



## Sample SMF Configuration

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## Feature Summary and Revision History

### Summary Data

*Table 1: Summary Data*

Applicable Product(s) or FunctionalArea	SMF
Applicable Platform(s)	SMI
Feature Default Setting	Not Applicable
Related Changes in this Release	Not Applicable
Related Documentation	Not Applicable

### Revision History

*Table 2: Revision History*

Revision Details	Release
Updated the Sample SMF Configuration information for this release.	Pre-2020.02.0

## Sample Configuration

The following 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.

```

===== snip =====
ipam
  source local
  address-pool ipv6
  vrf-name ISP
  tags
    dnn intershat
  exit
  ipv6
    prefix-ranges
    prefix-range 2001:4870:e00b:1500:: length 56
  exit
  exit
  address-pool poolv4
  vrf-name ISP
  tags
    dnn intershat
  exit
  ipv4
    split-size
    per-cache 1024
    per-dp 256
  exit
  address-range 15.0.0.1 15.0.0.254
  exit
  exit
  group nf-mgmt NFMGMT1
  nrf-mgmt-group MGMT
  locality LOC1
  exit
  group nrf discovery udmdiscovery
  service type nrf nnrf-disc
  endpoint-profile epprof
  capacity 10
  priority 1
  uri-scheme http
  version
  uri-version v1
  full-version 1.1.1.[1]
  exit
  exit
  endpoint-name endpointName
  priority 1
  capacity 100
  primary ip-address ipv4 10.86.73.206
  primary ip-address port 8082
  exit
  exit
  exit
  group nrf mgmt MGMT
  service type nrf nnrf-nfm
  endpoint-profile mgmt-1
  priority 1
  uri-scheme http
  endpoint-name mgmt-1
  primary ip-address ipv4 10.86.73.206
  primary ip-address port 8082
  secondary ip-address ipv4 10.86.73.206
  secondary ip-address port 8083
  tertiary ip-address ipv4 10.86.73.206
  tertiary ip-address port 8084

```

```
    exit
  exit
  exit
exit
cdl node-type smf-cdl
cdl zookeeper replica 2
cdl kafka replica 2
etcd replicas 1
endpoint nodemgr
exit
endpoint gtp
  replicas 1
  vip-ip 10.86.73.208
exit
endpoint pfcp
  replicas 1
  nodes 2
exit
endpoint service
  replicas 1
  nodes 1
exit
endpoint protocol
  replicas 1
  nodes 2
  vip-ip 10.86.73.208
exit
endpoint sbi
  replicas 1
  nodes 2
  vip-ip 10.86.73.208
interface nrf
  loopbackPort 7005
  vip-ip 20.20.20.5 vip-port 9005
exit
interface n7
  loopbackPort 7001
  vip-ip 20.20.20.1 vip-port 9001
exit
interface n10
  loopbackPort 7004
  vip-ip 20.20.20.4 vip-port 9004
exit
interface n40
  loopbackPort 7003
  vip-ip 20.20.20.3 vip-port 9003
exit
exit
logging level application trace
logging level transaction trace
logging level tracing off
logging name infra.config.core level application debug
logging name infra.config.core level transaction warn
logging name infra.config.core level tracing warn
logging name infra.resource_monitor.core level application warn
logging name infra.resource_monitor.core level transaction warn
deployment
  app-name SMF
  cluster-name Local
  dc-name DC
  model small
exit
k8 label protocol-layer key smi.cisco.com/node-type value smf-proto
exit
```

```

k8 label service-layer key vm-type value smf-svc
exit
k8 label cdl-layer key smi.cisco.com/node-type value smf-cdl
exit
k8 label oam-layer key smi.cisco.com/node-type value oam
exit
system mode running
helm default-repository smf
helm repository smf
  url
https://engci-maven-master.cisco.com/artifactory/smi-fuse-internal-snapshot/mobile-cnaf-smf/smf-products/master/
exit
helm repository smf-stage
  url
https://engci-maven-master.cisco.com/artifactory/smi-fuse-internal-snapshot/mobile-cnaf-smf/smf-products/dev-smf-stage/
exit
k8s namespace      smf
k8s registry        dockerhub.cisco.com/smi-fuse-docker-internal
k8s single-node     false
k8s use-volume-claims false
k8s ingress-host-name 10.86.73.204.nip.io
profile dnn intershat
  dns primary ipv4 11.11.1.1
  dns primary ipv6 66:66:1::aa
  dns secondary ipv4 22.22.2.2
  dns secondary ipv6 66:66:2::bb
  network-element-profiles chf chf1
  network-element-profiles amf amf1
  network-element-profiles pcf pcf1
  network-element-profiles udm udm1
  dnn starent.com network-function-list [ upf ]
  charging-profile chgprf1
  virtual-mac      b6:6d:47:47:47:47
  pcscf-profile    pcscf1
  ssc-mode 1
  session type IPV4 allowed [ IPV4V6 ]
  upf apn cisco.com
exit
profile dnn profDnn1
  dnn cisco.com network-function-list [ chf pcf udm upf ]
  charging-profile chgprf1
  ssc-mode 1
  session type IPV4
exit
profile dnn profDnn2
  dnn cisco.com network-function-list [ chf pcf rmgr udm upf ]
  charging-profile chgprf1
  ssc-mode 1
  session type IPV4
exit
profile charging chgprf1
  method [ offline ]
  limit volume 20
  limit duration 60
  tight-interworking-mode true
  reporting-level online rating-group
  reporting-level offline service-id
exit
profile pcscf pcscf1
  v4-list
  precedence 3
  primary 3.3.3.1
  secondary 3.3.3.2
  exit

