

Configuration Parameters

A list of all existing configuration parameters including default values can be found under `/etc/config/factory-config.cfg`. The user config is defined as all changes relative to the factory configuration. The current user config can be found under `/etc/config/user-config.cfg`

Using the command line interface (cli) all parameters can be shown. A trailing `'.'` acts as a wildcard and shows all subsequent parameters. Examples:

```
$ cli get -c .
$ cli get -c wanlink
$ cli get -c wanlink.
$ cli get -c wanlink.1
$ cli get -c wanlink.1.
```

config-desc.txt

```
#
# Config Descriptions
# =====
#
# This file provides a list of all possible configuration parameters
# for software release 4.1.0.
# An entity index is denoted as 'x', a subindex as 'y'.
#
# (C) 2017 NetModule AG, Switzerland
#

# config parameter          type          notation/unit/values
# comment

config.version             string        <major>.<minor>
set by configd, used for config conversion
config.product            string        NB<product>
set by configd, specifies product
config.info               string
config description, used to identify config
system.time               date-time    <YYYY>-<mm>-<dd>
<HH:MM:SS>                volatile parameter to set system time

# networking
network.hostname          hostname
hostname of the system
network.timezone          string
timezone (e.g. UTC+1 or GMT+1, see /usr/share/zoneinfo/)
network.tcp.timestamps    integer      0 = disabled, 1 =
```

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```

enabled                enable/disable TCP timestamps

network.mss.status      integer          0 = disabled, 1 =
enabled                enable/disable MSS adjustment
network.mss.adjustment integer          100..1500 bytes
maximum segment size

# certificates
cert.deployment        string
default deployment type
cert.settings.organization string
certificate organization (O)
cert.settings.department string
certificate department (OU)
cert.settings.location string
certificate location (L)
cert.settings.state    string
certificate state (ST)
cert.settings.country  string
certificate country (C)
cert.settings.common   string
certificate common name (CN)
cert.settings.email    email
certificate e-mail
cert.settings.expiry   integer          30..10950 days
certificate expiry period
cert.settings.phrase   password
certificate passphrase
cert.settings.keysize  integer          bit
certificate key size
cert.settings.dhsize   integer          bit
certificate DH primes
cert.settings.sigalg   enum              md5, sha1, sha256, sha512
certificate signature algorithm
cert.settings.cipher   enum
aes256, aes192, aes128, des, des3, seed certificate cipher algorithm
cert.scep.status       integer          0 = disabled, 1 =
enabled                enables/disables SCEP
cert.scep.url          url              http://<host>/<path>
SCEP CA URL
cert.scep.fingerprint  string
SCEP CA fingerprint
cert.scep.fpalg        enum              md5, sha1, sha256
SCEP fingerprint algorithm
cert.scep.caident      string
SCEP CA identifier
cert.scep.timeout      integer          30..3600 seconds

```

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```

SCEP request timeout
cert.scep.interval          integer          10..120 seconds
SCEP poll interval
cert.scep.idtype           enum            IP,DNS,EMAIL
SCEP identifier type
cert.scep.phrase           password
SCEP password

# modems
modem.x.status             integer          0 = disabled, 1 =
enabled                    modem administrative status

# SIM cards
sim.x.pincode              integer          1..16 digits
SIM PIN code
sim.x.pukcode              integer          1..32 digits
SIM PUK code
sim.x.lai                  integer          5..7 digits
SIM LAI to specify carrier
sim.x.bands                string           comma-separated list of
bands                      SIM bands to specify bands (e.g. gsm-b8, lte-b1)
sim.x.card                 integer
SIM default modem index
sim.x.pref                 enum
automatic,2G-only,2G-first,2G3G-only,  SIM preferred service
3G-only,3G-first,4G-only,4G-first
sim.x.regmode              integer          0 = circuit-switched,
SIM registration mode                                           1 = packet-switched,
                                                                2 = all networks

# Soft SIMs
ssim.x.id                  string
Soft-SIM identifier
ssim.x.key                 password
Soft-SIM key
ssim.x.op                  string
Soft-SIM op

# WWAN Interfaces
wwan.x.status             integer          0 = disabled, 1 =
enabled                    WWAN interface administrative status
wwan.x.card               integer
WWAN interface modem index
wwan.x.sim                integer
WWAN interface SIM index

```

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```

wwan.x.pdp                integer
WWAN interface PDP index
wwan.x.pref                enum
automatic,2G-only,2G-first,2G3G-only,  WWAN interface preferred
service

3G-only,3G-first,4G-only,4G-first
wwan.x.number              phone-number
WWAN interface phone number (e.g. *99***1#)
wwan.x.username            string
WWAN interface username
wwan.x.password            password
WWAN interface password
wwan.x.apn                  string
WWAN interface APN
wwan.x.auth                 integer          0 = none, 1 = PAP,
WWAN interface authentication                               2 = CHAP, 3 = PAP+CHAP

wwan.x.hdrcomp              integer          0 = disabled, 1 =
enabled                  WWAN interface header compression
wwan.x.softcomp             integer          0 = disabled, 1 =
enabled                  WWAN interface data compression
wwan.x.address              address
WWAN interface client address
wwan.x.isdn                  integer          0 = disabled, 1 =
enabled                  WWAN interface ISDN call
wwan.x.negdns                integer          0 = disabled, 1 =
enabled                  WWAN interface negotiate DNS
wwan.x.minrssi               integer          -120..-50 dBm
WWAN interface min. required RSSI value
wwan.x.minqual              integer          0..100 percent
WWAN interface min. required quality level
wwan.x.maxfail              integer
WWAN interface max. PPP connection attempts
wwan.x.homeonly             integer          0 = roaming, 1 = home
network only          WWAN interface roaming
wwan.x.mtu                  integer
WWAN interface max. transmission unit

# USB
usb.status                  integer          0 = disabled, 1 =
enabled                  USB administrative status
usb.hotplug                 integer          0 = disabled, 1 =
enabled                  USB hotplug administrative status
usb.x.enabled               integer          0 = disabled, 1 =
enabled                  USB port administrative status
autorun.status              integer          0 = disabled, 1 =

```

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```

enabled                USB Autorun administrative status
autorun.authdev        integer                0 = disabled, 1 =
enabled                USB Autorun allow only enabled devices

usb.devices.x.dev      string                <VID>:<PID>
USB device identification
usb.devices.x.module   enum
usb-storage,pl2303,ch341,ftdi,          USB device driver module

pegasus,asix,rndis,ax88179_178a,r8152
usb.devices.x.busid    string
USB bus identifier (e.g. 1-1.2)

# Bridges
network.br.x.mode      integer                0 = disabled, 1 =
enabled,                Bridge administrative status
                        2 = enabled with local Interface

network.br.x.mtu       integer
Bridge max. transmission unit
network.br.x.address   address
Bridge network address
network.br.x.netmask   address
Bridge network netmask
network.br.x.gateway   address
Bridge network gateway
network.br.x.proxyarp  integer                0 = disabled, 1 =
enabled                Bridge Proxy-ARP status

# Ethernet
network.link.x.mode    integer                0 = auto-negotiated,
Ethernet link mode
                        1 = 10baseT/Half,
                        2 = 10baseT/Full,
                        3 = 100baseT/Half,
                        4 = 100baseT/Full,
                        5 = 1000baseT/Half,
                        6 = 1000baseT/Full

# Ethernet Switch Ports
switch.port.x.status   integer                0 = disabled, 1 =
enabled                Ethernet switch port administrative status
switch.port.x.interface integer
Ethernet switch port LAN interface index

# Ethernet Ports

```

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```

ethernet.port.x.status      integer      0 = disabled, 1 =
enabled                    Ethernet port administrative status
ethernet.port.x.interface  integer
Ethernet port LAN interface index

# Ethernet Bridging
ethernet.bridge.firewall   integer      0 = disabled, 1 =
enabled                    Ethernet bridge firewall administrative status
ethernet.bridge.rstp       integer      0 = disabled, 1 =
enabled                    Ethernet bride RSTP administrative status

