

Unlocking the OSEE Core Framework

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Objective

- Inform developers what the OSEE application framework services offer
- For more information
<http://www.eclipse.org/osee>

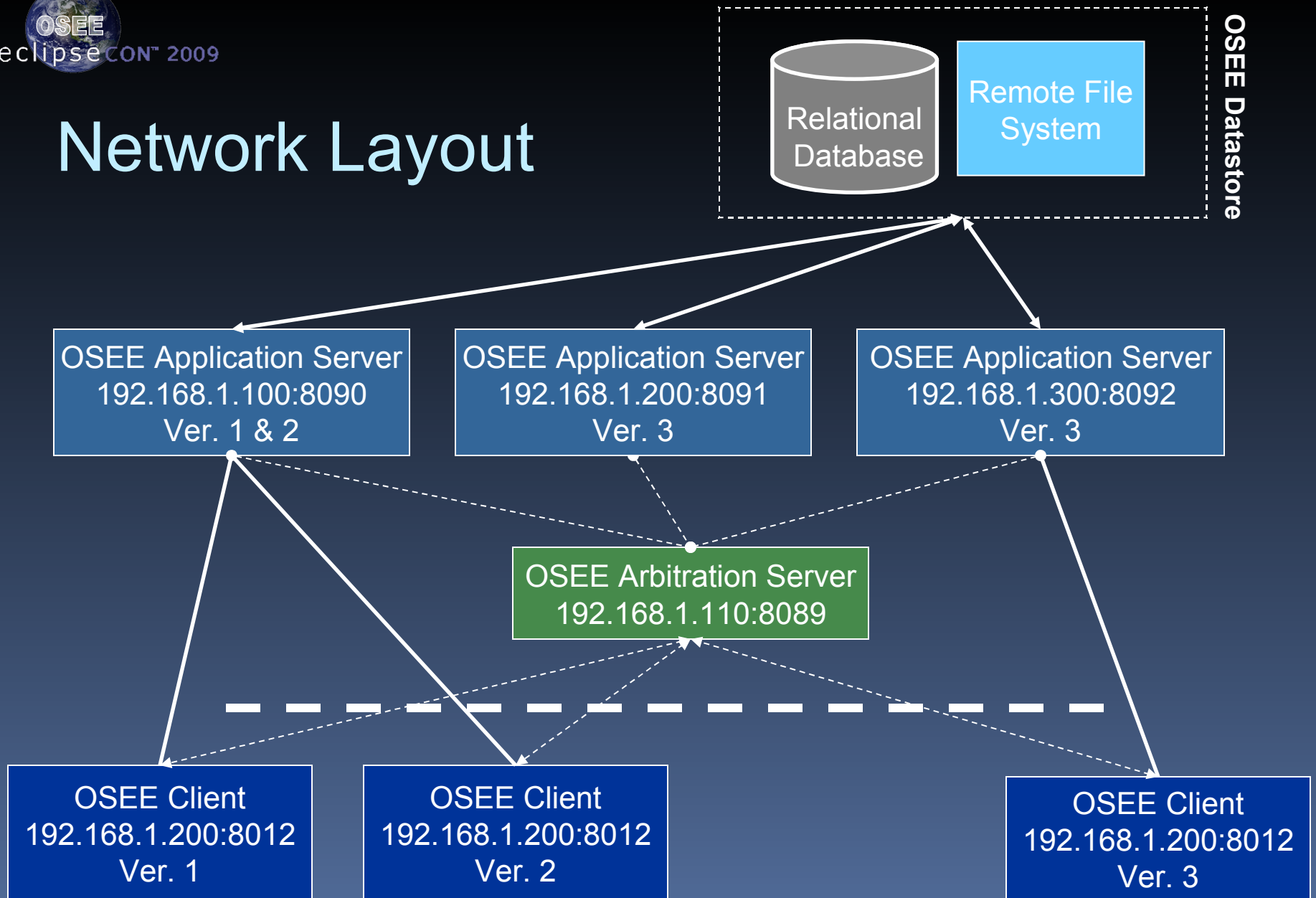
What is OSEE?

