

STRATEGIC TECHNOLOGY  
ARCHITECTS

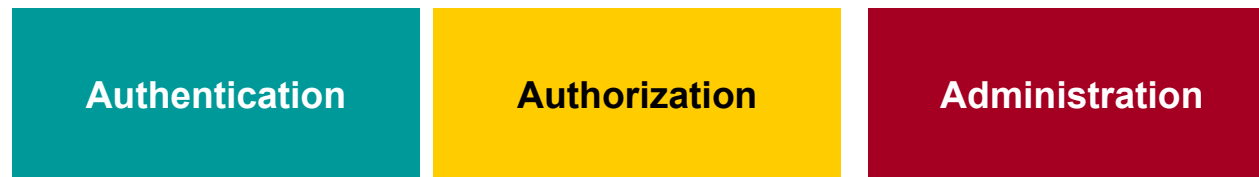
---

S T A G R O U P , L L C

## **ASA Security Model**

# STA Security API Interfaces

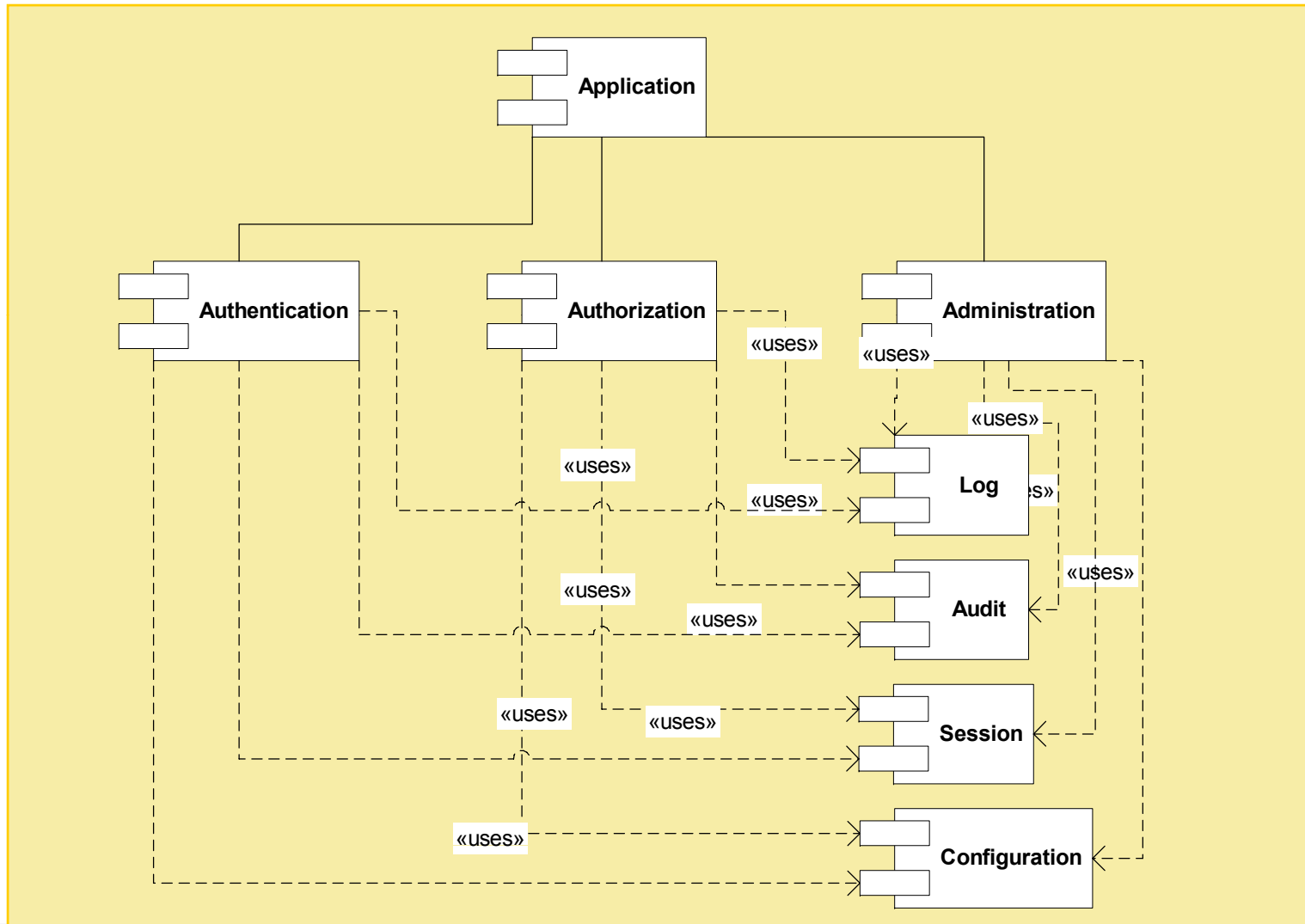
- Three public interfaces:



