Post Pass Activities
File: C_GSP_SYS_POPA.xls
Author: F. Keck

Procedure Summary

Objectives

Post Pass Activities for both Spacecrafts.

Summary of Constraints

The VC-2 offline consolidation, described in this procedure, must
be triggered asap. If possible already during the pass.

Spacecraft Configuration

Start of Procedure

End of Procedure

Reference File(s)

Input Command Sequences

Output Command Sequences

Referenced Displays

ANDs   GRDs   SLDs

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/11/2008		1	Created	F. Keck	
09/12/2008	2	1.01	Validation : Added reference to consolidation procedure	F. Keck	
04/03/2009	2.1	2	Update after Routine Ops simulations	F. Keck	
04/06/2009		3	Update of comments	F. Keck	
12/06/2009		4	All consolidation activities are done post pass.	F. Keck	
20/08/2009		5	Using the new consolidation script	F. Keck	
20/08/2009		6	Transfer of post pass printouts added	F. Keck	
17/09/2009		7	Additional and corrected comments	F. Keck	
21/09/2009	2.5	8	Consolidation check range increased to previous 3 ODs	F. Keck	
27/10/2009		9	Updates for additional consolidation	F. Keck	
05/02/2010		10	New OOL script, new TCO strategy, pass report email	F. Keck	
05/02/2010	3	11	Herschel Pass Report updated	F. Keck	
20/05/2010		12	Update for fast VC-2 transfer and correction of some typos	F. Keck	
18/02/2011		13	H-SOI-15 included. 10min waiting time after P/B transfer included. Distribution of Herschel pass email updated.	F. Keck	
23/03/2011		14	"POPA Anomalies Action Sheet" attached. Additional and improved comments. New Herschel Pass Report Template.	F. Keck	
31/03/2011		15	Additional consolidation steps. Updated action sheets. Consolidation report range extended to 20 days.	F. Keck	

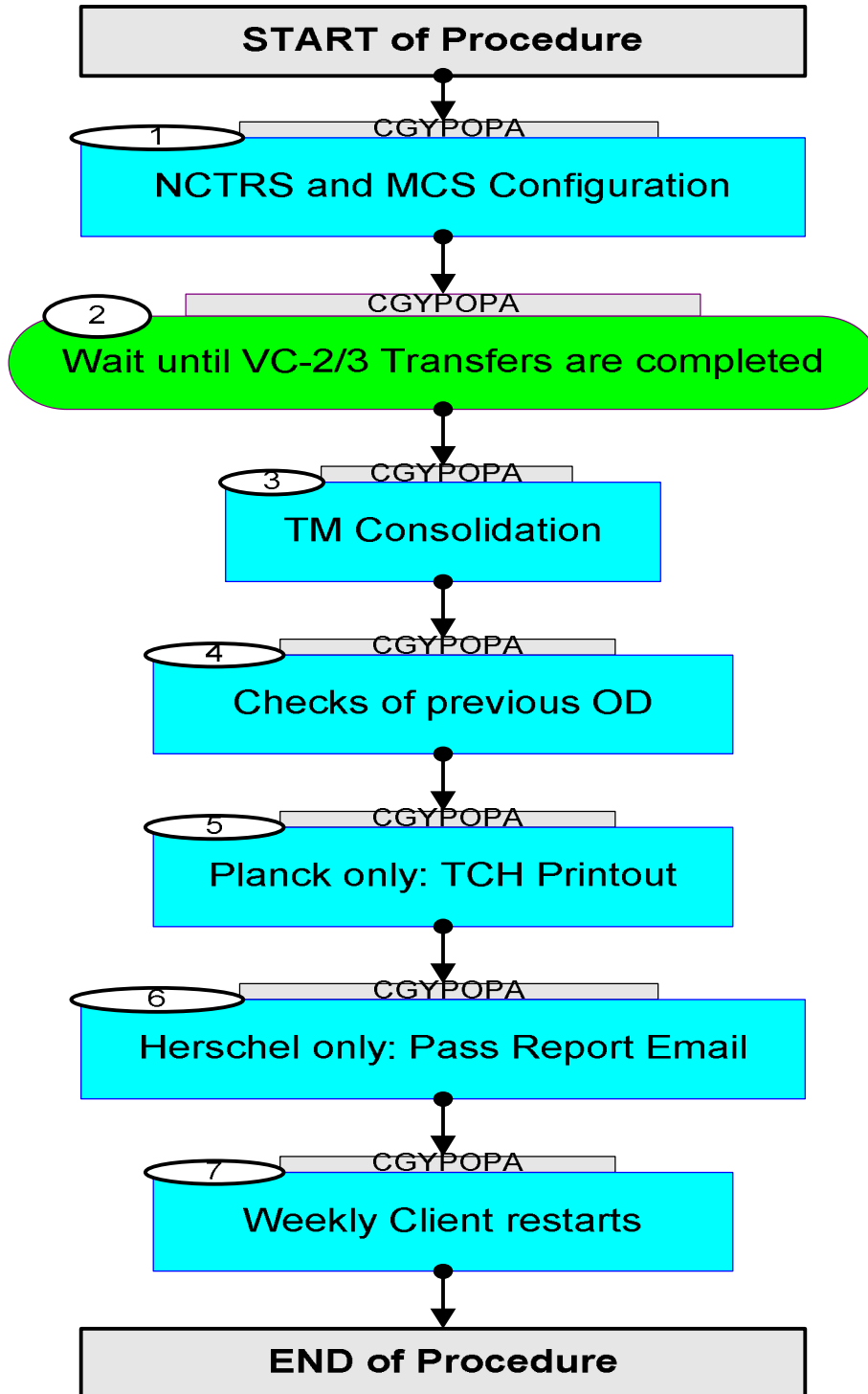Status   : Version 16 - Updated
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| 11/08/2011 | 3.1 | 16 | Weekly client restart added. Updated "SPACON Action Lists (POPA)" according to On-Call SOE Instruction. Added HP_SWS as cc to Pass Email. Planck: Check of consolidation status reduced to previous day only. | F. Keck | |