# WLAN
wlan.x.status              integer      0 = disabled, 1 =
enabled                    WLAN administrative status
wlan.x.mode                enum
client,access-point,dualmode,managed  WLAN operational mode
wlan.x.diversity           integer      0 = disabled, 1 =
enabled                    WLAN antenna diversity
wlan.x.regdom              string
WLAN regulatory domain (e.g. DE, see /etc/tld)
wlan.x.antgain             integer      0..10 dB
WLAN antenna gain
wlan.x.settings.hwmode    enum          a,b,g,n,c
WLAN operation type
wlan.x.settings.band      enum          2.4,5
WLAN band
wlan.x.settings.channel   integer
WLAN channel (0 = auto)
wlan.x.settings.bandwidth enum          20,40,80
WLAN bandwidth
wlan.x.ac.0.host           host
WLAN primary access controller
wlan.x.ac.1.host           host
WLAN secondary access controller

# WLAN Clients
wlan.x.client.y.ssid       string
WLAN client SSID
wlan.x.client.y.secmode    enum          off,none,wep,wpa-psk,
WLAN client security mode
wlan.x.client.y.secproto   enum          wpa-radius,wpa-eap-tls
WLAN client WPA/WPA2 mixed mode
wlan.x.client.y.cipher     enum          tkip,ccmp,all
WLAN client WPA cipher
wlan.x.client.y.psk        password
WLAN client passphrase

```

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```

wlan.x.client.y.minrssi      integer      -100..-10 dBm
WLAN client min. required RSSI value
wlan.x.client.y.minqual     integer      0..100 percent
WLAN client min. required quality level
wlan.x.client.y.id          string
WLAN client identity for EAP
wlan.x.client.y.prio        integer      0..10
WLAN client priority
wlan.x.client.y.pmf         integer      0 = disabled, 1 =
enabled                    WLAN client PMF administrative status

# WLAN Access Points
wlan.x.vss.y.status         integer      0 = disabled, 1 =
enabled                    WLAN VSS administrative status
wlan.x.vss.y.ssid          string
WLAN VSS SSID
wlan.x.vss.y.hidden        integer      0 = disabled, 1 =
enabled                    WLAN VSS hide SSID
wlan.x.vss.y.isolate       integer      0 = disabled, 1 =
enabled                    WLAN VSS isolate clients
wlan.x.vss.y.advertise     integer      0 = disabled, 1 =
enabled                    WLAN VSS advertise country code 802.1d
wlan.x.vss.y.inactivity    integer      0..600
WLAN VSS max. station inactivity
wlan.x.vss.y.secmode       enum
off,none,wpa-psk,wpa-radius  WLAN VSS security mode
wlan.x.vss.y.secproto      enum
WLAN VSS WPA/WPA2 mixed mode
wlan.x.vss.y.cipher        enum
tkip,ccmp,all
WLAN VSS WPA cipher
wlan.x.vss.y.psk           password
WLAN VSS passphrase
wlan.x.vss.y.acct         integer      0 = none, 1 = default,
2 = cisco                WLAN VSS accounting
wlan.x.vss.y.pmf          integer      0 = disabled, 1 =
enabled                    WLAN VSS PMF administrative status
wlan.x.vss.y.addr4        integer      0 = disabled, 1 =
enabled                    WLAN VSS 4addr frame administrative status

# Bluetooth
bluez.x.status             integer      0 = disabled, 1 =
enabled                    Bluetooth device administrative status

# CAN
can.x.status              integer      0 = disabled, 1 =
enabled                    CAN device administrative status
can.x.bitrate             integer      10000..1000000

```

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CAN device bitrate

VLAN

```

network.vlan.x.interface      interface
VLAN network interface (e.g. lan0)
network.vlan.x.mode          enum          routed,bridged
VLAN network mode
network.vlan.x.index         integer
VLAN interface index
network.vlan.x.id            integer          0..4094
VLAN ID
network.vlan.x.prio          integer          -1 = default,
                                0 = background,
                                1 = best-effort,
                                2 = excellent-effort,
                                3 =
critical-applications,
                                4 = video,
                                5 = voice,
                                6 =
internetwork-control,
                                7 = network-control

```

```

network.vlan.x.brdev         interface
VLAN bridge interface (e.g. lan1)

```

LAN Interfaces (IP)

```

network.lan.x.mode          enum          lan,wan
LAN interface operational mode
network.lan.x.address       address
LAN interface address
network.lan.x.netmask       address
LAN interface netmask
network.lan.x.mtu           integer
LAN interface max. transmission unit
network.lan.x.alias.y.address address
LAN interface alias address
network.lan.x.alias.y.netmask address
LAN interface alias netmask
network.lan.x.proxyarp      integer          0 = disabled, 1 =
enabled                    LAN interface Proxy-ARP status

```

WLAN Interfaces (IP)

```

network.wlan.x.mode         enum          routed,bridged
WLAN interface network mode
network.wlan.x.mtu          integer
WLAN interface max. transmission unit

```

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```

network.wlan.x.address      address
WLAN interface address
network.wlan.x.netmask     address
WLAN interface netmask
network.wlan.x.gateway     address
WLAN interface gateway
network.wlan.x.brdev       interface
WLAN interface bridge interface
network.wlan.x.proxyarp    integer          0 = disabled, 1 =
enabled                WLAN interface Proxy-ARP status

# WAN Interfaces (IP)
network.wan.x.interface    interface
WAN interface
network.wan.x.mode         enum                dhcp,static,pppoe
WAN interface operational mode
network.wan.x.address     address
WAN interface address (static)
network.wan.x.netmask     address
WAN interface netmask (static)
network.wan.x.gateway     address
WAN interface gateway (static)
network.wan.x.dns0        address
WAN interface primary DNS server (static)
network.wan.x.dns1        address
WAN interface secondary DNS server (static)
network.wan.x.username    string
WAN interface username (pppoe)
network.wan.x.password    password
WAN interface password (pppoe)
network.wan.x.service     string
WAN interface service name (pppoe)
network.wan.x.ac           string
WAN interface access concentrator name (pppoe)
network.wan.x.mtu          integer
WAN interface max. transmission unit

# DNS
network.dns.status         integer          0 = disabled, 1 =
enabled                DNS administrative status
network.dns.domain         hostname
DNS domain name
network.dns.server0        address
DNS primary name server
network.dns.server1        address
DNS secondary name server

```

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```

# DNS Static Hosts
network.dns.hosts.0.name      hostname
DNS static host hostname
network.dns.hosts.0.address  address
DNS static host address

# DHCP
network.dhcp.x.mode           integer           0 = disabled, 1 =
server, 2 = relay           DHCP operational mode
network.dhcp.x.start         address
DHCP first lease address
network.dhcp.x.end          address
DHCP last lease address
network.dhcp.x.ttl          integer
DHCP lease duration
network.dhcp.x.relay        address
DHCP primary relay address (relay)
network.dhcp.x.relay2       address
DHCP secondary relay address (relay)
network.dhcp.x.perst        integer           0 = disabled, 1 =
enabled                     DHCP persistent leases
network.dhcp.x.ignore       integer           0 = disabled, 1 =
enabled                     DHCP only allow static hosts
network.dhcp.x.gateway      address
DHCP option gateway
network.dhcp.x.agent        string
DHCP option agent identifier
network.dhcp.x.dns0         address
DHCP option primary DNS
network.dhcp.x.dns1         address
DHCP option secondary DNS
network.dhcp.x.wins0        address
DHCP option primary WINS
network.dhcp.x.wins1        address
DHCP option secondary WINS

# DHCP Static Hosts
network.dhcp.hosts.x.interface interface
DHCP static host interface (e.g. lan0)
network.dhcp.hosts.x.address address
DHCP static host address
network.dhcp.hosts.x.mac     mac
DHCP static host MAC address
network.dhcp.hosts.x.port    integer
DHCP static host Ethernet port
network.dhcp.hosts.x.name    hostname
DHCP static host name

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```

# NTP
network.ntp.status          integer          0 = disabled, 1 =
enabled                    NTP administrative status
network.ntp.server0        hostname
NTP primary server
network.ntp.server1        hostname
NTP secondary server
network.ntp.ping           integer          0 = disabled, 1 =
enabled                    NTP ping check
network.ntp.interval       integer          64..4096 seconds
NTP poll interval
network.ntp.gpstime        integer          0 = disabled, 1 =
enabled                    NTP GNSS time sync
network.ntp.access.x.address address
NTP allowed hosts network
network.ntp.access.x.netmask address
NTP allowed hosts netmask

# WAN links
wanlink.0.mode             integer          0 = disabled, 1 =
permanent,                WAN link operational mode
distributed                2 = on switchover, 3 =
wanlink.0.multipath        integer          0 = disabled, 1 =
enabled, 2 = backup        WAN link Multipath-TCP mode
wanlink.0.name             string
WAN link interface name
wanlink.0.prio             integer
WAN link priority
wanlink.0.weight           integer          1..10
WAN link weight (distributed mode)
wanlink.0.switchback       integer          60..3600 seconds
WAN link switchback interval (on switchover mode)
wanlink.0.suspend         integer          10..60 seconds
WAN link suspend threshold
wanlink.0.options          enum              random-address
WAN link use random MAC for DHCP request
wanlink.0.brdev            interface
WAN link bridge interface (e.g. lan0)
wanlink.0.passthru.interface interface
WAN link IP-passthrough interface
wanlink.0.passthru.network address
WAN link IP-passthrough network
wanlink.0.passthru.netmask address
WAN link IP-passthrough netmask