```

```
precedence 5
  primary 5.5.5.1
  secondary 5.5.5.2
exit
precedence 7
  primary 7.7.7.1
  secondary 7.7.7.2
exit
exit
v6-list
precedence 3
  primary 33:33::1
  secondary 33:33::2
exit
precedence 5
  primary 55:55::1
  secondary 55:55::2
exit
exit
v4v6-list
precedence 3
  primary ipv4 46.46.33.1
  primary ipv6 46:46:33::1
  secondary ipv4 46.46.33.2
  secondary ipv6 46:46:33::2
exit
precedence 5
  primary ipv4 46.46.55.1
  primary ipv6 46:46:55::1
  secondary ipv4 46.46.55.2
  secondary ipv6 46:46:55::2
exit
precedence 7
  primary ipv4 46.46.77.1
  primary ipv6 46:46:77::1
  secondary ipv4 46.46.77.2
  secondary ipv6 46:46:77::2
exit
exit
profile charging-characteristics 1
  charging-profile chgprf1
exit
profile icmpv6 icmpprf1
  options virtual-mac b6:6d:57:45:45:45
exit
profile smf smf1
  locality LOC1
  bind-address ipv4 10.86.73.208
  bind-port 8090
  fqdn 192.168.10.20
  allowed-nssai [ slice1 slice2 ]
  plmn-id mcc 123
  plmn-id mnc 456
  service name nsmf-pdu
    type pdu-session
    schema http
    version 1.Rn.0.0
  http-endpoint base-url http://smf-service
  icmpv6-profile icmpprf1
  compliance-profile dec18
  access-profile access1
  policy subscriber polSub
exit
```

```

exit
profile compliance dec18
  service nsmf-pduseession
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service namf-comm
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service n1
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service n2
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service nudm-sdm
    version uri v1
    version full 1.0.0
    version spec 15.2.1
  exit
  service nudm-uecm
    version uri v1
    version full 1.0.0
    version spec 15.2.1
  exit
  service n NRF-disc
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service n NRF-nfm
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service n PCF-smpolicycontrol
    version uri v1
    version full 1.0.0
    version spec 15.2.0
  exit
  service n CHF-convergedcharging
    version uri v2
    version full 1.0.0
    version spec 15.2.1
  exit
exit
profile network-element amf amf1
  nf-client-profile amfP1
  failure-handling-profile FH3
  query-params [ dnn ]
exit
profile network-element pcf pcf1
  nf-client-profile pcfP1
  failure-handling-profile FH1
  rulebase-prefix cbn#
  predefined-rule-prefix crn#
exit

