FlexiNet Transaction System

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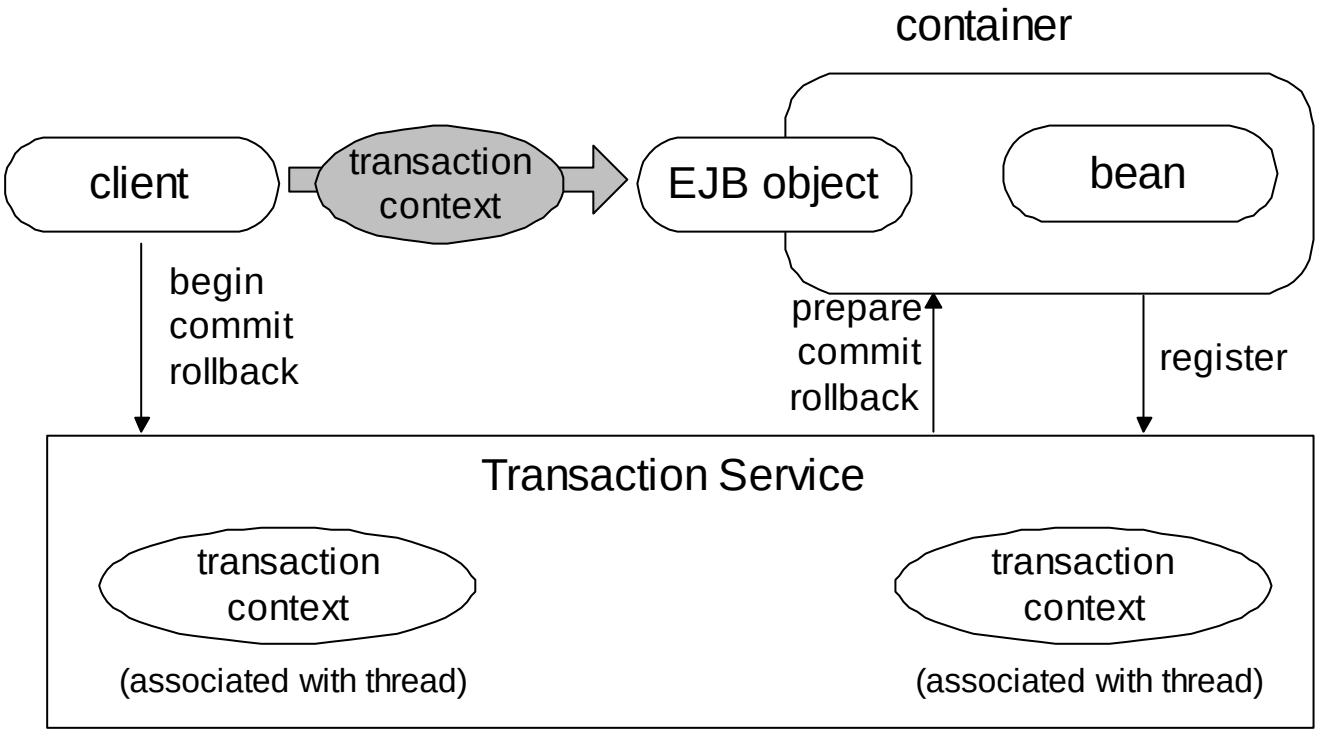
Work Since Last Meeting

- Integration with FlexiNet
- EJB jar packaging
- Programmer guide
- Architecture report