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HERSCHEL PLANCK   **esa**

Procedure Flowchart Overview

START of Procedure

CGYPOPA
1   **NCTRS and MCS Configuration**

CGYPOPA
2   **Wait until VC-2/3 Transfers are completed**

CGYPOPA
3   **TM Consolidation**

CGYPOPA
4   **Checks of previous OD**

CGYPOPA
5   **Planck only: TCH Printout**

CGYPOPA
6   **Herschel only: Pass Report Email**

CGYPOPA
7   **Weekly Client restarts**

END of Procedure

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HERSCHEL PLANCK   **esa**

Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name : () *TimeTag Type:* *Sub Schedule ID:*		
1		*NCTRS and MCS Configuration*		Next Step: 2
1.1		*NCTRS: Remove some links*		
		- Remove TC link - Remove ROCF - Remove VC-0, 1 and 4 Leave VC-2 and 3 until transfers are completed.		
2		*Wait until VC-2/3 Transfers are completed*		Next Step: 3
		The transfer of VC-2 and 3 was improved and should complete during the DTCP.		
		NCTRS - Log: Check for VC-2/3 remain on DROP.		
		Wait 10 more minutes: To ensure that all TM has arrived in the LTAs (internal MCS RAPID distribution), wait additional 10 minutes after the drop on the NCTRS was observed.		
2.1		*Check if VC-2/3 transfers were correctly completed*		
		NCTRS - Log: Check for - VC-2/3 gap messages: -> Real gaps on station, no recovery possible - Aborted VC-2/3 link: -> Contact ECC about aborted links -> Probably a manual offline transfer required		
		MCS - Event Logger: Set Message Filter (case sensitive) to "Frame Out of Sequence". Expected gap messages in VC-0/4 TM (if you don't see them, check your filter setting). Check for gap messages in VC-2/3 TM. -> Real gaps on station, no recovery possible		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
2.2		*How to start a manual offline transfer*		
		1) Telnet to the LTA 2) Start the Playback TMPH 3) Filter for TM Frames (or SPID 100000600) 4) Filter for VCID 2 (DS 2) or VCID 3 (DS 4) 5) Find the Generation Time of the last TM Frame received at the MCS 6) ERT = Generation Time + OWLT (use 4s) This ERT should fit to the time when the dump was completed (see log of previous DTCP).		
		If a VC-2/3 transfer was not complete: Use this ERT as the start time for an VC-2/3 offline transfer (for the end time use the end time of the previous DTCP).		
3		*TM Consolidation*		Next Step: 4
		Do only continue when all VC-2 and 3 TM frames have been transferred from the ground station to the prime MCS. I.e. first complete additional offline transfers if required (if necessary transfer TM from the backup TMTCS to the prime NCTRS).		
		TM Consolidation must be performed on **both** LTAs (hltaa/hltab, pltaa/pltab). Depending on the APID the consolidation should be automatically (online) or must be done manually (offline). See the annex listing the online and offline APIDs for Herschel and Planck. The automatic online consolidation must be checked and in case of problems the online APIDs must be manually consolidated as well.		
3.1		*Login to LTAs*		
		1) Open terminal 2) > telnet hltaa (or hltab, pltaa, pltab) 3) Login: hmcsops [hltaa.ops] (or hmcsops [hltab.ops], pmcsops [pltaa.ops], pmcsops [pltab.ops])		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Start Consolidator script: > OffConsIncr.py <u>Comment:</u> This is a symbolic link and points always to the latest version of the script. <u>Comment:</u> Adding "H" or "P" as a parameter will make the script to use the Herschel or Planck specific offline APIDs as default.		
3.2		*VC-2 Offline Consolidation*		
		Start VC-2 offline consolidation for VC-2 offline APIDs. **The VC-2 Consolidation must be completed immediately after or - if possible - during the pass! Start as soon as the VC-2 transfer to MOC is finished.**		
		Follow the menu of the consolidation script: --> 1. Consolidation --> 1./2. Specify start and end time (of previous OD) --> 3. Datastream is 2 --> 4. APIDs: Select the VC-2 offline APIDs according to the annex (if you have started the script with the parameter "H" or "P", as mentioned before, the APIDs are pre-selected) --> 6. Start Consolidation		
3.3		*Check Consolidation Status*		
		With the completed VC-2 and VC-3 transfer, the online consolidation should be completed as well. Check consolidation status of all APIDs, by generating a **Consolidation Report** for **- the last 20 days** (Herschel) **- the previous OD only** (Planck)		
