

RAD Resource Names

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OMG doc # corbamed/99-03-11

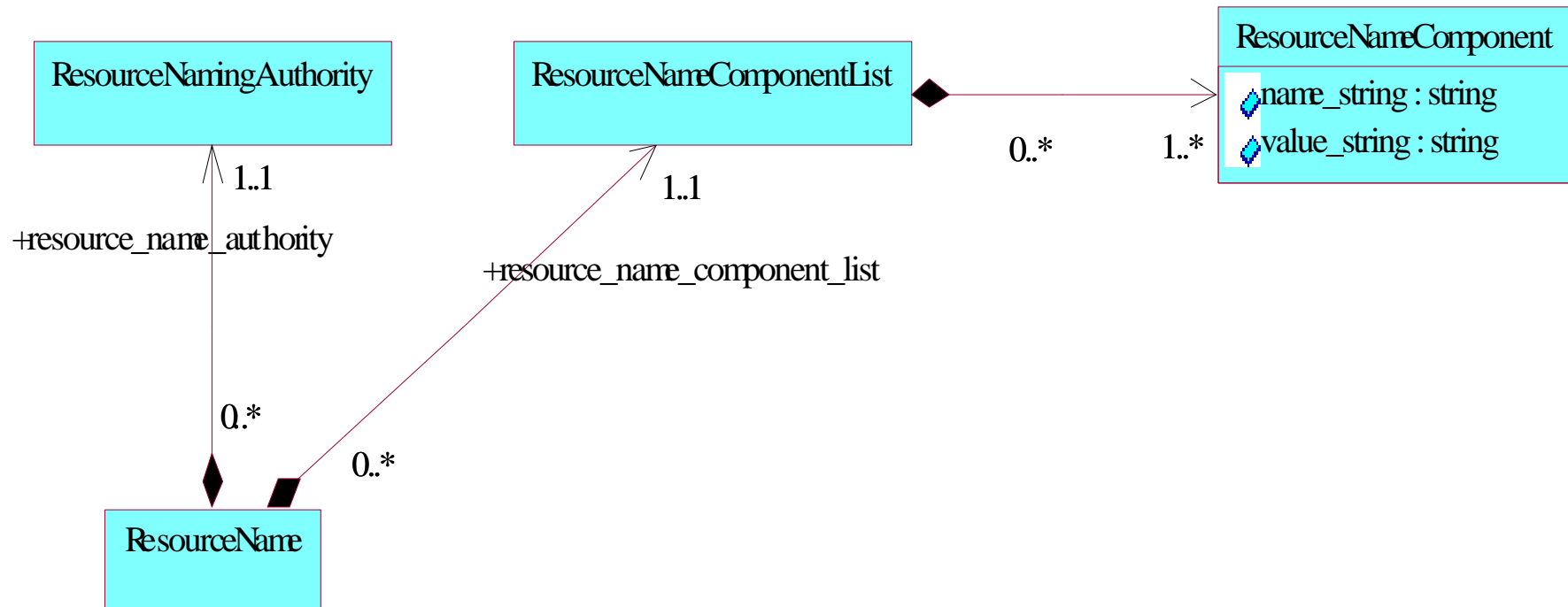
Overview

- Resource names are units of access control
- Data structure of resource names
- Related administrative operations
- Grouping of resource names
- Healthcare resource names RFP requirement
- Existing, in progress, and future CORBAmed specifications and RAD resource names

Resource Names

- Are subjects of access decisions
- Name a resource or a group of resources manipulated by an application system
- Are the smallest units of access authorization decisions

