

User-Group-based Security Policy for Capability Layer

draft-you-i2nsf-user-group-policy-capability-00

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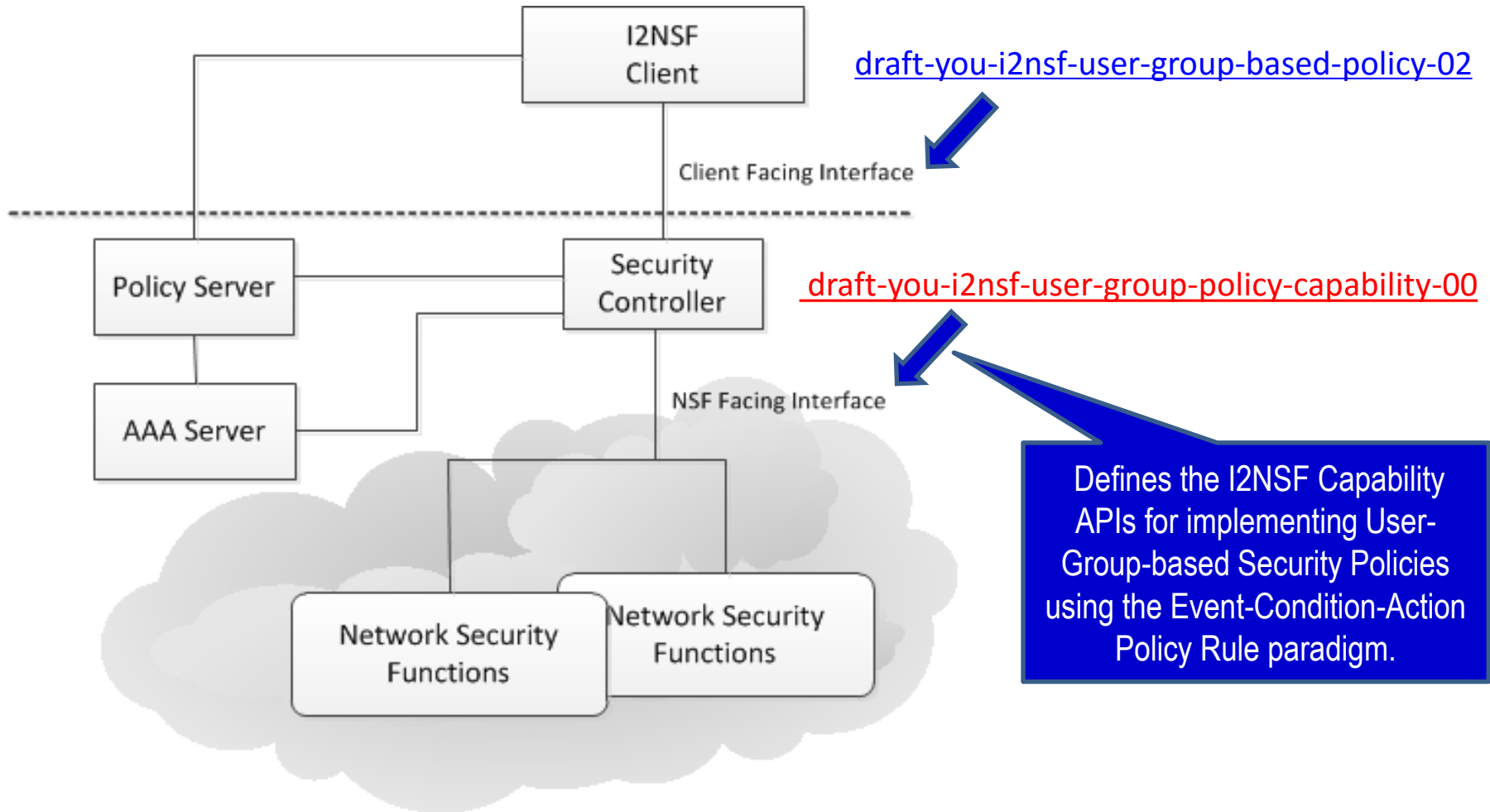
Capability Interface