		Follow the menu of the consolidation script: --> 2. Reporting --> 1. Generate Report --> 1. Report Name: xxx --> 2./3. Specify start and end time (start: 20(H) or 1(P) day(s) ago, end: end of previous OD) --> 4. Start Generation		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		--> 2. Process Existing Report --> 1. Report Name: xxx --> **If NOT CONSOLIDATED or MISSING windows are reported, additional consolidation or investigations are required (described in following step).**		
3.4		*If required: Additional Consolidation (1)*		
		NOT CONSOLIDATED or MISSING windows were reported Available Options: 1. Save Output 2. Do Consolidation on Not Consolidation Windows 3. Do Consolidation on Missing Windows 4. Do FINAL Consolidation on Not Consolidation Windows 5. Return		
		If NOT CONSOLIDATED windows were reported: --> 2. Do Consolidation on Not Consolidated Windows -->		
		If MISSING windows were reported: --> 3. Do Consolidation on Missing Windows -->		
		Generate a second Report and process it again as described above Don't care about MISSING windows anymore, they are not a problem (i.e. they are empty and contain no packets). **If NOT CONSOLIDATED windows are reported, another additional consolidation is required (described in following step).**		
3.5		*If required: Additional Consolidation (2)*		
		NOT CONSOLIDATED windows were reported --> 2. Do Consolidation on Not Consolidated Windows -->		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Generate a third Report and process it as described before **If (still) NOT CONSOLIDATED windows are reported, additional activities are required (described in following step).** **Don't care about MISSING windows anymore (when reaching this step, these windows are confirmed to be empty).**		
3.6		*If required: Final Consolidation*		
		NOT CONSOLIDATED windows were still reported Available Options: 1. Save Output 2. Do Consolidation on Not Consolidation Windows 3. Do Consolidation on Missing Windows 4. Do FINAL Consolidation on Not Consolidation Windows 5. Return		
		Final Consolidation If there are still **NOT CONSOLIDATED** windows reported (ignore MISSING windows): 1) Add to DTCP report email 2) If next day is not a working day: Call On-Call SOE 3) On-Call SOE to investigate before next DTCP See the attached "Anomalies Action Sheet" as well. However, if you know **exactly** the logical reason why the consolidation has failed (e.g. you were pre-warned by email about expected problems) you can proceed with --> 4. Do FINAL Consolidation on Not Consolidated Windows		
4		*Checks of previous OD*		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		The following checks are for the previous OD only, which has following time range: From: Start of yesterday's DTCP To: Start of today's DTCP Apply the checks only for this time range! React according to the attached "Action Sheet" in case of anomalies. **Do the checks on the SPACON client and put all the printouts into the directory:** **.../PRINT/SPACON/**		
4.1		*Search unknown TM packets*		
		Use Playback TMPH with filter: - DS: 2 and 4 - SPID: 100000100 (or select DU Type = UNKN SP)		
		If unknown packets in previous OD were found, print to file (into directory .../PRINT/SPACON/): Herschel: H_ODxxxx_UNK Planck: P_ODxxxx_UNK Use the previous OD's start/stop time for the start/stop time of the printout. 1) Add info to DTCP report email 2) If next day is not a working day: Call On-Call SOE 3) On-Call SOE to investigate before next DTCP Be aware that unknown packets are treated by the MCS like missing packets; therefore TM consolidation should have fail as well.		
4.2		*Search event packets*		
		Use Playback TMPH with filter: - DS: 2 - VC: 2 - Type: 5 - Subtype: 2,4		
		If special events in previous OD were found, print to file (into directory .../PRINT/SPACON/): Herschel: H_ODxxxx_EVT Planck: P_ODxxxx_EVT Use the previous OD's start/stop time for the start/stop time of the printout. Checking for events was already done by the SPACON when CEL dump was checked; it's not required to be checked here again by the SPACON. On-Call SOE to check on the next working day.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
4.3		*Search for failed TC reports*		
		Use Playback TMPH with filter: - DS: 2 - VC: 2 - Type: 1 - Subtype: 2,8		
