ALCATEL SPACE

HERSCHEL / PLANCK

HERSCHEL STM FAMILY TREE

Product Code : 100000

Written by	*Responsibility-Office - Company*	Date	Signature
	ARCHITECTURE TEAM		
Supervised/Verified by			
Ph. CLAVEL	MECHANICAL ARCHITECTURE	28/06/02	
Approved			
D.MONTET	SYSTEM AIV MANAGER	28.06.02	
P. RIDEAU	SYSTEM ENGINEERING MANAGER	28/06/02	
C. MASSE	PA MANAGER	28/06/02	
J.J. JUILLET	PROJECT MANAGER	28/06/02	

DATA MANAGEMENT:

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

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ENREGISTREMENT DES EVOLUTIONS / *CHANGE RECORDS*

ISSUE	DATE	§ : DESCRIPTION DES EVOLUTIONS *§ : CHANGE RECORD*	REDACTEUR *AUTHOR*
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TABLE OF CONTENTS

1. PURPOSE

This document provides the family tree for Herschel STM S/C. The purpose of the family tree is to describe the definition arborescence for Herschel S/C covering pre- integration and integration activities at System level.

This arborescence details the main steps in terms of hardware implementation, from S/S or modules hardware delivery up to completion of S/C testing.

This arborescence is based on the ongoing STM definition presented at System PDR.

2. APPLICABLE AND REFERENCE DOCUMENTS

2.1 Applicable document List

AD01 Herschel/Planck System Requirements Specification (SRS)
SCI-PT-RS-05991, Issue 3.0

2.2 Reference document List

RD01 Herschel Satellite Configuration and Interface drawings files
H-P-2-ASPI-PL-0191 Issue 01

RD02 Planck Satellite Configuration and Interface drawings files for information
H-P-3-ASPI-PL-0192 Issue 01

RD03 Hardware Matrix
HP-1-ASPI-LI-0058 Issue 02

3. ABBREVIATIONS, LABELLING AND CODING

3.1 Abbreviations

Launcher

ARE ARIANESPACE

Industry

ALS ALENIA
ASED ASTRIUM Deutchland
ASPI Alcatel Space Industries

Modules

SVM SerVice Module
PLM Pay-Load Module

Instruments

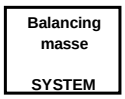
HIFI HIFI consortium
PACS PACS consortium
SPIRE SPIRE consortium

3.2 Labelling

SVM: supplied by ALS
PLM: supplied by ASED
SYSTEM: supplied / integrated by ASPI

3.3 Coding

System assembly element



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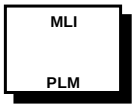


Multiple part (for example)

Documentation (for example)

4. FAMILITY TREE BREAKDOWN

4.1 Family Tree organisation

The S/C Family Tree is split in 3 levels as defined as follows:
- first arborescence level / S/C Assy
- secondary arborescence level / Sub-Assy
- arborescence ending level / Delivery status level

The details of the S/C arborescence levels are given in the following g sections.

4.2 First arborescence level / S/C Assy

The first arborescence level provides a full picture of AIT activities starting the complete S/C integration from sub-assemblies provided by the Secondary arborescence level, or from ending items in provenance from S/S H/W delivery.

