two problems:

1958 epoch: SCOS timing is based on 1970 epoch, this will be saved via a MISCconfig variable available with the next S2K patch (5) epoch in PUS headers:

 ILT: ensured by CDMSsimulator

 IST/operation: ensured by CDMU (on-board hot redundancy, switch-on procedures)

Epoch to be used 01-Jan-1958 !!

- ILOG licenses

15 run-time licenses are available (managed by ESTEC), Serge simple needs some configuration data from the hosts where we want to run ILOG. Serge will send e-mail about configuration.

→ **AI EGSE#31-21:** Ken, Luc, Otto to provide information about currently used ESOC iLog license to Serge, due 30-Sep-03.

Status of Action Items at end of meeting

Action	Actionee	Description	Due Date
EGSE#29-08	Bryan, Serge	To find out status of MIB Tailoring Notes	30-Sep-03
EGSE#32-01	Felix	To find out if LOGICA patch is included in CCS SCOS	6-Oct-03
EGSE#32-02	Felix	To find out if half a set of IEGSE machines (1 HCSS server, 1 SCOS, 1 QLA) is sufficient for AVM tests at Alenia	6-Oct-03
EGSE#32-03	Felix	To confirm that proposed IEGSE H/W maintenance concept is accepted by Alcatel	6-Oct-03
EGSE#32-04	Felix, Markus	Alcatel, Astrium to confirm the instrument teams have external network connection to their IEGSE for S/W update and remote login (for tests at Astrium, Alenia, ESTEC)	15-Oct-03
EGSE#32-05	Luc	To distribute his PIPE documentation to Felix, Markus, Ken, Otto	23-Sept-03
EGSE#32-06	Felix, Markus, Ken, Otto	To comment on Luc's PIPE documentation	6-Oct-03
EGSE#32-07	Otto	To check, if PACS DPU needs external sync (131 kHz)	19-Sep-03
EGSE#32-08	Ken	To check when CDMS Sim modifications for PACS burst mode (5 days of Andy) can be implemented	30-Sep-03
EGSE#32-09	Felix	To check when 1553 cable to connect PACS DPU to PLM-EGSE will be available	30-Sep-03
EGSE#32-10	Ken, Luc	To check, if PACS DPU 1553 implementation is also representative for SPIRE and HIFI	6-Oct-03
EGSE#32-11	Otto	To coordinate EGSE WG plan for IEGSE H/W purchase and set-up, and S/W deliveries	17-Oct-03
EGSE#32-12	Markus	Astrium to draft IEGSE H/W integration plan	30-Oct-03
EGSE#32-13	Markus, Ken, Erich	To comment on PIPE validation plan (Draft 2) distributed by Alcatel	30-Sep-03
EGSE#32-14	Erich	To provide validation plan for Telecommand Sequence I/F	30-Oct-03

EGSE#32-15	Felix, Markus, Ken, Luc, Otto	To comment on Erich's validation plan	14-Nov-03
EGSE#32-16	Otto	To trigger IFSI to respond to the two faxes (1553 testing) sent by Stefan	19-Oct-03
EGSE#32-17	Patrice	Alcatel to provide test plan for CCS-CDMSsim – PACS DPU testing (1553)	14-Oct-03
EGSE#32-18	Felix	To distribute rules for MOIS applications	30-Sep-03
EGSE#32-19	Ken, Luc, Otto	To comment on MOIS rules	17-Oct-03
EGSE#32-20	Serge	To distribute new installation guide and user manual for new S2K patch	22-Oct-03
EGSE#32-21	Ken, Luc, Otto	To provide information about currently used ESOC iLog license to Serge	30-Sep-03

EGSE meeting #32

CCS-IEGSE: TC Sequence Interface