- OSEE is a tightly integrated environment designed to support lean engineering principles across a product's full life-cycle in the context of an overall systems engineering approach
- OSEE has been deployed on Boeing's next generation Attack Helicopter
 - 300 users
 - Managing ~300,000 Artifacts
 - ~250 Active Branches

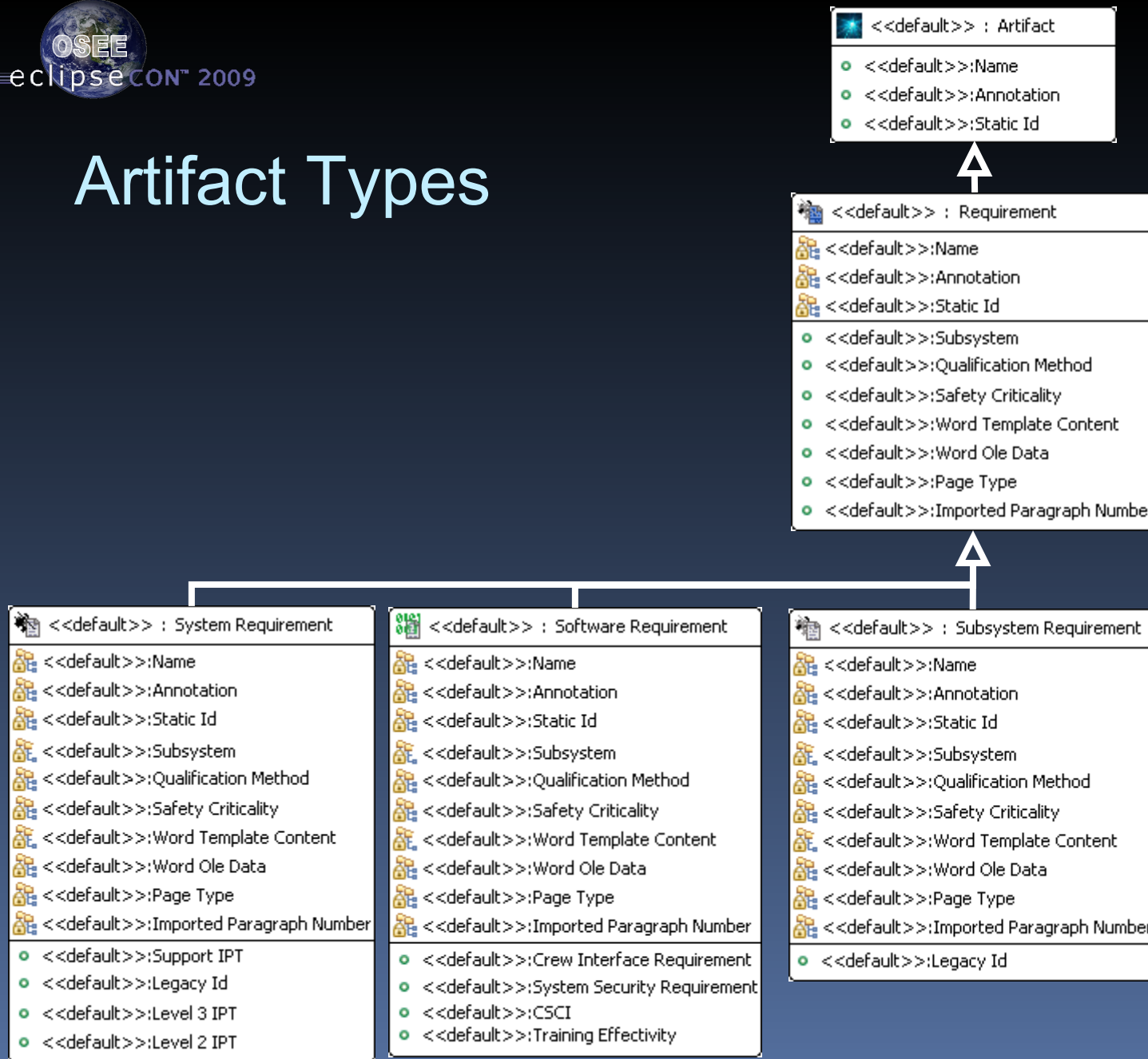
OSEE Framework Services

- Providing the following facilities:
 - Transaction-based object-oriented persistence layer
 - Dynamic and strongly types artifact model
 - Advanced version control including multi-level branching
 - Variant management
 - Database independent import/export
 - Subject-based and object-based access control
 - Session management and authentication service
 - Multi-client event notification service
 - Extensible tagging and searching capabilities
 - Task scheduling framework