```

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# QoS
qos.status integer 0 = disabled, 1 =
enabled QoS administrative status

qos.interface.x.name string
QoS interface name
qos.interface.x.cong enum fixed, auto
QoS interface bandwidth congestion mode
qos.interface.x.type integer 0 = WAN, 1 = LAN
QoS interface type
qos.interface.x.uprate double
QoS interface upstream bandwidth
qos.interface.x.downrate double
QoS interface downstream bandwidth
qos.interface.x.pingip.primary address
QoS interface primary ping address
qos.interface.x.pingip.secondary address
QoS interface secondary ping address

qos.queue.0.desc string
QoS queue description
qos.queue.0.direction enum inbound, outbound
QoS queue direction
qos.queue.0.limit double
QoS queue bandwidth limit
qos.queue.0.interface integer
QoS queue interface index
qos.queue.0.prio integer 1..10
QoS queue priority
qos.queue.0.tos integer -1 = don not set,
QoS queue TOS value

0 = normal-service,
2 = minimize-cost,
4 =
maximize-reliability,
8 =
maximize-throughput,
16 = minimize-delay

qos.service.0.queue integer
QoS service queue index
qos.service.0.address address
QoS service source address
qos.service.0.snetmask address
QoS service source netmask
qos.service.0.sport port
QoS service source port

```

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```

qos.service.0.address          address
QoS service destination address
qos.service.0.dnetmask        address
QoS service destination netmask
qos.service.0.dport           port
QoS service destination port
qos.service.0.proto           enum          ANY,UDP,TCP
QoS service protocol
qos.service.0.tos             integer      -1 = unspecified,
QoS service type of service
                                0 = normal-service,
                                2 = minimize-cost
                                4 =
maximize-reliability,
                                8 =
maximize-throughput,
                                16 = minimize-delay

# Mobile IP
mobileip.x.status             integer      0 = disabled,
1 = enabled      MIP administrative status
mobileip.x.mode              integer      0 = disabled,
MIP operational mode
                                1 =
mobile-node,
                                2 = home-agent

# Mobile IP (mobile-node)
mobileip.x.homeAgentAddress0  address
MIP primary home agent address
mobileip.x.homeAgentAddress1  address
MIP secondary home agent network
mobileip.x.homeAddress        address
MIP home address
mobileip.x.spi                string      8-digit hex
string      MIP SPI
mobileip.x.sharedSecret       password    hex or ascii
string      MIP shared secret
mobileip.x.sharedSecretEncoding  enum      hex,ascii
MIP shared secret encoding
mobileip.x.authenticationType  enum
prefix-suffix-md5,hmac-md5    MIP authentication type
mobileip.x.lifeTime           integer      30..6535
seconds      MIP life time
mobileip.x.mtu                integer
MIP interface max. transmission unit
mobileip.x.udpEncapsulation   integer      0 = disabled,
1 = enabled      MIP UDP encapsulation

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```

mobileip.x.mobileNetworkAddress      address
MIP mobile network address
mobileip.x.mobileNetworkMask        address
MIP mobile network netmask

mobileip.registrationBaseTimeout     integer
MIP registration base timeout
mobileip.registrationRetriesPerHomeAgent integer
MIP registration retries per agent
mobileip.connectivityLossRetryTimeout integer
MIP connectivity loss retry timeout
mobileip.maxTimestampDelta           integer
MIP max. timestamp delta
mobileip.maxConsecutiveKeepaliveFailures integer
MIP max. keepalive failures
mobileip.minimalisticKeepalive       integer
MIP minimalistic keepalive

# Mobile IP (home-agent)
mobileip.x.homeNetworkAddress        address
MIP home network address
mobileip.x.homeNetworkMask          address
MIP home network mask

mobileip.x.node.y.spi                integer      8-digit hex
string                               MIP node SPI
mobileip.x.node.y.sharedSecret        password     hex or ascii
string                               MIP node shared secret
mobileip.x.node.y.sharedSecretEncoding enum         hex,ascii
MIP node shared secret encoding
mobileip.x.node.y.authenticationType  enum
prefix-suffix-md5,hmac-md5          MIP node authentication type

# OpenVPN
openvpn.status                       integer      0 = disabled, 1 =
enabled                             OpenVPN administrative status
openvpn.restartonlinkchange          integer      0 = disabled, 1 =
enabled                             OpenVPN restart on link change
openvpn.mptcp.status                 integer      0 = disabled, 1 =
enabled                             OpenVPN Multipath-TCP support

openvpn.tunnel.x.mode                integer      0 = disabled,
OpenVPN tunnel operational mode
                                     1 = client (standard),
                                     2 = server (standard),
                                     3 = client (expert),

```

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		4 = server (expert)
openvpn.tunnel.x.peermode	enum	single, failover, random
OpenVPN tunnel peer selection mode		
openvpn.tunnel.x.server	host	
OpenVPN tunnel primary server		
openvpn.tunnel.x.port	port	
OpenVPN tunnel primary server port		
openvpn.tunnel.x.server2	host	
OpenVPN tunnel secondary server		
openvpn.tunnel.x.port2	port	
OpenVPN tunnel secondary server port		
openvpn.tunnel.x.auth	integer	0 = certificate-based, 1 = credential-based, 2 = none, 3 = both
OpenVPN tunnel authentication		
openvpn.tunnel.x.type	enum	tun, tap
OpenVPN tunnel interface type		
openvpn.tunnel.x.proto	enum	udp, tcp
OpenVPN tunnel protocol		
openvpn.tunnel.x.comp	integer	0 = disabled, 1 =
enabled	OpenVPN tunnel compression	
openvpn.tunnel.x.username	string	
OpenVPN tunnel username		
openvpn.tunnel.x.password	password	
OpenVPN tunnel password		
openvpn.tunnel.x.brdev	interface	
OpenVPN tunnel bridge interface (e.g. lan0)		
openvpn.tunnel.x.cipher	string	<empty> = automatic, none = none, AES-128-CBC, AES-128-CFB, AES-128-CFB1, AES-128-CFB8, AES-128-OFB, AES-192-CBC, AES-192-CFB, AES-192-CFB1, AES-192-CFB8, AES-192-OFB, AES-256-CBC, AES-256-CFB, AES-256-CFB1, AES-256-CFB8, AES-256-OFB,
OpenVPN tunnel cipher algorithm		

