



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+ilAHAvGxp4456jFF/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+r4vjNuIFTwniSKjkdzXxchl1p1jgkSJCASFG2F4=
!
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
upp param VNFM_PROXY_ARBITRATION
  value 1

!
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
upp param VNFM_PROXY_ARBITRATION
value 1

!
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
upp param VNF_PROXY_ARBITRATION
    value 1
!
!
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-mcdma 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 ]
!

```



Note Set the "upp param VNF_M_PROXY_ARBITRATION" to 1 as shown in the preceding sample multi-tenant config file to use the UEM as a CF active/standby arbitrator during switchover. For more information, see the Appendix [UEM as CF Arbitration Enforcer](#).