```

```
profile network-element udm udm1
  nf-client-profile      udmP1
  failure-handling-profile FH1
exit
profile network-element upf upf1
  n4-peer-address ipv4 10.106.183.240
  n4-peer-port 8805
  keepalive 60
  dnn-list [ dnn1 intershat starent ]
exit
profile network-element chf chf1
  nf-client-profile      chfP1
  failure-handling-profile FH2
  nf-client-profile-offline CP2
  failure-handling-profile-offline FH2
exit
profile qos abc
  ambr ul "250 Kbps"
  ambr dl "500 Kbps"
  qi5 7
  arp priority-level 14
  arp preempt-cap NOT_PREEMPT
  arp preempt-vuln PREEMPTABLE
  priority 120
  max data-burst 2000
  dscp-map qi5 2 arp-priority-level 3 uplink user-datagram dscp-marking 0x1c
  dscp-map qi5 2 arp-priority-level 3 downlink user-datagram dscp-marking 0x1a encsp-header
  dscp-marking 0x1b
  dscp-map qi5 3 arp-priority-level 3 uplink user-datagram dscp-marking 0x4
  dscp-map qi5 3 arp-priority-level 3 downlink user-datagram dscp-marking 0x3 encsp-header
copy-inner
exit
profile access access1
  eps-fallback cbr delay 500 max-retry 10 timeout 3
  n26 idft enable timeout 15
  n2 idft enable timeout 15
exit
profile nf-client nf-type udm
  udm-profile udmP1
  locality LOC1
  priority 30
  service name type nudm-sdm
  endpoint-profile EP1
  capacity 30
  uri-scheme http
  endpoint-name EP1
  primary ip-address ipv4 10.86.73.206
  primary ip-address port 9007
  exit
  exit
exit
  service name type nudm-uecm
  endpoint-profile EP1
  capacity 30
  uri-scheme http
  endpoint-name EP1
  primary ip-address ipv4 10.86.73.206
  primary ip-address port 9001
  exit
  exit
exit
  exit
exit
exit
exit
```

```

profile nf-client nf-type pcf
pcf-profile pcfP1
locality LOC1
priority 30
service name type npcfc-am-policy-control
endpoint-profile EP1
capacity 30
uri-scheme http
endpoint-name EP1
priority 50
primary ip-address ipv4 10.86.73.206
primary ip-address port 9003
exit
exit
service name type npcfc-smpolicycontrol
endpoint-profile EP1
capacity 30
uri-scheme http
endpoint-name EP1
priority 5
primary ip-address ipv4 10.86.73.206
primary ip-address port 9003
exit
endpoint-name realPCF
priority 10
primary ip-address ipv4 10.86.73.210
primary ip-address port 9082
exit
exit
exit
exit
exit
profile nf-client nf-type amf
amf-profile amfP1
locality LOC1
priority 10
service name type namf-comm
endpoint-profile EP1
capacity 20
uri-scheme http
endpoint-name EP1
priority 30
primary ip-address ipv4 10.86.73.206
primary ip-address port 9002
exit
exit
exit
exit
exit
profile nf-client nf-type chf
chf-profile CP2
locality LOC1
priority 31
service name type nchf-convergedcharging
endpoint-profile EP1
capacity 30
uri-scheme http
version
uri-version v2
exit
exit

