



# Sample VNF Rack and VNF Descriptor Configuration File

As described in [Configure the VNF Rack and the VNF Descriptors](#), VNF rack configuration parameters are contained in the VIM Artifact Descriptor (VIM-ArtifactD) while VNF configuration parameters are contained in the VNF descriptor (VNFD).



## Caution

This is only a sample configuration file provided solely for your reference. You must create and modify your own configuration file according to the specific needs of your deployment.

```
uas-mode generic
uas-instance autoit
  external-connection-point 172.21.201.68
  scm                        scm
!
nsd fremont-autovnf
vim-identity viml
vim-artifact vim_artifact_one
vnf-package [ usp_5_7 ]
require     [ autoit ]
vld mgmt
  vl-type      management
  network-instance abc-mgmt1
!
vld orch
  vl-type      orchestration
  network-instance autoit-abc-orch1
!
vld service
  vl-type service
  network service1
!
vnfd esc
  vnf-type      esc
  version       6.0
  high-availability true
  configuration openstack.endpoint publicURL
  configuration secure-login false
  configuration boot-time 1800
  configuration set-vim-instance-name true
  external-connection-point esc
  aggregate-connection-point eth0
  floating-ip disabled
```

```

!
vnfc esc
  health-check disabled
  health-check boot-time 300
  vdu vdu-id esc
  aggregate-connection-point eth0
    virtual-link service-vl mgmt
  !
  aggregate-connection-point eth1
    virtual-link service-vl orch
  !
!
!
vnfd vpc
  vnf-type          ugp
  version           6.0
  high-availability true
  vnfm vnfd esc
  configuration internal-network-mtu 1500
  configuration boot-time 1800
  configuration domain-name cisco.com
  configuration set-vim-instance-name true
  configuration dns-server 1.1.1.1
  !
  vld di_internal
    network-instance di-internall
  !
  external-connection-point cf
    aggregate-connection-point eth1
    floating-ip disabled
  !
  external-connection-point em
    aggregate-connection-point eth0
    floating-ip disabled
  !
vnfc em
  health-check enabled
  health-check probe-frequency 10
  health-check probe-max-miss 6
  health-check retry-count 6
  health-check recovery-type restart-then-redeploy
  health-check boot-time 300
  vdu vdu-id em
  number-of-instances 2
  aggregate-connection-point eth0
    virtual-link service-vl mgmt
  !
  aggregate-connection-point eth1
    virtual-link service-vl orch
  !
!
!
vnfc cf
  health-check enabled
  health-check probe-frequency 10
  health-check probe-max-miss 6
  health-check retry-count 6
  health-check recovery-type restart-then-redeploy
  health-check boot-time 300
  vdu vdu-id cf
  number-of-instances 1
  aggregate-connection-points ab
    aggregate-connection-point eth0
  !
  aggregate-connection-point eth1

```

```
!
!
aggregate-connection-point eth0
  virtual-link internal-vl di_internal
!
aggregate-connection-point eth1
  virtual-link service-vl mgmt
!
aggregate-connection-point eth2
  virtual-link service-vl orch
!
!
vnfc sf
  health-check enabled
  health-check probe-frequency 10
  health-check probe-max-miss 6
  health-check retry-count 6
  health-check recovery-type restart-then-redeploy
  health-check boot-time 300
  vdu vdu-id sf
  number-of-instances 2
  aggregate-connection-point eth0
    virtual-link internal-vl di_internal
  !
  aggregate-connection-point eth1
    virtual-link service-vl orch
  !
  aggregate-connection-point eth2
    virtual-link service-vl service
  !
!
!
nsd autoit
  vim-identity vim1
  vim-artifact vim_artifact_one
  vnf-package [ usp_5_7 ]
  vld mgmt
    vl-type          management
    network-instance abc-mgmt2
  !
  vld mgmt1
    vl-type          management
    network-instance abc-mgmt1
  !
  vld orch
    vl-type          orchestration
    network-instance abc-orch
  !
  vld orch1
    vl-type orchestration
    network abc-orch1
  !
vnfd autovnf2
  vnf-type          usp-uas
  version           6.0
  high-availability true
  deploy-nsd       fremont-autovnf
  configuration boot-time 1800
  configuration set-vim-instance-name true
  external-connection-point avf1
    aggregate-connection-point eth0
  floating-ip enabled
  floating-ip ip-address 172.21.201.65
```

```

    floating-ip external-network public
  !
vnfc avf1
  health-check disabled
  health-check boot-time 300
  vdu vdu-id autovnf
  aggregate-connection-point eth0
    virtual-link service-vl mgmt1
  !
  aggregate-connection-point eth1
    virtual-link service-vl orch1
  !
!
!
vnfd f-autovnf
  vnf-type      usp-uas
  version       6.0
  high-availa aggregate-bility true
  deploy-nsd    bgl26-autovnf
  configuration boot-time 1800
  configuration set-vim-instance-name true
  external-connection-point avf
  aggregate-connection-point eth0
  floating-ip enabled
  floating-ip ip-address 172.21.201.69
  floating-ip external-network public
!
vnfc avf
  health-check disabled
  health-check boot-time 300
  vdu vdu-id autovnf
  aggregate-connection-point eth0
    virtual-link service-vl mgmt
  !
  aggregate-connection-point eth1
    virtual-link service-vl orch
  !
!
!
nsd bgl26-autovnf
  vim-identity vim1
  vim-artifact vim_artifact_one
  vnf-package [ usp_5_7 ]
  require     [ autoit ]
vld mgmt
  vl-type      management
  network-instance abc-mgmt2
!
vld orch
  vl-type      orchestration
  network-instance abc-orch
!
vld service
  vl-type service
  network servicel
!
vnfd esc
  vnf-type      esc
  version       6.0
  high-availability true
  configuration openstack.endpoint publicURL
  configuration secure-login false
  configuration boot-time 1800

