

SCIM Devices

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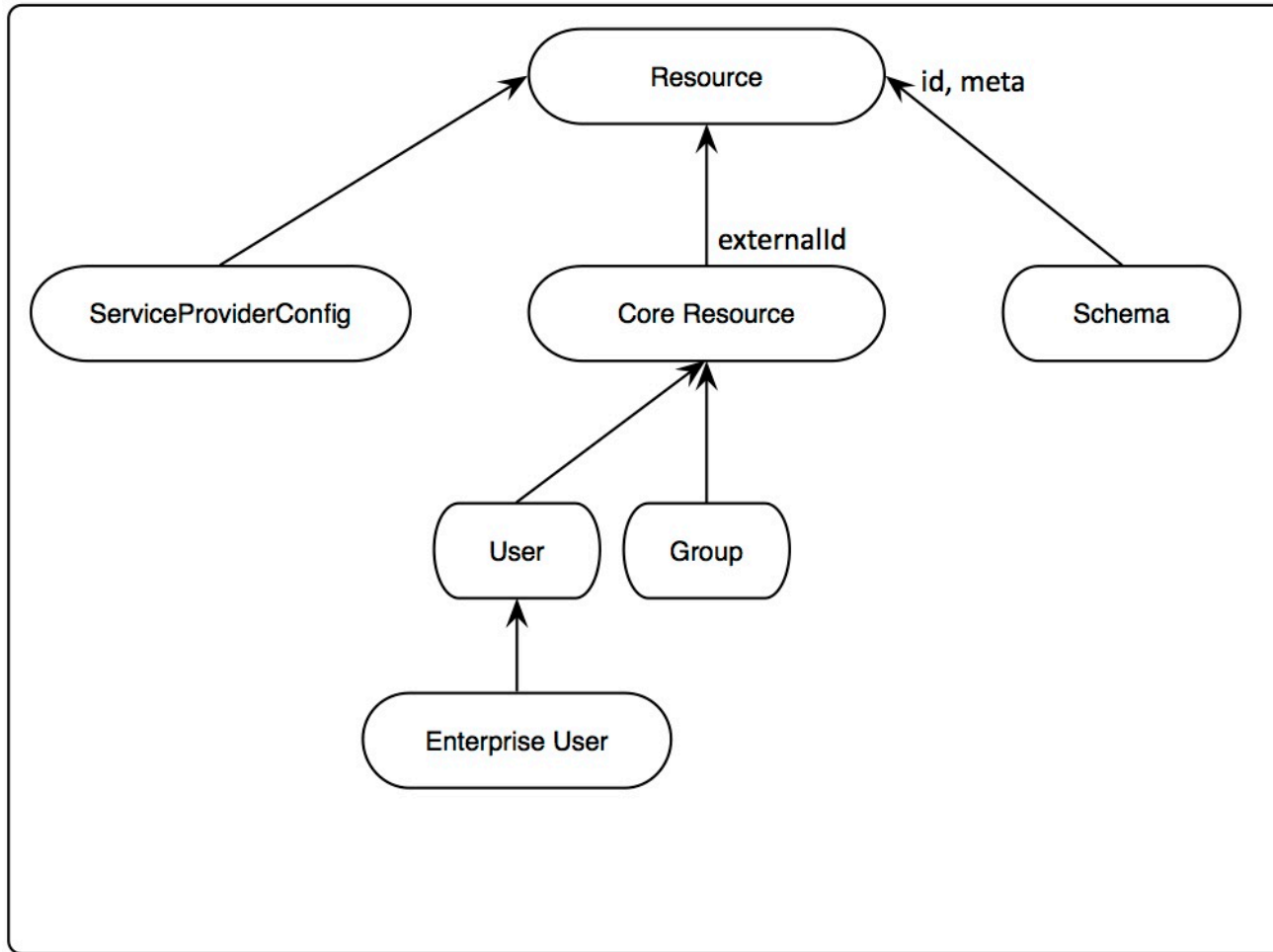
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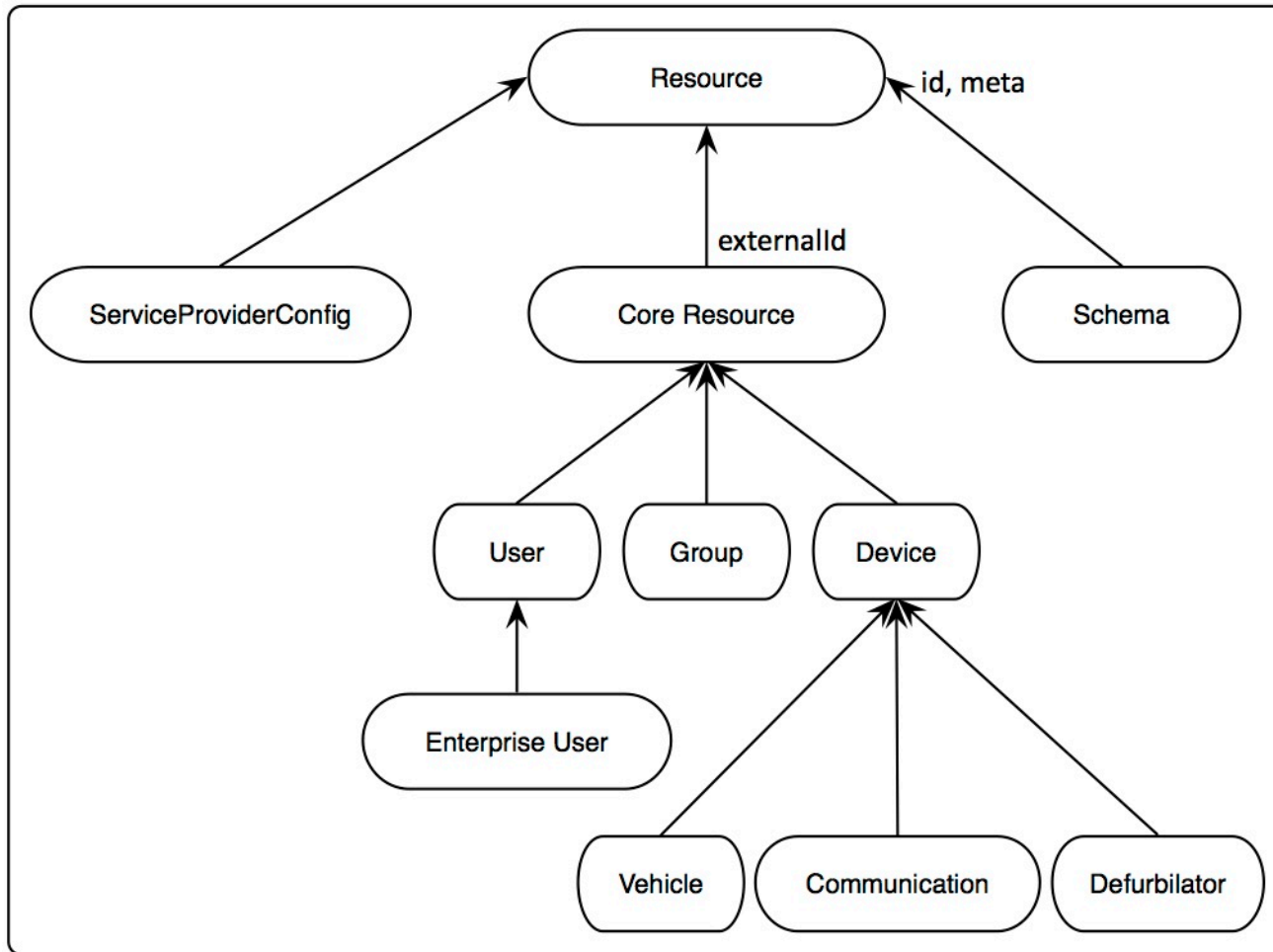
Introduction

