Governing Future Networks

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Online Governance:
Motivation and Architectural Thoughts

Identity Manager	Point of Governance	Assembly Manager	Patterns and Practices Repository

Services Bus

Network Resources | Network Instrumentation | Networked Resources

Plenum
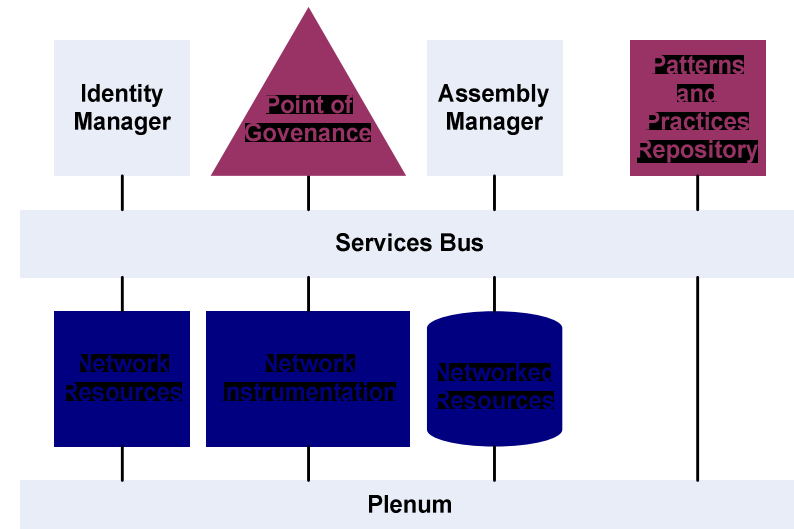
- Service orientation in networking
  - Recognizes applications are wildly heterogeneous
  - Replace the "stack"
  - Software engineering challenges within a node
- Why online governance?
  - Applications are dynamically constructed
    - Research groups of scientists
    - Data streams being set up quickly
  - Services are important, but also create challenges, e.g., by distribution
  - Recognize diversity of ownership and construction
- How online governance?
  - Architectures for capturing and applying user requirements
  - Instrument the network properly
  - Services for management locally and interactions externally: policy; negotiation; high-level protocols