

## CHALLENGE 1.

GLOBAL OPTION ``-O <FORMAT>`` IN OSMCLIENT TO  
ADAPT OUTPUT FORMAT

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# CHALLENGE 1.

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A new global option `-o`` will be added to `osmclient` to adapt output format

- `osmclient/scripts/osm.py`

```
@click.option(  
    "-o",  
    "--output",  
    help="adapt output format (table, yaml, csv, json, jsonpath)",  
)
```

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The code should be properly written so that all commands use the same call in all the cases:  
`print_output(format, header, rows)`

It would only apply to xxx-show and xxx-list commands

- `osmclient/common/print_output.py`

```
print_output
validate_command_output
```

```
def print_output(format, headers, rows):
    if format == "table": ...
    elif format == "json": ...
    elif format == "csv": ...
    elif format == "yaml": ...
    elif format.startswith("jsonpath="): ...
    else: ...
```

```
def validate_command_output(ctx, param, value):
    allowed_commands = [
        "ns-list",
        "ns-show",
        "vim-list",
        "vim-show",
        "vnf-list",
        "vnf-show",
    ] # List of allowed commands
```

- `osmclient/cli_commands/vnf.py`

```
@click.option(
    "-o",
    default="table",
    is_eager=True,
    callback=print_output.validate_command_output,
    help="adapt the output as table, yaml, csv, json, jsonpath",
)
```

# CHALLENGE 1.

The output formats could be: table, csv, yaml, json, jsonpath (default:table)

- **table:**
  - 'osm vnf-list' or 'osm vnf-list -o table'

vnf id	name	ns id	vnf member index	vnfd name	vim account id	ip address
35ce99bb-547b-4e8d-8c68-c80786452707	-	8f017b2c-95a9-4732-a5ff-33e344063e66	vnf	hackfest_basic-vnf	e0ea9b24-ae2c-4e93-b82c-b7cd6af40009	172.21.248.161
30dfa6b6-b3e1-4543-8409-df940920c402	-	4679cdd8-dd3e-4ec5-ac13-0f5f64d7da53	vnf	hackfest_basic-vnf	e0ea9b24-ae2c-4e93-b82c-b7cd6af40009	172.21.248.12

- **CSV:**
  - osm vnf-list -o csv

```
vnf id,name,ns id,vnf member index,vnfd name,vim account id,ip address
35ce99bb-547b-4e8d-8c68-c80786452707,-,8f017b2c-95a9-4732-a5ff-33e344063e66,vnf,hackfest_basic-vnf,e0ea9b24-ae2c-4e93-b82c-b7cd6af40009,172.21.248.161
30dfa6b6-b3e1-4543-8409-df940920c402,-,4679cdd8-dd3e-4ec5-ac13-0f5f64d7da53,vnf,hackfest_basic-vnf,e0ea9b24-ae2c-4e93-b82c-b7cd6af40009,172.21.248.12
```

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The output formats could be: table, csv, yaml, json, jsonpath (default:table)

- yaml:
  - `osm vnf-list -o yaml`

```
- vnf id: 35ce99bb-547b-4e8d-8c68-c80786452707
  name: '-'
  ns id: 8f017b2c-95a9-4732-a5ff-33e344063e66
  vnf member index: vnf
  vnfd name: hackfest_basic-vnf
  vim account id: e0ea9b24-ae2c-4e93-b82c-b7cd6af40009
  ip address: 172.21.248.161
- vnf id: 30dfa6b6-b3e1-4543-8409-df940920c402
  name: '-'
  ns id: 4679cdd8-dd3e-4ec5-ac13-0f5f64d7da53
  vnf member index: vnf
  vnfd name: hackfest_basic-vnf
  vim account id: e0ea9b24-ae2c-4e93-b82c-b7cd6af40009
  ip address: 172.21.248.12
```

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The output formats could be: table, csv, yaml, json, jsonpath (default:table)

- **json:**

- `osm vnf-list -o json`

```
osm vnf-list -o json
[{"vnf id": "35ce99bb-547b-4e8d-8c68-c80786452707", "name": "-", "ns id": "8f017b2c-95a9-4732-a5ff-33e344063e66", "vnf member index": "vnf", "vnfd name": "hackfest_basic-vnf", "vim account id": "e0ea9b24-ae2c-4e93-b82c-b7cd6af40009", "ip address": "172.21.248.161"}, {"vnf id": "30dfa6b6-b3e1-4543-8409-df940920c402", "name": "-", "ns id": "4679cdd8-dd3e-4ec5-ac13-0f5f64d7da53", "vnf member index": "vnf", "vnfd name": "hackfest_basic-vnf", "vim account id": "e0ea9b24-ae2c-4e93-b82c-b7cd6af40009", "ip address": "172.21.248.12"}]
```

- **jsonpath:**

- `osm vnf-list -o jsonpath="[*].['ip address']"`

```
['172.21.248.161', '172.21.248.12']
```



# CHALLENGE 1.

All sanity tests should pass. Nothing is broken.

- `./devops-stages/stage-test.sh`

```
black: OK (6.66=setup[0.20]+cmd[6.46] seconds)
cover: OK (29.53=setup[8.04]+cmd[0.03,0.93,16.34,1.22,1.35,1.62] seconds)
flake8: OK (12.16=setup[7.52]+cmd[4.65] seconds)
pylint: OK (52.99=setup[8.26]+cmd[44.73] seconds)
safety: OK (12.70=setup[7.98]+cmd[4.72] seconds)
congratulations :) (53.52 seconds)
```

- Pushing changes to Gerrit.

Author [hernandezchu <chernandez@cttc.es>](#)  
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Commit 8e75356535bf874f3a846980cb03f78fb0847723  
Parent(s) fca1247748bdd66f7d461ad7f03be260ef1e9e18  
Change-Id I1135848fe16082218739036bc21be594f0808b31

Jun 14, 2023 5:20 PM  
Jun 15, 2023 6:16 PM



Code-Review

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