- Recall that a Capability
 - “Defines a set of features that are available from a managed entity” (from draft-ietf-i2nsf-terminology-01)
 - Therefore, there should be no difference in defining consumer vs provider Capabilities
 - There IS a difference in how they are used



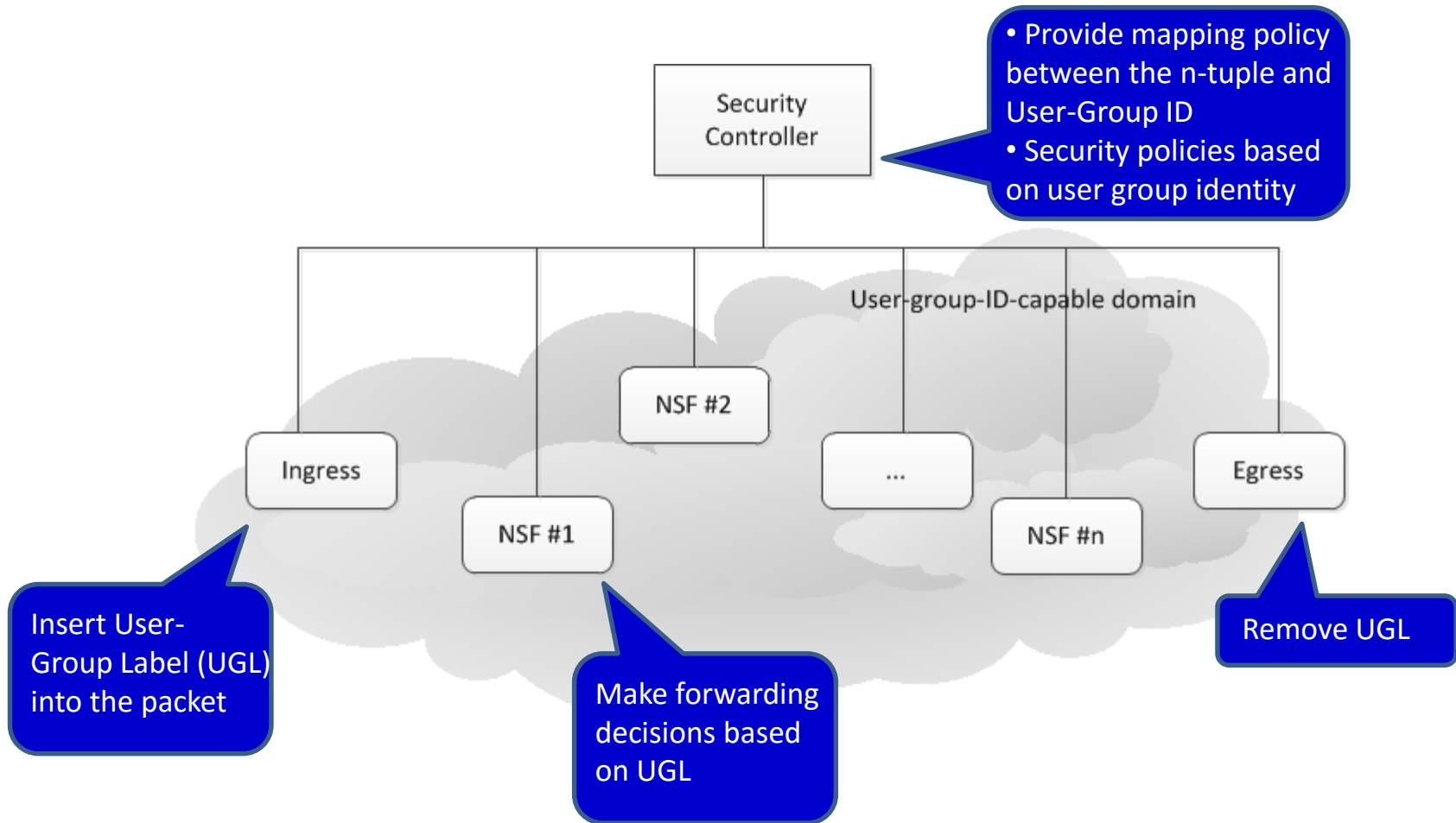
***Capability Info Model will be MERGED, but
Capability DATA Model will be needed***

