

draft-vadrevu-supra-applicability

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Updates

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

Data model example 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

```
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
```

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; } }
```

Augmen
t

```
<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
augmen
t

Next Step

- Improvement based on future information model and/or data model update
- Adopt as WG item?