



**Poseidon House
Castle Park
Cambridge CB3 0RD
United Kingdom**

TELEPHONE:
INTERNATIONAL:
FAX:
E-MAIL:

**Cambridge (0223) 323010
+44 223 323010
+44 223 359779
apm@ansa.co.uk**

ANSA Phase III

ANSA MC 0494: progress report slides

Rob van der Linden

Abstract

This document holds the slides for the progress report to the Management Committee, on 26 April 1994. It covers the first year of the project: March 1993 to February 1994. It subsumes the fourth quarter report.

APM.1197.01

Approved

29 April 1994

Project Management (confidential to ANSA consortium for 2 years)

Distribution:

Supersedes:

Superseded by:



Phase III Year 1 Progress Report

March 1993 - February 1994

to the ANSA Management Committee April 1994

Rob van der Linden

- **Finance**
- **Effort and Staffing**
- **Progress (year 1) and planned work (year 2)**
- **Risks and Issues**



Finance

Spend (Sterling)	previous period (3/93 - 11/93)	this period (11/93 - 2/94)	total Year 1 (3/93 - 2/94)
Target income	846,000	290,000	1,136,000
Actual income	846,000	276,000	1,122,000
Actual cost	777,622	284,350	1,061,972
under/(over) spend	68,378	(8350)	60,028



Effort (hours)

Effort	previous period (3/93 - 11/93)			this period (11/93 - 2/94)			total Year 1 (3/93 - 2/94)		
	APM	Sec's	Total	APM	Sec's	Total	APM	Sec's	Total
Target:	9900	9762	19662	3300	3713	7013	13200	13475	26675
Actual:	11949	6352	18301	3930	2030	5960	15879	8382	24261
Delta:	2049	(3410)	(1361)	630	(1683)	(1053)	2679	(5093)	(2414)



Effort (person months)

Activity	Prev. period (3/93 - 11/93)	This period (11/93 - 2/94)			Total Year 1 (3/93 - 2/94)		
	Actual	Actual	Plan	Delta	Actual	Plan	Delta
DEP	36.7	9.6	8.0	1.6	46.3	44.0	2.3
PERF	31.1	8.8	4.0	4.8	39.9	37.0	2.9
FED/AT	30.3	11.3	27.0	(15.7)	41.6	71.0	(29.4)
STDS	7.1	2.7	3.0	0.3	9.8	9.0	0.8
OH & SCE	8.8	2.3	0.0	2.3	11.1	0.0	11.1
TINA Txfer	0.0	2.2	0.0	2.2	2.2	0.0	2.2
TINA DPE	0.0	1.1	0.0	1.1	1.1	0.0	1.1
CA	8.1	2.0	3.0	(1.0)	10.1	12.0	(1.9)
PD	11.1	3.3	6.0	(2.7)	14.4	21.0	(6.6)
Totals	133.2	43.3	51.0	(7.7)	176.6	194	(17.5)



Effort - in terms of team members Year 1

TARGETS	M	A	M	J	J	A	S	O	N	D	J	F
APM	8	8	8	8	8	8	8	8	8	8	8	8
Sec's	6	6	7	7	9	9	9	9	9	9	9	9
Total	14	14	15	15	17	17	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	8.5	9.5	9.5	9.5	9.5	9.5	10.5	10.5
Sec's	5	5	4	4	4	4	5	6	6	6	6	6
Total	12	12.5	13.5	13.5	12.5	13.5	14.5	15.5	15.5	15.5	16.5	16.5



Year 1 Deliverable Summary (1)

	Result	Plan	Last rev.	Status
MD1	D1: Failure model	12/93	12/93	delivered 12/93
	P1: Performance manifesto	10/93	11/93	delivered 11/93
	F1: Federation manifesto	12/93	5/94	on target
MD2	D2: Programming guidelines	11/93	5/94	on target for 6/94
	D2: Dependable workflow framework	11/93	6/94	on target
	P2: Streams and signals	11/93	5/94	on target for 5/94 (& 9/94)
	P2: Binding	11/93	5/94	on target for 6/94 & 9/94 (effort to DPE)
	F2: federation programming model	7/93	1995	cancelled (MC 10/93)
MD3	A1-3&7: Aut. transp. model etc.	8/94	8/94	on target for 8/94 (merged w. DPE)



Year 1 Deliverable Summary (2)

	Result	Plan	Last rev.	Status
MD4	D3: DIPS prototype and eng. model	5/94	5/94	on target for 3, 6, 9, 12/94
	P3: Engineering model	6/94	6/94	after 8/94 (effort to DPE)
	F3: Trading with Orbix and AllBase	6/94	6/94	on target for 8/94
MD5	A5-6: Corba nucleus interface	2/95		on target



Summary (Year 1)