Motivation

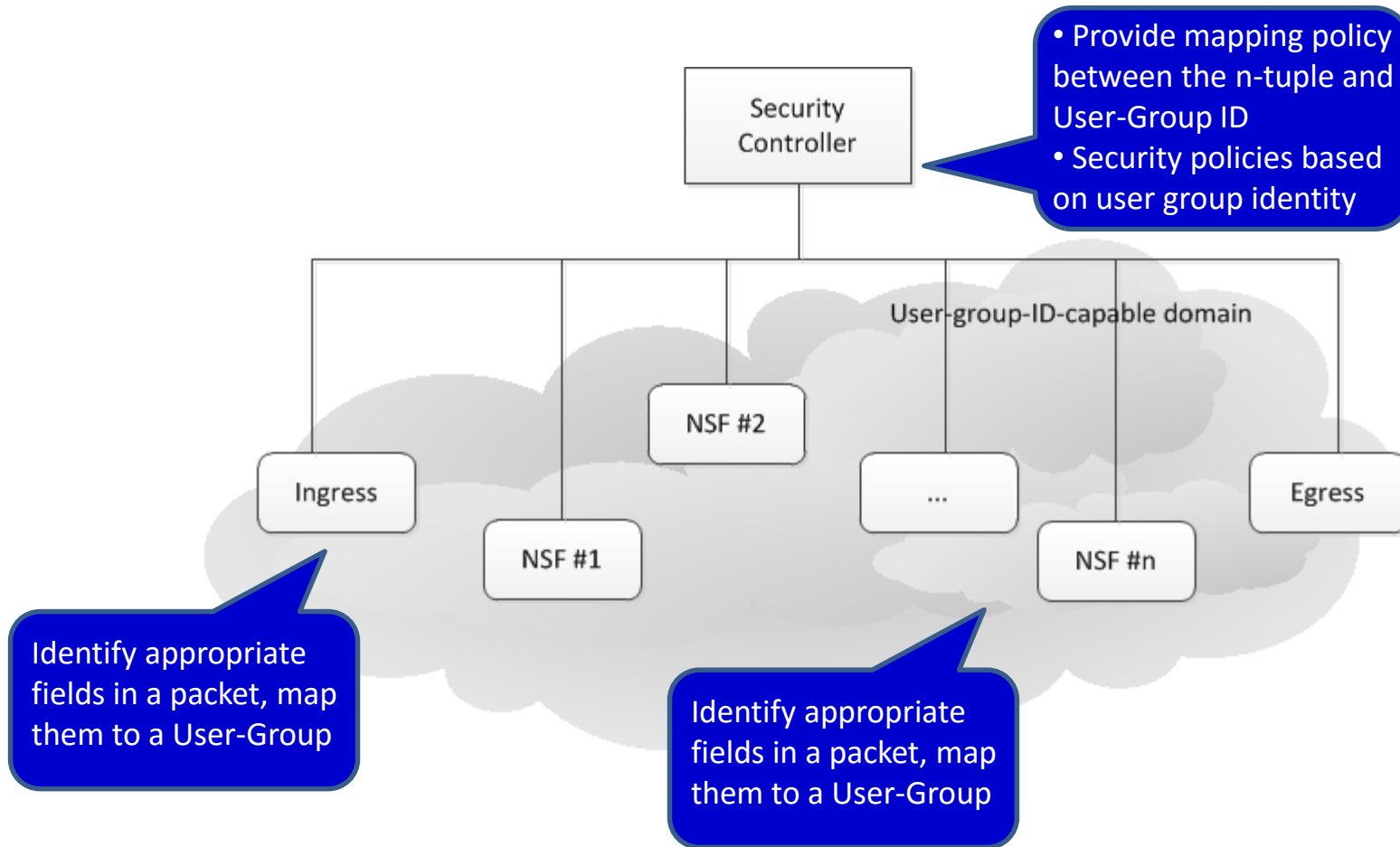


Defines the I2NSF Capability APIs for implementing User-Group-based Security Policies using the Event-Condition-Action Policy Rule paradigm.