		If failed service 1 packets in previous OD were found, print to file (into directory .../PRINT/SPACON/): Herschel: H_ODxxxx_128 Planck: P_ODxxxx_128 Use the previous OD's start/stop time for the start/stop time of the printout. Checking for failed TC reports was already done by the SPACON when CEL dump was checked; it's not required to be checked here again by the SPACON. On-Call SOE to check on the next working day.		
4.4		*Herschel only:* *Search for GYRxSTR Cross Check events*		
		Use Playback TMPH with filter: - SPID: 11614109		
		If events in previous OD were found, print to file (into directory .../PRINT/SPACON/): Herschel: H_ODxxxx_GSC Use the previous OD's start/stop time for the start/stop time of the printout. No further activities are required, this step is just for tracking these events. ACMS SOE to check on the next working day.		
4.5		*Check TCH for non-successful TC executions*		
		Use TCHistory with filter for Verification Status: Select all Verification buttons, except - Assumed - Passed - Pending Set Sorting to: EXECUTION Check only in the time frame of the previous OD.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		If failed TCs in previous OD were found, print to file (into directory .../PRINT/SPACON/): Herschel: H_ODxxxx_TCF Planck: P_ODxxxx_TCF Use the previous OD's start/stop time for the start/stop time of the printout. Checking for failed TCs was already done by the SPACON when CEL dump was checked; it's not required to be checked here again by the SPACON. On-Call SOE to check on the next working day.		
4.6		*Wait until VC-2 OOL Checks are completed*		
		The transfer of VC-2 from the ground station to the MCS is very fast (almost realtime). The OOL checks take much longer (about 1h); therefore the VC-2 TM is buffered inside the MCS (but only for the OOL checks, not for archiving). You have to wait here until the OOL packets are generated.		
		How to know when the VC-2 OOL checks are completed? Telnet to hmca/pmca and start following script: > queryPKTcaches.sh This script shows you in regular intervals the remaining size of the VC-2 buffer. When the buffer is empty, the VC-2 OOL processing is completed. Another option: Telnet to hmca/pmca and start the process monitor top > top Monitor the BehLimCheck process. This process remains >99% while the VC-2 OOL check is running.		
4.7		*Search OOLs*		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		1) Open terminal 2) > cd ~/HPMCS/SESSION/current/PRINT/SPACON/ 3) > print_ool_report.csh StartTime EndTime > Filename Filename convention: Herschel: H_ODxxxx_OOL Planck: P_ODxxxx_OOL Times: Use the previous OD's start/stop time for the start/stop time of the script. Example (Herschel filename): print_ool_report.csh 2010.030.10.00.00 2010.031.10.00.00 > H_OD0222_OOL		
		No need to check these P/B OOLs by the SPACON. On-Call SOE to check on the next working day.		
4.8		*Transfer the printouts*		
		Run following script to transfer all files from .../PRINT/SPACON/ to SDS-A, where it is available to the ANALYSTs for further processing.		
		Open a terminal on the SPACON's client. Run following script: > Copy_spacon_files_to_SDS.csh		
5		*Planck only: TCH Printout*		Next Step: 6
		Execute Procedure: **P_GSP_MCS_TCH** **Transfer of TC-History to PSO and DPCs**		
6		*Herschel only: Pass Report Email*		Next Step: 7
		Write Herschel Pass Report email according to the attached template.		
7		*Weekly Client restarts*		Next Step: END
		Once per week (every Monday) both front row clients for Herschel and Planck (i.e. all 4 clients) must be restarted. This restart involves a complete logout of the clients and the restart of the NCTRS as well.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
7.1		*Stop NCTRS*		
		Stop NCTRS-A and B according to following procedure.		
		Execute Procedure: **C_GSP_MCS_NCTRS** **Herschel/Planck NCTRS Setup**		
7.2		*Stop SCOS Clients and Logout*		
		Stop both SCOS clients and logout according to following procedure.		
		Execute Procedure: **C_GSP_MCS_SCOS** **Herschel/Planck SCOS Client Setup**		
7.3		*Login and Start SCOS Clients*		
		Login and start both SCOS clients according to following procedure.		
		Execute Procedure: **C_GSP_MCS_SCOS** **Herschel/Planck SCOS Client Setup**		
7.4		*Start NCTRS*		
		Start NCTRS-A and B according to following procedure.		
		Execute Procedure: **C_GSP_MCS_NCTRS** **Herschel/Planck NCTRS Setup**		

