



Sample Tenant Configuration File

Sample Configuration File for Single Tenant

As described in [Configure VIM Tenants](#), tenant configuration parameters are contained in the VIM Artifact Descriptor (vim-artifact).



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.

In 6.3, the multi-tenants are supported per VNF but this feature was not fully qualified. It was made available only for testing purposes. You can define multiple tenants according to the specific needs of your deployment. If the configuration file includes more than one tenant, then multiple VNF instances are deployed in different tenants in a single “site” leveraging a single VIM. See the following section for an example configuration for multi-tenants.

```
nsd nsdl
vim-identity vim_one
vim-artifact vim_one_artifact
!
secure-token cimc
user $8$6FMSIVcieTXcXeCV4V37zQlwnoHIA/xNgQFKLmygL0Y=
password $8$y1KOa2J9Qt487Ew8iUxkKbpzzUL3/0Wr0wqxe/KQXdA=
!
secure-token stack
user $8$oeUvS7KN3eThSmvj4S7e9/NT+cxSlfwm2BCRsQKoIcs=
password $8$Ry5Grth2Bc5Vaojx+HgMUVcBPEX69khyC5V8CnkX4LY=
!
secure-token ssh-baremetal
user $8$jwA0KuwOA6a7z9iFoBFGw6Pd+Np6sKhtw/IKX0iFXzc=
password $8$TO5mcj4yPSIpCoQCSG1tcgwg9rZ14WGBavsUnuJ3/5Q=
!
secure-token vim-admin-creds
user $8$WU2Q6jMIKA/C5tozjt/+M3L29heHstM0x68E80RQ6ME=
password $8$prN66xSTFb+5CU4fM2CeJ5BcZnOhxJUibj8/gMxuBMM=
!
secure-token sjc-core
user $8$FwHBMHTaIBE3TZ1cZHb2bizvT0Plej6awh0A2i7yHA=
password $8$OoEwoe7/hJjhjox1SDdJnf81eIO4i+9ZeGIeHlMYNpE=
!
vim vim_one
api-version v2
auth-url http://172.21.203.31:5000/v2.0
user vim-admin-creds
tenant admin
```

```

!
tenantd sjccore
login-credential sjc-core
tenant-role admin
tenant-quota no-of-instances-allowed 10000
tenant-quota no-of-cores-allowed 200000
tenant-quota no-of-injected-files 300000
tenant-quota no-of-injected-files-content-in-bytes 400000
tenant-quota megabytes-of-ram-allowed 500000000
tenant-quota no-of-floating-ips 600
tenant-quota max-no-of-subnets-allowed 700
tenant-quota max-no-of-ports-allowed 8000
tenant-quota no-of-volumes-allowed 900
tenant-quota volumes-allowed-gb 10000
tenant-quota volumes-backup-size-allowed 20000
!
vim-artifactd vim_one_artifact
tenant sjccore
!

```

Sample Multi-tenant Configuration File



Important

In 6.3, the multi-tenant support for VNF was not fully qualified, and was made available only for testing purposes. For more information, contact your Cisco Accounts representative.

You can define the tenants according to the specific needs of your deployment. If the configuration file includes more than one tenant, then multiple VNF instances are deployed in different tenants in a single “site” leveraging a single VIM.



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-instance autoit-sun
external-connection-point 10.105.248.35
scm scm
!
nsd autovnf
vim-identity vim1
vim-artifact vim_artifact_one
vnf-package [ usp_6_3 ]
require [ autoit-sun ]
vld mgmt
vl-type management
network-instance management
!
vld orch
vl-type orchestration
network-instance orchestration
!
vld service
vl-type service
network abc-service
!
vld servicel
vl-type service
network abc-service-1
!

```