Network Layout



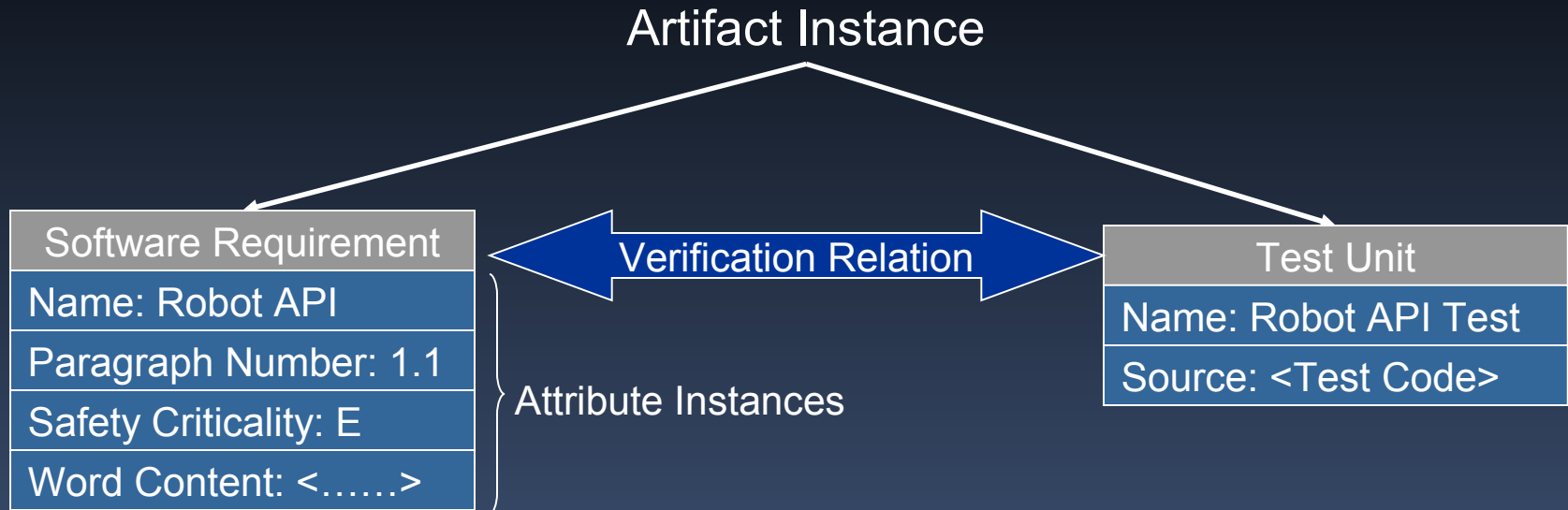
Artifact Types



