

ANSA Road Map

What we propose to do in the next 12 months

14 Oct 97

Richard Hayton

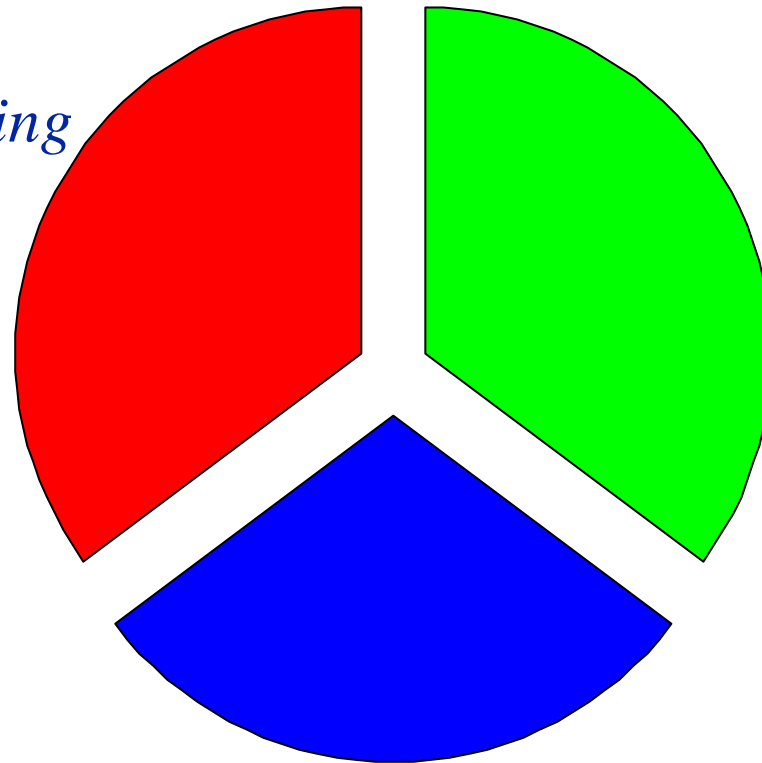


APM.2079

Three Areas

FlexiNet

- *Declarative Binding*
- *Transactions*



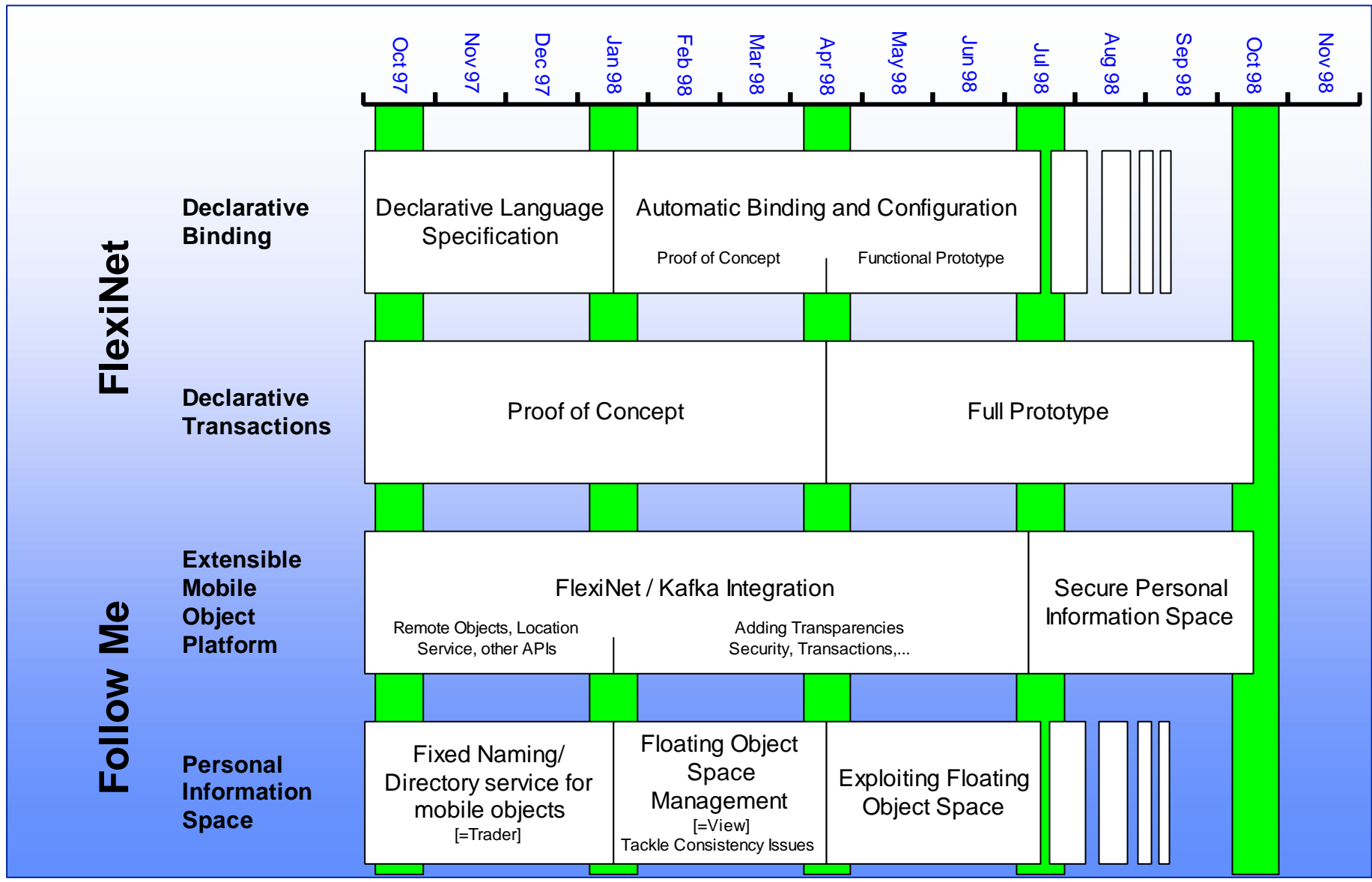
FollowMe

- *Personal Information Space*

FlexiNet + FollowMe

- *Extensible Mobile Object Platform*





Declarative Binding

Specification of binding requirements

- security, auditing, access control, performance...
- automatic binding to meet requirements

Parties involved in binding are separately administered

- but have some degree of prior agreement

Continue current FlexiNet work

- negotiation by refinement
- late negotiation and binding

Design Language & Build Prototype Binder

SCOPE

APPROACH



Declarative Transactions

High Transparency Concurrency

- focus on middle-tier (business logic)
- declarative specification of concurrency semantics
- encapsulate components in transactional frames
- separate sequential behaviour from concurrency semantics
- leverage FlexiNet reflection

Design & Build Prototype System

SCOPE

APPROACH



Extensible Mobile Object Platform

Basic infrastructure for agent development

- location transparent communication
- explicit code movement
- emphasis on security policy

Kafka over FlexiNet

- FlexiNet provides communications infrastructure and reflection
- Kafka provides agent mobility
- use FlexiNet reflection to enforce security policy

Produce and Extend Mobile Distributed Object Platform



Personal Information Space

Manage information that follows its owner

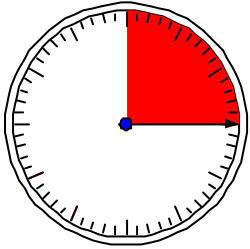