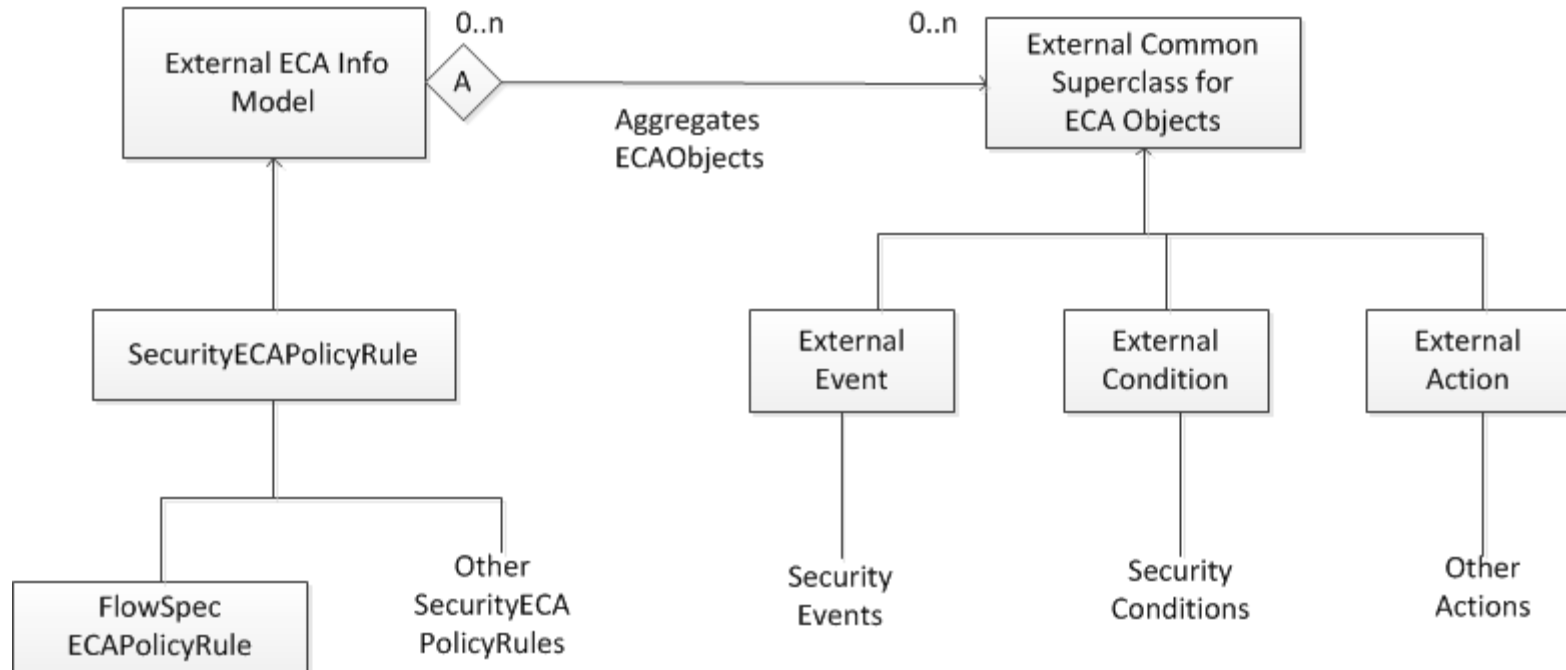
Option 1: Using Packet User-Group Labels



Option 2: Using User-Group IDs Directly



ECA for User-group-based Security Policy



ECA Policy Rule Paradigm

◆ Event

- external stimuli, such as alarms, user actions (e.g., logon and logoff, or access requests), and packet arrival or departure occurrences.

◆ Condition

- n-tuple of the incoming packet
- cross checking with other data, such as correlation with packets received from different ports or past time, or
- the current state of a flow

◆ Action

- Traffic-rate Action
- Traffic-detail Action
- Redirect Action
- Traffic-marking Action

Next Steps

- Solicit comments and suggestions on the mailing list

Thank you!