拟态网关的系统运管接口

网关配置

动态IP地址初始化配置

- 命令字

```
PUT
```

- URL

```
http://[ODL-IP]:8181/restconf/config/dip-config:mtd-config
```

[ODL-IP]为控制器的IP地址

- JSON格式数据

```
{
    "mtd-config": {
        "open-external": true,
        "external-address": "192.168.125.123",
        "external-switch": "openflow:1",
        "dns-forward-address": "8.8.8.8",
        "dns-address": "1.1.1.1",
        "external-switch-port": "openflow:1:5",
        "is-mtd-mode": true,
        "external-gateway": "192.168.125.254"
    }
}
```

操作（CRUD）全部（真实）子网

- 命名字

```
GET/PUT/POST/DELETE
```

- URL

```
http://[ODL-IP]:8181/restconf/config/dip-config:subnets
```

- 配置子网的JSON格式数据

```
{
    "subnets": {
        "ip-conf": [
            {
                "rips-id": "subnet",
                "virtual-ip-period": 300,
                "gateway": "100.0.0.254",
                "domain-prefix": "ndsc",
                "end-ip": "100.0.0.200",
                "start-ip": "100.0.0.1",
                "ip-global-period": 6000
            }
        ]
    }
}
```

操作（CRUD）某个（真实）子网

- 命名字

```
GET
```

- URL

```
http://[ODL-IP]:8181/restconf/config/dip-config:subnets/ip-conf/{rips-id}
```

- 配置子网的JSON格式数据

```
{
    "subnets": {
        "ip-conf": [
            {
                "rips-id": "subnet",
                "virtual-ip-period": 300,
                "gateway": "100.0.0.254",
                "domain-prefix": "ndsc",
                "end-ip": "100.0.0.200",
                "start-ip": "100.0.0.1",
                "ip-global-period": 6000
            }
        ]
    }
}
```

获取/修改/删除子网-交换机绑定配置

- 命名字

```
GET、PUT、POST、DELETE
```

- URL

```
http://[ODL-IP]:8181/restconf/config/dip-config:binding
```

- 配置的Json格式

```
{
    "binding": {
        "address-binding": [
            {
                "node": "openflow:1",
                "subnet": "1"
            }
        ]
    }
}
```

获取/修改/删除子网-某个交换机绑定配置

- 命名字

```
GET、PUT、POST、DELETE
```

- URL

```
http://[ODL-IP]:8181/restconf/config/dip-config:binding/address-binding/{node}
```

- JSON格式

```
{
    "binding": {
        "address-binding": [
            {
                "node": "openflow:1",
                "subnet": "1"
            }
        ]
    }
}
```

所有实时会话信息(只读)

- 命令字

```
GET
```

- URL

```
http://[ODL-IP]:8181/restconf/operational/dip-data:flow-sessions-list
```

- JSON格式

```
补充
```

获取某个实时会话信息

- 命名字

```
GET
```

- URL

```
http://[ODL-IP]:8181/restconf/operational/dip-data:flow-sessions-list/flow-session/{id}
```

- Json格式

```
补充?
补充?
```

获取拓扑结构（只读）

- 命名字

```
GET
```

- URL

```
http://[ODL-IP]:8181/restconf/operational/network-topology:network-topology
```

- JSON格式

```
{
    "network-topology": {
        "topology": [
            {
                "topology-id": "flow:1",
                "node": [
                    {
                        "node-id": "openflow:6790944927334401307",
                        "termination-point": [
```

```
                    {
                        "tp-id": "openflow:6790944927334401307:1",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    },
                    {
                        "tp-id": "openflow:6790944927334401307:2",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    },
                    {
                        "tp-id": "openflow:6790944927334401307:3",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    },
                    {
                        "tp-id": "openflow:6790944927334401307:4",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    },
                    {
                        "tp-id": "openflow:6790944927334401307:5",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    },
                    {
                        "tp-id": "openflow:6790944927334401307:6",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    },
                    {
                        "tp-id": "openflow:6790944927334401307:LOCAL",
                        "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes
                    }
                ],
                "opendaylight-topology-inventory:inventory-node-ref": "/opendaylight-inventory:nodes/opendaylight-inve
            }
        ]
    }
    ]
    }
}
```

获取网络节点

- 命名字

```
GET
```

- URL

```
http://[ODL-IP]:8181/restconf/operational/network-topology:network-topology/topology/{topology-id}/node/{node-id}
```

参数说明：

```
{topology-id}：拓扑编号
{node-id}：openflow:1
```

例如： http://[ODL-IP]:8181/restconf/operational/network-topology:network-topology/topology/flow:1/node/openflow:6790944927334401307

- Json格式

```
{
    "node": [
        {
            "node-id": "openflow:6790944927334401307",
            "termination-point": [
                {
                    "tp-id": "openflow:6790944927334401307:1",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
```

```
                },
                {
                    "tp-id": "openflow:6790944927334401307:2",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
                },
                {
                    "tp-id": "openflow:6790944927334401307:3",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
                },
                {
                    "tp-id": "openflow:6790944927334401307:4",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
                },
                {
                    "tp-id": "openflow:6790944927334401307:5",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
                },
                {
                    "tp-id": "openflow:6790944927334401307:6",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
                },
                {
                    "tp-id": "openflow:6790944927334401307:LOCAL",
                    "opendaylight-topology-inventory:inventory-node-connector-ref": "/opendaylight-inventory:nodes/opendayligh
                }
            ],
            "opendaylight-topology-inventory:inventory-node-ref": "/opendaylight-inventory:nodes/opendaylight-inventory:node[o
        }
    ]
}
```

设备物理接口-相关统计信息（补充）

获取网关各物理接口上的流统计信息

- 命令字

```
GET
```

- URL

```
http://[ODL-IP]:8181/operational/......
```

- JSON格式

```
{

}
```

动态路径配置（补充）

功能开关（打开/关闭)、设置跳变周期、最大路径数量

- 命令字

```
PUT
```

- URL

```
http://[ODL-IP]:8181/restconf/......
```

- JSON格式

```
{

}
```

伪装资源初始配置（补充）

能开关（打开/关闭)，伪装资源池接入的端口，IP地址范围

- 命令字

```
PUT
```

- URL

```
http://[ODL-IP]:8181/restconf/......
```

- JSON格式

```
{
    ...
}
```

伪装资源运行配置（k8s接口相关，需要补充）网管补充

蜜罐列表配置

```
增删改查蜜罐类型

包括蜜罐类型、蜜罐名称等
```

蜜罐1配置页面

```
启动数量
蜜罐IP地址段
伪装端口
```

蜜罐2配置页面

```
启动数量
蜜罐IP地址段
伪装端口
```