

HERSCHEL / PLANCK

CDMU DFE TM/TC Services

**Product Code:
3A2200**

Rédigé par/ <i>Written by</i>	Responsabilité-Service-Société <i>Responsibility-Office -Company</i>	Date	Signature
L. FADE	Planck Platform/Electrical Tests Responsible	28/10/03	
<i>Vérifié par/Verified by</i>			
J. P. HAYET	Planck AIT System Responsible	13/11/03	
<i>Approbation/Approved</i>			
J. Y. CHARNIER	Planck AIT Responsible	14/11/03	
D. MONTET	H/P AIV Responsible		
C. MASSE	Product Assurance Manager		
J. J. JUILLET	Project Manager		

Entité Emettrice : Alcatel Space - Cannes
(détentrice de l'original) :

		DISTRIBUTION RECORD	
DOCUMENT NUMBER : H-P-1-ASP-TN-0591		Issue DRAFT/ Rev. : 1.0 Date: 12/11/03	
EXTERNAL DISTRIBUTION		INTERNAL DISTRIBUTION	
ESA	X	HP team	X
ASTRIUM	X		
ALENIA	X		
CONTRAVES			
TICRA			
TECNOLOGICA			
HFI	X		
LFI	X		
HIFI	X		
PACS	X		
SPIRE	X		
		Clt Documentation	Orig.

ENREGISTREMENT DES EVOLUTIONS / *CHANGE RECORDS*

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS § : <i>CHANGE RECORD</i>	REDACTEUR <i>AUTHOR</i>
1	24/09/2003	Creation	L. FADE

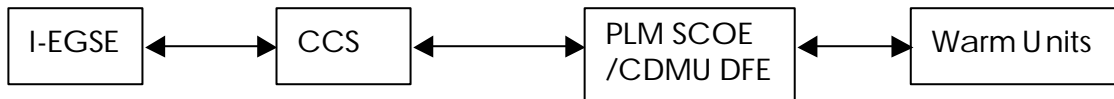
TABLE OF CONTENTS

1. INTRODUCTION	5
2. APPLICABLE AND REFERENCE DOCUMENTS	5
2.1 Applicable Documents	5
2.2 Reference Documents	5
3. TM/TC SERVICES AVAILABLE	6
3.1 TM/TC Services Table	6
3.2 TM/TC Services covered by the CDMU DFE	7

1. INTRODUCTION

This document describes the TM/TC Services available for the warm units during the H/P PLM Tests.

The Test Set up is the following:



As the CDMU DFE does not completely simulate the CDMU Behaviour, the goal of this document is to summarize what TM/TC Services will be available during the tests.

2. APPLICABLE AND REFERENCE DOCUMENTS

2.1 Applicable Documents

[AD1] H-P-1-ASPI-SP-0045 EGSE General Requirement Specification

[AD2] H-P-1-ASPI-IS-0121 EGSE INTERFACE Requirements Specification

2.2 Reference Documents

[RD1] SCI-PT-ICD-07527 Packet Structure Interface Control Document

[RD2] H-P-ASP-MN-2708 Questions/Open Points for CDMU DFE

[RD3] H-P-SAT-DD-1002 CDMU DFE System Design Description

[RD3] H-P-MI-AI-225 SSBV Progress Meeting 2

3. TM/TC SERVICES AVAILABLE

3.1 TM/TC Services Table

Here are the available Services available in the CDMU DFE:

Service Number	Description	Available for TC	Available for TM	Covered Sub Services or CCS
1	TC verification	N/A	OK	1-1, 1-2
2	Device Command Distribution Service	Not Supplied	N/A	
3	Housekeeping and Diagnostic Data Reporting	Not Supplied *	Not Supplied *	
4	Not Used	N/A	N/A	
5	Event Reporting	Not Supplied	Not Supplied	CCS Receives TM packet
6	Memory Management	Not Supplied	OK (like 1)	1-1, 1-2 CCS Receives TM packets and routes them to I-EGSE
7	Not Used	N/A	N/A	
8	Function Management	Not Supplied	Not Supplied	
9	Time Management Service	OK	Not Supplied	9-3, 9-4, 9-5
10	Not Used	N/A	N/A	
11	On-board Operations Scheduling Service	Not Supplied	Not Supplied	Covered by CCS TCL Test Sequences
12	On-board Monitoring Service	Not Supplied	Not Supplied	
13	Not Used	N/A	N/A	
14	Packet Transmission Control Service	Not Supplied	Not Supplied	
15	On-board Storage and Retrieval Service	Not Supplied	Not Supplied	
16	On-board Traffic Management	Not Supplied	Not Supplied	
17	Test Service	OK	OK	(17-1, 17-2) default
18	On-board Control Procedure Service	Not Supplied	Not Supplied	Covered by CCS TCL Test Sequences
19	Event/Action Service	Not Supplied	Not Supplied	Covered by CCS TCL Test Sequences
20	Information Distribution CDMS	Not Supplied	Not Supplied	CCS Receives TM packet and routes it to I-EGSE
21	Science Data Transfer Service	N/A	Not Supplied	CCS Receives TM packet and routes it to I-EGSE
22	Not Used	N/A	N/A	

* Note: Service 3 can be sent to CDMU DFE for Instruments Packet update but not for CDMU DFE's packet update.

NB: "Not Supplied" means: not supplied by CDMU DFE but supplied by CCS (CDMU DFE acts like a mail box transferring messages)

3.2 TM/TC Services covered by the CDMU DFE

- Any TM message received by CDMU DFE (i.e. any TM service) is put into a PIPE message (PIPE trailer + PIPE Body Message). Then it is sent to CCS and to Instruments EGSE Connected onto the CCS LAN.
- The only TC service explicitly simulated by CDMU DFE are services:
 - 1,
 - 9 (supplied services are 9.3, 9.4, 9.5 ; Services 9.6, 9.7 and 9.9 are NOT supplied),
 - 17.
- Other services are NOT implemented in the CDMU DFE Software.
- TC Services that are not available on CDMU DFE might be covered by CCS Functions. (for instance time tagged TC are generated via a CCS dedicated test sequence)

REFERENCE : H-P-1-ASP-TN-0591

DATE : 12/11/03

ISSUE : 1

Page : 8/8

END OF DOCUMENT