



Minutes of Meeting

Date:	20.04.2007	Herschel
Doc.-No.:	HP-2-ASED-MN-1338	
Meeting place:	EADS Astrium FN	Chairman:
Date/Time:		Secretary A. Gatti <i>[Signature]</i>
Agenda dated:		Close of Meeting:

Subject: IEGSE Upgrade Activities - Debriefing

Participants:	S. Idler D. Hendry <i>[Signature]</i> S. Hamer E. Wiezorrek	Additional Distribution:
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<input type="checkbox"/> Brief-Minutes (except following sheets)	<input type="checkbox"/> Summary of Results of Sheets 2 till
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Updated CCS handler installed in all 3 IEGSE and successfully verified.
 TM distribution still to be checked.
 PACS IEGSE software update installed except for QLA.
 SPIRE and HIFI IEGSE software update still to be performed.
 IEGSE configuration and set-up and procedure still to be compiled.

AGENDA :

Objective of the meeting is :

- to assess the outcome of the IEGSE configuration upgrade and the result of the CCS/IEGSE I/F check test
- to establish if any open work remains and any related activities.

Suggested agenda:

- 1) Status of IEGSE room set-up
- 2) SW Status of separate instruments stations into 3 set-up
- 3) HW Status of Configuration
- 4) Status of network set-up (internal & external)
- 5) Outcome of the test of the new version of the CCS Handler (3 instruments stations instead of one), CCS – IEGSE I/F check test.
- 5) Open Works
- 6) A.O.B

On the 18th of April a meeting to get the status before starting the upgrade was held (see outcome in Annex 1).

1) IEGSE Room Set-Up status:

- Everything has been settled and all the needed items were in place.

2) SW Status of separate instruments stations into 3 set-up:

- Completed for PACS regarding the build
- Not completed for HIFI and SPIRE: HIFI build and SPIRE build not yet installed on the CORE system.
- Proper CCS handler installed in all machines
- Router gateway configuration installed

OW - 1

3) HW Status of configuration:

- PACS QLAMachine could not be configured into SCOS: the machine is taken back and configuration will be done at PACS premises
- HIFI & SPIRE SCOS system OK

OPEN

4) Status of Network set-up:

- All machines are connected to CCS via its gateway;
- DHCP server has been installed for external internet access. Special scripts running on this machine to open a tunnel for a single workstation at Instruments premises, with specific set-up required, to ensure safety access.
- It is possible to perform remote administration of the Instruments stations and listen into TM;
- *It has been reminded to never switch-off the machines in the IEGSE room: in case of power drop just the normal switch-on button is needed without need for configuring.*

5) Outcome of the CCS-IEGSE I/F test:

- **18th of April 2006:**
- The test failed – The connection is done and is stable (alive message are correctly exchanged) but the TC sent from CCS to the IEGSE are not acknowledged by the IEGSE and CCS drops connection
- **19-04-2006:**
- Foreseen TRR before formal I/F heck could not take place because of the problems between CCS and IEGSE.
- The TC packets from CCS to IEGSE are received on IEGSE but they are not interpreted correctly they look corrupted. From the binary display of TC packets on the CCS it has been seen that the TC packet header is not correct.
- After investigation inside the data base it appears that the TC packet header referenced by the TC of I-EGSE is not the correct one: it should be GX000000 (packet header and data field header) it is GX001000 (no packet header and no data field header). (NCR 3228)
- Workaround correction on the CCS MIB files was done directly on CCS (19 IEGSE telecommands corrected).
- Concerning future delivery the problem has been corrected already at source level (TBC). PACS/EW stated that instruments MIB has always specified GX001000. To be confirmed that in future MIB will be GX000000
- To be ensured that the patched part is part of the next official HPSDB delivery.

- It has been clarified that there is only one SCOE MIB file for all IEGSEs.

