						REF.: SD-MI-AI-1069			
ThalesAlenia A Theses / Firmeccenics Corrowry Space			NGGM Assessment Study						
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MINUTES OF MEETING				ETING		PLACE : TA			
PURPOSE : NGG	àМ					CLASSIFIC	CATION : E	DC	
NGGM Assessment Study - Requirements Review Meeting									
ATTENDEES	;	F	IRM	SIGNATURE	ATTE	INDEES	FIRM	1 SIGNATURE	
Miguel AGUIRR	١E	ES	STEC		Matthias RENARD		Deimo Space	e	
Luca MASSOT	ГІ	ES	STEC		Stefania CORNARA		Deimo Space	os e	
Roger HAAGMA	NS	ESTEC			A. A	nselmi	TAS-	1	
Pieter VISSER	{	Delft Uni.			S. (Cesare	TAS-	1	
Tilo REUBELT	-	Stuttgard Uni.			G.	Sechi	TAS-	1	
Thomas GRUBE	R	Munich Uni.			S. I	Mottini	TAS-	1	
Michael MURBÖ	СК	Munich Uni.			М.	Parish	TAS-	1	
Tonie Van DAM		Luxembourg Uni.			F. (Cossu	TAS-	1	
Bruno CHRISTOR	PHE	Onera							
WRITTEN BY :		A. Anselmi							
CONCLUSION : The requirements review was held successfully and a near-term work plan was agreed.									
DISTRIBUTION : ATTENDEES	DISTRIBUTION : FOR FURTHER ACTION : M. Brescello, A. Cattaneo ATTENDEES M. Brescello, A. Cattaneo								
FOR INFORMATION :									
APPROVED BY									
NAME		A. Ar	nselmi						
SIGNATURE	Å	Hberta	Ansch						

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MINUTE					
TAS-I /ESA (A. Gabriele) to ag	gree on the definition of "LISA" and "LIS	SA-like" missions.	#2 TASI		
Comment by PV: The so-cal spherical harmonic degree = I revisited: see Attachment 5.					
TAS-I to establish a range of the same" overall performance	altitudes defined by upper and lower l e.	imits that produce "almost	#3 TASI		
Quick-look tool and formation	ons (Uni. Stuttgart, GIS)				
Capabilities and limitations of	quick-look tool for trade-offs are illustra	ated.			
The secular effects on Cartwo argument of perigee) increa detrimental for the time varyin compensating such effects by					
More generally, the performan outage, (b) drag-free compen different altitudes (selected to epoch in the solar cycle).					
Mass Variation Models (Uni.	Munich, IAPG)				
Sources of unrealistic trends trends (or a large part thereof)					
Near term work plan					
Uni. Lux to provide technical r		#4 Ulux			
TAS-I to provide technical not	#5 TAS-I				
The first task in Phase 2 of architecture, progressing from cartwheel, pendulum,). The architecture to (partially) reme better orbit control, (c) better a directions, etc. Later on, multiple					
The recommended range of t will circulate a detailed, propo					
The next progress meeting w of Jan 27 th , and ending in the					

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Attach	ments					
1.	ULux Presentation ch	arts				
2.	TAS-I presentation ch	arts				
3.	GIS Presentation chai	rts				
4. 5	A COS DV "Deventation charts					
5.	observation technique		resolution on space-borne			
Table ⁻	1 – Variation of missio	on architecture parameters				
1.	Circular orbit altitude:	300, 350, 400 km				
2.	2. Inclination: 97 deg (SSO), 89 deg TBC, 60 deg TBC [a]					
3.	3. Repeat cycle: ESA/science team to advise					
4.	4. Mission duration: 6 years [b]					
5.	5. Inter-satellite distance: 1, 10, 100 km					
6.	6. Gradiometer configuration: 1-axis in-track and/or 1 axis radial					
7.	7. SST relative measurement accuracy $\delta L/L = 5e-13 \text{ m/m/Hz}^{-1/2}$, 5e-12 m/m/Hz $^{-1/2}$					
8.	3. Non-grav. acceleration measurement accuracy: 0.1, 1×10^{-10} m/s ² /Hz ^{-1/2} (see TAS-I					
a	presentation, page 66) Architecture entions: 1 pair in-line, cartwheel, pendulum, LISA [a]					
5.	Architecture options.	r pair in-inte, caitwheel, pendulum, Elc	נסן אנ			
Notes:	:					
[a] ESA/science team to advise on range of variation around 90 deg and around 60 deg[b] the simulation will encompass 1 month (TBC by science team)[c] the first objective is to address the in-line pair architecture by PM1 (end Jan. 010)						

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ACTIONS					DATE
Origin	N°	Status	Description	Actionee	Due
SD-MI-AI-1069	1	Open	TvD to distribute address of Ftp site to be used to exchange documents, presentations etc	U. Lux	23-11-09
SD-MI-AI-1069	2	Open	TAS-I /ESA (A. Gabriele) to agree on the definition of "LISA" and "LISA-like" missions	TAS-I	4-12-09
SD-MI-AI-1069	3	Open	TAS-I to establish a candidate range of altitudes defined by upper and lower limits that produce "almost the same" overall performance.	TAS-I	4-12-09
SD-MI-AI-1069	4	Open	Uni. Lux to provide technical note, output of WP 1100.	U. Lux	4-12-09
SD-MI-AI-1069	5	Open	TAS-I to provide technical note output, of WP 1200.	TAS-I	4-12-09