Applicability of SUPA

draft-vadrevu-supa-applicability-06

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Introduction

- **Applicability of SUPA** explores some typical use cases and demonstrates the applicability of SUPA policy models.
- Latest version : version 06
- https://datatracker.ietf.org/doc/draft-vadrevu-supa-applicability/

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Summary of Progress

V02 → V03

- Add clarification that interoperability is guaranteed at the generic data model level via the common concepts, rather than at the domain specific data model level
- Add text on framework of Network Management / Controller
- Add model snippets and more description for examples
- Other improvements based on received comments

V03 → V04

- Improve data model using script, and also a python script example is given

V04 → V05

- Add another data model example using Yang augment and XML path
- Improve data model using script, and also a python script example is given

V05 → V06

- Improve the wording and modify the ToC

Data model example (SES) using script

```
<condition-list>
  <condition-linkThreshold>
    <conditionType>script</conditionType>
    // entity or script or boolean
    <supa-script>
      <supa-script-content>
        hasAcceleration(ses)
      </supa-script- content>
      <supa-script-type>
        Python
      </supa-script-type>
      // Python or Perl or any other script
    </supa-script>
  </condition-linkThreshold>
</condition-list>
```

SUPA Data Model snippet using XML

```
service-name="ses"
// input: service-name, type: string
// output: enhancement, type: string or None if no enhance
def queryEnhanceinCapability(service-name):
  for i in range(len(capability-models)):
    if getServiceName(capability-models[i]) == service-name:
      return getEnhance(capability-models[i])
    return None

// input: service-name, type: string
// output: True/False, type: boolean
def hasAcceleration(service-name):
  if queryEnhanceinCapability(service-name) == None:
    return False
  else: return True
```

Python script; capability-models to be defined

Data model example using Yang augment

```
augment "/supa:supa-policy/supa:supa-policy-statement/supa:event- list" {
      leaf my-event{
                description "customized event";
                type bool;  } }
augment "/supa:supa-policy/supa:supa-policy- statement/supa:condition-list" {
      container my-condition{
                description "The bandwidth threshold, unit is Mbps";
                type uint32;  }  }
```

Augment

```
<supa-policy-statement>
      <event-list>
            <event-name> ..... </event-name>  // other events
            <mymodel:my-event> true </mymodel:my-event> // added event
      </event-list>
</supa-policy-statement>
```

Use of augment

Next Steps

- Alignment with the matured information model and/or data model developed in other I-Ds of SUPA

- Can it be adopted as WG draft?

Thanks!