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ANSA Phase III

ANSA MC 0793: progress report slides

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Abstract

This document contains the slides used for the report of progress to the ANSA Phase III Management Committee. It covers the period 1/4/93 to 31/5/93 and includes year to date figures.

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Draft

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Phase III Management Progress Report

April & May 1993

Rob van der Linden

- **Finance**
- **Effort and Staffing**
- **Progress**
- **Planned work**
- **Risks and Issues**



Finance

Spend (Sterling)	previous period (3/93)	this period (4/93 - 5/93)	YTD (3/93 - 5/93)
Target income (flat: 94 k/month)	94000	188000	282000
Actual income *	94000	199461	293461
Actual cost	94778	139460	234238
under/over spend	(778)	60001	59223
% under/over spend	1	- 32	- 21

- *** includes a one-off exchange rate gain of 11461**
- **capital expenditure: 11586 spent
27000 committed**



Effort (hours)

Effort	previous period (3/93)			this period (4/93 - 5/93)			YTD (3/93 - 5/93)		
	APM	Sec's	Total	APM	Sec's	Total	APM	Sec's	Total
Target:	1100	825	1925	2200	1787	3987	3300	2612	5912
Actual:	1030	797	1827	2354	1213	3567	3384	2010	5394
Delta:	(70)	(28)	(98)	154	(574)	(420)	84	(602)	(518)



Effort (person months)

Reporting Group	Previous period (3/93)	This period (4/93 - 5/93)	YTD	Plan	Delta
DEP	4.6	8.0	12.6	12.5	0.1
PERF	3.1	6.3	9.4	10.0	- 0.6
FED	1.3	4.2	5.5	8.5	- 3.0
AT	0.7	1.8	2.5	3.0	- 0.5
STDS	1.2	2.0	3.2	1.5	1.7
CA	1.1	1.2	2.3	3.0	- 0.7
PD	1.3	2.4	3.7	4.5	- 0.8
Totals	13.3	25.9	39.2	43	- 3.8



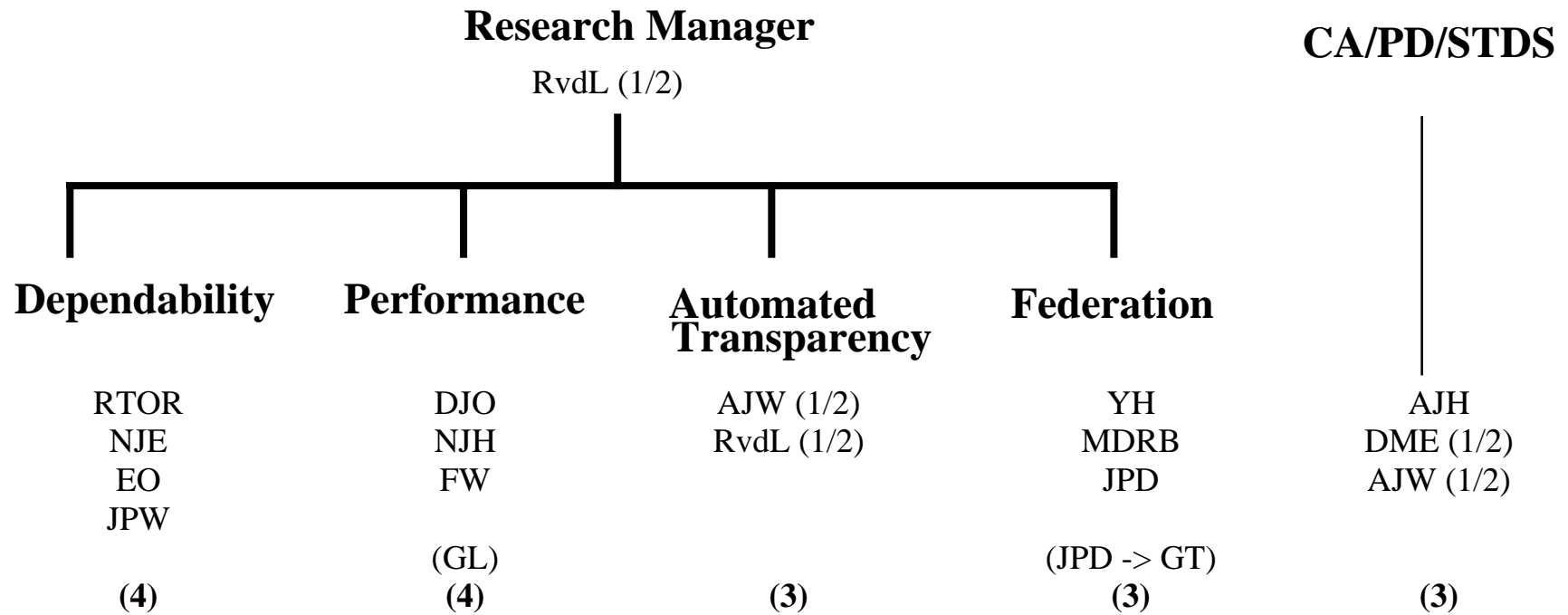
Effort - in terms of team members

TARGETS	M	A	M	J	J	A	S	O	N	D	J	F
APM	8	8	8	8	8	8	8	8	8	8	-	-
Sec's	6	6	7	7	9	9	9	9	9	9	-	-
Total	14	14	15	15	17	17	17	17	17	17	-	-