- Test has been run from 18:00 until 22:45:

All_subscribe.tcl

PACS IEGSE:

- Connect HPACSEGSE (APID 2043)
- At the beginning some problems with the importing of the new version of subscribe parameters script into CVS;
- Then the run of the script CCS_IEGSE_IFTest_PACS_20cmds.tcl for PACS has been executed but after 1 command connection failed. It has been found that PACS machine was overloaded.
- Then the test with PACS has been continued running the following scripts successfully:
 - CCS_IEGSE_IFTest_PACS_20cmds.tcl
 - CCS_IEGSE_IFTest_PACS_102cmds.tcl
 - CCS_IEGSE_IFTest_PACS_200cmds.tcl

HIFI IEGSE:

AI / TAS-F

- Connect HHIFIEGSE (APID 2042)
- At the beginning some problems keeping the connection active. Found that there were 2 pipe gateway activated.
- After having started the pipe gateway again the connection was kept alive.
- Then the test with HIFI has been continued running the following scripts successfully:
 - CCS_IEGSE_IFTest_HIFI_20cmds.tcl
 - CCS_IEGSE_IFTest_HIFI_102cmds.tcl
 - CCS_IEGSE_IFTest_HIFI_200cmds.tcl

SPIRE IEGSE:

- Connect HSPIREEGSE (APID 2044)
- At beginning some overloading problems (similar to PACS). After having started the pipe gateway again everything was OK.
- Then the test with SPIRE has been continued running the following scripts successfully:
 - CCS_IEGSE_IFTest_SPIRE_20cmds.tcl
 - CCS_IEGSE_IFTest_SPIRE_102cmds.tcl
 - CCS_IEGSE_IFTest_SPIRE_200cmds.tcl

Performed simultaenous session for PACS & SPIRE:

- CCS_IEGSE_IFTest_PACS_102cmds.tcl
- CCS_IEGSE_IFTest_SPIRE_102cmds.tcl

Disconnect HPACSEGSE
 Disconnect HHIFIEGSE
 Disconnect HSPIREEGSE

- During the execution of the test it has been discovered that the pipe gateways store all the old packet, so , if a connection is established without having started again the pipe gateway old packets are arriving.
- The pipe gateway has to be started at beginning of each test .This has to be included in the IEGSE Set-Up Procedure together with the time synhronisation.
- **20-04-2006:** the test has been re run as follows:
 - At CCS :
 - SubscribeParams_All.tcl
 - At IEGSEs:
 - Rebot pipe gateway for all 3 stations
 - Synhronie to NTP Time Server
 - Set-up
- At CCS:

OW
 AI - PACS

HIFI IEGSE:

- Connect HHIFIEGSE (APID 2042)
- Running the following scripts successfully:
 - CCS_IEGSE_IFTest_HIFI_20cmds.tcl
 - CCS_IEGSE_IFTest_HIFI_102cmds.tcl
 - CCS_IEGSE_IFTest_HIFI_200cmds.tcl

SPIRE IEGSE:

- Connect HSPIREEGSE (APID 2044)
- Running the following scripts successfully:
 - CCS_IEGSE_IFTest_SPIRE_20cmds.tcl
 - CCS_IEGSE_IFTest_SPIRE_102cmds.tcl
 - CCS_IEGSE_IFTest_SPIRE_200cmds.tcl

PACS IEGSE:

- Connect HPACSEGSE (APID 2043)
- Running the following scripts successfully:
 - CCS_IEGSE_IFTest_PACS_20cmds.tcl
 - CCS_IEGSE_IFTest_PACS_102cmds.tcl
 - CCS_IEGSE_IFTest_PACS_200cmds.tcl

Performed simultaenous session for PACS & SPIRE:

- CCS_IEGSE_IFTest_PACS_102cmds.tcl
- CCS_IEGSE_IFTest_SPIRE_102cmds.tcl

Disconnect HSPIREEGSE
Disconnect HHIFIEGSE
Disconnect HPACSEGSE

- PACS IEGSE to write a report on the activity

- **TIME GAP of 33 sec between TAI and UTC**

Situation :

- Modification at IEGSE level has been done so the leap seconds have been removed from the test scripts and tested.