```

```
configuration set-vim-instance-name true
external-connection-point esc
aggregate-connection-point eth0
floating-ip disabled
!
vnfc esc
health-check disabled
health-check boot-time 300
vdu vdu-id esc
aggregate-connection-point eth0
virtual-link service-vl mgmt
!
aggregate-connection-point eth1
virtual-link service-vl orch
!
!
!
vnfd vpc
vnf-type          ugp
version           6.0
high-availability true
vnfm vnfd esc
configuration internal-network-mtu 1500
configuration boot-time 1800
configuration domain-name cisco.com
configuration set-vim-instance-name true
configuration dns-server 1.1.1.1
!
vld di_internal
network-instance di-internal2
!
external-connection-point cf
aggregate-connection-point eth1
floating-ip disabled
!
external-connection-point em
aggregate-connection-point eth0
floating-ip disabled
!
vnfc em
health-check enabled
health-check probe-frequency 10
health-check probe-max-miss 6
health-check retry-count 6
health-check recovery-type restart-then-redeploy
health-check boot-time 300
vdu vdu-id em
number-of-instances 2
aggregate-connection-point eth0
virtual-link service-vl mgmt
!
aggregate-connection-point eth1
virtual-link service-vl orch
!
!
vnfc cf
health-check enabled
health-check probe-frequency 10
health-check probe-max-miss 6
health-check retry-count 6
health-check recovery-type restart-then-redeploy
health-check boot-time 300
vdu vdu-id cf
number-of-instances 1
```

```

aggregate-connection-point eth0
  virtual-link internal-vl di_internal
!
aggregate-connection-point eth1
  virtual-link service-vl mgmt
!
aggregate-connection-point eth2
  virtual-link service-vl orch
!
!
vnfc sf
  health-check enabled
  health-check probe-frequency 10
  health-check probe-max-miss 6
  health-check retry-count 6
  health-check recovery-type restart-then-redeploy
  health-check boot-time 300
  vdu vdu-id sf
  number-of-instances 2
  aggregate-connection-point eth0
    virtual-link internal-vl di_internal
  !
  aggregate-connection-point eth1
    virtual-link service-vl orch
  !
  aggregate-connection-point eth2
    virtual-link service-vl service
  !
!
!
!
secure-token login
  user      $8$tD/aXNp7XB9mZPRz9AwU0QOBqEx6UViBsXr7iApIKo=
  password  $8$K7sEXpYcu2s9JkKE+LzaDOWSavKXbMRGY1lWwYzXwUM=
!
secure-token scm-admin
  user      $8$2T5dBLixl7IBriq6t08owbp5e8Qa4WRzpyjdUYxtLA8=
  password  $8$FoFj/y6kTROB45idsPQbTUKh3U1SDLJZFVsofsUrCog=
!
secure-token scm-oper
  user      $8$Z1zYrUHSYqEB1qYlgBC67RBVCOpdRQFc5BHCac7raA=
  password  $8$PUngBUVSlGA95Bf3e9hg4o53y8RdmzU6zZYQI+2+Lag=
!
secure-token scm-security
  user      $8$NECfIqKrocobgh4aq5kzbW2MDLy+Ljehf6akGW4w7oU=
  password  $8$YzBR/inUnTxLq9Y95w2KYB4RnwWqx1lqEx1GpunV0ao=
!
secure-token em_login
  user      $8$N9RGEfjhuP15AL5E7okfG/ixBJW59U1FNxoAztDURpI=
  password  $8$bV0tB3TkvQE+wQPr69kb87kDi/2e8N8EupyETgFj3ls=
!
secure-token staros
  user      $8$J+fJxpD6GLwBJvbr26SHQC1K5KBY9QoWPoSeyEGTCJ8=
  password  $8$SUr9lr5br+pkkl6soDBZDiO5Fq6kBr12UNDHbkO8Ek8=
!
secure-token esc_netconf
  user      $8$ei4o1Fuh+SLHXBAyfZYiUB4T4ks3Py4XVCfAGE5XQ38=
  password  $8$Gyk22igyv/RtLI3qNE6n75pl2VGEwNIrhLoeJufMMe0=
!
secure-token esc_login
  user      $8$Vay8ILaZXOvB3/eI2k07jAy1cbaFkzDKdknU4UOYzdY=
  password  $8$Xv4tnGZw2IBsYoy+dOKMANqWubhGr5CZ8Raa0tnRJ9M=
!
secure-token cf_login