ACTUALS	M	A	M	J	J	A	S	O	N	D	J	F
APM	7	7.5	9.5	(9.5)	(9.5)	(9.5)	(9.5)					
Sec's	5	5	4	(4)	(4)	(4)	(6)					
Total	12	12.5	13.5	(13.5)	(13.5)	(13.5)	(15.5)					



Staffing





Progress: planned delivery dates

Group	Result	Plan	Last rev.	Revised
Dependability	D0001	12/93	-	-
	D0002	11/93	-	-
	D0003	5/94	-	-
Performance	P0001	10/93	-	11/93
	P0002	11/93	-	12/93
	P0003	6/94	-	-
Automated Transparency	A0001	8/93	10/93	11/93
Federation	F0001	12/93	-	-
	F0002	7/93	12/93	2/94



Progress: Dependability Group

- **Work done / in progress:**
 - Plan developed with sponsors
 - Draft dependability model released to sponsors and presented to HP Bristol & US and TINA-C
 - Attendance of FTCS 93 Toulouse and ICDCS13 Pittsburgh Pennsylvania
 - Investigation of MIA and X/OPEN transaction processing models
 - Investigation of ACTA & ongoing cooperative work with University of Massachusetts
- **Work planned:**
 - engineering model for dependability
 - programming model for dependability
 - extended transaction processing model and infrastructure
 - management model for dependability
 - tool support for dependability



Progress: Performance Group

- **Work done / in progress:**
 - Draft manifesto paper sent to review team members
 - Review of Real Time and performance literature, concentrating on QoS, multi-media, and scheduling for hard real time systems
 - Review of Guangxing Lee thesis (prepC-RT, ANSAware-RT)
 - Interactions with John Stankovic (University of Massachusetts)
 - Investigation of C++, ORBIX, prepC and DPL, in preparation of prepC++ design
- **Work planned:**
 - Complete manifesto
 - Port prepC-RT and ANSAware-RT to OSF/1 RT for evaluation
 - Sponsor interaction (BNR, CNET, GPT)



Progress: Federation Group and Automated Transparency Group

- **Work done / in progress:**
 - Federation topic plan completed and sent to sponsors
 - Started definition of a model for federation
 - Investigation of IDL and ADT concepts in the context of interworking (Aw, DCE, CORBA, DPL)
 - Investigation of programming support tools in different application areas
- **Work planned:**
 - Complete and agree AT topic plan
 - Early prototype of CORBA interworking
 - Investigate multiple interface type systems in federation (leading to a view on type safe binding in CORBA)
 - Investigate automation and safety in programming distributed applications



Progress: RM-ODP

- **360 comments, 75 major, which were all resolved**
- **Next editing meeting: February 1994 - progress to DIS**
 - **November 1993 meeting to progress Part 1 & Trader**
- **Viewpoints aligned with projections**
- **Announcements removed**
- **Engineering Model more general**
- **Functions and transparencies separated**
- **OMG liaison agreed and concept alignment under way**



Progress: Other items

- **Work done / in progress:**
 - **OMG: C++ language binding evaluation
coordination of ORB 2 architecture document**
 - **ISO: preparation for Yokohama ODP meetings - separate report**
 - **Document procedures and support completed**
 - **Software library reorganisation completed**
 - **FTP server for access to documents by sponsors**
 - **OSF/1 R/T procurement and installation**
 - **ECRC liaison, GEC Marconi project team visits & reviews**
 - **Paper presented: IFIP / IEEE 3rd International Conference on Network Management**
 - **IONA ORBIX evaluation**
- **Work planned:**
 - **Identify one or two application scenarios**



Risks and Issues

- **Balance [APM staff: Secondees] now [2.3 : 1]* instead of [1 : 1] as planned**
- **Secondee situation:**
 - **Call for secondees went unanswered**
 - **Expect Jane Cameron and Gomer Thomas (Bellcore) end August (instead of July)**
 - **2 - 3 secondees short from May: looks structural**
- **APM staff situation:**
 - **Extend contract Francis Wai**
 - **Guangxing Lee starts during July (subject to home office permission)**
 - **Recruitment consumes time**
- **Combine Federation and Automated Transparency effort in one group?**



Trends in programming automation

- **Difficult or tedious programming tasks are automated**
 - Database application code generators
 - Visual Basic
 - GUI design and build tools
 - Libraries of building blocks are common
- **Re-use and object orientation**
 - Object oriented languages don't sell without a (large) library
 - Lisp, Smalltalk, Objective C, C++ are becoming desirable now libraries are there
- **Distributed applications are hard to program**
 - Automation is becoming available
 - Distributed Smalltalk from HP
 - Forte application development tools
 - SNAP from Template Software
 - DOME from Object Oriented Technologies



Relation to ANSA

- **ANSA provides excellent engineering including unique support for**
 - Federated naming
 - Migration of objects and services
 - Replication (groups)
 - Advanced design for atomicity transformation
- **End users don't care about engineering**
 - Cannot assess significance of engineering riches
 - Want to cut lead time (to market or operation) for their software
 - Want to offer flexible and scalable software
- **Deliver ANSA as a development tool with a library of re-useable items**
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