



# Differential Delay Lines



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## Astrometric Survey for Extra-Solar Planets with PRIMA

### CIDL

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# Chapter 1: Introduction

## 1.1 Scope of the Document

This document gives the lists of all documents subject to the configuration control of the project as requested in the Statement of Work AD-1.

## 1.2 Documents

### 1.2.1 Applicable Documents

AD-1	Statement Of Work for PRIMA DDL System	VLT-SOW-ESO-15720-2304	2	12/02/2004
AD-2	Statement of Work for PAOS	VLT-SOW-ESO-15750-3298	2	23/06/2004

### 1.2.2 Reference Documents

RD-1				
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### 1.3 Acronyms

AD	Applicable Document
AOS	Astrometry Operation and Software
CIDL	Configurated Item Data List
DDL	Differential Delay Line
EPF(L)	Ecole Polytechnique Fédérale (Lausanne)
ESO	European Southern Observatory (EPFL)
HW	HardWare
IMT	Institut de MircoTechnique (Neuchâtel)
ISR	Institut Systèmes Robotiques
IST	Instrument Science Team
LA	Laboratoire d'Automatique (EPFL)
MAIV	Manufacturing, Assembly, Integration, Verification
MPIA	Max-Planck-Institut für Astronomie (Heidelberg, D)
NOVA	Netherlands Research School for Astronomy
OG	Observatoire de Genève
PI	Principal Investigator
PM	Project Manager
PRIMA	Phase Referenced Imaging and Microarcsecond Astrometry
PS	Project Scientists
RD	Reference Document
SE	System Engineer
SSE	Software System Engineer
SOW	Statement Of Work
SW	Software
TBC	To be Confirmed
TBD	To Be Defined
UL	University of Leiden
VLT(I)	Very Large Telescope (Interferometer)
WBS	Work-Breakdown Structure
WP	Work Package
WPM	Work-Package Manager
WPD	Work-Package Description



## Chapter 2: Review Documentation

### 2.1 Proposal Documentation

Document No.	Issue	Date	WP No.	Author	Title
Planets-PRI-SCI-0001	1	26/09/2003	0000	Launhardt et al.	Astrometric Survey for Extra-Solar Planets with PRIMA Scientific Proposal
Planets-PRI-TEC-0002	1	26/09/2003	0000	Venema et al.	Astrometric Survey for Extra-Solar Planets with PRIMA Technical Proposal
Planets-PRI-AOS-0003	1	26/09/2003	0000	Bakker et al.	Astrometric Survey for Extra-Solar Planets with PRIMA PRIMA Astrometric Operations and Software Proposal
Planets-PRI-MAG-0001	1	26/09/2003	0000	Pepe	Astrometric Survey for Extra-Solar Planets with PRIMA Management Plan Proposal
Planets-PRI-PRO-0001	1	26/09/2003	0000	Pepe et al.	Astrometric Survey for Extra-Solar Planets with PRIMA Project Plan Proposal

### 2.2 DDL Kick-Off Meeting

Document No.	Issue	Date	WP No.	Author	Title
	Draft		1000	1000	Agreement Concerning the Design, Development and Delivery of Four Differential Delay Lines (DDL) for PRIMA
VLT-SOW-ESO-15720-2304	2	12/02/2004	1000	1000	Statement of Work for PRIMA Differential Delay Lines
VLT-SPE-ESO-15720-2209	2	12/02/2004	2000	2000	Prima Differential Delay Lines (DDL) Performance and Technical Requirement Specifications
VLT-PLA-DDL-15720-0001	2	06/02/2004	1000	1000	Management Plan
VLT-PLA-DDL-15720-0002	2	06/02/2004	1000	Pepe et al.	Project Plan