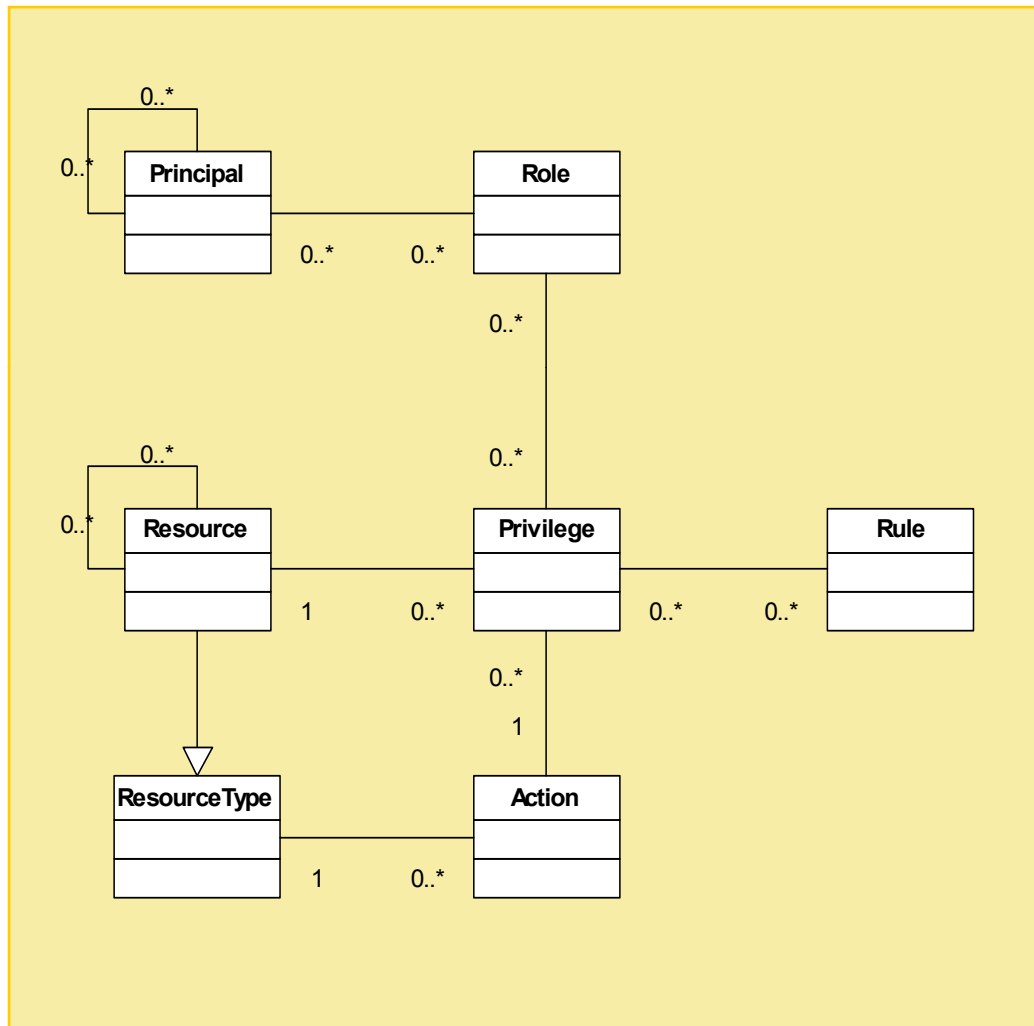
- Four private interfaces:



# STA Security API Model



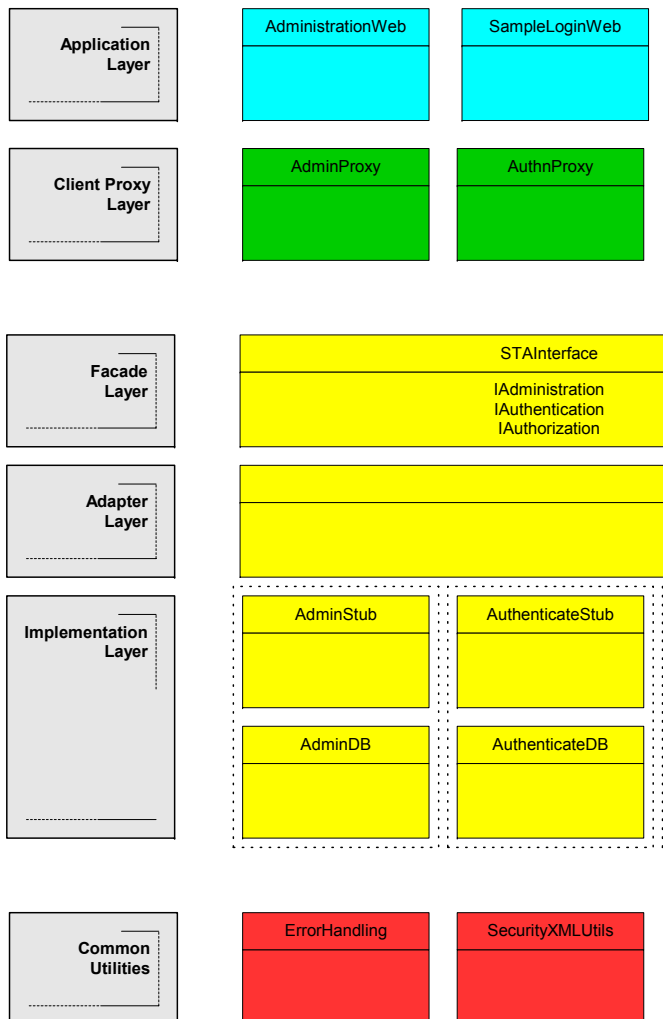
# STA Security Object Model



## Aspects of the Model

- Principals and Resources may be hierarchical
- Privileges are assigned to Roles
- Roles are assigned to Principals
- Privileges protect Resources
- ResourceType determines valid actions for Resources
- Rules apply restrictions to Privileges
- Authorization Evaluation:
  - Privileges are ORed together
  - Rules are ANDED

# STA Security Workbench: Logical Layers



## Application Layer

- Uses client Proxy layer to access security API

## Client Proxy Layer

- Adds convenience routines for calling API
- May perform data translation or caching

## Facade Layer

- Defines public and private interfaces
- Declaration layer

## Adapter Layer

- Determines which implementation to use
- Includes calls to authorization and audit for admin

## Implementation Modules Layer

- Allows multiple implementations

## Utility Layer

- Utilities for parsing XML requests/responses
- Error handling
- Etc.