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		SEED - CBC , SEED - CFB , SEED - OFB , BF - CBC , BF - CFB , BF - OFB , CAST5 - CBC , CAST5 - CFB , CAST5 - OFB , DES - CBC , DES - CFB , DES - CFB1 , DES - CFB8 , DES - EDE - CBC , DES - EDE - CFB , DES - EDE - OFB , DES - EDE3 - CBC , DES - EDE3 - CFB , DES - EDE3 - CFB1 , DES - EDE3 - CFB8 , DES - EDE3 - OFB , DES - OFB , DESX - CBC , RC2 - 40 - CBC , RC2 - 64 - CBC , RC2 - CBC , RC2 - CFB , RC2 - OFB
openvpn.tunnel.x.digest OpenVPN tunnel HMAC digest	string	none , MD5 , RSA - MD5 , SHA1 , RSA - SHA1 , DSA - SHA1 - old , DSA - SHA1 , RSA - SHA1 - 2 , DSA , RIPEMD160 , RSA - RIPEMD160 , MD4 , RSA - MD4 , ecdsa - with - SHA1 , RSA - SHA256 , RSA - SHA384 , RSA - SHA512 ,

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```

RSA-SHA224,
SHA256,
SHA384,
SHA512,
SHA224,
whirlpool

openvpn.tunnel.x.keepalive integer 0 = disabled, 1 =
enabled OpenVPN tunnel keepalive status
openvpn.tunnel.x.redirgw integer 0 = disabled, 1 =
enabled OpenVPN tunnel redirect gateway status
openvpn.tunnel.x.negdns integer 0 = disabled, 1 =
enabled OpenVPN tunnel negotiate DNS status
openvpn.tunnel.x.usecrl integer 0 = disabled, 1 =
enabled OpenVPN tunnel use CRL to verify certificates
openvpn.tunnel.x.fragment integer
OpenVPN tunnel max. fragment size for UDP datagrams
openvpn.tunnel.x.mtu integer
OpenVPN tunnel max. transmission unit
openvpn.tunnel.x.duplicates enum allow,disconnect
OpenVPN tunnel duplicates handling

openvpn.server.network.address address
OpenVPN server transport network
openvpn.server.network.netmask address
OpenVPN server transport netmask
openvpn.server.route.allclients integer 0 = disabled, 1 =
enabled OpenVPN server routing between clients
openvpn.server.route.x.network address
OpenVPN server network address
openvpn.server.route.x.netmask address
OpenVPN server network netmask

openvpn.server.client.x.status integer 0 = disabled, 1 =
enabled OpenVPN client administrative status
openvpn.server.client.x.desc string
OpenVPN client description
openvpn.server.client.x.address address
OpenVPN client address

openvpn.server.client.network.x.client integer
OpenVPN client network client index
openvpn.server.client.network.x.network address
OpenVPN client network address
openvpn.server.client.network.x.netmask address
OpenVPN client network netmask

```

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```

# IPsec
ipsec.status integer 0 = disabled, 1 =
enabled IPsec administrative status
ipsec.ike.natTraversal integer 0 = disabled, 1 =
enabled IPsec propose NAT traversal
ipsec.restartonlinkchange integer 0 = disabled, 1 =
enabled IPsec restart on link change

ipsec.x.remote.serverIp host
IPsec tunnel remote peer address
ipsec.x.mode enum tunnel,transport
IPsec tunnel encapsulation mode
ipsec.x.ike.auth enum psk = pre-shared key,
IPsec tunnel authentication type
pki = public key
infrastructure,
xauth = extended
authentication
ipsec.x.ike.psk password
IPsec tunnel pre-shared key
ipsec.x.ike.keyexchange enum ikev1,ikev2
IPsec tunnel key exchange
ipsec.x.ike.username string
IPsec tunnel user name
ipsec.x.ike.userpass password
IPsec tunnel user password
ipsec.x.ike.groupname string
IPsec tunnel group name
ipsec.x.ike.grouppass password
IPsec tunnel group password
ipsec.x.ike.mode enum
aggressive,identity-protection IPsec tunnel IKE negotiation
mode
ipsec.x.ike.encryption enum 3des,
IPsec tunnel IKE encryption algorithm
aes128,
aes192,
selected>aes256,
blowfish128,
blowfish192,
blowfish256,
aesmac,
aes128ctr,
aes192ctr,
aes256ctr,
aes128gcm12,
aes192gcm12,

```

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		aes256gcm12,
		aes128gcm16,
		aes192gcm16,
		aes256gcm16,
		aes128gcm64,
		aes192gcm64,
		aes256gcm64,
		aes128gcm96,
		aes192gcm96,
		aes256gcm96,
		aes128gcm128,
		aes192gcm128,
		aes256gcm128,
<code>ipsec.x.ike.hash</code>	enum	
md5, sha1, sha256, sha384, sha512, aesxcbc		IPsec tunnel IKE authentication
algorithm		
<code>ipsec.x.ike.dh</code>	enum	
IPsec tunnel IKE Diffie-Hellman group		modp1024,
		modp1536,
		modp2048,
		modp3072,
		modp4096,
		modp6144,
		modp8192,
		ecp256,
		ecp384,
		ecp521,
		modp2048s256,
		ecp256bp,
		ecp384bp,
		ecp512bp,
<code>ipsec.x.ike.localId</code>	string	
IPsec tunnel IKE local ID type		
<code>ipsec.x.ike.localIdType</code>	enum	IP, FQDN, USER_FQDN
IPsec tunnel IKE local ID		
<code>ipsec.x.ike.remoteId</code>	string	
IPsec tunnel IKE remote ID type		
<code>ipsec.x.ike.remoteIdType</code>	enum	IP, FQDN, USER_FQDN
IPsec tunnel IKE remote ID		
<code>ipsec.x.ike.lifetime</code>	integer	60..172800 seconds
IPsec tunnel IKE lifetime		
<code>ipsec.x.ike.prf</code>	enum	
md5, sha1, sha256, sha384, sha512,		IPsec tunnel IKE pseudo-random
function		aesxcbc, aescmac

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```

ipsec.x.esp.encryption          enum          3des,
IPsec tunnel ESP encryption

aes128,
aes192,
aes256,
blowfish128,
blowfish192,
blowfish256,
aesmac,
aes128ctr,
aes192ctr,
aes256ctr,
aes128gcm12,
aes192gcm12,
aes256gcm12,
aes128gcm16,
aes192gcm16,
aes256gcm16,
aes128gcm64,
aes192gcm64,
aes256gcm64,
aes128gcm96,
aes192gcm96,
aes256gcm96,
aes128gcm128,
aes192gcm128,
aes256gcm128,

ipsec.x.esp.hash                enum
md5,sha1,sha256,sha384,sha512,aesxcbc  IPsec tunnel ESP authentication
algorithm

ipsec.x.esp.lifetime            enum          60..57600 seconds
IPsec tunnel ESP lifetime

ipsec.x.esp.pfs                 integer       0 = disabled, 1 =
enabled                          IPsec tunnel PFS status

ipsec.x.esp.pfsgroup            enum          <empty> = use from
phase1,                          IPsec tunnel PFS group

modp1024,
modp1536,
modp2048,
modp3072,
modp4096,
modp6144,
modp8192,
modp1024s160,
modp2048s224,
modp2048s256,

```

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```

ecp192,
ecp224,
ecp256,
ecp384,
ecp521,
ecp224bp,
ecp256bp,
ecp384bp,
ecp512bp
ipsec.x.esp.forceencaps    integer          0 = disabled, 1 =
enabled                    IPsec tunnel force encapsulation
ipsec.x.dpd.status        integer          0 = disabled, 1 =
enabled                    IPsec tunnel DPD status
ipsec.x.dpd.cycle         integer          1..60 seconds
IPsec tunnel DPD detection cycle
ipsec.x.dpd.failure       integer          1..20 times
IPsec tunnel DPD failure threshold
ipsec.x.dpd.action        enum             hold, restart, clear
IPsec tunnel DPD action

ipsec.x.local.y.lanAddress address
IPsec tunnel network local address
ipsec.x.local.y.lanMask   address
IPsec tunnel network local netmask
ipsec.x.local.y.natAddress address
IPsec tunnel network local NAT address
ipsec.x.remote.y.lanAddress address
IPsec tunnel network remote address
ipsec.x.remote.y.lanMask  address
IPsec tunnel network remote netmask

ipsec.server.client.x.status integer          0 = disabled, 1 =
enabled                    IPsec server client administrative status
ipsec.server.client.x.desc string
IPsec server client description

# GRE
gre.status                integer          0 = disabled, 1 =
enabled                    GRE administrative status

gre.tunnel.x.mode         integer          0 = disabled, 1 =
enabled                    GRE tunnel administrative status
gre.tunnel.x.type         enum             tun, tap
GRE tunnel interface type
gre.tunnel.x.peer         address
GRE tunnel peer address
gre.tunnel.x.local.address address