```

```

user      $8$Z11UTKyTfsMQSgLwUcsJMUm4d3u92iMJHpbjHc+F9E=
password $8$lTOGXihOulMnIr5dYaZxkakaZDR3eHlId/2lQrz7NUw=
!
secure-token cimc
user      $8$34TyySpewxUS/bmY2HuIPYDaUm3STAtKb5bq6Xek0BI=
password $8$m5mmAmKbxZ+93H/iqqsMV5M+jLCGmPeUX8XQivk2ncE=
!
secure-token stack
user      $8$62QNFQ807mU5t3yr3BVhbUtQNF/pOyEwbhp3zws0xqE=
password $8$rPNYsenkANegQt0uLzlxjkIiD3SVvQyGcMTOWGnPx88=
!
secure-token ssh-baremetal
user      $8$8D27WujADEbJ8NkxF6V5c72BWSpqbzcZR46sQm2irio8=
password $8$mTiooRQcT9ATWX93tYSwp4De7NwQMLBIgad4TnpRNLo=
!
secure-token vim-admin-creds
user      $8$QcFLMEKX5vr+B6fltJwXwk4eIOE4pdhzwoViU0ktWMM=
password $8$9GhEGCcGLRKMNYSlq//NvgCD29BHFw5XLvxsczvQ4ig=
!
secure-token sjc-core
user      $8$f/kleaYoXE80eji30o10EYb+sAmxYuxG+6P9/tFG9eE=
password $8$/h/BNL5lnN2Hro5cH3o1AZSUYlrmrjD/ey5FwUJHjTlg=
!
secure-token os_admin
user      $8$LQ3QLGRu1ERpxBlifIfvEj6Y6dio8Zlokq2NXZpHWRU=
password $8$cCd78NeeuGcLnPXLJgV1LH4HaRDPVa/9ZBFK7smIUZA=
!
secure-token oc_admin
user      $8$d5cKBUSsyQGWEiG3mN10Yl0u7b2+ivTaxjRIHnymU=
password $8$s00NJU8Bz7nLfn80zkTZKhx3JVJQqnhG74pOnKiJ2b4=
!
secure-token uc_admin
user      $8$TRLlU1rbO7Y5lgx/i5UksEMhkb9fxKQLy8scQKNjci0=
password "$8$Pp4gMWUjzsmvpZCPLWTjWhP0xyhM/9P3dnUZrwJCoheUuybXvtiUbh9dj17ef9305YKgE28w\nZIolojut23wffa=="
!
scm scm
admin    scm-admin
oper     scm-oper
security scm-security
!
vnf-packaged usp_5_7
location /home/ubuntu/usp-6_0_M0-2896.iso
validate-signature true
configuration staros
  external-url /home/ubuntu/system.cfg
!
!
vnf-packaged usp_5_8
checksum 7e04ea370775ecedf85debe4f43cd576
location /root/usp-5_8_M0-2720.iso
validate-signature true
configuration staros
  external-url /root/system.cfg
!
!
vdu esc
vdu-type cisco-esc
login-credential esc_login
netconf-credential esc_netconf
image vnf-package usp_5_7
vnf-rack vnf-rack1
vnf-package usp_5_7
flavor vcpus 2