```
vnfd vnfd-em
  vnf-type          uem
  version           6.3
  high-availability true
  vnfm vnfd vnfd-esc
  cloud-info vnfm vnfd vnfd-esc
  configuration boot-time 1800
  configuration domain-name cisco.com
  configuration set-vim-instance-name true
  configuration dns-server 1.1.1.1
  !
  external-connection-point vnfc-em
  connection-point eth0
  floating-ip disabled
  !
vnfc 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 vdu-em
  number-of-instances 2
  connection-point eth0
  virtual-link service-vl mgmt
  !
  connection-point eth1
  virtual-link service-vl orch
  !
  !
!
vnfd vnfd-esc
  vnf-type          esc
  version           6.3
  high-availability true
  configuration openstack.endpoint publicURL
  configuration secure-login false
  configuration boot-time 1800
  configuration set-vim-instance-name true
  external-connection-point vnfc-esc
  connection-point eth0
  floating-ip disabled
  !
vnfc vnfc-esc
  health-check disabled
  health-check boot-time 300
  vdu vdu-id vdu-esc
  connection-point eth0
  virtual-link service-vl mgmt
  !
  connection-point eth1
  virtual-link service-vl orch
  !
  !
!
vnfd vnfd-vpcl
  vnf-type          ugp-standalone
  version           6.3
  high-availability true
  cloud-info vnfm vnfd vnfd-esc
  cloud-info vim vim3
  cloud-info vnf-em vnfd vnfd-em
  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_internal1
  network-instance di-internal1
!
vld di_internal2
  network-instance di-internal2
!
external-connection-point vnfc-cf1
  connection-point eth1
  floating-ip disabled
!
vnfc vnfc-cf1
  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 vdu-cf1
  number-of-instances 1
  aggregate-connection-points DI_INTERFACE
    aggregate-connection-point eth0
    !
    aggregate-connection-point eth3
    !
  !
  connection-point eth0
    virtual-link internal-vl di_internal1
  !
  connection-point eth1
    virtual-link service-vl mgmt
  !
  connection-point eth2
    virtual-link service-vl orch
  !
  connection-point eth3
    virtual-link internal-vl di_internal2
  !
!
vnfc vnfc-sf1
  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 vdu-sf1
  number-of-instances 1
  aggregate-connection-points DI_INT
    aggregate-connection-point eth0
    !
    aggregate-connection-point eth3
    !
  !
  connection-point eth0
    virtual-link internal-vl di_internal1
  !
  connection-point eth1
    virtual-link service-vl orch
  !

```

```
connection-point eth2
  virtual-link service-vl service1
!
connection-point eth3
  virtual-link internal-vl di_internal2
!
!
!
vnfd vnfd-vpc3
  vnf-type      ugp-standalone
  version       6.3
  high-availability true
  cloud-info vnm vnfd vnfd-esc
  cloud-info vim vim2
  cloud-info vnf-em vnfd vnfd-em
  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_internal1
  network-instance di-internal1
!
vld di_internal2
  network-instance di-internal2
!
external-connection-point vnfc-cf3
  connection-point eth1
  floating-ip disabled
!
vnfc vnfc-cf3
  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 vdu-cf3
  number-of-instances 1
  aggregate-connection-points DI_INTERFACE
  aggregate-connection-point eth0
!
  aggregate-connection-point eth3
!
!
connection-point eth0
  virtual-link internal-vl di_internal1
!
connection-point eth1
  virtual-link service-vl mgmt
!
connection-point eth2
  virtual-link service-vl orch
!
connection-point eth3
  virtual-link internal-vl di_internal2
!
!
vnfc vnfc-sf3
  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 vdu-sf3
number-of-instances 1
aggregate-connection-points DI_INT
  aggregate-connection-point eth0
  !
  aggregate-connection-point eth3
  !
  !
connection-point eth0
  virtual-link internal-vl di_internal1
!
connection-point eth1
  virtual-link service-vl orch
!
connection-point eth2
  virtual-link service-vl service
!
connection-point eth3
  virtual-link internal-vl di_internal2
!
!
!
!
nsd autoit-sun
vim-identity vim1
vim-artifact vim_artifact_one
vnf-package [ usp_6_3 ]
vld mgmt
  vl-type          management
  network-instance management
!
vld orch
  vl-type          orchestration
  network-instance orchestration
!
vnfd sun-autovnf
vnf-type          usp-uas
version           6.3
high-availability true
deploy-nsd        autovnf
configuration boot-time 1800
configuration set-vim-instance-name true
external-connection-point avf
  connection-point eth0
  floating-ip enabled
  floating-ip external-network public
!
vnfc avf
health-check disabled
health-check boot-time 300
vdu vdu-id autovnf
connection-point eth0
  virtual-link service-vl mgmt
!
connection-point eth1
  virtual-link service-vl orch
!
!
!
!
secure-token login
user      $8$HjP/ha1KqDij6DCUZEN0RmyOquG5ZGv6wzfgS8Gc9yw=

```