```

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```

GRE tunnel local address
gre.tunnel.x.local.netmask      address
GRE tunnel local netmask
gre.tunnel.x.remote.network     address
GRE tunnel remote network address
gre.tunnel.x.remote.netmask     address
GRE tunnel remote network netmask
gre.tunnel.x.brdev              interface
GRE tunnel bridge interface (e.g. lan0)

# PPTP
pptp.status                      integer          0 = disabled, 1 =
enabled                          PPTP administrative status

pptp.server.listen              address
PPTP server listen address
pptp.server.address             address
PPTP server address
pptp.server.start              address
PPTP server first client address
pptp.server.end                address
PPTP server last client address
pptp.server.client.x.username  string
PPTP server client username
pptp.server.client.x.password  password
PPTP server client password
pptp.server.client.x.address   address
PPTP server client address

pptp.tunnel.x.mode              integer          0 = disabled, 1 =
client, 2 = server             PPTP tunnel operational mode
pptp.tunnel.x.address           address
PPTP tunnel server address
pptp.tunnel.x.username         string
PPTP tunnel username
pptp.tunnel.x.password         password
PPTP tunnel password

# Dial-In
dialin.status                   integer          0 = disabled, 1 =
enabled                          Dial-In administrative status
dialin.device                   interface
Dial-In modem (e.g. wwan0)
dialin.address.start           address
Dial-In address range start
dialin.address.size            integer
Dial-In address range size

```

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```

# Firewall
firewall.status          integer          0 = disabled, 1 =
enabled                  Firewall administrative status

firewall.group.x.desc    string
Firewall group description
firewall.group.x.addr.y.address address
Firewall group address
firewall.group.x.addr.y.netmask address
Firewall group netmask
firewall.group.x.port.y.port port
Firewall group port

firewall.rule.x.mode     integer          0 = disabled, 1 = deny,
2 = allow               Firewall rule mode
firewall.rule.x.log      integer          0 = disabled, 1 =
enabled                  Firewall rule logging
firewall.rule.x.desc     string
Firewall rule description
firewall.rule.x.interface interface
Firewall rule incoming interface
firewall.rule.x.source   address
Firewall rule source address
firewall.rule.x.netmask  address
Firewall rule source netmask
firewall.rule.x.protocol integer          0 = ANY, 1 = UDP, 2 =
TCP, 3 = ICMP,         Firewall rule protocol
4 = ESP, 5 = GRE, 6 =

OSPF
firewall.rule.x.startPort port
Firewall rule first port
firewall.rule.x.endPort  port
Firewall rule last port
firewall.rule.x.tinterface interface
Firewall rule outgoing interface
firewall.rule.x.target   address
Firewall rule destination address
firewall.rule.x.tnetmask address
Firewall rule destination netmask
firewall.rule.x.mac      mac
Firewall rule source MAC address

# NAPT
napt.x.interface         interface
NAPT masquerading interface
napt.x.intHost           address

```

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```

NAPT masquerading source address
napt.x.intMask          address
NAPT masquerading source netmask

# NAPT Inbound Rule
napt.rule.x.status      integer          0 = disabled, 1 =
enabled                 NAPT rule administrative status
napt.rule.x.desc        string
NAPT rule description

napt.rule.x.direction   enum                IN
NAPT rule direction (inbound)
napt.rule.x.extHost     address
NAPT rule target address
napt.rule.x.extMask     address
NAPT rule target netmask
napt.rule.x.extInterface interface
NAPT rule incoming interface
napt.rule.x.extPort.start port
NAPT rule first port
napt.rule.x.extPort.end port
NAPT rule last port
napt.rule.x.protocol    integer          0 = ANY, 1 = UDP, 2 =
TCP,                    NAPT rule protocol
                        x                    3 = ESP, 4 = GRE
napt.rule.x.remNetwork  address
NAPT rule source address
napt.rule.x.remNetmask  address
NAPT rule source netmask
napt.rule.x.intHost     address
NAPT rule redirect address
napt.rule.x.intMask     address
NAPT rule redirect netmask
napt.rule.x.intPort     port
NAPT rule redirect port

# NAPT Outbound Rule
napt.rule.y.status      integer          0 = disabled, 1 =
enabled                 NAPT rule administrative status
napt.rule.y.desc        string
NAPT rule description

napt.rule.y.direction   enum                OUT
NAPT rule direction (outbound)
napt.rule.y.extHost     address
NAPT rule source address
napt.rule.y.extMask     address

```

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```

NAPT rule source netmask
napt.rule.y.extInterface      interface
NAPT rule outgoing interface
napt.rule.y.extPort.start    port
NAPT rule first port
napt.rule.y.extPort.end      port
NAPT rule last port
napt.rule.y.protocol         integer      0 = ANY, 1 = UDP, 2 =
TCP,                          NAPT rule protocol      3 = ESP, 4 = GRE

napt.rule.y.remNetwork       address
NAPT rule target address
napt.rule.y.remNetmask       address
NAPT rule target netmask
napt.rule.y.intHost          address
NAPT rule rewrite address
napt.rule.y.intMask          address
NAPT rule rewrite netmask
napt.rule.y.intPort          port
NAPT rule rewrite port

# DynDNS
ddns.status                  integer      0 = disabled, 1 =
enabled                      DynDNS administrative status

ddns.service.x.provider     enum          dyndns.org,
DynDNS service provider     changeip.com,
                             duckdns.org,
                             no-ip.com,
                             zoneedit.com,
                             afraid.org,
                             selfhost.de,
                             easydns.com,
                             namecheap.com,
                             3322.org,
                             ovh.com,
                             dnsexit.com,
                             dnsdynamic.org,
                             dnsomatic.com,
                             he.net,
                             dnsmax.com,
                             gnudip,
                             rfc2136,
                             router,
                             custom

ddns.service.x.source       enum          wan = derive from

```

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```

hotlink,                               DynDNS service dynamic address
                                       ifc = use outgoing
interface address,
                                       auto = query CheckIP

service
ddns.service.x.address                 address
DynDNS service NM server address
ddns.service.x.port                   port
DynDNS service NM server port
ddns.service.x.hostname               hostname
DynDNS service hostname
ddns.service.x.username               string
DynDNS service username
ddns.service.x.password               password
DynDNS service password
ddns.service.x.proto                  enum          http,https
DynDNS service protocol
ddns.service.x.url                    string
DynDNS service custom URL
ddns.service.x.keyname                string
DynDNS service rfc2136 TSIG key name
ddns.service.x.key                    password
DynDNS service rfc2135 TSIK key

ddns.server.status                    integer        0 = disabled, 1 =
enabled                               DynDNS server administrative status

