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## **ANSA Phase III**

# **ANSA TC 0694: progress report slides**

**Rob van der Linden**

### **Abstract**

Progress report to the ANSA technical Committee at their meeting of 7 & 8 June 1994.

This report covers the first year of the ANSA Phase III project (to end February 1994), and the first two months of the second year (March - April 1994).

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APM.1256.01

**Approved**

24th August 1994

Project Management (confidential to ANSA consortium for 2 years)

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**Distribution:**

**Supersedes:**

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# **Phase III Progress Report**

**Year 1: March 1993 - February 1994  
&  
March 1994 - April 1994**

**to the ANSA Technical Committee  
7 June 1994**

**Rob van der Linden**



## Effort (person months) - Year 1

Activity	Total Year 1 (3/93 - 2/94)		
	Actual	Plan	Delta
DEP	46.3	44.0	2.3
PERF	40.0	37.0	3.0
FED/AT	42.3	71.0	(28.7)
STDS	9.8	9.0	0.8
OH & SCE	10.3	0.0	10.3
TINA Txfer	2.2	0.0	2.2
TINA DPE	1.1	0.0	1.1
CA	10.2	12.0	(1.8)
PD	14.3	21.0	(6.7)
<b>Totals</b>	<b>176.5</b>	<b>194</b>	<b>(17.5)</b>



## Effort (person months)

Activity	Prev. period (3/93 - 2/94)	This period (3/94 - 4/94)			To date (3/93 - 4/94)		
	Actual	Actual	Plan	Delta	Actual	Plan	Delta
<b>DEP</b>	46.3	9.2	8.0	1.2	55.5	52.0	3.5
<b>PERF</b>	40.0	6.2	5.3	0.9	46.2	42.3	3.9
<b>FED/AT</b>	42.3	8.7	8.0	0.7	51.0	79.0	(28.0)
<b>STDS</b>	9.8	1.2	1.1	0.1	11.0	10.1	0.9
<b>OH &amp; SCE</b>	10.3	2.8	2.3	0.5	13.1	2.3	10.8
<b>TINA Txfer</b>	2.2	0.0	1.4	(1.4)	2.2	1.4	0.8
<b>TINA DPE</b>	1.1	2.0	2.4	(0.4)	3.1	2.4	0.7
<b>CA</b>	10.2	2.8	1.8	1.0	13.0	13.8	(0.8)
<b>PD</b>	14.3	3.0	2.5	0.5	17.3	23.5	(6.2)
<b>Totals</b>	176.5	35.9	32.8	3.3	212.4	226.8	(14.4)



## 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

## March 1993 - February 1994

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



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## 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: 14.3 instead of 16.2**



## Year 1 Deliverable Summary (1)

	Result	Orig. Plan	Last rev. <sup>a</sup>	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	6/94	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)

a. MC approved: 4/94





## Year 1 Deliverable Summary (2)

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

a. MC approved: 4/94



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## Progress: Dependability Group

- **D2 Programming Model**
  - **APM.1122: “Programming cheaper dependable systems”**
  - **OO-DP: tcl/tk based infrastructure with RPC and trading: for group experiments**
- **D3 Management and Engineering Model**
  - **APM.1171: “IPS - An Information Publishing System“**
  - **APM.1182: “Generic Hazards for IPS“**
  - **APM.1203: “MED: A CORBA-based Management Engine for Dependability“**
  - **APM.1220: “Commercial Information Services in the World Wide Web“**
  - **APM.1233: “ANSA & Commercial Information Services“**
- **D2/3: Extended Transaction Framework**
  - **APM.1217: “Flexible Transaction Framework for Dependable Workflows”**



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## Progress: Performance Group

- **P2: Programming Model**
  - **APM.1108: “Streams and Signals“**
- **P3 Engineering Model**
  - **APM.1151: “A Model of Real-Time QoS“ (went for TC review in April)**
- **P3/4 Prototype: Real Time ANSAware; first prototype completed in April**
  - **APM.1207: “Towards a Real-Time ANSAware“**
  - **full real-time Pthread operations**
  - **interface based resource allocation**
  - **multiple RPC protocol support and a new timed RPC protocol**
  - **QoS objects, simple explicit binding and in-band QoS attachment**
  - **evaluated by the Distributed Hartstone real-time benchmark suit**
  - **source code copies of RT ANSAware Version 1 are available on request**



## Progress: Federation Group (1)

- **F1 Manifesto proposed for sign-off today**
  - **APM.1192: “F1 Overview (Synopsis of first federation deliverable)”**
  - **APM.1193: “Federation Manifesto“**
  - **APM.1194: “Comparison of CORBA-compliant platforms“**
  - **APM.1138: “Remote Database Queries in Open Distributed Systems“**
  - **APM.1162: “Data Management for an Enhanced Trader“**
  - **APM.1095: “Micro-scenarios for federation“**
- **F3 Enhanced Trading Service**
  - **APM.1140: “A Model of Co-Operative Trading“**
  - **APM.1229: “Information Model for Federation“ (in progress)**
  - **APM.1177: “Property Repository Specification“**
  - **AllBase, Orbix and C++ compilers installed**



## Progress: Federation Group (2)

- **F4 Interception**
  - **APM.1139: “Boundaries and domains“ (in preparation)**
  - **APM.1142: “A model of interception“ (in preparation)**
  - **close cooperation with OMG interworking activists**



## More progress (1)

- **TINA/DPE**
  - **APM.1180: “TINA-DPE AST Design“**
  - **type system design**
  - **TINA-C response to our queries is less than enthusiastic**
- **Standards: OMG**
  - **Interoperability and Initialisation submissions received**
  - **work with ICL on interoperability compromise**
  - **Berlin Meeting**
  - **C++ language binding politics**
  - **APM.1202: “OMG ORB2 Task Force status report“ for inclusion in “First Class”**



## More progress (2)

- **Dissemination and Consulting**
  - **Feature Interaction Workshop in Amsterdam**
  - **Specific interactions with Bellcore, BT, GPT, HP and ICL**
  - **ICL Technical Journal submissions for October release**
  - **presentations to team from BT and Bellcore**
  
- **System support**
  - **preparations for improved FTP access:**
    - **new server, better organisation, auto-update**
  - **WWW available:** <http://www.ansa.co.uk/>



## Risks and Issues

- **TINA interactions have “slowed down”**
  - little response from DPE team
  - no technology transfer in April
- **New focus for two year plan fits within *most* planned activities**
- **New 2 year plan on target for MC approval in July**
  - TC discuss/approve focus and work packages
  - Task size estimates and effort allocation to be completed
- **Sponsor liaison**
  - public WWW and controlled FTP access
  - regular MC updates by snail-mail
  - larger role for consultancy
  - review team success is patchy: put up with it?