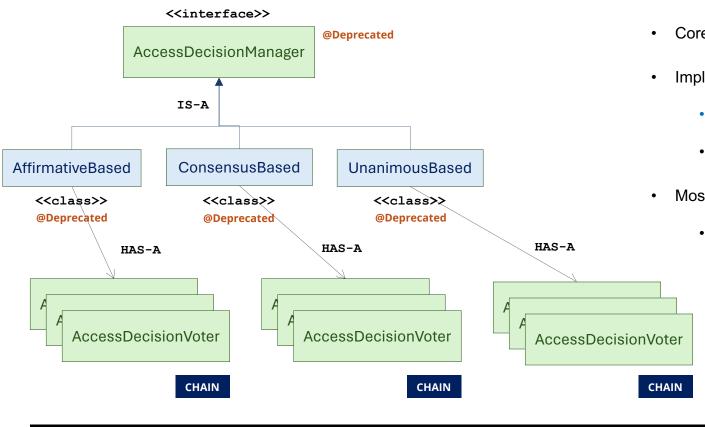
Authorization Outline

- AccessDecisionManager
- AccessDecisionVoter
- ConfigAttribute

AccessDecisionManager



- Core strategy
- Implementations
 - AffirmativeBased, ConsensusBased and UnanimousBased.
 - All three delegate to a chain of AccessDecisionVoter instances
- Most people use AffirmativeBased as default AccessDecisionManager
 - access is granted if any voters return affirmatively

AccessDecisionVoter

<<interface>>

AccessDecisionVoter

@Deprecated

considers an Authentication (representing a principal) and a
 secure Object, which has been decorated with ConfigAttributes.

```
int vote(Authentication authentication, S object, Collection<ConfigAttribute> attributes);
boolean supports(ConfigAttribute attribute);
boolean supports(Class<?> clazz);
```

- Object is completely generic in the signatures of AccessDecisionManager and AccessDecisionVoter. It represents anything that a user might want to access:
 - i.e., a web resource or a method in a Java class.

 ConfigAttributes represent a decoration of the secure Object with some metadata that determines the level of permission required to access it.

ConfigAttribute

<<interface>>

ConfigAttribute

String getAttribute();

- Has only one API, getAttribute() which returns String.
- These strings encode the intention of the owner of the resource,
 expressing rules about who is allowed to access it:
 - ❖ A typical example is the name of a user role
 - o i.e., ROLE_ADMIN or ROLE_AUDIT
 - represent expressions that need to be evaluated
 - Spring Expression Language (SpEL) expressions
 - isFullyAuthenticated() && hasRole('user')