- “Device” provisioning and life cycle management seem to be a common need
- Devices range from lowest level sensor to large industrial robots
- Is there enough value to model this?

Schema Model



Schema Model



Device Resource Type

- New endpoint:

/Devices

```
{  
  "schemas": ["urn:ietf:params:scim:schemas:core:2.0:ResourceType"],  
  "id": "Device",  
  "name": "Device",  
  "endpoint": "/Devices",  
  "description": "Device",  
  "schema": "urn:ietf:params:scim:schemas:core:2.0:Device",  
  "meta": {  
    "location": "https://example.com/v2/ResourceTypes/Device",  
    "resourceType": "ResourceType"  
  }  
}
```

- New schema:
 - Core device schema
 - Type specific device extensions

Core Device Schema

Attributes:

id – required

deviceName – required

meta – required

externalId – optional

owner – optional

administrators – optional

type – optional

capabilities – optional

location – optional

Communications Device Extension

- **Attributes**

Identifier {

 type – optional

 value – optional

}

manufacturer – optional

modelName – optional

serialNumber – optional

phoneNumber – optional

Example

```
{
  "schemas":
    ["urn:ietf:params:scim:schemas:core:2.0:Device"],
  "urn:ietf:params:scim:schemas:extension:communication"],
  "id": "2819c223-7f76-453a-919d-413861904646",
  "externalId": "701984",
  "deviceName": "123-456-7890",
  "type": "Communication",
  "owner": "Morteza Ansari"
  "administrator": [
    {
      "value": "e9e30dba-f08f-4109-8486-d5c6a331660a",
      "$ref": "https://example.com/v2/Users/e9e30dba-
f08f-4109-8486-d5c6a331660a",
      "display": "Admin1"
    },
    {
      "value": "fc348aa8-3835-40eb-a20b-c726e15c55b5",
      "$ref": "https://example.com/v2/Groups/
fc348aa8-3835-40eb-a20b-c726e15c55b5",
      "display": "IT Team"
    }
  ],
  "capabilities": [
    "audio",
    "video",
    "alphaInput",
    "digitInput"
  ],
  {"urn:ietf:params:scim:schemas:extension:communication":
  {
    "phoneNumber": "+1-123-456-7890",
    "manufacturer": "Example.com",
    "modelName": "Phone123",
    "serialNumber": "701984",
    "identifier": [{
      "type": "facetime"
      "value": "foo@example.com"
    }]
  },
  "meta": {
    "resourceType": "Device",
    "created": "2010-01-23T04:56:22Z",
    "lastModified": "2011-05-13T04:42:34Z",
    "version": "W\\"a330bc54f0671c9\"",
    "location": "https://example.com/v2/Devices/
2819c223-7f76-453a-919d-413861904646"
  }
}
```

Discussion

- Questions:
 - Is there value in publishing this as informational?
 - Does the working group want to adopt Device definition as a WG item?