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ANSA Phase III

ANSA TC 0295: progress report slides

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Abstract

Progress report to the ANSA Technical Committee meeting on 28 February 1995.

This report covers the period from December 1994 to end January 1995.

APM.1422.01

Approved

1st March 1995

Project Management (confidential to ANSA consortium for 2 years)

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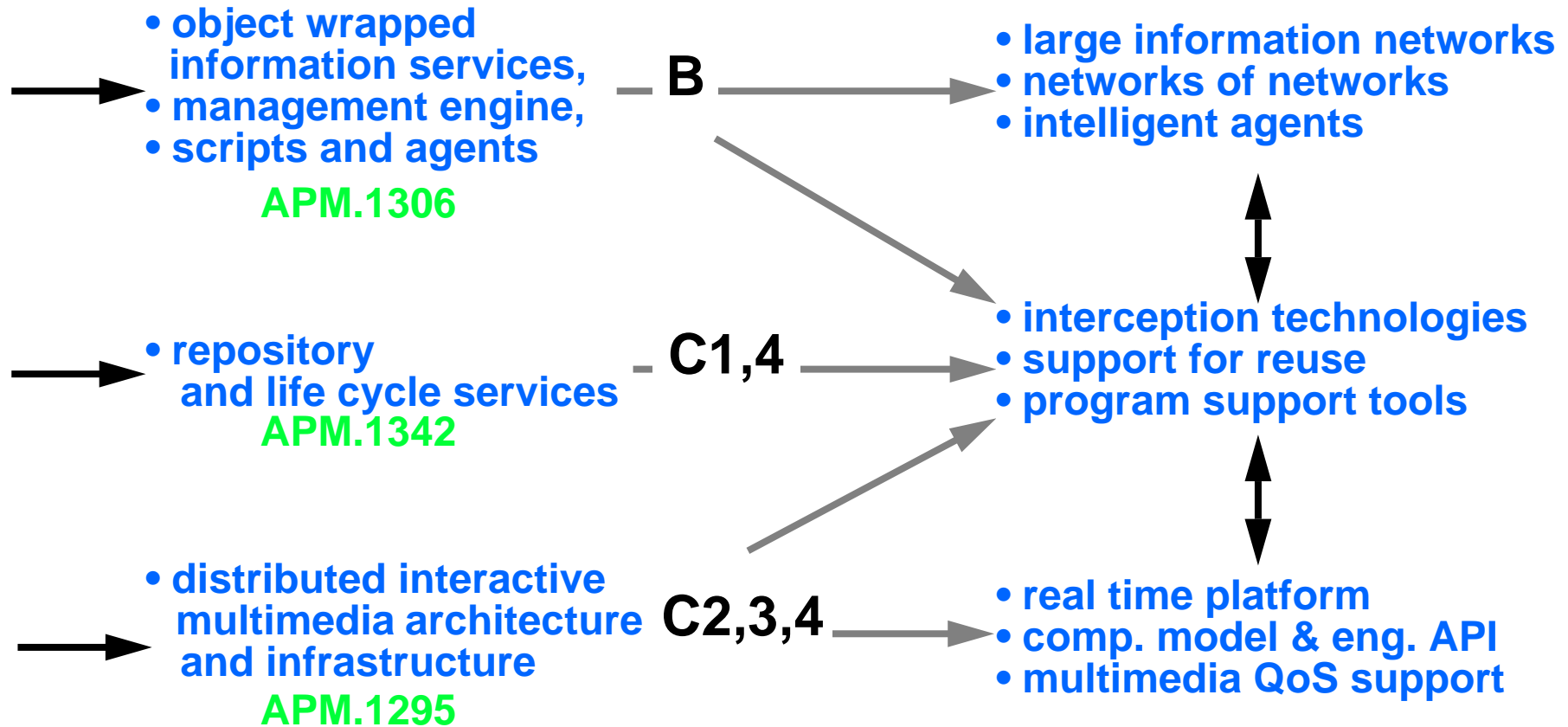
Phase III
Progress Report
December 1994 - January 1994
to the ANSA Technical Committee
28 February 1995