Resource Name Data Structure



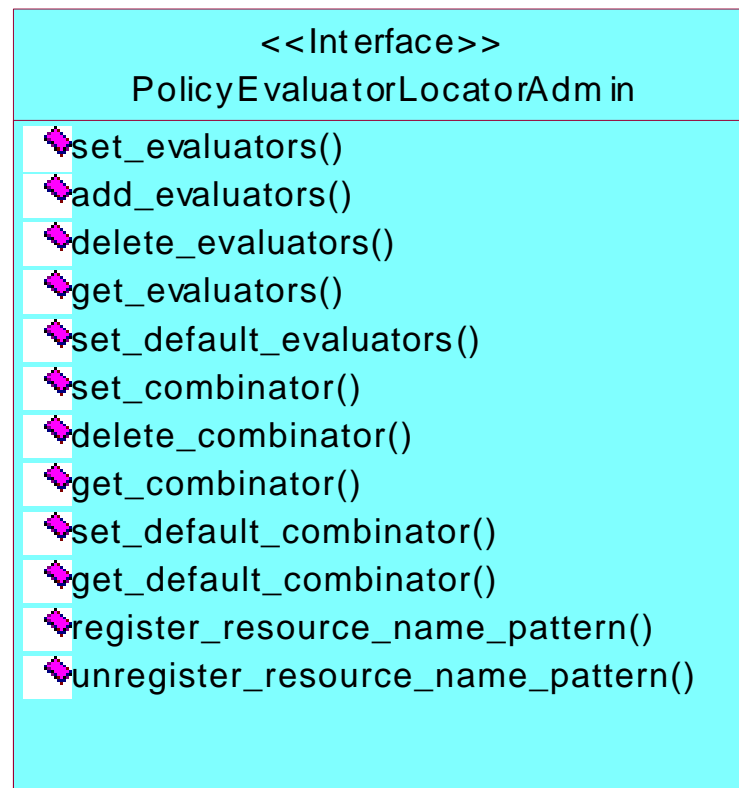
Resource Name Example

resource_naming_authority	resource_name_component_list[0]	resource_name_component_list[1]	resource_name_component_list[2]
'DNS:usps.gov'	'city'	'street'	'building'
	'Coral Gables'	'Red Road'	'6585'

Resource Names and Policies

- For each resource name, there is
 - A set of policy evaluators that evaluate their access authorization policies and,
 - A decision combinator that combines results of those evaluations and makes a final verdict.

Administrative Operations



Resource Name Groups

- All resource names that belong to the same group(s) will be protected by the same set of authorization policies.
- The same decision combinator will make the final verdict for all resource names from the same group(s).

Resource Name Patterns

- All PolicyEvaluatorLocatorAdmin operations work with resource name patterns.

A Resource Name Matches Pattern if:

- the resource name's ResourceNamingAuthority exactly matches the Pattern's ResourceNamingAuthority &
- each component of the resource name matches some component of the Pattern &
- no component of the resource name conflicts with any component of the Pattern

Kinds of Components Patterns

- A component value pattern:
 - name_string is a string
 - value_string is a regular expression
 - Syntax is defined by POSIX 1003.2a-1992 Section 2.8, pages 77-91, "Regular Expression Notation".
- A component wildcard pattern:
 - name_string is "*"
 - value_string is "*"

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	'Coral Gables'	'Red [.]*'	'*'

Healthcare Resource Names

- On the service-by-service basis
- Only CORBAmed services and facilities
- Non-CORBAmed specifications are out of the scope

RNs for CORBAmed Specifications

- Proposed changes to the existing specifications
- Work with some specifications in progress
- Suggest to have mandatory requirements in the future RFPs

Existing CORBAmed Specs

- Person Identification Service (PIDS)
 - Proposed an additional section that defines rules for constructing standard PIDS resource names
 - Proposed a new conformance “PIDS with RAD”
- Other existing specifications:
 - Lexicon Query Service
 - Would anybody want to exercise fine-grain workflow-dependent access control on resources?
 - We are opened to re-consider

PIDS Resource Names

resource_naming_authority	resource_name_component_list[0]	resource_name_component_list[1]	resource_name_component_list[2]
	'QualifiedPersonId.domain'	'QualifiedPersonId.id'	'TraitName'
'IDL:omg.org/PersonIdService'	'DNS:baptisthealth.net'	'Konstantin Beznosov'	'HL7/MaritalStatus'

CORBAmed RFPs in progress

- Working with Clinical Observation Access Service (COAS) submitters on COAS resource names
- Ready to work with responders to other RFPs in progress
 - Healthcare Data Interpretation, Clinical Image Access Service, Medical Transcript Management

Future CORBAmed RFPs

- Recommend to have a requirement in CORBAmed RFPs that asks submissions to specify what RAD resource names will be used by compliant implementations if such implementations choose to use RAD- compliant services