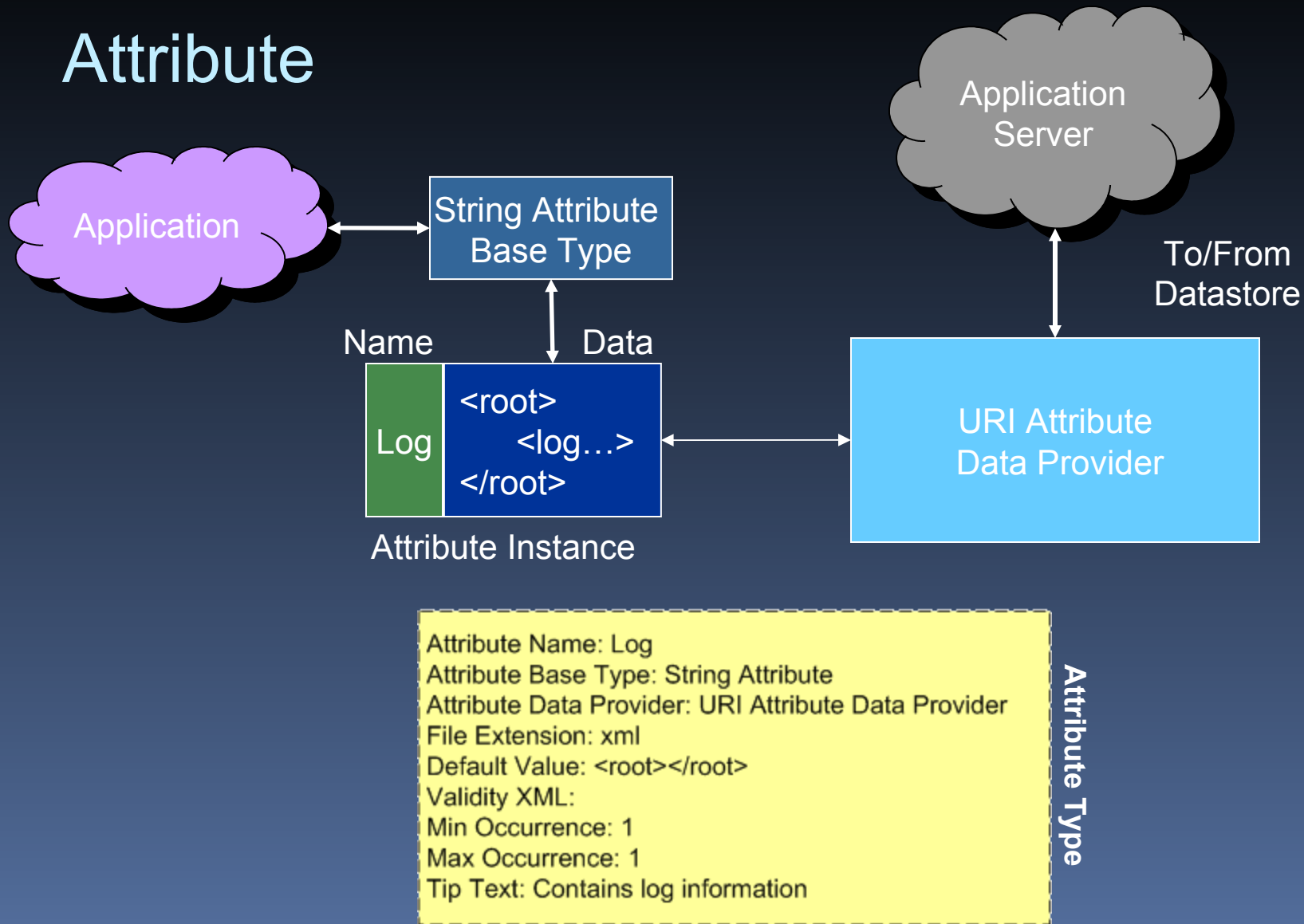
Inherited Attributes