- **Staff turn-over:**
 - **we lost:** Cosmos Nicolau (APM),
Jean-Pierre Deschrevel (FT),
Francis Wai (APM)
 - **we gained:** Guangxing Lee (APM),
Gomer Thomas (Bellcore),
Jane Cameron (Bellcore)
- **Average staff size Year 1: 14.3 instead of 16.2**
- **Notional shortfall of 22.8 pm reduced to 17.5 pm**
- **14.4 person months originally unplanned**



Year 1 achievements (1)

- **Main Deliverable 1 MODELS (planned¹ 12/93 - 5/94):**
 - **P1 Modelling Requirements for Performance: 12/93 - completed and approved**
 - **D1 Modelling Requirements for Dependability: 12/93 - completed and approved**
 - **F1 Architecture for Federation: on target for 5/94 - under TC review**
- **Main Deliverable 2 PROGRAMMING MODELS (planned 5/94):**
 - **P2 Streams, signals and binding: TC proposal 3/94**
 - **D2 Extended transactions and workflow: 8/93, 11/93 on target for 6/94**
 - **F2 programming model for federation: dropped (MC 10/93)**
- **Main Deliverable 3 PROGRAMMING TOOLS (planned 5/94):**
 - **A 1-3 & 7: subsumed by TINA DPE joint work (MC 1/94)**

1. all planned dates are those agreed by MC in their meetings during Year 1.



Year 1 achievements (2)

- **Main Deliverable 4 ENGINEERING MODEL (planned 8/94)**
 - P3 Initial scope circulated (delivered 2/94)
 - D3 Distributed Information Publishing System scenario proposal (delivered 2/94)
 - F3 Extended advanced trader based on Orbix and Allbase design (2/94)
- **Main Deliverable 5 CORBA BASED NUCLEUS (planned 2/95)**
 - A5-6: ANSAware POSIX (over OSF/1) for sponsors only (delivered 1/94)
- **Miscellaneous. software**
 - ANSAware 4.1.1 ports to HP-UX9, OSF/1 (delivered 11/93)



Year 1 achievements (3)

- **Scenarios**
 - **D2 and D3: Information Publishing System (proposed 3/94)**
 - **42 Federation micro scenarios (2/94)**
 - **Interactions with sponsors (workflows: Bellcore, data islands: BT, Broadband services: HP, Office systems: ICL, BPR tools: ICL, Service creation: GPT, Addressing endpoints: BNR)**
- **ODP and OMG Standards:**
 - **(See separate agenda item)**
- **TINA**
 - **Technology transfer channels set up (7/93) and maintained**
 - **Joint project started (2/94): preprocessing and AST (planned delivery 7/94) (Also see separate agenda item)**



Year 1 achievements (4)

- **Sponsor Liaison (over and above normal secondee technology transfer):**
 - **Bellcore: various talks at Bellcore and in Cambridge**
 - **BNR: nucleus requirements review, meetings on dependability and performance, meeting on addressing and object management**
 - **BT: meeting on transaction processing, joint workshop, providing presentation material**
 - **CNET: meetings on binding and streams, ANSA lecture by AJH**
 - **GEC/Marconi: project team (6) visit and reviews**
 - **GPT: two day meetings**
 - **HP: many visits by HP staff, HPL visits and presentation by CA**
 - **ICL: meetings with DAIS, ProcessWise and TeamOffice teams, meetings on ORB Interoperability**
 - **IONA: supplied material on interoperability**



Year 1 achievements (5)

- **Dissemination of results to the world at large:**
 - **IEEE/Network Jan. 1994 article: An Overview of ANSA**
 - **IFIP/IEEE 3rd International Conference on Network Management; ECRC liaison**
 - **TINA 93 Keynote: Distributed Objects and Intelligent Network Services**
 - **TINA 93 Panel paper: The Challenges of being open**
 - **ANSAworks 94**
 - **VLDB contribution on integrating RDA with RPC (databases in CORBA)**
 - **Contribution to 1994 International Conference on Applications of Databases**
 - **Paper and keynote for 2nd International Workshop on Feature Interaction**
 - **3 ICL Technical Journal articles (under way)**
 - **Numerous meetings with potential sponsors**



Year 1 achievements (6)

- **Project infrastructure:**
 - **Quality system, document support system**
 - **Review team organisation**
 - **FTP access, WWW access**
 - **Software library reorganisation**
 - **OSF1 RT procurement and installation, HP new equipment installation**