- resources are mobile, not just agents
- resources may be unavailable due to location
- consistency control a major issue

Develop “floating object spaces”

- FlexiNet/Kafka can be tailored for experimentation
- trading to locate versions of database

**Produce Fixed Object Space and
Extend to Floating Object Space**



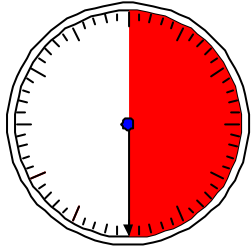


3 Months

Next TC (Jan 98)

- Declarative Binding
 - Language design and approach to engineering
- Declarative Transactions
 - Status report
- Mobile Object Platform
 - Kafka/FlexiNet basic integration (Software)
- Personal Information Space
 - Naming service for mobile objects (Software)



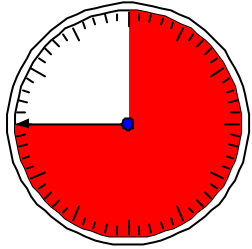


6 Months

April 98 TC

- Declarative Binding
 - Automatic binder (Proof of Concept Software)
- Declarative Transactions
 - Framework (Proof of Concept Software)
- Mobile Object Platform
 - Extended Kafka/FlexiNet integration
 - Some transparencies (Software)
- Personal Information Space
 - Floating Object Space (Proof of Concept Software)



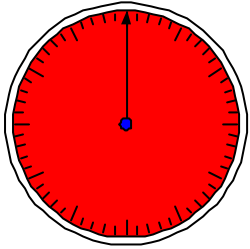


9 Months

July 98 TC

- Declarative Binding
 - Full prototype (Software)
- Declarative Transactions
 - Status report
- Mobile Object Platform
 - Platform with security and transactions (Software)
- Personal Information Space
 - Exploitation of Floating Object Space





12 Months

October 98 TC

- Includes:
 - Full Prototype of Transactions
 - Secure Personal Information Space



In Addition

- Access to deliverables from

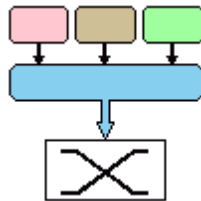
- ReTINA



- Pegasus II



- DCAN



- Follow Me