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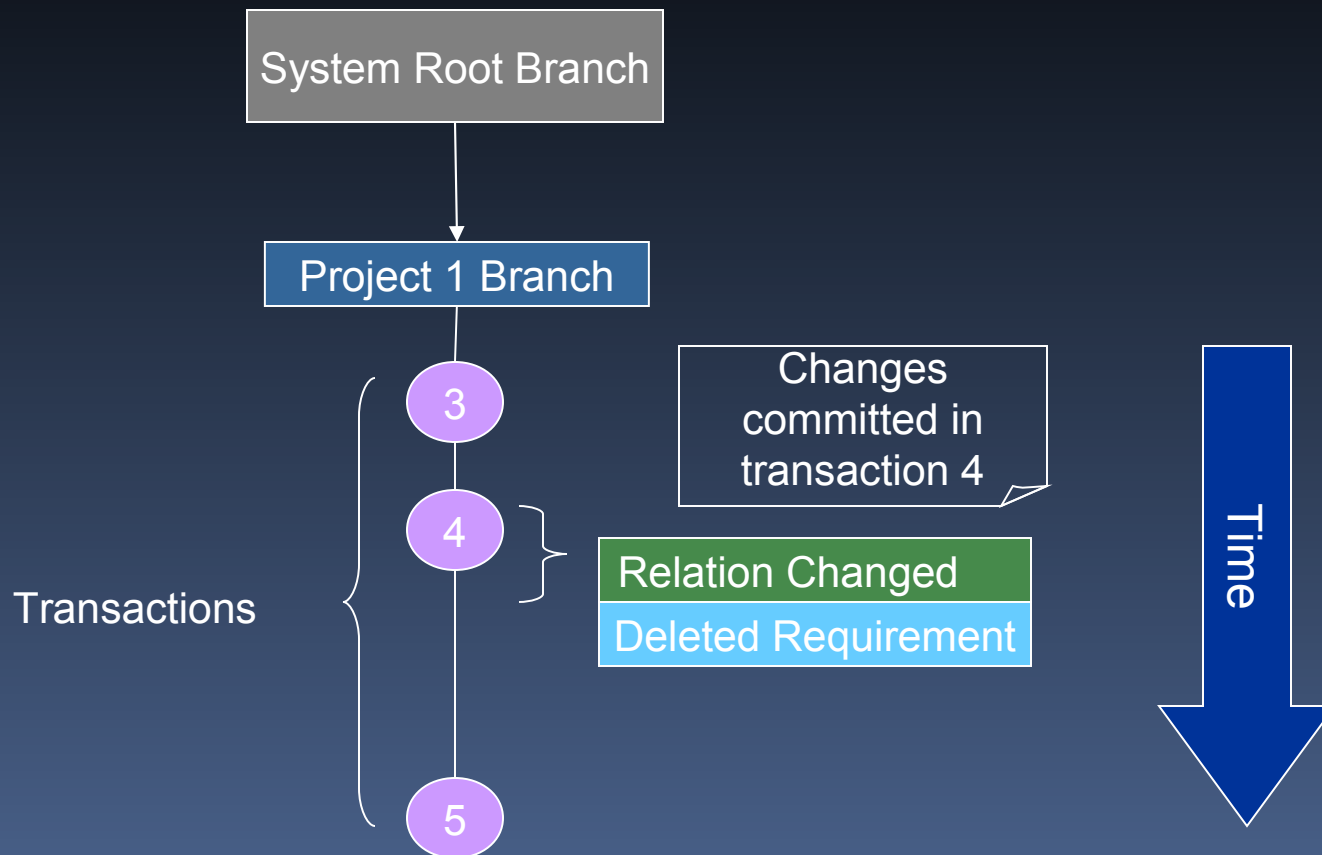
Artifacts