```

password $8$Y0kJt7G9L81QFGbqzTBo424a1wq0Q9tqckytZQI5YDo=
!
secure-token scm-admin
user $8$H4e9LO2wH2+W/x4Dhh7Sm8nWxT2lxi8031e2wN/2fMA=
password $8$KnJiA3at2nfQJk0BEMFDeG+AamCzrE58Fy6ES6lVUfc=
!
secure-token scm-oper
user $8$p9gUigD91WLAAEiVXjZLyHK8Isfg2nJGDwH4YZt7MQ0=
password $8$zDMX8pKBbbXKrc+w67QGt+RnWcz+kG889ojcwwWsKNI=
!
secure-token scm-security
user $8$zye2UX+dvdgMY7oq7Jt5EEgH+XLdWhIfzeZXB4Mp6m8=
password $8$EvcKiLx5SQTvuQKHmW0Innf60EZSuOSgakvXTIsFpKA=
!
secure-token em_login
user $8$OE7NrSx9PMY7GEB2Q4duuIMHC+OykguGTubnHevTeM4=
password $8$dUWpjhV5zmf8aDmFu/M+QR/erkZS21VKQ540sDVLhnw=
!
secure-token staros
user $8$Dlu3t/25edeXfBoB3n+VbJ+laDC+adLHiV6e5CuVLaE=
password $8$TMMWXGFdN14/fUM7MmVMxgwc5tStk/IeIqDQ2fpby6w=
!
secure-token esc_netconf
user $8$qpXG2yQn59+fPOJg3UwDvNSAzmsWyleipVxLg60OjQQ=
password $8$Vb1DSZTpGgx/BNCrFtCLktXBnfKsItJFYAjah6CW7zI=
!
secure-token esc_login
user $8$UyWzOYED01BSrdev9abCnUTtv066fE05m/zDWX16dDg=
password $8$c1HxnO39EkIYeJ4Xsf/bxhxtjgD6cMfRu7QpOWw3fpo=
!
secure-token cf_login
user $8$Jvv7tzTAgYX+xR6R513j+v1ugw4qqWud50wj5CsJYek=
password $8$nG1g/JwIoTWXOKXi/6INeswp9V6PavzopVP2SL626T8=
!
secure-token cimc
user $8$g+55KovPpwPbEiYpt+4U91g9DWCWyxElSeQYy50SFg8=
password $8$iMMdmt9irY6Bk0f5LzuNao3qbgUQMsgVEhazz9PDWzc=
!
secure-token stack
user $8$f64QjkNw+i1AHAvGxp4456jFF/aFJevtqgShUTPd2NY=
password $8$nVn9rkDbPtOGbkxCG5DcK//6yM1iYqjv0DNq0iiiXxM=
!
secure-token ssh-baremetal
user $8$61+cdWMEPftZoNRLS5bMTQbGZ/8MD+wgebQBTWgrzwk=
password $8$VQB8LSuTyE5DzMe3LKZiHSIH/H7AXKldZMYFP1YAS+w=
!
secure-token vim-tenant1-creds
user $8$55owGww93Gu2ChBFUqSnJbU5/5P+/4BKe3Bh7jjWWQQ=
password $8$5481U+r4vjNuIFTwniSKjkdzXxchl1pjgkSJCASFG2F4=
!
secure-token vim-tenant2-creds
user $8$tO57wgc4Mq4IVLkKofwtK+hgo5zz879/141609BJ9+o=
password $8$5iFf3mr3njU9EeNXVRohN5ntrUe8luUapW5gNpMQg5M=
!
secure-token vim-tenant3-creds
user user1
password Cisco@123
!
secure-token os_admin
user $8$io2sCUXjMkW4IuMNw+JUtas81Qlm9E63Hwu9qrmX81Q=
password $8$QgG0xeJsqCF0FJ1Ps7h7tnY3+KJJ1iY7Jy/nFLFaqfI=
!
scm scm
admin scm-admin

```

```

oper      scm-oper
security  scm-security
!
vnf-packaged usp_6_3
location  /home/ubuntu/usp-6_3_M0-1234-MK.iso
validate-signature false
configuration staros
external-url /home/ubuntu/system.cfg
!
!
vdu vdu-esc
vdu-type      cisco-esc
login-credential esc_login
netconf-credential esc_netconf
image vnf-package
vnf-rack      vnf-rack1
vnf-package primary usp_6_3
flavor vcpus  2
flavor ram    4096
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
!
!
vdu vdu-em
vdu-type      element-manager
login-credential em_login
scm           scm
image vnf-package
vnf-rack      vnf-rack1
vnf-package primary usp_6_3
flavor vcpus  2
flavor ram    4096
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
!
!
vdu vdu-cfl
vdu-type      control-function
login-credential cf_login
image vnf-package
vnf-rack      vnf-rack1
vnf-package primary usp_6_3
flavor vcpus  8
flavor ram    16384
flavor root-disk 40
flavor ephemeral-disk 0
flavor swap-disk 0
upp param DI_INTERFACE_VLANID
value 2116

!
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 vdu-cf2
  vdu-type          control-function
  login-credential cf_login
  image vnf-package
  vnf-rack          vnf-rack1
  vnf-package primary usp_6_3
  flavor vcpus      8
  flavor ram        16384
  flavor root-disk  40
  flavor ephemeral-disk 0
  flavor swap-disk  0
  upp param DI_INTERFACE_VLANID
    value 2116

!