6) OW:

1. QLA/SCOS set-up for PACS IEGSE
2. TM distribution from CCS to IEGSE with all 3 IEGSE (simulation / replay session)

AI- PACS

AI-
ASED/PACS/

- | | |
|--|--------------------|
| 3. HIFI & SPIRE build (could be done remotely) | SPIRE/HIFI |
| 4. Instruments EGSE Lay-out document indicating the lay-out, the connection, the network, the configuration inside the IEGSE room. | AI-SPIRE/HIFI |
| 5. Instrument EGSE Set-Up procedure to be written by each Instrument for their own EGSE. | AI-PACS |
| 6. PACS IEGSE to write a report on the performed activities | AI-PACS/HIFI/SPIRE |
| 7. CCS – IEGSE I/F check test procedure to be written | PACS |
| | ASED |

7) Conclusion:

Before next instruments WU test session all the above OW need to be closed.

It is suggested to perform the TM distribution check after HIFI & SPIRE have completed their IEGSE build upgrade to take the opportunity to have one test session to cover all the activities.

For the TM distribution check the Instruments can remotely verify that everything works properly.

Name	Dep./Comp.		Name	Dep./Comp.
Aiberti von Mathias Dr.	ASG22		Schweickert Gunn	ASG22
Baldock Richard	FAE12	X	Sonn Nico	ASG51
Barlage Bernhard	AED13		Steininger Eric	AED32
Bayer Thomas	ASA42	X	Stritter Rene	AED11
Brune Holger	ASA45		Suess Rudi	OTN/ASA44
Edeihoff Dirk	AED2		Wagner Klaus	ASG22
Fehringer Alexander	ASG13	X	Wietbrock Waiter	AET12
X Fricke Wolfgang Dr.	AED 65		Wöhler Hans	ASG22
Geiger Hermann	ASA42		Wössner Ulrich	ASE252
Grasl Andreas	OTN/ASA44			
Grasshoff Brigitte	AET12			
X Hamer Simon	Terma			
X Hendry David	Terma			
Hengstler Reinhold	ASA42			
Hinger Jürgen	ASG22			
X Hohn Rüdiger	AED65			
Hölzle Edgar Dr.	AED32			
Huber Johann	ASA42			
Hund Walter	ASE252			
X Idler Siegmund	AED312			
Ivány von András	FAE12			
Jahn Gerd Dr.	ASG22			
Kalde Clemens	ASM2			
Kameter Rudolf	OTN/ASA42			
Kettner Bernhard	AET42			
Knoblauch August	AET32	X	Alcatel Alenia Space Cannes	AAS-F
X Koelle Markus	ASA43	X	Alcatel Alenia Space Torino	AAS-I
X Koppe Axel	AED312	X	ESA/ESTEC	ESA
X Kroeker Jürgen	AED65			
La Gioia Valentina	Terma		Instruments:	
Lang Jürgen	ASE252	X	MPE (PACS)	MPE
Langenstein Rolf	AED15	X	RAL (SPIRE)	RAL
Langfermann Michael	ASA41	X	SRON (HIFI)	SRON
Maukisch Jan	ASA43			
Much Christoph	ASA43			
Müller Jörg	ASA42		Subcontractors:	
X Müller Martin	ASA43		Alcatel Alenia Space Antwerp	ABSP
Peltz Heinz-Willi	ASG13		Austrian Aerospace	AAE
Pietroboni Karin	AED65		Austrian Aerospace	AAEM
Platzer Wilhelm	AED2		BOC Edwards	BOCE
Reichle Konrad	ASA42		Dutch Space Solar Arrays	DSSA
Runge Axel	OTN/ASA44		EADS Astrium Sub-Subsyst. & Equipment	ASSE
Schink Dietmar	AED32		EADS CASA Espacio	CASA
X Schlosser Christian	OTN/ASA44		EADS CASA Espacio	ECAS
Schmidt Rudolf	FAE12		European Test Services	ETS
Schmidt Thomas	ASA42		Patria New Technologies Oy	PANT
Schuler Günter	ASA42		SENER Ingenieria SA	SEN