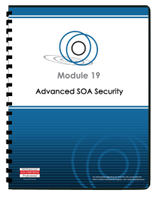
Module 19
Advanced SOA Security

- Security Mechanisms
  - security token actions
    - issued
    - validated
    - renewed
    - cancelled
  - trust brokering
  - security sessions
    - authentication
    - single sign-on
    - key agreement
  - security policies
    - declarative
    - decoupled from service logic
    - decoupled from networking details
    - vendor-neutral
- Security Threats
  - data-oriented threats
    - buffer overrun
    - information leakage
      - XPath injection
      - SQL injection
      - exception generation
    - XML parser attack
      - document structure
      - XML schema poisoning
      - XML bomb attack
      - XML external entity
    - malicious intermediary
  - access-oriented threats
    - denial of service
      - excessive memory
      - processor usage
    - insufficient authorization
- Service Security Patterns*
  - Exception Shielding (376)
  - Message Screening (381)
  - Trusted Subsystem (387)
  - Service Perimeter Guard (394)
- Enterprise Service Bus
  - security tasks
    - authentication and authorization
    - data confidentiality and integrity
  - security issues
    - identity
    - confidentiality
    - access control
- Industry Standards
  - WS-Trust
  - WS-Secure Conversation
  - WS-Policy
  - WS-SecurityPolicy
  - WS-PolicyAttachment



SOA Certified Professional (SOACP) Program
Module 19: Advanced SOA Security
Official Mind Map Supplement 1 of 2
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* Numbers in parenthesis are page references from “SOA Design Patterns”.

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