Rob van der Linden

- **Effort and Staffing**
- **Progress and Plans**
- **Summary**

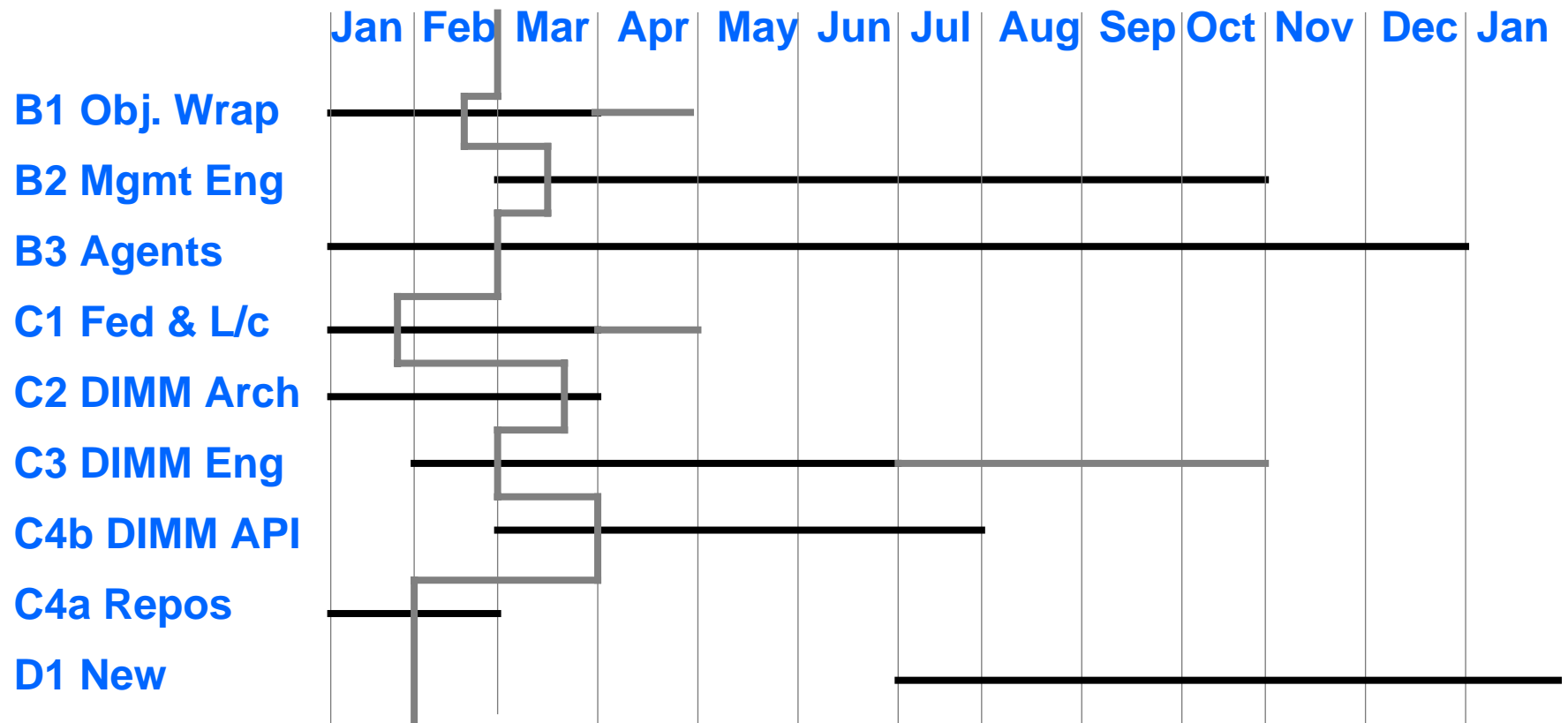


ANSA Phase 3 technical tasks





Overview of progress to date





Staff Plan

staff members	Dec. 94 - Feb. 95			Mar. 95 - May 95			Jun. 95 - Aug. 95		
	Plan	Avail	Delta	Plan	Avail	Delta	Plan	Avail	Delta
APM	12	11	(1)	14.6	13	(1.6)	15.3	14.8	(0.5)
SEC	4	2	(2)	4	2	(2)	4	3	(1)
Total	16	13	(3)	18.6	15	(3.6)	19.3	17.8	(1.5)

- **New APM staff:**
 - at start of December: Youcef Laribi
 - at start of January: Mark Madsen
- **Secondees:**
 - available from HP and ICL