### 2.3 DDL-PDR Documentation

Document No.	Issue	Date	WP No.	Authors	Title
VLT-PLA-DDL-15720-0002	4		1000	Pepe	Project Plan
VLT-PLA-DDL-15720-0003	1		1000	Pepe	Documentation Plan
VLT-PLA-DDL-15720-0004	1		1000	Pepe	Product Assurance Plan
VLT-LIS-DDL-15720-0005	1		1000	Pepe	Configurated Item Data List
VLT-TRE-DDL-15729-0001	1		2000	Venema	System Design, Analysis and Performance Report
VLT-ICD-DDL-15729-0002	1		2000	Venema	ICD between the DDLs and other PRIMA Sub-systems
VLT-PLA-DDL-15729-0003	1		2000	Venema	MAIV Plan
VLT-TRE-DDL-15729-0004	Draft		2000	Venema	Hazard List and Analysis
VLT-ICD-DDL-15729-0005	1		2000	Venema	DDL-Internal ICD
VLT-TRE-DDL-15721-0001	1		11000	Fleury	Vacuum System Design, Analysis and Performance Report
VLT-TRE-DDL-15722-0001	1		12000	Launhardt	Opto-Mechanics Design, Analysis and Performance Report
VLT-TRE-DDL-15723-0001	1		13000	Pragt	Translation Mechanics Design, Analysis and Performance Report
VLT-TRE-DDL-15724-0001	1		14000	Wüthrich	Actuators Design, Analysis and Performance Report
VLT-TRE-DDL-15725-0001	1		15000	Müllhaupt	Translation Control Design, Analysis and Performance Report
VLT-TRE-DDL-15726-0001	1		16000	Scherler	Internal Metrology Design, Analysis and Performance Report
VLT-TRE-DDL-15727-0001	1		17000	Maire	Instrument Control Hardware Design, Analysis and Performance Report
VLT-TRE-DDL-15728-0001	1		18000	Sosnowska	Instrument Control Software Design, Analysis and Performance Report

## 2.4 AOS-PDR Documentation

Document No.	Issue	Date	WP No.	Authors	Title
VLT-PLA-DDL-15720-0002	6		1000	Pepe	Project Plan
VLT-PLA-DDL-15720-0003	2		1000	Pepe	Documentation Plan
VLT-LIS-DDL-15720-0005	2		1000	Pepe	Configurated Item Data List
VLT-PLA-AOS-15750-0002	1		4000	Bakker	SW Configuration Management and Product Assurance Plan
VLT-ICD-AOS-15750-0003	1		4000	Jaffe	DICD for the PRIMA Astrometry Mode
VLT-SPE-AOS-15751-0001	1		19000	Ségransan	Requirements towards Observation-Preparation Tools and Functional Description
VLT-ICD-AOS-15751-0002	1		19000	Ségransan	ICD between Observation-Preparation Tools and VLT-SW
VLT-SPE-AOS-15752-0001	1		20000	Bakker	Requirements towards Data-Reduction Library and Functional Description
VLT-SPE-AOS-15752-0002	1		20000	de Jong	Requirements towards Simulator for testing PAOS-DRS and Functional Description
VLT-ICD-AOS-15752-0003	1		20000	Jaffe	ICD between Data-Reduction Library and VLT SW
VLT-ICD-AOS-15752-0004	1		20000	Jaffe	ICD between Data-Reduction Library and VLT archive
VLT-TRE-AOS-15752-0010	Draft		20000	de Jong	Data-Reduction Library, Design Description
VLT-TRE-AOS-15752-0011	Draft		20000	de Jong	Simulator for testing PAOS-DRS, Design Description
VLT-TRE-AOS-15753-0001	1		21000	Tubbs	PRIMA Astrometry Error Budget
VLT-TRE-AOS-15753-0002	1		21000	Mathar	Prima Astrometric Observations, Dispersion Correction
VLT-TRE-AOS-15753-0003	1		21000	Murakawa	Prima Astrometric Observations, Polarization Effects
VLT-TRE-AOS-15753-0004	1		21000	Quirrenbach	Top-down versus bottom-up approach in the error budget
VLT-TRE-AOS-15754-0001	1		21000	Frink	PRIMA Astrometry Calibration and Operation Strategy
VLT-PLA-AOS-15759-0001	Draft		3000	Launhardt	PRIMA Astrometry Calibration and Operation Plan
VLT-PLA-AOS-15759-0002	Draft		3000	Launhardt	PRIMA Astrometry Commissioning Plan
VLT-PLA-AOS-15759-0003	Draft		3000	Setiawan	PRIMA Astrometry Object and Reference Selection