# WAN Supervision
surveyor.ping.status                  integer        0 = disabled, 1 =
enabled                               Supervision administrative status
surveyor.ping.x.wanlink               string
Supervision WAN link name
surveyor.ping.x.mode                  integer        0 = also validate when
link comes up, Supervision ping mode
                                       1 = only validate if
link is up
surveyor.ping.x.primary                address
Supervision primary ping address
surveyor.ping.x.secondary             address
Supervision secondary ping address
surveyor.ping.x.interval              integer        3..3600 seconds
Supervision ping interval
surveyor.ping.x.retry                 integer        3..3600 seconds
Supervision retry ping interval (if failed)
surveyor.ping.x.timeout               integer        500.30000 seconds
Supervision ping timeout
surveyor.ping.x.maxfailures           integer        3..20 times

```

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```

Supervision max. number of failures
surveyor.ping.x.maxdowntime      integer      3..60 minutes
Supervision max. downtime
surveyor.ping.x.action           enum         restart, reboot
Supervision action

# GNSS Supervision
surveyor.gnss.status             integer      0 = disabled, 1 =
enabled                          Supervision administrative status
surveyor.gnss.mode               integer      0 = disabled,
Supervision operational mode
stream,                           1 = validate NMEA
surveyor.gnss.maxdowntime        integer      2 = validate GPS fix
Supervision max. downtime        3..3600 seconds
surveyor.gnss.action             enum         restart, reset
Supervision action
surveyor.gnss.maxflaps           integer      1..100 times
Supervision max. number of flaps per 5min

# Ignition supervision
surveyor.ignition.status         integer      0 = disabled, 1 =
enabled                          Supervision administrative status
surveyor.ignition.hold           integer      0..3600 seconds
Supervision ignition hold time

# Voice
voice.status                     integer      0 = disabled, 1 =
enabled                          Voice administrative status
voice.routing                    enum         generic, sdk
Voice call routing mechanism

voice.sip.status                 integer      0 = disabled, 1 =
enabled                          Voice SIP administrative status
voice.sip.interface              interface
Voice SIP interface
voice.sip.port                   port
Voice SIP port
voice.sip.expires                integer      60..3600 seconds
Voice SIP registration expiry time

voice.endpoint.x.type            enum         vom =
Voice-over-Mobile,               Voice endpoint type
                                  sip = SIP (registrar),
                                  directsip = SIP
(direct),

```

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```

(user-agent),
useragentsip = SIP

voice.endpoint.x.desc          string          aud = Audio,
                               Voice endpoint description          nil = Nil-Device
voice.endpoint.x.device       interface
Voice endpoint modem (e.g. wwan0)
voice.endpoint.x.profile      enum
handset,headset,speakerphone, Voice endpoint audio profile
                               x          bluetooth,carkit
voice.endpoint.x.volume       integer          0..9
Voice endpoint volume level
voice.endpoint.x.host         address
Voice endpoint SIP host
voice.endpoint.x.port         port
Voice endpoint SIP port
voice.endpoint.x.domain       string
Voice endpoint SIP domain
voice.endpoint.x.subscriber    string
Voice endpoint SIP subscriber
voice.endpoint.x.username     string
Voice endpoint SIP username
voice.endpoint.x.password     password
Voice endpoint SIP password
voice.endpoint.x.options      enum          auto-accept
Voice endpoint options

voice.endpoint.x.register.enabled integer 0 = disabled, 1 =
enabled          Voice endpoint SIP registration enabled
voice.endpoint.x.register.subscriber string
Voice endpoint SIP registration subscriber
voice.endpoint.x.register.expires integer 60..3600 seconds
Voice endpoint SIP registration expiry time

voice.route.x.mode            integer 0 = DROP, 1 = ROUTE
Voice route operational mode
voice.route.x.source          phone-number
Voice route calling number
voice.route.x.dest            phone-number
Voice route called number

# SNMP
snmp.status                   integer 0 = disabled, 1 =
enabled          SNMP administrative status
snmp.mode                      integer 0 = all, 1 = v3-only
SNMP operational mode

```

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```

snmp.port port
SNMP listening port
snmp.community string
SNMP v1/v2c read community
snmp.contact string
SNMP contact info
snmp.location string
SNMP location info
snmp.auth enum MD5,SHA
SNMP v3 authentication
snmp.enc enum DES,AES
SNMP v3 encryption
snmp.admin.community string
SNMP v1/v2c admin community
snmp.admin.host address
SNMP v1/v2c admin allowed host

# LwM2M
lwm2m.status integer 0 = disabled, 1 =
enabled LwM2M administrative status
lwm2m.agent.x.server address
LwM2M agent server address
lwm2m.agent.x.bootstrap integer 0 = disabled, 1 =
enabled LwM2M agent bootstrap status
lwm2m.agent.x.security enum none,psk,cert
LwM2M agent security
lwm2m.agent.x.id string
LwM2M agent identification
lwm2m.agent.x.key password
LwM2M agent passphrase

# GNSS
gpsd.x.status integer 0 = disabled, 1 =
enabled GNSS administrative status
gpsd.x.mode enum
standalone,ms-based,ms-assisted GNSS operational mode
gpsd.x.atype enum active,passive
GNSS antenna type
gpsd.x.interval integer 1..60 seconds
GNSS fix frame interval
gpsd.x.accuracy integer 5..1000 meter
GNSS accuracy
gpsd.x.supl string <host>:<port>
GNSS SUPL server
gpsd.x.apn string
GNSS SUPL APN
gpsd.x.port port

```

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```

GNSS server port
gpsd.x.cmode                integer          0 = on request,
GNSS server client start mode
                               1 = raw,
                               2 = super-raw,
                               3 = json
gpsd.x.allowed              string            <address>/<netmask>
GNSS server allowed client hosts
gpsd.x.maxdist              integer          0 = off,
GNSS max. linear distance between fixes
                               1..10000 meter
gpsd.x.ftimeout             integer          0 = off,
GNSS max. frame timeout
                               1..300 seconds

# DIO
dio.out1                    enum              on,off
DIO OUT1 default state
dio.out2                    enum              on,off
DIO OUT2 default state

# Administration
admin.password              password
Administrator password
admin.bootpass              password
Bootloader password
admin.shell                 enum              cli,sh
Administrator shell
admin.access                integer          0 = ignore,
Authentication method
                               1 = authentication
required,
                               2 = secure
authentication required,
                               3 = secure
authentication preferred

admin.debug                 integer          0 = disabled, 1 =
enabled                    Enabled GUI debugging
admin.area                  enum              stationary,mobe
Application area

# Logging
syslog.storage              enum              root,flash,extended
Syslog storage
syslog.redirect             address
Syslog redirect address

```

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<code>syslog.filesize</code>	integer	1024..<max> kB
Syslog max. file size		
# LEDs		
<code>led.mode</code>	integer	0 = right/top,
LED banks to be displayed		
		1 = left/bottom,
		2 = both (toggle mode)
# reboot		
<code>reboot.delay</code>	integer	3..300 seconds
Reboot delay		
# Users		
<code>user.x.name</code>	string	
User name		
<code>user.x.role</code>	enum	user,admin
User role		
<code>user.x.password</code>	password	
User password		
<code>user.x.desc</code>	string	
User description		
<code>user.x.shell</code>	enum	cli,sh
User shell		
# Remote Authentication		
<code>radius.status</code>	integer	0 = disabled, 1 =
enabled	RADIUS administrative status	
<code>radius.mode</code>	integer	0 = do not use for
login,	RADIUS operational mode	
		1 = use for login
<code>radius.server</code>	address	
RADIUS server address		
<code>radius.secret</code>	password	
RADIUS server secret		
<code>radius.authport</code>	port	
RADIUS server authentication port		
<code>radius.acctport</code>	port	
RADIUS server accounting port		
# SMS daemon		
<code>smsd.status</code>	integer	0 = disabled, 1 =
enabled	SMSD administrative status	
<code>smsd.report</code>	integer	0 = disabled, 1 =
enabled	SMSD request delivery report	
<code>smsd.x.device</code>	interface	
SMSD SIM device (e.g. <code>sim0</code>)		

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```

smsd.x.gateway                string                <empty> = use from SIM
SMSD gateway

smsd.rule.outgoing.x.number   phone-number
SMS route phone number
smsd.rule.outgoing.x.mode     integer                0 = DROP, 1 = FORWARD
SMS route mode
smsd.rule.outgoing.x.device   interface
SMS route destination device (e.g. sim0)

smsd.rule.incoming.x.number   phone-number
SMS filter phone number
smsd.rule.incoming.x.mode     integer                0 = DROP, 1 = ALLOW
SMS filter mode
smsd.rule.incoming.x.device   interface
SMS filter incoming device (e.g. sim0)

# E-Mail
email.sending.status          integer                0 = disabled, 1 =
enabled                        E-Mail administrative status
email.sending.smtp.host       host
E-Mail server address
email.sending.smtp.port       port
E-Mail server port
email.sending.smtp.from        e-mail
E-Mail from address
email.sending.smtp.authentication enum                    E-Mail authentication
automatic,cram-md5,login,none
email.sending.smtp.username    string
E-Mail username
email.sending.smtp.password    password
E-Mail password
email.sending.smtp.encryption  enum                    none,tls
E-Mail encryption

# Events
event.recipient.x.status      integer                0 = disabled, 1 =
enabled                        Event recipient administrative state
event.recipient.x.desc        string
Event recipient description
event.recipient.x.mail        e-mail
Event recipient E-Mail
event.recipient.x.number      phone-number
Event recipient phone number
event.recipient.x.trap.host    host
Event recipient trap host
event.recipient.x.trap.port    port