```



```
        endpoint-name EP1
        priority 56
        primary ip-address ipv4 10.86.73.206
        primary ip-address port 9906
    exit
exit
exit
exit
chf-profile chfP1
locality LOC1
priority 10
service name type nchf-convergedcharging
endpoint-profile EP1
capacity 30
uri-scheme http
version
uri-version v2
exit
exit
endpoint-name EP1
priority 50
primary ip-address ipv4 10.86.73.206
primary ip-address port 9904
exit
endpoint-name EP2
priority 80
primary ip-address ipv4 10.86.73.206
primary ip-address port 9905
exit
exit
exit
exit
exit
profile nf-pair nf-type UDM
locality client LOC1
locality geo-server GEO
exit
profile nf-pair nf-type AMF
locality client LOC1
locality geo-server GEO
exit
profile nf-pair nf-type PCF
locality client LOC1
locality geo-server GEO
exit
profile nf-pair nf-type UPF
nrf-discovery-group udmdiscovery
locality client LOC1
locality preferred-server LOC1
locality geo-server GEO
exit
profile nf-pair nf-type CHF
locality client LOC1
locality preferred-server LOC1
locality geo-server GEO
exit
profile nf-client-failure nf-type chf
profile failure-handling FH2
service name type nchf-convergedcharging
message type ChfConvergedchargingCreate
status-code httpv2 0
action continue
```

```

    exit
  exit
  message type ChfConvergedchargingUpdate
  status-code httpv2 0
  action continue
  exit
  exit
  exit
  exit
  exit
  exit
  policy subscriber polSub
  precedence 1
  sst 01
  sdt ABcd01
  serving-plmn mcc 123
  serving-plmn mnc 456
  supi-start-range 1000000000000001
  supi-stop-range 9999999999999999
  gpsi-start-range 1000000000
  gpsi-stop-range 9999999999
  operator-policy opPol1
  exit
  exit
  policy operator opPol1
  policy dnn opPolDnn1
  exit
  policy dnn dnnPol1
  profile default
  dnn starent profile abc.com
  exit
  policy dnn opPolDnn1
  dnn intershat profile intershat
  dnn intershat1 profile profDnn1
  exit
  policy dnn polDnn
  profile default
  dnn intershat profile intershat
  dnn intershat1 profile profDnn1
  dnn intershat2 profile profDnn2
  exit
  nssai name slice1
  sst 01
  sdt ABcd01
  dnn [ intershat ]
  exit
  nssai name slice2
  sst 02
  sdt 000003
  dnn [ cisco.com ]
  exit
  active-charging service acs1
  packet-filter pkt1
  ip local-port range 2 to 23
  ip protocol = 23
  ip remote-address = 10.10.10.0/24
  ip remote-port range 12 to 34
  ip tos-traffic-class = 23 mask = 23
  priority 23
  exit
  packet-filter pkt2
  direction uplink
  ip local-port = 100
  ip protocol = 100
  ip remote-address = 1.1.1.1/32