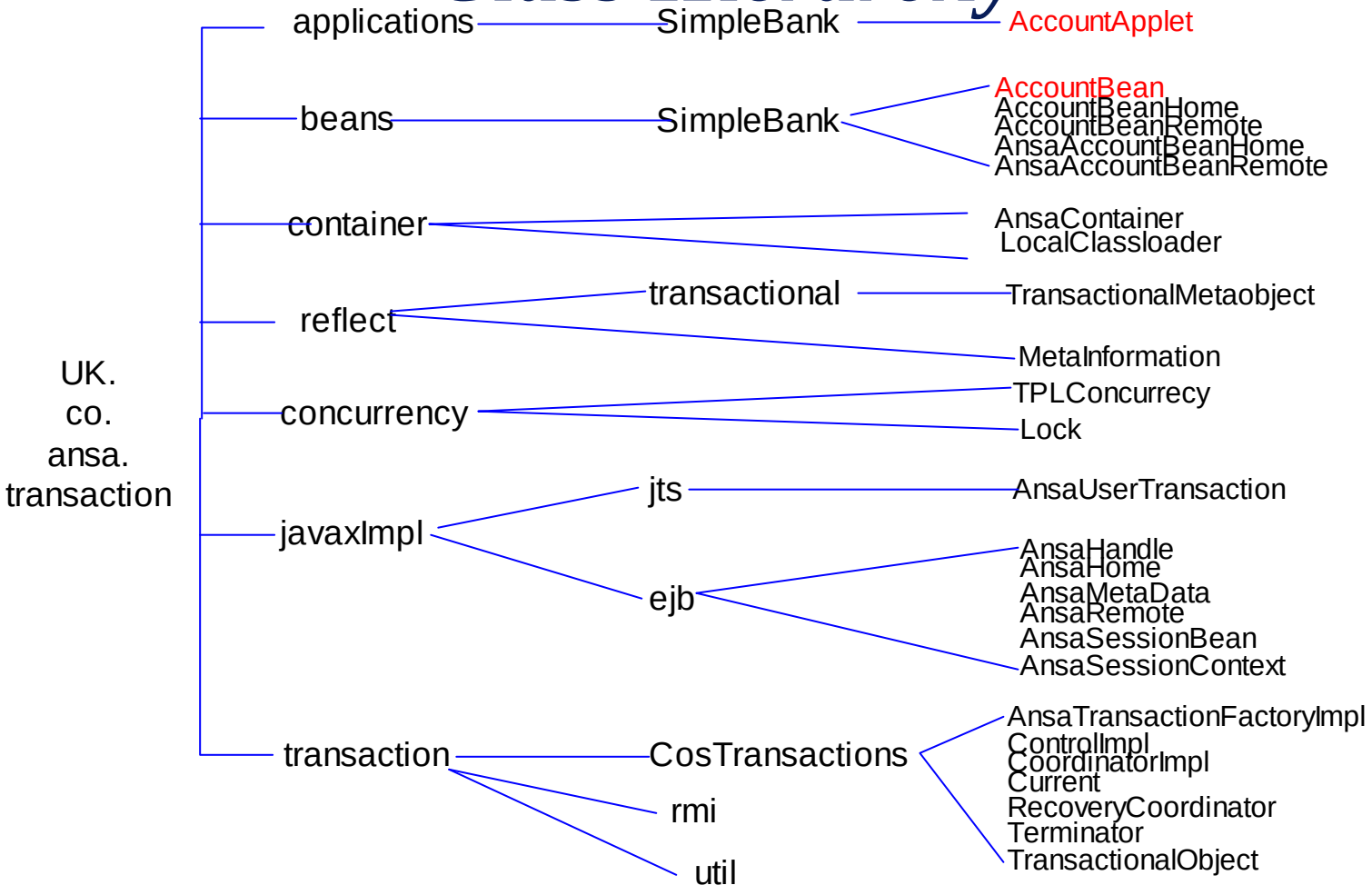
Transaction Model



Context Propagation using FlexiNet

- A transaction context with each thread
- Clients use a *TransactionProxy* for accessing transactional objects
- Method invocations are passed to *TransactionProxy*
- *TransactionProxy* reads the transaction context associated with the calling thread and pushes this into the stack
- On the server side, a *TransactionSkeleton* is invoked
- *TransactionSkeleton* reads the transaction context from the stack and assigns this to the current thread
- The invocation is then delegated to the target object

Class Hierarchy



Deliverables

- A visual component builder tool
- A compiler for generating reflection class
- A system component container
- A set of concurrency control metaobjects
- An object transaction service
- A demonstration example
- An architecture report
- Integration with FlexiNet
- Packaging to EJB Jar
- Programming guide

Conclusions

- We completed all the work as planned
- EJB confirms our work addresses the right issue and takes the right approach
  - component
  - multi-tier
  - reflection
- FlexiNet can be easily configured to support a new “transparency”
- Application deployment is still a difficult issue