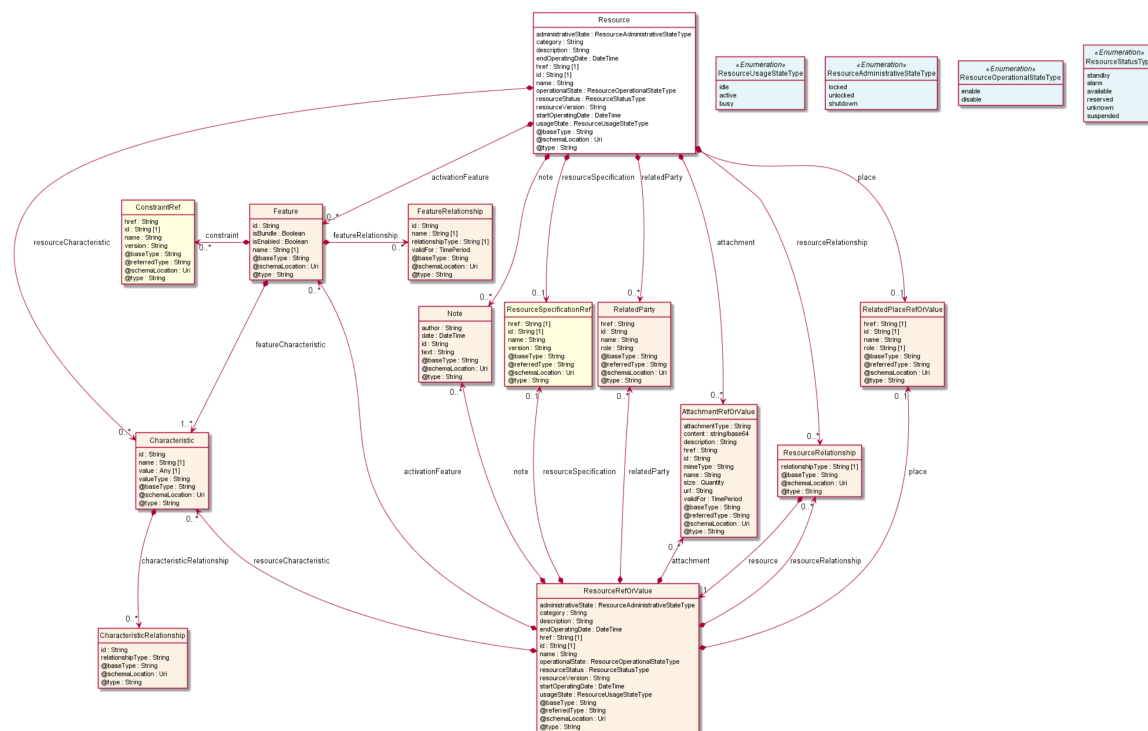


# TMF639 - Resource Inventory mapping

## Resource resource

Resource is an abstract entity that describes the common set of attributes shared by all concrete resources (e.g. TPE, EQUIPMENT) in the inventory.

## Resource model



Nuiva Resource Attribute → TMF Resource API Attribute

## Direct Mappings to TMF Resource Fields

- Router name → **name**
- Status → **operationalState** or **administrativeState**
- Insert Date, Update Date → Might be managed via the lifecycle tracking in TMF, or could be custom **Characteristic** if lifecycle dates are not covered.
- Provisioned Date → **startOperatingDate**
- Decommission Date → **endOperatingDate**
- Description → **description**

## Mappings to **Characteristic** or **Feature**

Characteristics are typically used for properties that are important to define the resource but are not standard attributes of the resource entity. Features might represent capabilities or configurations that can be enabled or disabled.

- **Site ID, Site Name** → Could be included as **RelatedPlaceRefOrValue** if you are linking to a specific place entity ( Could be part of **place.id** or **place.href** and **place.name** if you use the Place entity to represent sites.), otherwise a **Characteristic** .
- **Router Type, Type Category** → Could be a **Characteristic** if specific categorization is needed beyond the standard **type** .
- **ETH\_VC\_Mapping** → Likely a **Characteristic** describing how Ethernet Virtual Connections are mapped.
- **Is TunnelNode** → Could be a **Feature** indicating whether the router functions as a tunnel node.
- **Total power, Power Threshold percentage** → **Characteristics** related to power management.
- **BEP Type** → **Characteristic** for specific type designations.
- **MEN Ring** → A **Feature** or **Characteristic** depending on how it impacts resource functionality.
- **Contact person land phone, Contact person mobile phone** → Could go under **RelatedParty.contactMedium** if parties are managed as resources.
- **Service Cost, Net Book Value, Unit Price** → Financial **Characteristics** .
- **Co-located with** → Could be modeled as a **ResourceRelationship** if referring to co-location with other resources.
- **End of Life Date, Last Audit Date, RD\_PREPARED\_BY\_DATE\_KEY** → All could be custom **Characteristics** .
- **RAM, CPU** → **Characteristics** detailing hardware specifications.
- **Date of Manufacturer, In Stock Date** → **Characteristics** about manufacturing and stock management.
- **Active\_InActive\_Status** → Could align with **operationalState** .
- **SerialNumber** → Typically a direct attribute, but can be a **Characteristic** if not standard.
- **Additional Height, Relocation Status, Revision Number** → All as **Characteristics** .
- **LOCATION\_PHOTO\_KEY** → Could be an **Attachment** if it refers to a digital image or file.

## Use of Related Entities

- **Place** and **RelatedPlaceRefOrValue** - If you are referencing locations (like sites where routers are installed), these might be linked via **place** attributes or

RelatedPlaceRefOrValue.



For more details check the TMF639 documentation :

[TMF639 - Resource Inventory Management API User Guide](#)

## TMF - Json representation sample

Json representation of an example of a '**Resource**' resource object

```
{
  "id": "8044",
  "href": "http://server:port/resourceInventoryManagement/resource/8044",
  "description": "This is a MSISDN resource with the category Premium and with a reserved resourceStatus for organisations.",
  "category": "Premium",
  "value": "0170112231",
  "endOperatingDate": "2022-07-04T08:00.000Z",
  "name": "MobileNumber xx",
  "administrativeState": "locked",
  "operationalState": "enable",
  "usageState": "active",
  "resourceStatus": "reserved",
  "relatedParty": [
    {
      "href": "https://server:port/tmf-api/partyManagement/v4/individual/456",
      "id": "456",
      "name": "John Doe",
      "role": "user",
      "@referredType": "Individual"
    }
  ],
  "note": [
    {
      "text": "something about this resource"
    }
  ]
}
```

```

        }
    ],
    "place": {
        "id": "9912",
        "href": "https://host:port/geographicAddressManagement/v
4/geographicAddress/9912",
        "@type": "PlaceRef",
        "@referredType": "GeographicAddress"
    },
    "resourceRelationship": [
        {
            "relationshipType": "contains",
            "resource": {
                "id": "44",
                "href": "http://server:port/resourceInventoryManagem
ent/resource/44"
            }
        }
    ],
    "resourceSpecification": {
        "id": "4",
        "href": " http://server:port/resourceCatalogManagement/r
esourceSpecification/4",
        "@referredType": "LogicalResourceSpecification"
    },
    "startOperatingDate": "2020-03-04T00:00.000Z",
    "version": "business v2",
    "@type": "MSISDN",
    "@schemaLocation": "http://server:port/MSISDN_Resource.schema.js
on",
    "@baseType": "Resource"
}

```