```

```
ip remote-port = 140
priority 100
exit
packet-filter pkt3
direction downlink
ip local-port = 111
ip protocol = 111
ip remote-address = 2.2.2.2/31
ip remote-port = 111
priority 111
exit
charging-action ca1
allocation-retention-priority 12 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
flow limit-for-bandwidth direction uplink peak-data-rate 1000000 peak-burst-size 100
violate-action discard committedDataRate 2000000 committed-burst-size 100 exceed-action
discard
flow limit-for-bandwidth direction downlink peak-data-rate 2000000 peak-burst-size 100
violate-action discard committedDataRate 3000000 committed-burst-size 100 exceed-action
discard
qos-class-identifier 3
tft-notify-ue
tos af11
tft packet-filter pkt1
exit
charging-action ca10
flow limit-for-bandwidth direction uplink peak-data-rate 2000000000 peak-burst-size 100
violate-action discard
flow limit-for-bandwidth direction downlink peak-data-rate 3000000000 peak-burst-size 100
violate-action discard
tos af11
exit
charging-action ca11
flow limit-for-bandwidth direction uplink peak-data-rate 2000000000 peak-burst-size 100
violate-action discard
flow limit-for-bandwidth direction downlink peak-data-rate 3000000000 peak-burst-size 100
violate-action discard
exit
charging-action ca12
flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100
violate-action discard
flow limit-for-bandwidth direction downlink peak-data-rate 3000000 peak-burst-size 100
violate-action discard
exit
charging-action ca13
flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100
violate-action discard
flow limit-for-bandwidth direction downlink peak-data-rate 3000000 peak-burst-size 100
violate-action discard
exit
charging-action ca2
allocation-retention-priority 13 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
flow limit-for-bandwidth direction uplink peak-data-rate 2000000000 peak-burst-size 100
violate-action discard committedDataRate 3000000000 committed-burst-size 100 exceed-action
discard
flow limit-for-bandwidth direction downlink peak-data-rate 3000000000 peak-burst-size 100
violate-action discard committedDataRate 4000000000 committed-burst-size 100 exceed-action
discard
qos-class-identifier 2
tft-notify-ue
tos af11
tft packet-filter pkt2
exit
charging-action ca20
flow limit-for-bandwidth direction uplink peak-data-rate 1000000 peak-burst-size 100
```

```

violate-action discard
    flow limit-for-bandwidth direction downlink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
    exit
    charging-action ca21
        flow limit-for-bandwidth direction uplink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
        flow limit-for-bandwidth direction downlink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
        exit
        charging-action ca22
            flow limit-for-bandwidth direction uplink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
            flow limit-for-bandwidth direction downlink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
            exit
            charging-action ca23
                flow limit-for-bandwidth direction uplink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
                flow limit-for-bandwidth direction downlink peak-data-rate 1000000 peak-burst-size 100
violate-action discard
                exit
                charging-action ca3
                    allocation-retention-priority 14 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
                    flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100
violate-action discard committedDataRate 1000000 committed-burst-size 100 exceed-action
                    discard
                    flow limit-for-bandwidth direction downlink peak-data-rate 4000000 peak-burst-size 100
violate-action discard committedDataRate 3000000 committed-burst-size 100 exceed-action
                    discard
                    qos-class-identifier 1
                    tft-notify-ue
                    tos af11
                    tft packet-filter pkt3
                    exit
                    charging-action ca4
                        allocation-retention-priority 11 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
                        flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100
violate-action discard committedDataRate 3000000 committed-burst-size 100 exceed-action
                        discard
                        flow limit-for-bandwidth direction downlink peak-data-rate 4000000 peak-burst-size 100
violate-action discard committedDataRate 4000000 committed-burst-size 100 exceed-action
                        discard
                        qos-class-identifier 4
                        tft-notify-ue
                        tos af11
                        tft packet-filter pkt1
                        exit
                        charging-action ca5
                            allocation-retention-priority 11 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
                            flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100
violate-action discard committedDataRate 3000000 committed-burst-size 100 exceed-action
                            discard
                            flow limit-for-bandwidth direction downlink peak-data-rate 4000000 peak-burst-size 100
violate-action discard committedDataRate 4000000 committed-burst-size 100 exceed-action
                            discard
                            qos-class-identifier 4
                            tft-notify-ue
                            tos af11
                            tft packet-filter pkt2
                            exit
                            charging-action ca6
                                allocation-retention-priority 11 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
                                flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100

