Applicability of SUPA

draft-vadrevu-supappplication-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

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

```python
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

def hasAcceleration(service-name):
    if queryEnhanceinCapability(service-name) == None:
        return False
    else: return True
```

SUPA Data Model snippet using XML

```xml
<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>
```
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; }
}
```

```
<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>
```
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!