Year 2 Plan: Federation

- **F1 deliverable: 5/94 (now under TC review)**
 - “F1 Overview (Synopsis of first federation deliverable)” (briefing paper)
 - “Federation Manifesto” (technical report)
 - “Comparison of CORBA-compliant Platforms” (technical report)
 - “Remote Database Queries in Open Distributed Systems” (external paper)
 - “Data Management for an Enhanced Trader” (external paper)
 - “Micro-scenarios” (request for comments)
- **F3: Advanced trading prototype: 8/94**
 - Trading model implementation on HP Allbase with Iona Orbix (8/94)
 - Trader information model (8/94)
- **F4: Interception prototype: end 12/94**
 - Boundary and interception model (7/94)
 - Multi-ORB interceptor prototype (12/94)



Year 2 Plan: Dependability

- **D2 Programming framework**
 - **Guidelines for exploiting knowledge about mechanisms and languages in programming dependable systems (6/94)**
 - **Report on dependable workflows with flexible transactions: (6/94) - under TC review; staged delivery with scenario for D3 (6, 9, 12/94)**
- **D3 Engineering framework**
 - **Distributed Information Publishing System (DIPS) prototype design (3/94)**
 - **Dependability analysis of notification service (6/94)**
 - **Prototype of engineering and management mechanisms in DIPS (9/94)**
 - **Report on engineering and management models (12/94)**

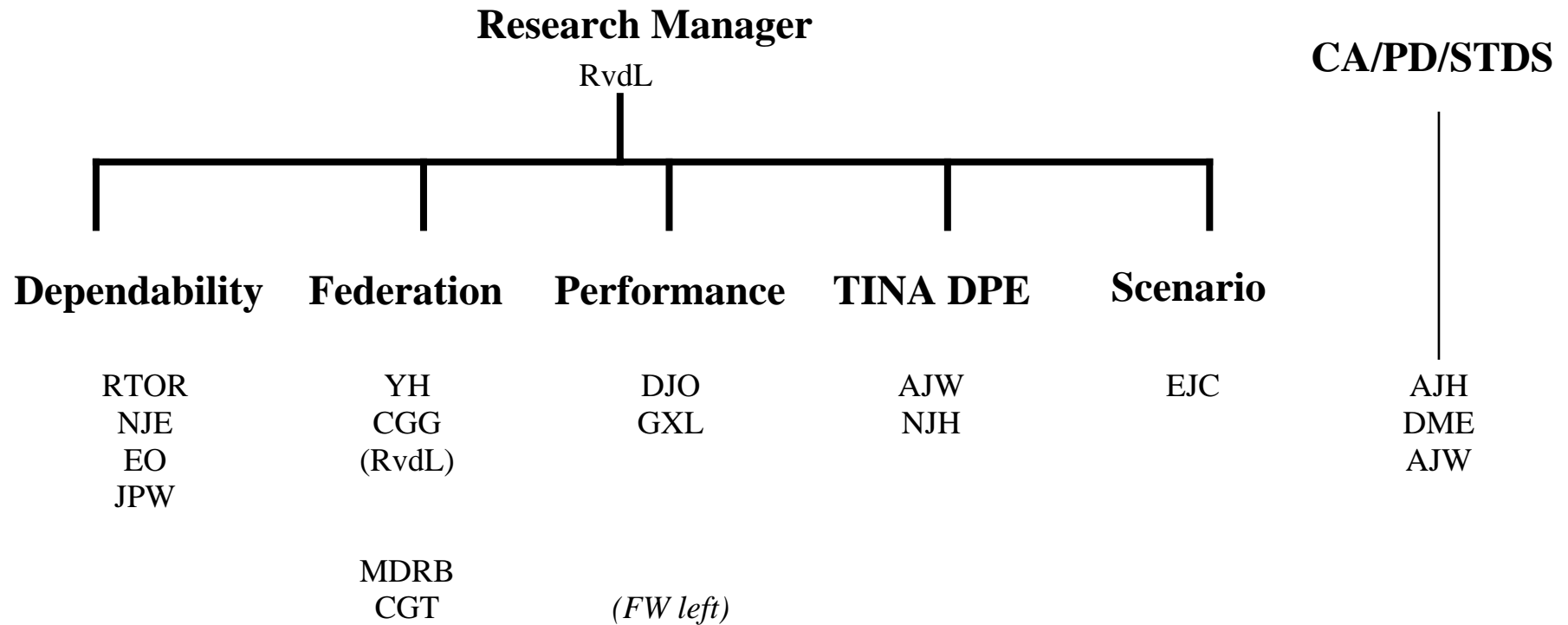


Year 2 Plan: Performance

- **P2: Programming Framework**
 - Proposal for streams and signals (5/94), technical report (9/94)
 - Proposed extended binding model (6/94), technical report (9/94)
- **P3: Engineering Framework**
 - prototype R/T ANSA over p-threads (4/94), report (5/94) - under TC review
 - Guidelines for engineering R/T ANSA systems (8/94)



Team Organisation





Risks and Issues

- **Open Connection**
 - **New sponsors**
 - **TINA**
 - **New Plan**
-
- **See other agenda items**