```

```
violate-action discard committedDataRate 3000000 committed-burst-size 100 exceed-action
discard
    flow limit-for-bandwidth direction downlink peak-data-rate 4000000 peak-burst-size 100
violate-action discard committedDataRate 4000000 committed-burst-size 100 exceed-action
discard
    qos-class-identifier 4
    tft-notify-ue
    tos af11
    tft packet-filter pkt3
exit
charging-action ca7
    allocation-retention-priority 1 pci NOT_PREEMPT pvi NOT_PREEMPTABLE
    flow limit-for-bandwidth direction uplink peak-data-rate 2000000 peak-burst-size 100
violate-action discard
    flow limit-for-bandwidth direction downlink peak-data-rate 400000 peak-burst-size 100
violate-action discard
    qos-class-identifier 7
    tft-notify-ue
    tos af11
exit
charging-action caGyGz
    billing-action egcdr
    cca charging credit rating-group 102
    content-id 102
    service-identifier 202
exit
charging-action caOffline
    billing-action egcdr
    content-id 100
    service-identifier 200
exit
charging-action caOffline1
    billing-action egcdr
    content-id 11
    service-identifier 21
exit
charging-action caOffline2
    billing-action egcdr
    content-id 12
    service-identifier 22
exit
charging-action caOffline3
    billing-action egcdr
    content-id 13
    service-identifier 23
exit
charging-action caOffline4
    billing-action egcdr
    content-id 40
exit
charging-action caOfflineOnline
    billing-action egcdr
    cca charging credit
    content-id 30
    service-identifier 60
exit
charging-action caOfflineOnline1
    billing-action egcdr
    cca charging credit
    content-id 31
    service-identifier 61
exit
charging-action caOnline
    cca charging credit rating-group 100
```

```

    content-id      100
    service-identifier 200
  exit
  charging-action caOnline1
    cca charging credit rating-group 101
    content-id      101
    service-identifier 201
  exit
  charging-action caOnline2
    cca charging credit
    content-id      102
    service-identifier 202
  exit
  charging-action caOnline3
    cca charging credit
    content-id      103
    service-identifier 203
  exit
  charging-action caOnline4
    cca charging credit
    content-id 110
  exit
  charging-action nocharging
  exit
  rulebase cbn#spp-1
    action priority 1 ruledef crn#test_1 charging-action ca1
    action priority 2 ruledef crn#test_2 charging-action ca2
  exit
  rulebase rba1
    action priority 1 dynamic-only ruledef rda1 charging-action ca1 description myrule1
    action priority 2 dynamic-only ruledef rda2 charging-action ca2 description myrule2
    action priority 3 dynamic-only ruledef rda3 charging-action ca3 description myrule3
  exit
  rulebase rba2
    action priority 10 ruledef rda10 charging-action ca10 description myrule10
    action priority 11 ruledef rda11 charging-action ca11 description myrule11
    action priority 12 dynamic-only ruledef rda12 charging-action ca12 description myrule12
    action priority 13 dynamic-only ruledef rda13 charging-action ca13 description myrule13
  exit
  rulebase rba3
    action priority 20 ruledef rda20 charging-action ca20 description myrule20
    action priority 21 ruledef rda21 charging-action ca21 description myrule21
    action priority 22 dynamic-only ruledef rda22 charging-action ca22 description myrule22
    action priority 23 dynamic-only ruledef rda23 charging-action ca23 description myrule23
  exit
  rulebase rba4
    action priority 30 ruledef rda3 charging-action ca3 description myrule3
    action priority 31 dynamic-only ruledef rda3 charging-action ca3 description myrule3
  exit
  rulebase rba5
    action priority 50 dynamic-only ruledef rda50 charging-action ca4 description myrule50
    action priority 51 dynamic-only ruledef rda51 charging-action ca5 description myrule51
    action priority 52 dynamic-only ruledef rda52 charging-action ca6 description myrule52
  exit
  rulebase rba6
    action priority 60 dynamic-only ruledef rda60 charging-action ca1 description myrule60
    action priority 61 dynamic-only ruledef rda61 charging-action ca1 description myrule61
    action priority 62 dynamic-only ruledef rda62 charging-action ca1 description myrule62
  exit
  rulebase rba7
    action priority 50 ruledef rda50 charging-action ca4 description myrule50
    action priority 51 ruledef rda51 charging-action ca5 description myrule51
    action priority 52 ruledef rda52 charging-action ca6 description myrule52
  exit