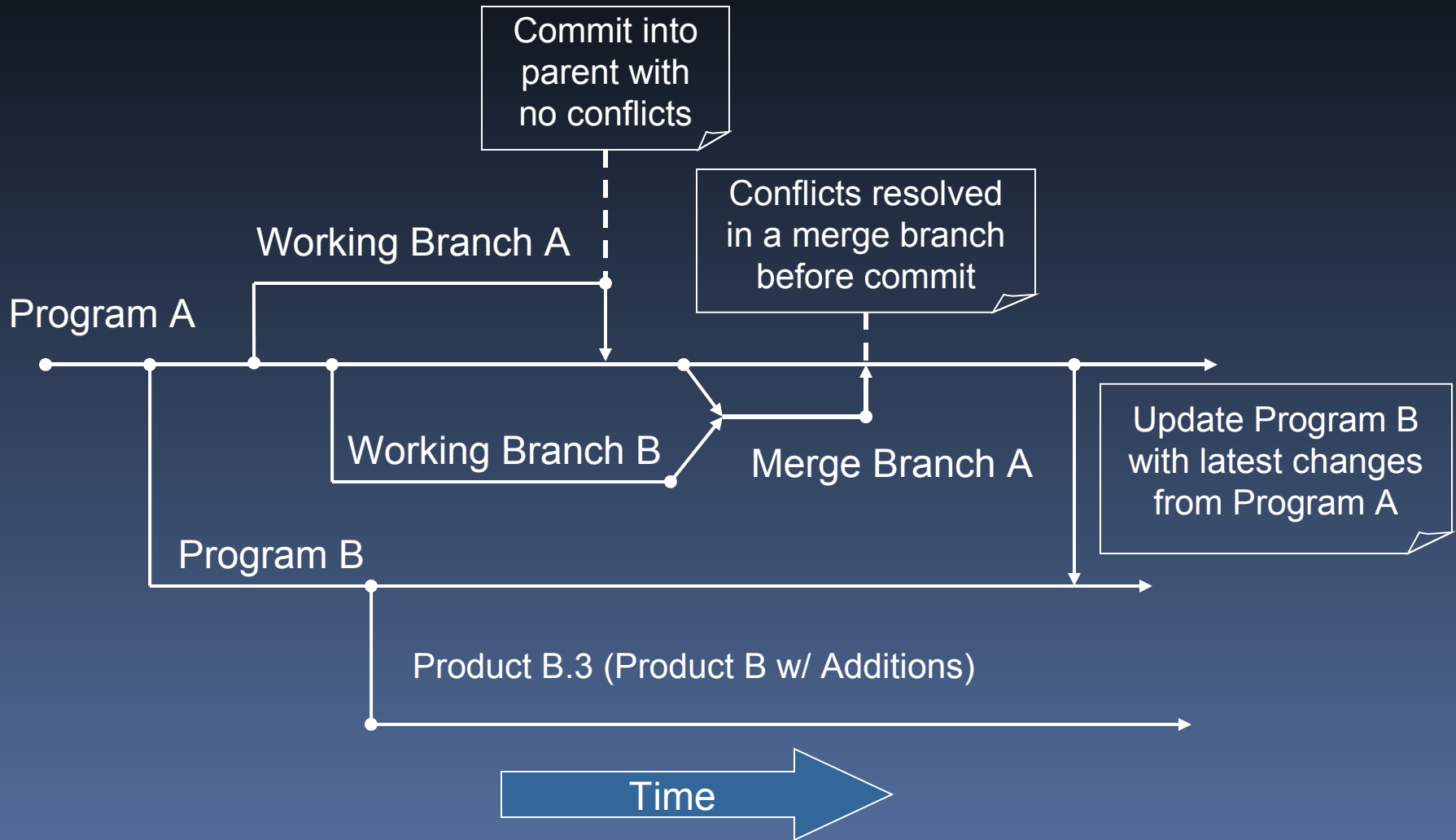
Attribute



Transactions and Branches



Variant Management



Example

- Aircraft Maintenance Log Book
 - Stores multi-program historical flight information
 - Uses authentication and access control
 - Using Artifact search API to easily access data
 - Easily pluggable with Eclipse plug-ins
 - For example - using BIRT to chart flight performance indicators
 - Flight data analysis

QUESTIONS?