4.3 Secondary arborescence level / Sub-Assy

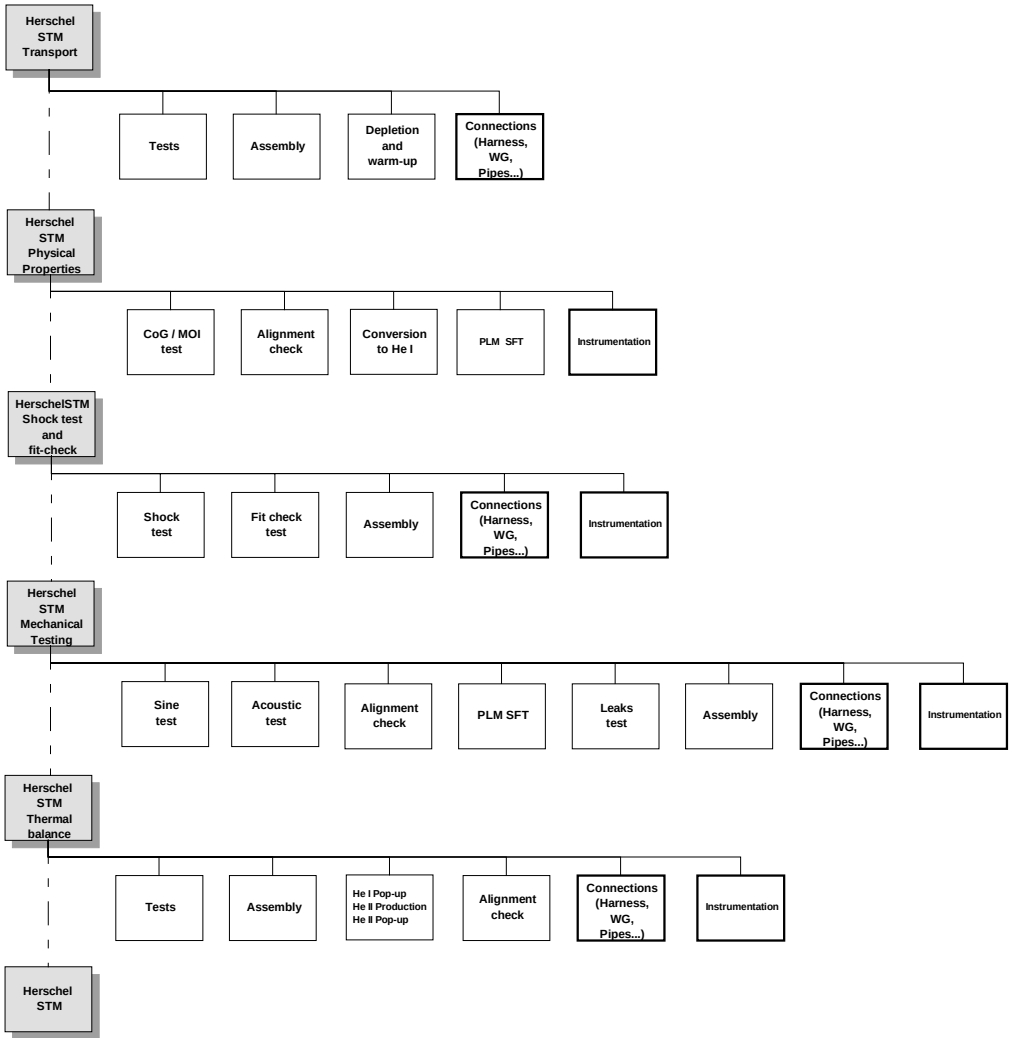
The Secondary arborescence level depicts AIT activities at sub-assemblies level, that could be performed off-line or in advance of the main S/C activities as evoked above. The sub-assemblies are performed from ending items in provenance from S/S H/W delivery.