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 vdu-sf1
  vdu-type session-function
  image vnf-package
  vnf-rack vnf-rack1
  vnf-package primary usp_6_3
  flavor vcpus      12
  flavor ram        16384
  flavor root-disk  6144
  flavor ephemeral-disk 0
  flavor swap-disk  0
  upp cores         30
  upp crypto-cores  0
  upp service-mode  vpc
  upp disable-mcdma false
  upp disable- numa false
  upp param DI_INTERFACE_VLANID
    value 2116
!
  upp param IFTASK_CORES
    value 30
!

!
vdu vdu-sf2
  vdu-type session-function
  image vnf-package
  vnf-rack vnf-rack1
  vnf-package primary usp_6_3
  flavor vcpus      12
  flavor ram        16384
  flavor root-disk  6144
  flavor ephemeral-disk 0
  flavor swap-disk  0
  upp cores         30
```

```

upp crypto-cores 0
upp service-mode vpc
upp disable-mcdma false
upp disable-numa false
upp param DI_INTERFACE_VLANID
  value 2116
!
upp param IFTASK_CORES
  value 30
!
!
vdu autovnf
  vdu-type          automation-service
  login-credential login
  scm               scm
  image vnf-package
  vnf-rack          vnf-rack1
  vnf-package primary usp_6_3
  flavor vcpus      2
  flavor ram        4096
  flavor root-disk  40
  flavor ephemeral-disk 0
  flavor swap-disk  0
!
vdu vdu-cf3
  vdu-type          control-function
  login-credential cf_login
  image vnf-package
  vnf-rack          vnf-rack1
  vnf-package primary usp_6_3
  flavor vcpus      8
  flavor ram        16384
  flavor root-disk  40
  flavor ephemeral-disk 0
  flavor swap-disk  0
  upp param DI_INTERFACE_VLANID
    value 2116
!
!
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 vdu-sf3
  vdu-type session-function
  image vnf-package
  vnf-rack vnf-rack1
  vnf-package primary usp_6_3
  flavor vcpus      12
  flavor ram        16384
  flavor root-disk  6144
  flavor ephemeral-disk 0
  flavor swap-disk  0

```

```
upp cores      30
upp crypto-cores 0
upp service-mode vpc
upp disable-mcma false
upp disable-numa false
upp param DI_INTERFACE_VLANID
  value 2116
!
upp param IFTASK_CORES
  value 30
!

!
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 abc-service
  ip-prefix 192.168.5.0/24
  type      vlan
  dhcp      true
  gateway   192.168.5.1
!
network abc-service-1
  ip-prefix 192.168.9.0/24
  type      vlan
  dhcp      true
  gateway   192.168.9.1
!
vnf-rackd vnf-rack1
host-aggregate abc-host
  host tblano-compute-0.localdomain
  !
  host tblano-compute-1.localdomain
  !
  host tblano-compute-10.localdomain
  !
  host tblano-compute-11.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
```

```
!
!
!
vim vim1
  api-version v2
  auth-url    http://172.21.201.218:5000/v2.0
  user       vim-tenant1-creds
  tenant     tenant1
!
vim vim2
  api-version v2
  auth-url    http://172.21.201.218:5000/v2.0
  user       vim-tenant2-creds
  tenant     tenant2
!
vim vim3
  api-version v2
  auth-url    http://172.21.201.218:5000/v2.0
  user       vim-tenant3-creds
  tenant     tenant3
!
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
  vlan-tag  false
!
network-instance management
  ip-prefix 10.177.7.0/24
  type      vlan
  dhcp      true
  gateway   10.177.7.1
!
network-instance orchestration
  ip-prefix 172.177.7.0/24
  type      vlan
  dhcp      true
  gateway   172.177.7.1
!
vim-artifactd vim_artifact_one
  vnf-rack [ vnf-rack1 ]
!
```