```

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```

Event recipient trap port
event.recipient.x.trap.username string
Event recipient trap username
event.recipient.x.trap.password password
Event recipient trap password
event.recipient.x.trap.auth      enum          MD5,SHA
Event recipient trap authentication
event.recipient.x.trap.enc      enum          DES,AES
Event recipient trap encryption
event.recipient.x.trap.engine   string
Event recipient trap engine ID
event.recipient.x.match        string          comma-separated list of
Event recipient matching events
                                wan-up,
                                wan-down,
                                dio-in1-on,
                                dio-in2-on,
                                dio-in1-off,
                                dio-in2-off,
                                dio-out1-on,
                                dio-out2-on,
                                dio-out1-off,
                                dio-out2-off,
                                gps-up,
                                gps-down,
                                openvpn-up,
                                openvpn-down,
                                ipsec-up,
                                ipsec-down,
                                gre-up,
                                gre-down,
                                dialin-up,
                                dialin-down,
                                mobileip-up,
                                mobileip-down,
                                pptp-up,
                                pptp-down,
                                system-login-failed,
                                system-login-succeeded,
                                system-logout,
                                system-rebooting,
                                system-poweroff,
                                system-startup,
                                sdk-startup,
                                system-error,
                                system-no-error,
                                sms-sent,

```

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```

sms-notsent,
sms-received,
sms-report-received,
call-incoming,
call-outgoing,
ddns-update-succeeded,
ddns-update-failed,
usb-storage-added,
usb-storage-removed,
usb-eth-added,
usb-eth-removed,
usb-serial-added,
usb-serial-removed,
system-time-updated,
redundancy-master,
redundancy-backup,
test

# Static Routes
route.0.interface          interface
Route interface
route.0.target             address
Route target address
route.0.netmask            address
Route target network
route.0.gateway            address
Route target gateway
route.0.metric             integer
Route metric

# OSPF
ospf.status                integer          0 = disabled, 1 =
enabled                   OSPF administrative status
ospf.redist.connected      integer          0 = disabled, 1 =
enabled                   OSPF redistribute connected routes
ospf.redist.kernel        integer          0 = disabled, 1 =
enabled                   OSPF redistribute local routes
ospf.redist.bgp           integer          0 = disabled, 1 =
enabled                   OSPF redistribute BGP routes
ospf.redist.default       integer          0 = disabled, 1 =
enabled                   OSPF redistribute default route
ospf.vrrpmasteronly       integer          1 = disabled, 0 =
enabled                   OSPF disable when redundancy backup

ospf.interface.x.name     interface
OSPF interface name
ospf.interface.x.auth     integer          0 = none, 1 = password,

```

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```

2 = hmac-md5    OSPF interface authentication
ospf.interface.x.keyid    string
OSPF interface key ID
ospf.interface.x.key    password
OSPF interface key
ospf.interface.x.cost    integer
OSPF interface cost
ospf.interface.x.passive    integer    0 = not passive, 1 =
passive    OSPF interface passive

ospf.network.x.prefix    address
OSPF network prefix address
ospf.network.x.prefixlength    integer
OSPF network prefix length
ospf.network.x.area    integer    0..65535
OSPF network area

# BGP
bgp.status    integer    0 = disabled, 1 =
enabled    BGP administrative status
bgp.as    interface
BGP AS number
bgp.redist.connected    integer    0 = disabled, 1 =
enabled    BGP redistribute connected routes
bgp.redist.kernel    integer    0 = disabled, 1 =
enabled    BGP redistribute local routes
bgp.redist.ospf    integer    0 = disabled, 1 =
enabled    BGP redistribute OSPF routes
bgp.vrrpmasteronly    integer    1 = disabled, 0 =
enabled    BGP disable when redundancy backup

bgp.neighbor.x.addr    address
BGP neighbor address
bgp.neighbor.x.as    integer
BGP neighbor AS number
bgp.neighbor.x.password    password
BGP neighbor password
bgp.neighbor.x.multihop    integer    0 = disabled, 1 =
enabled    BGP neighbor multihop

bgp.network.0.prefix    address
BGP network prefix address
bgp.network.0.prefixlength    integer
BGP network prefix length

# Extended Routes
eroute.x.source    address

```

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```

ExtRoute source address
eroute.x.snetmask          address
ExtRoute source netmask
eroute.x.target           address
ExtRoute destination address
eroute.x.tnetmask         address
ExtRoute destination netmask
eroute.x.proto            integer      0 = ANY, 1 = UDP, 2 =
TCP                        ExtRoute protocol
eroute.x.sport.start      port
ExtRoute first source port
eroute.x.sport.end        port
ExtRoute last source port
eroute.x.tport.start      port
ExtRoute first destination port
eroute.x.tport.end        port
ExtRoute last destination port
eroute.x.tos              integer      -1 = any,
ExtRoute type of service
                                0 = normal-service,
                                2 = minimize-cost,
                                4 =
maximize-reliability,
                                8 =
maximize-throughput,
                                16 = minimize-delay

eroute.x.iif              interface
ExtRoute incoming interface
eroute.x.gateway          address
ExtRoute target gateway
eroute.x.oif              interface
ExtRoute target interface
eroute.x.force            integer      0 = disabled, 1 =
enabled                    ExtRoute discard if down

# Multipath Routes
mroute.x.target           address
MultipathRoute target network
mroute.x.netmask          address
MultipathRoute target netmask
mroute.x.interface.y.name interface
MultipathRoute interface name
mroute.x.interface.y.weight integer      0..10
MultipathRoute weight
mroute.x.interface.y.nextthop address
MultipathRoute gateway

```

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```

# SSH Server
ssh.status                integer          0 = disabled, 1 =
enabled                  SSH server administrative status
ssh.port                 port
SSH server port
ssh.pwlogin              integer          0 = disabled, 1 =
enabled                  SSH password login
ssh.rootlogin            integer          0 = disabled, 1 =
enabled                  SSH root login

# Telnet Server
telnet.status            integer          0 = disabled, 1 =
enabled                  Telnet server administrative status
telnet.port             port
Telnet server port

# Web Server
http.status              integer          0 = disabled, 1 =
enabled                  Web server administrative status
http.port               port
Web server port
https.status             integer          0 = disabled, 1 =
enabled                  Web server HTTPS administrative status
https.port              port
Web server HTTPS port
https.security           integer          0 = none,
                        1 = old,
                        2 = modern
cliphp.status            integer          0 = disabled, 1 =
enabled                  CLI-PHP administrative status