End of Procedure

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Herschel APIDs

Dec	Hex	TM source	VC (PS)	Consolidation Type	Activities
16	10 h	CDMS Ess etc	2 (1,2)	OFFline	Transfer to MOC during DTCP without consolidation.
512	200 h	ACMS Ess etc	2 (1,2)	OFFline	
1024	400 h	HIFI Pri Ess etc	2 (1,2)	OFFline	**Check transfer during/after DTCP:**
1025	401 h	HIFI Red Ess etc	2 (1,2)	OFFline	- Perform offline transfers to MOC in case of transfer abort
1152	480 h	PACS Pri Ess etc	2 (1,2)	OFFline	- Start offline consolidation asap when transfer to MOC is completed
1153	481 h	PACS Red Ess etc	2 (1,2)	OFFline	
1280	500 h	SPIRE Pri Ess etc	2 (1,2)	OFFline	
1281	501 h	SPIRE Red Ess etc	2 (1,2)	OFFline	
18	12 h	CDMS NEss, Diag	2 (2)	ONline	Transfer to MOC during DTCP with automatic online consolidation.
514	202 h	ACMS NEss, Diag	2 (2)	ONline	
1026	402 h	HIFI Pri NEss, Diag	2 (2)	ONline	**Check transfer and consolidation status during/after DTCP:**
1027	403 h	HIFI Red NEss, Diag	2 (2)	ONline	- Perform offline transfers to MOC in case of transfer abort
1154	482 h	PACS Pri NEss	2 (2)	ONline	- Initiate additional offline consolidation if online consolidation has failed
1155	483 h	PACS Red NEss	2 (2)	ONline	
1282	502 h	SPIRE Pri NEss, Diag	2 (2)	ONline	
1283	503 h	SPIRE Red NEss, Diag	2 (2)	ONline	
1028	404 h	HIFI Pri Sci	3 (3)	ONline	Transfer to MOC during DTCP with automatic online consolidation.
1029	405 h	HIFI Red Sci	3 (3)	ONline	
1030	406 h	HIFI Pri Sci	3 (3)	ONline	**Check transfer and consolidation status during/after DTCP:**
1031	407 h	HIFI Red Sci	3 (3)	ONline	- Perform offline transfers to MOC in case of transfer abort
1158	486 h	PACS Pri Diag	3 (3)	ONline	- Initiate additional offline consolidation if online consolidation has failed
1159	487 h	PACS Red Diag	3 (3)	ONline	
1160	488 h	PACS Pri Sci	3 (3)	ONline	
1161	489 h	PACS Red Sci	3 (3)	ONline	
1162	48A h	PACS Pri Sci	3 (3)	ONline	
1163	48B h	PACS Red Sci	3 (3)	ONline	
1284	504 h	SPIRE Pri Sci	3 (3)	ONline	
1285	505 h	SPIRE Red Sci	3 (3)	ONline	
1286	506 h	SPIRE Pri Sci	3 (3)	ONline	
1287	507 h	SPIRE Red Sci	3 (3)	ONline	
1288	508 h	SPIRE Pri Sci	3 (3)	ONline	
1289	509 h	SPIRE Red Sci	3 (3)	ONline	

Planck APIDs

Dec	Hex	TM source	VC (PS)	Consolidation Type	Activities
16	10 h	CDMS Ess etc	2 (1,2)	OFFline	Transfer to MOC during DTCP without consolidation.
512	200 h	ACMS Ess etc	2 (1,2)	OFFline	
1408	580 h	HFI Pri Ess etc	2 (1,2)	OFFline	**Check transfer during/after DTCP:**
1409	581 h	HFI Red Ess etc	2 (1,2)	OFFline	- Perform offline transfers to MOC in case of transfer abort
1536	600 h	LFI Pri/Red Ess etc	2 (1,2)	OFFline	- Start offline consolidation asap when transfer to MOC is completed
1664	680 h	SCS Pri Ess etc	2 (1,2)	OFFline	
1665	681 h	SCS Red Ess etc	2 (1,2)	OFFline	
18	12 h	CDMS NEss, Diag	2 (2)	ONline	Transfer to MOC during DTCP with automatic online consolidation.
514	202 h	ACMS NEss, Diag	2 (2)	ONline	
1410	582 h	HFI Pri NEss, Diag	2 (2)	ONline	**Check transfer and consolidation status during/after DTCP:**
1411	583 h	HFI Red NEss, Diag	2 (2)	ONline	- Perform offline transfers to MOC in case of transfer abort
1538	602 h	LFI Pri/Red NEss, Diag	2 (2)	ONline	- Initiate additional offline consolidation if online consolidation has failed
1666	682 h	SCS Pri NEss, Diag	2 (2)	ONline	
1667	683 h	SCS Red NEss, Diag	2 (2)	ONline	
1540	604 h	LFI Pri/Red Sci	3 (3)	ONline	Transfer to MOC during DTCP with automatic online consolidation.
1412	584 h	HFI Pri Sci	3 (4)	ONline	
1414	586 h	HFI Pri Sci	3 (4)	ONline	**Check transfer and consolidation status during/after DTCP:**
1413	585 h	HFI Red Sci	3 (4)	ONline	- Perform offline transfers to MOC in case of transfer abort
1415	587 h	HFI Red Sci	3 (4)	ONline	- Initiate additional offline consolidation if online consolidation has failed