```

```

flavor ram      4096
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
flavor host-aggregate rack1
!
vdu em
vdu-type      element-manager
login-credential em_login
scm           scm
image vnf-package usp_5_7
vnf-rack      vnf-rack1
vnf-package   usp_5_7
flavor vcpus  2
flavor ram    4096
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
!
vdu cf
vdu-type      control-function
login-credential cf_login
image vnf-package usp_5_7
vnf-rack      vnf-rack1
vnf-package   usp_5_7
flavor vcpus  8
flavor ram    16384
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
ned netconf
  ned-id      cisco-staros-nc
  port-number 830
  authentication staros
!
configuration staros_config.txt
  apply-at day-zero
  package staros
!
volume boot cf-boot
volume storage cf-cdr
!
!
vdu sf
vdu-type      session-function
image vnf-package usp_5_7
vnf-rack      vnf-rack1
vnf-package   usp_5_7
flavor vcpus  4
flavor ram    16384
flavor root-disk 6
flavor ephemeral-disk 0
flavor swap-disk 0
upp cores     10
upp crypto-cores 0
upp service-mode vpc
upp disable-mcdma false
upp disable- numa false
!
vdu autovnf
vdu-type      automation-service
login-credential login
scm           scm
image vnf-package usp_5_7

```



```
vnf-rack          vnf-rack1
vnf-package       usp_5_7
flavor vcpus     2
flavor ram       4096
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
flavor host-aggregate rack1
!
volume cf-boot
  type            LUKS
  size            4
  bus             ide
  bootable        true
  preserve-on-upgrade false
!
volume cf-cdr
  type            LUKS
  size            16
  bus             ide
  bootable        false
  preserve-on-upgrade false
!
network orchestration
  ip-prefix       13.11.22.0/24
  type            vlan
  dhcp            true
  gateway         13.11.22.1
  router          main
!
network xyz-fmnt
  ip-prefix       13.22.10.0/24
  type            vlan
  dhcp            true
  gateway         13.22.10.1
!
network xyz-vpc-svc
  ip-prefix       22.12.11.0/24
  type            vlan
  dhcp            true
!
network sjc-orch
  ip-prefix       10.2.3.0/24
  type            vlan
  dhcp            true
  gateway         10.2.3.1
!
network servicel
  ip-prefix       15.15.15.0/24
  type            vlan
  dhcp            true
!
network abc-orch1
  ip-prefix       33.33.33.0/24
  type            vlan
  dhcp            true
  gateway         33.33.33.1
!
vnf-rackd vnf-rack1
  host-aggregate rack1
  host tblano-compute-0.localdomain
  !
  host tblano-compute-1.localdomain
  !
```

```
host tblano-compute-10.localdomain
!
host tblano-compute-11.localdomain
!
host tblano-compute-12.localdomain
!
host tblano-compute-13.localdomain
!
host tblano-compute-14.localdomain
!
host tblano-compute-15.localdomain
!
host tblano-compute-2.localdomain
!
host tblano-compute-3.localdomain
!
host tblano-compute-4.localdomain
!
host tblano-compute-5.localdomain
!
host tblano-compute-6.localdomain
!
host tblano-compute-7.localdomain
!
host tblano-compute-8.localdomain
!
host tblano-compute-9.localdomain
!
host tblano-osd-compute-0.localdomain
!
host tblano-osd-compute-1.localdomain
!
host tblano-osd-compute-2.localdomain
!
!
vim vim1
api-version v2
auth-url http://172.21.201.218:5000/v2.0
user vim-admin-creds
tenant test
!
network-instance xyz-autovnf-d-ua-management
ip-prefix 30.30.61.0/24
type vlan
dhcp true
gateway 30.30.61.1
!
network-instance autoit-abc-orch1
ip-prefix 33.33.33.0/24
type vlan
dhcp true
gateway 33.33.33.1
!
network-instance abc-mgmt
ip-prefix 32.32.32.0/24
type vlan
dhcp true
gateway 32.32.32.1
!
network-instance abc-mgmt1
ip-prefix 34.34.34.0/24
type vlan
dhcp true
```

```
    gateway 34.34.34.1
    !
network-instance abc-mgmt2
  ip-prefix 35.35.35.0/24
  type      vlan
  dhcp      true
  gateway   35.35.35.1
  !
network-instance abc-orch
  ip-prefix 31.31.31.0/24
  type      vlan
  dhcp      true
  gateway   31.31.31.1
  !
network-instance di-internal1
  ip-prefix 192.168.1.0/24
  type      sriov-flat
  dhcp      true
  vlan-tag  true
  vlan      2116
  !
network-instance di-internal2
  ip-prefix 192.168.2.0/24
  type      sriov-flat
  dhcp      true
  gateway   192.168.2.1
  vlan-tag  true
  vlan      2111
  !
vim-artifactd vim_artifact_one
  vnf-rack [ vnf-rack1 ]
  !
```