# Serial Server
serial.x.status          integer          0 = disabled, 1 =
enabled                  Serial port administrative state

serial.server.x.baudrate  enum
300,1200,2400,4800,9600,19200,
                        Serial server port baudrate
                        38400,57600,115200

serial.server.x.parity   enum
Serial server parity
                        NONE, ODD, EVEN
serial.server.x.stopbits  enum
Serial server stop bits
                        1,2
serial.server.x.databits  enum
                        7,8

```

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```

Serial server data bits
serial.server.x.xonxoff          enum          0 = none, 1 = XON/XOFF
Serial server software flow control
serial.server.x.rtscts          enum          0 = none, 1 = RTS/CTS
Serial server hardware flow control
serial.server.x.physproto       enum          RS232,RS485,IBIS
Serial server physical protocol

serial.server.x.protocol        enum          raw,telnet
Serial server protocol on IP port
serial.server.x.port            port
Serial server port
serial.server.x.timeout         integer       0 = endless,
Serial server timeout
                                                    1..600 seconds
serial.server.x.remctl          integer       0 = disabled, 1 =
enabled                          Serial server RFC 2217 remote control
serial.server.x.allowed         string        <address>/<netmask>
Serial server allowed hosts
serial.server.x.banner          integer       0 = disabled, 1 =
enabled                          Serial server show banner

serial.server.x.modem           interface
Serial modem bridge device (e.g. wwan0)

# Audio
audio.x.volume                  integer       0..9
Audio default volume level

# Maintenance
manual.swupdate.url            url
Manual software update URL

auto.swupdate.status           integer       0 = disabled, 1 =
enabled                          Automatic software update administrative status
auto.swupdate.time             string        <HH>:<MM>
Automatic software update time of day
auto.swupdate.url              url
Automatic software update URL

auto.cfupdate.status           integer       0 = disabled, 1 =
enabled                          Automatic config update administrative status
auto.cfupdate.time             string        <HH>:<MM>
Automatic config update time of day
auto.cfupdate.url              url
Automatic config update URL

```

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```

auto.reboot.status          integer          0 = disabled, 1 =
enabled                    Automatic reboot administrative status
auto.reboot.time           string           <HH>:<MM>
Automatic reboot time of day

# VRRP
vrrpd.status              integer          0 = disabled, 1 =
enabled                  VRRP administrative status
vrrpd.id                 integer
VRRP ID
vrrpd.prio               enum             100 = master, 1 =
backup                  VRRP role
vrrpd.interface          interface
VRRP interface (e.g. lan0)
vrrpd.address            address
VRRP virtual gateway address

# Discovery
lldpd.status             integer          0 = disabled, 1 =
enabled                 Discovery administrative status
lldpd.proto             string           comma-separated list of
Discovery protocols
                        lldp, cdp, sonmp, edp,
                        fdp, irdp

# IGMP Proxy
igmpproxy.status        integer          0 = disabled, 1 =
enabled                 IGMP proxy administrative status
igmpproxy.interface     interface
IGMP proxy incoming interface
igmpproxy.downstream    string           all = all LAN
interfaces              IGMP proxy downstream interfaces
                        or comma-separated list
of interfaces
igmpproxy.sender.x.network address
IGMP proxy sender address
igmpproxy.sender.x.netmask address
IGMP proxy sender network

# Static Multicast Routing
smcroute.status         integer          0 = disabled, 1 =
enabled                 Static multicast administrative status

smcroute.x.group        address
Static multicast group address

```

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```

smcroute.x.source          address
Static multicast source address
smcroute.x.from           interface
Static multicast incoming interface
smcroute.x.to             interface
Static multicast outgoing interface

# ARP
arp.x.interface           interface
ARP interface
arp.x.host                address
ARP host address
arp.x.address             mac
ARP MAC address

# Arpwatch
arpwatch.status           integer          0 = disabled, 1 =
enabled                   Arpwatch administrative status
arpwatch.x.interface     interface
Arpwatch interface

# FTP Daemon
ftpd.status               integer          0 = disabled, 1 =
enabled                   FTP server administrative status

# TFTP Daemon
tftpd.status              integer          0 = disabled, 1 =
enabled                   TFTP server administrative status
tftpd.directory          string
TFTP server directory

# SDK
sdk.status                integer          0 = disabled, 1 =
enabled                   SDK administrative status
sdk.storage               enum
root, flash, extended, usb0  SDK storage
sdk.size                  integer          3..14 MB
SDK max. size
sdk.sched                 enum
low, normal, high
SDK scheduling priority
sdk.watchdog              integer          0 = disabled, 1 =
enabled                   SDK watchdog script monitoring

sdk.trigger.x.name        string
SDK trigger name
sdk.trigger.x.timecond    enum
hourly, daily, weekly, monthly, yearly,  SDK trigger time condition

```

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```

workdays,weekend,periodically
sdk.trigger.x.timespec          string
SDK trigger timespec
sdk.trigger.x.event            enum
SDK trigger event

wan-up,
wan-down,
dio-in1-on,
dio-in2-on,
dio-in1-off,
dio-in2-off,
dio-out1-on,
dio-out2-on,
dio-out1-off,
dio-out2-off,
gps-up,
gps-down,
openvpn-up,
openvpn-down,
ipsec-up,
ipsec-down,
gre-up,
gre-down,
dialin-up,
dialin-down,
mobileip-up,
mobileip-down,
pptp-up,
pptp-down,
system-login-failed,
system-login-succeeded,
system-logout,
system-rebooting,
system-poweroff,
system-startup,
sdk-startup,
system-error,
system-no-error,
sms-sent,
sms-notsent,
sms-received,
sms-report-received,
call-incoming,
call-outgoing,
ddns-update-succeeded,
ddns-update-failed,
usb-storage-added,

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```

usb-storage-removed,
usb-eth-added,
usb-eth-removed,
usb-serial-added,
usb-serial-removed,
system-time-updated,
redundancy-master,
redundancy-backup,
test

sdk.script.0.name          string
SDK script name
sdk.script.0.desc          string
SDK script description
sdk.script.0.args          string          colon-separated list of
arguments                  SDK script arguments

sdk.job.0.name             string
SDK job name
sdk.job.0.trigger          integer
SDK job trigger index
sdk.job.0.script           integer
SDK job script index
sdk.job.0.args             string          colon-separated list of
arguments                  SDK job arguments

# Virtualization
virt.status                integer          0 = disabled, 1 =
enabled                    Virtualization administrative status

virt.guest.x.status        integer          0 = disabled, 1 =
enabled                    Virtual guest administrative status
virt.guest.x.desc          string
Virtual guest description
virt.guest.x.type          enum              lxc
Virtual guest type
virt.guest.x.storage       enum              flash,extended,usb0
Virtual guest storage
virt.guest.x.limit.cpu     double          0.5..1.0
Virtual guest CPU limit
virt.guest.x.limit.memory  integer          32.768
Virtual guest memory limit

virt.guest.x.network.y.mode integer          0 = disabled, 1 =
routed, 2 = bridged      Virtual network mode
virt.guest.x.network.y.brdev interface
Virtual network bridge interface

```

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<code>virt.guest.x.network.y.address</code>	address	
Virtual network address		
<code>virt.guest.x.network.y.netmask</code>	address	
Virtual network netmask		
<code>virt.guest.x.network.y.gateway</code>	address	
Virtual network gateway		
<code>virt.guest.x.device.y.name</code>	string	
Virtual device name		
<code>virt.guest.x.device.y.type</code>	enum	can, bluetooth
Virtual device type		
<code># custom</code>		
<code>custom.status</code>	integer	
<code>custom.secret</code>	string	
<code>custom.var0</code>	string	
<code>custom.var1</code>	string	
<code>custom.var2</code>	string	
<code>custom.var3</code>	string	
<code>custom.var4</code>	string	
<code>custom.table0.x.var0</code>	string	
<code>custom.table0.x.var1</code>	string	
<code>custom.table0.x.var2</code>	string	
<code>custom.table0.x.var3</code>	string	
<code>custom.table0.x.var4</code>	string	
<code>custom.table1.x.var0</code>	string	
<code>custom.table1.x.var1</code>	string	
<code>custom.table1.x.var2</code>	string	
<code>custom.table1.x.var3</code>	string	
<code>custom.table1.x.var4</code>	string	
<code>custom.table2.0.var0</code>	string	
<code>custom.table2.0.var1</code>	string	
<code>custom.table2.0.var2</code>	string	
<code>custom.table2.0.var3</code>	string	
<code>custom.table2.0.var4</code>	string	

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