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 vim1
 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-internal1
 !
 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 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-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/y6kTROB45idsPQbTUKh3UlSDLJZFVsofsUrCog=
           !
           secure-token scm-oper
            user     $8$Z1zYrUHSDYqEB1qYlgBC67RBVCOpdRQFc5BHCac7raA=
            password $8$PUngBUVSlGA95Bf3e9hg4o53y8RdmzU6zZYQI+2+Lag=
           !
           secure-token scm-security
            user     $8$NECfIqKrocobgh4aq5kzbW2MDLy+Ljehf6akGW4w7oU=
            password $8$YzBR/inUnTxLq9Y95w2KYB4RnwWqxllqEx1GpunV0ao=
           !
           secure-token em_login
            user     $8$N9RGEfjhuPl5AL5E7okfG/ixBJW59U1FNxoAztdUrpI=
            password $8$bV0tB3TkvQE+wQPr69kb87kDi/2e8N8EupyETgFj3ls=
           !
           secure-token staros
            user     $8$J+fJxpD6GLwBJvbR26SHQClK5KBY9QoWPoSeyEGTCJ8=
            password $8$SUr9lr5br+pkkl6soDBZDiO5Fq6kBrl2UNDHbkO8Ek8=
           !
           secure-token esc_netconf
            user     $8$ei4o1Fuh+SLHXBAyfZYiUB4T4ks3Py4XVCfAGE5XQ38=
            password $8$Gyk22igyv/RtLI3qNE6n75pl2VGEwNIrhLoeJufMMe0=
           !
           secure-token esc_login
            user     $8$Vay8ILaZXOvB3/eI2k07jAy1cbaFkzDKdknU4UOYzdY=
            password $8$Xv4tnGZw2IBsYoy+d0KMANqWubhGr5CZ8Raa0tnRJ9M=
           !
           secure-token cf_login
```

```
 user     $8$Z11UTKyTfsMQSgLwUcsJMUmr4d3u92iMJHpbjHc+F9E=
 password $8$lTOGXihOulMnIr5dYaZxkakaZDR3eHlId/2lQrz7NUw=
!
secure-token cimc
 user     $8$34TyySpewxUS/bmY2HuIPYDaUm3STAtKb5bq6Xek0BI=
 password $8$m5mmAmKbxZ+93H/iqqsMV5M+jLCGmPeUX8XQivk2ncE=
!
secure-token stack
 user     $8$62QNFQ8O7mU5t3yr3BVhbUtQNF/pOyEwbhp3zwS0xqE=
 password $8$rPNYsenkANEgQt0uLz1xjkIiD3SVvQyGcMTOWGnPx88=
!
secure-token ssh-baremetal
 user     $8$8D27WujADEbJ8NkxF6V5c72BWSpqbcZR46sQm2irio8=
 password $8$mTiooRQcT9ATWX93tYSwp4De7NwQMLBIgad4TnpRNLo=
!
secure-token vim-admin-creds
 user     $8$QcfLMEKX5vr+B6fltJwXwk4eIOE4pdhzwoViU0ktWMM=
 password $8$9GhEGCcGLRKMNYSlq//NvgCD29BHfW5XLvxsczvQ4ig=
!
secure-token sjc-core
 user     $8$f/kleaYoXE8Oeji30o10EYb+sAmxYuxG+6P9/tFG9eE=
 password $8$/h/BNL5lnN2Hro5cH3o1AZSUYlmRjD/ey5FwUJHjTlg=
!
secure-token os_admin
 user     $8$LQ3QLGRu1ERpxB1ifIfvEj6Y6dio8Z1okq2NXZpHWRU=
 password $8$cCd78NeeuGcLnPXLJgV1LH4HaRDPVa/9ZBfK7smIUZA=
!
secure-token oc_admin
 user     $8$+d5cKBUSsyQGWEDiG3mN10Yl0u7b2+ivTaxjRIHnymU=
 password $8$sO0NJU8Bz7nLFn80zkTZKhx3JVJQqnhG74pOnKiJ2b4=
!
secure-token uc_admin
 user     $8$TRLlUlrbO7Y5lgx/i5UksEMhkb9fxKQLy8scQKNjci0=
 password
"$8$Pp4gMWUjzsmvpZCPLWTjWhP0xyhM/9P3dnUZrwJCoheUuybXvtiUbh9dj17ef93O5YKgE28w\nZIo1ojut23wffA=="
!
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 service1
 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 tb1ano-compute-0.localdomain
  !
  host tb1ano-compute-1.localdomain
  !
```

```
         host tb1ano-compute-10.localdomain
         !
         host tb1ano-compute-11.localdomain
         !
         host tb1ano-compute-12.localdomain
         !
         host tb1ano-compute-13.localdomain
         !
         host tb1ano-compute-14.localdomain
         !
         host tb1ano-compute-15.localdomain
         !
         host tb1ano-compute-2.localdomain
         !
         host tb1ano-compute-3.localdomain
         !
         host tb1ano-compute-4.localdomain
         !
         host tb1ano-compute-5.localdomain
         !
         host tb1ano-compute-6.localdomain
         !
         host tb1ano-compute-7.localdomain
         !
         host tb1ano-compute-8.localdomain
         !
         host tb1ano-compute-9.localdomain
         !
         host tb1ano-osd-compute-0.localdomain
         !
         host tb1ano-osd-compute-1.localdomain
         !
         host tb1ano-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-autovnfd-uas-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 ]
!
```