4.4 Arborescence ending level / Delivery status

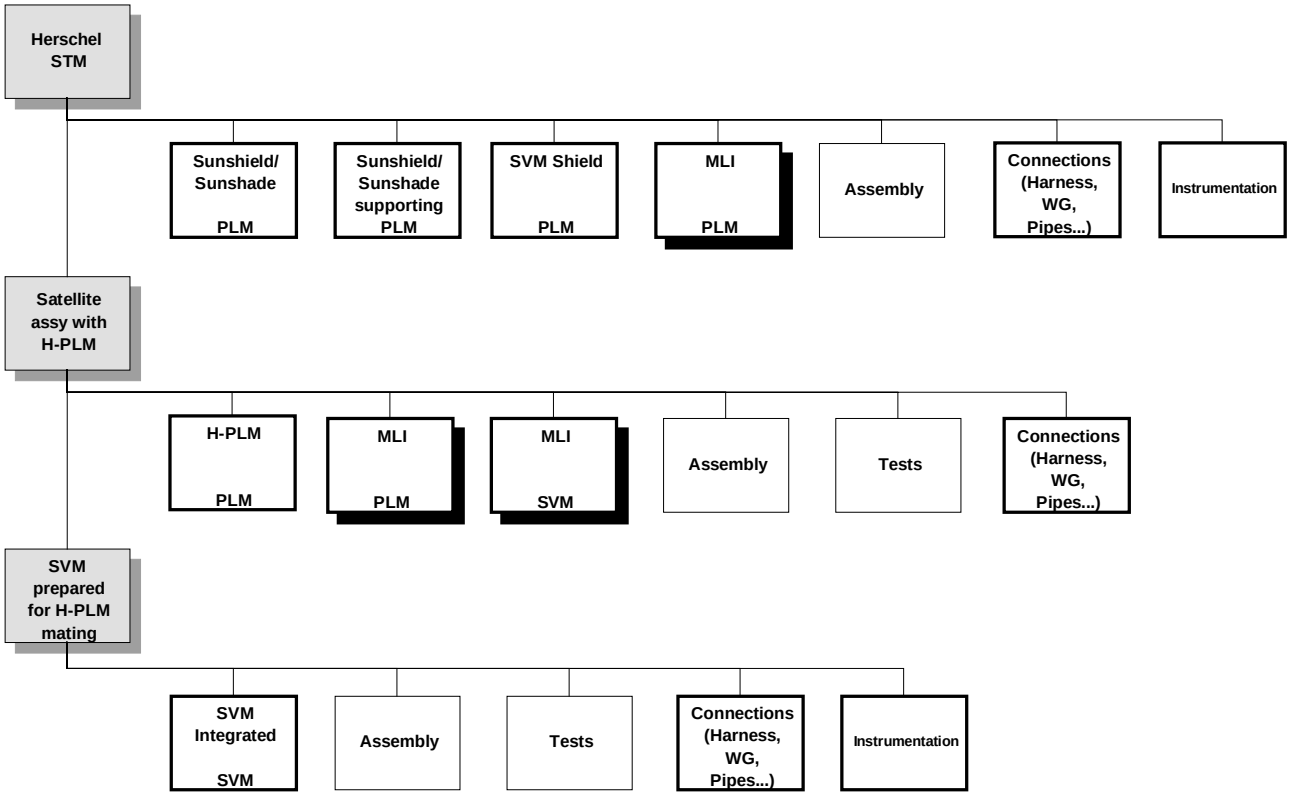
The arborescence ending level defines the delivery status for each S/S H/W called in the S/C construction. The delivery status identifies the number and content of H/W delivery packs, which are necessary to be used at S/C Assy or Sub-Assy levels.

APPENDIX 1 - S/C ASSY DESCRIPTION

Appendix 1 - S/C Assy Description - sheet 1/2



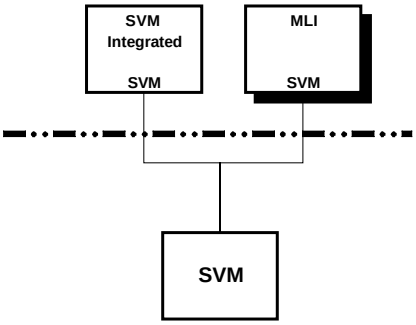
APPENDIX 1 - S/C ASSY DESCRIPTION - SHEET 2/2

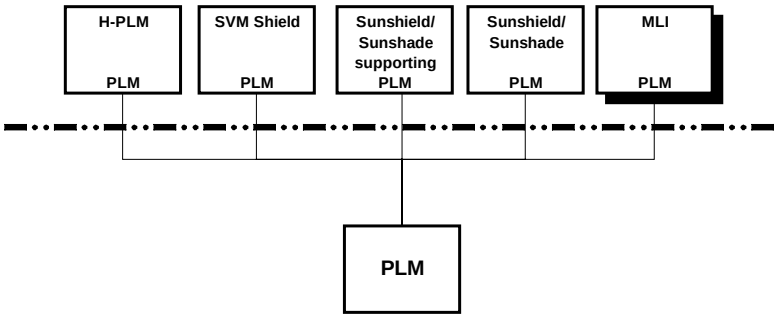


APPENDIX 2 - SUB-ASSY DESCRIPTION

INCLUDED IN DELIVERY STATUS LEVEL

APPENDIX 3 - DELIVERY STATUS DESCRIPTION





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