Effort by work package

Activity	Previous period (9/94 - 11/94)			This period (12/94 - 1/95)			Effort to date (9/94 - 1/95)		
	Actual	Plan	Delta	Actual	Plan	Delta	Actual	Plan	Delta
A TechXfer	1.4	3.0	(1.6)	0.4	2.0	(1.6)	1.9	5.0	(3.1)
A Stds	2.1	3.0	(0.9)	2.3	2.0	0.3	4.4	5.0	(0.6)
A Eval	1.3	3.0	(1.7)	0.3	2.0	(1.7)	1.7	5.0	(3.3)
B Services	7.7	6.0	1.7	5.2	6.0	(0.8)	12.9	12.0	0.9
C DIMM	5.4	3.0	2.4	3.4	2.0	1.4	8.9	5.0	3.9
C L/c & rep	7.7	12.0	(4.3)	4.9	8.0	(3.1)	12.6	20.0	(7.4)
D	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1
SS	1.5	1.0	0.5	2.2	0.6	1.6	3.7	1.6	2.1
CA	3.1	3.0	0.1	1.6	2.0	(0.4)	4.5	5.0	(0.5)
PD	2.6	3.0	(0.4)	1.9	2.0	(0.1)	4.5	5.0	(0.5)
Totals	33.0	37.0	(4.0)	22.2	26.6	(4.4)	55.2	63.6	(8.4)



Progress B tasks: Services

- *Web client and server programs*
- *IDL compiler extensions*
- *Resource naming work continues (APM.1282)*
- *Computational view of web protocols started*
 - e.g. http extensions vs. type conformance
- *Scripts and agents work started with proposal and prototype*
 - soft upgradable devices; in service upgrade
- *Use of meta-information being investigated*



Progress

C tasks: Interception and federation

- **Interception (C1)**
 - interception Architecture being documented (APM.1313, APM.1427)
 - simple ANSAware- Orbix echo gateway
 - ANSAware trader - Orbix MatchMaker gateway nearly complete
 - ready for TC review end March
- **Federation architecture**
 - trader federation issues
 - domains and domain management
 - fits bridges required by management engine (B2)
- **Use of AST to help generate gateways dynamically**



Progress

C tasks: Repository and Life cycle

- ***Repository and AST (C4a)***
 - **AST design and C++ implementation complete (APM.1180)**
 - **basic type checker implemented**
 - **inferencing engine designed (APM.1347) & being implemented**
- **AST based IDL compiler under construction**



Progress C tasks: DIMMA

- *AST based IDL compiler*
- *API for ODP computational model*
 - ODP class library with exceptions
- *API for Engineering model*
 - ODP client and server stub design
 - communications engineering
- *Nucleus re-design and implementation*
 - generic communications support



Progress A tasks: Standards

- **ISO:**
 - ODP Foundation and Architecture documents accepted as IS
 - helping BT & BNR with ODP Trader
- **OMG:**
 - interoperability proposal accepted
 - C++ language bindings done
 - Smalltalk language binding done
 - interest in trading
 - Cambridge (UK) meeting hosted by ICL and APM: 27-31 March 1995
- **OSF:**
 - approached us with a view of adopting ANSA



Progress

A tasks: Evaluation

- **Continued evaluation of CORBA products (APM.1194)**
 - ICL DAIS
 - IONA Orbix 1.2 and 1.3
 - Postmodern Computing Orbeline
 - Xerox ILU
- **Started evaluation of Object Models**
 - OMG CORBA
 - ODP ANSA Computational Model
 - COM/OLE
 - OpenDoc
 - SOM/DSOM
 - DOE



Progress

A tasks: Technology transfer

- **Past period:**
 - Barclays (consultancy for project)
 - BNR (workshop, consultancy)
 - GEC (FORESIGHT)
 - GPT (visit and follow up)
 - HP (project proposals, FORESIGHT)
 - ICL (review)
 - Telefonica (visit and follow up)
- **Planned:**
 - BT (workshop to prepare staff exchanges for limited periods)
 - DRA (workshops)



Summary

- **Good progress is being made**
 - prototypes are under development in all areas
 - distributed interactive multimedia architecture is solid
 - services architecture is being shaped
- **Effort is below planned**
 - new staff is settling in well
 - recruitment is continuing
 - other supportive projects
- **New work is under consideration**
 - scripts and agents
 - application of meta-information ideas
- **Dissemination is gaining pace**