```

```

rulebase rba8
  action priority 60 ruledef rda60 charging-action ca1 description myrule60
  action priority 61 ruledef rda61 charging-action ca1 description myrule61
  action priority 62 ruledef rda62 charging-action ca1 description myrule62
exit
rulebase rbaStatic
  action priority 10 ruledef rda20 charging-action caOffline
exit
rulebase rbaStatic-Online
  action priority 20 ruledef rdaStatic charging-action caOnline
exit
rulebase rbaStatic1
  action priority 10 ruledef rda20 charging-action caOffline
exit
rulebase rba_GyGz
  egcdr threshold volume downlink 100000 uplink 100000
  action priority 20 dynamic-only ruledef rdaPredefined charging-action caGyGz
  action priority 30 ruledef rda20 charging-action caGyGz
exit
rulebase rba_charging_StaticDynamic_Offline_Online_mix
  cca diameter requested-service-unit sub-avp volume cc-input-octets 11000 cc-output-octets
12000 cc-total-octets 23000
  credit-control-group onlineoffline
  egcdr threshold interval 100
  egcdr threshold volume downlink 150000 uplink 150000 total 300000
  action priority 20 dynamic-only ruledef rdaPredefined charging-action caOffline1
  action priority 21 dynamic-only ruledef rdaPredefined1 charging-action caOnline1
  action priority 31 ruledef rdaStatic charging-action caOfflineOnline
exit
rulebase rba_charging_StaticDynamic_offline
  egcdr threshold volume downlink 100000 uplink 100000
  action priority 20 dynamic-only ruledef rdaPredefined charging-action caOffline1
  action priority 30 ruledef rda20 charging-action caOffline
exit
rulebase rba_charging_StaticDynamic_online
  action priority 20 ruledef rda20 charging-action caOnline
  action priority 30 dynamic-only ruledef rdaPredefined charging-action caOnline1
exit
rulebase rbs1
  action priority 1 ruledef rds1 charging-action ca1 description myrules1
  action priority 2 ruledef rds2 charging-action ca2 description myrules2
exit
urr-list urr_smf
  rating-group 10 service-identifier 20 urr-id 1
  rating-group 11 service-identifier 21 urr-id 2
  rating-group 12 service-identifier 22 urr-id 3
  rating-group 13 service-identifier 23 urr-id 4
  rating-group 30 service-identifier 60 urr-id 20
  rating-group 31 service-identifier 61 urr-id 21
  rating-group 100 service-identifier 200 urr-id 5
  rating-group 101 service-identifier 201 urr-id 6
  rating-group 102 service-identifier 202 urr-id 7
  rating-group 103 service-identifier 203 urr-id 8
exit
ruledef rda1
  ip server-ip-address = 10.10.10.10
exit
ruledef rda10
  ip any-match = TRUE
exit
ruledef rda11
  ip any-match = TRUE
exit
ruledef rda12

```

```
    ip any-match = TRUE
exit
ruledef rda13
    ip any-match = TRUE
exit
ruledef rda2
    ip server-ip-address = 10.165.161.77/32
exit
ruledef rda20
    ip any-match = TRUE
exit
ruledef rda21
    ip any-match = TRUE
exit
ruledef rda22
    ip any-match = TRUE
exit
ruledef rda23
    ip any-match = TRUE
exit
ruledef rda3
    ip server-ip-address = 10.198.87.48/28
exit
ruledef rda40
    ip any-match = TRUE
exit
ruledef rda50
    ip server-ip-address = 50.50.50.50
exit
ruledef rda51
    ip server-ip-address = 51.51.51.51
exit
ruledef rda52
    ip server-ip-address = 52.52.52.52
exit
ruledef rda60
    ip dst-address = 60.60.60.60
exit
ruledef rda61
    ip dst-address = 61.61.61.61
exit
ruledef rda62
    ip dst-address = 62.62.62.62
exit
ruledef rdaPredefined
    ip any-match = TRUE
exit
ruledef rdaStatic
    ip any-match = TRUE
exit
ruledef rdaStatic1
    ip any-match = TRUE
exit
ruledef rdaStatic2
    ip any-match = TRUE
exit
ruledef rds1
    ip any-match = TRUE
exit
ruledef rds2
    ip any-match = TRUE
exit
credit-control group onlineoffline
diameter ignore-service-id true
```



```
exit
exit
apn intershat
  gtpd group group1
  active-charging rulebase rba1
exit
gtpd group group1
  gtpd egcdr service-data-flow threshold interval 60
  gtpd egcdr service-data-flow threshold volume downlink 100000 uplink 100000 total 200000
exit
aaa authentication users user admin
  uid 117
  gid 1117
  password $1$cRyjDAuU$7t8iCDDjhDcKdQ1/YHM2J1
  ssh_keydir /tmp/admin/.ssh
  homedir /tmp/admin
exit
aaa ios level 0
  prompt "\h> "
exit
aaa ios level 15
  prompt "\h# "
exit
aaa ios privilege exec
  level 0
  command action
  exit
  command autowizard
  exit
  command enable
  exit
  command exit
  exit
  command help
  exit
  command startup
  exit
  level 15
  command configure
  exit
  exit
exit
nacm write-default deny
nacm groups group admin
  user-name [ admin ]
exit
nacm rule-list admin
  group [ admin ]
  rule any-access
  action permit
  exit
exit
nacm rule-list confd-api-manager
  group [ confd-api-manager ]
  rule any-access
  action permit
  exit
exit
```