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POPA Anomalies Action Sheet

POPA Printouts

Unknown Packets H_ODxxxx_UNK	1) Add info to DTCP report email. 2) On-Call SOE to investigate before next DTCP Be aware that unknown packets are treated by the MCS like missing packets; therefore TM consolidation will fail as well.
Event Packets H_ODxxxx_EVT	Already covered when CEL dump was checked. Not required to be checked again by the SPACON. On-Call SOE to check on the next working day.
Failed TC reports H_ODxxxx_128	
Failed TCs H_ODxxxx_TCF	
OOLs H_ODxxxx_OOL	Not required to be checked by the SPACON. On-Call SOE to check on the next working day.
GYRxSTR Cross Checks H_ODxxxx_GSC	Not required to be checked by the SPACON. ACMS SOE to check on the next working day.

Incomplete TM and Consolidation Problems

Guideline:
- FD expects complete VC-2 TM of previous OD (required to generate AHF)
- SGS expects complete and consolidated VC-2 and VC-3 TM of previous OD

If anything of these cannot be provided the corresponding parties must be informed

Aborted dump (-> less TM than expected)	1) Add to DTCP report email (in case of aborted VC-2 add FD to the distribution list); report time until TM is available and consolidated, e.g. "During today's DTCP-xxxx the VC-3 dump was aborted. The consolidation could only be completed up to time <insert generation time of the last received VC-3 packet>." 2) Inform the next SPACON to recover in next DTCP according to PREP/DTCP procedure

Failed consolidation
(-> TM not releasable)
	1) Add to DTCP report email
	2) If failed consolidation is older than 2 days (or only on B):
	   a. On-Call SOE to investigate on next working day
	3) If failed consolidation on LTA-A lies within the last 2 days:
	   a. On-Call SOE to investigate before next DTCP

Lost TM (on all TMTCS), e.g. due to ground station problem (-> Gaps in TM, failed consolidation, TM not releasable)	1) Add to DTCP report email (in case of incomplete VC-2 add FD to the distribution list) 2) On-Call SOE to contact On-Call FD (only in case of incomplete VC-2) 3) On-Call SOE and SOM to decide (case-by-case) to perform a re-dump of the lost TM in the next DTCP

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Herschel Pass Report Email

Header:

TO: hscops@sciops.esa.int, hifi-operations@sron.nl, pacs_ops@sciops.esa.int, spire@stfc.ac.uk

CC: H_FCT, HP_SWS

Subject: Herschel DTCP-xxxx Report

Content:

DTCP Activities
<Put here general information about the pass, e.g.>
- Today's pass was nominal. No problems occurred
- Not enough time to complete the VC-3 dump, therefore it was aborted
- DTCP was cancelled due to ground station problems

Mission Timeline
<Put here everything related to MTL, the uplink and OBQD mismatches, e.g.>
- MTL (xxxx+1) part A and B were uplinked
- OBQD showed a mismatch, but in an expected location

R/T OOLs during the DTCP
<Put here issues from R/T OOL Display, e.g.>
- HIFI TM parameter XYZ showed OOL from time to time
- None

Critical Events
<Put here issues from CEL dump and R/T TM, ignoring SPID 11104109, e.g.>
- None

Unknown Packets
<Put here issues from TMPH when filtered for POPA printout, and from R/T TM, e.g.>
- None
- A few unknown packets were received. The On-Call SOE was informed and will check tomorrow morning.

Failed TCs
<Put here issues from CEL dump and R/T TM, e.g. >
- None (only the expected ACMS TCs failed)
- HIFI memory check TC failed at time

TM Completeness and Consolidation
<Put here infos about dump, from TM transfer and consolidation, e.g.>
- TM dumps and consolidation of OD (xxxx-1) is completed
- Due to the aborted dump, the consolidation could only be completed up to time <insert generation time of the last received VC-3 packet>
- Following windows failed consolidation: … The On-Call SOE was informed and will check tomorrow morning.

Other Issues
<Put here everything else of note, e.g.>
- None