

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.pincod               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
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
ethernet.port.x.status integer                0 = disabled, 1 =
enabled                Ethernet port administrative status

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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
wlan.x.client.y.minrssi       integer          -100..-10 dBm
WLAN client min. required RSSI value

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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
CAN device bitrate

```

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```

# 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
network.wlan.x.address       address
WLAN interface address

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```

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

# DNS Static Hosts
network.dns.hosts.0.name       hostname

```

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```

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

# NTP

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```

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
                           2 = on switchover, 3 =
distributed
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

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

```

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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.saddress	address	
QoS service source address		
qos.service.0.snetmask	address	
QoS service source netmask		
qos.service.0.sport	port	
QoS service source port		
qos.service.0.daddress	address	
QoS service destination address		

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```

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 =
                                8 =
                                16 = minimize-delay

maximize-reliability,

maximize-throughput,

# 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
mobileip.x.mobileNetworkAddress address
MIP mobile network address

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```

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),
                                           4 = server (expert)

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

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		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	string	none,
OpenVPN tunnel HMAC digest		MD5,
		RSA-MD5,
		SHA1,
		RSA-SHA1,
		DSA-SHA1-old,
		DSA-SHA1,
		RSA-SHA1-2,
		DSA,
		RIPMD160,
		RSA-RIPMD160,
		MD4,
		RSA-MD4,
		ecdsa-with-SHA1,
		RSA-SHA256,
		RSA-SHA384,
		RSA-SHA512,
		RSA-SHA224,
		SHA256,

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```

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

# IPsec
ipsec.status integer 0 = disabled, 1 =

```

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```

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
                                   xauth = extended

infrastructure,

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,
                                   aescmac,
                                   aes128ctr,
                                   aes192ctr,
                                   aes256ctr,
                                   aes128gcm12,
                                   aes192gcm12,
                                   aes256gcm12,
                                   aes128gcm16,

```

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		<pre> aes192gcm16, aes256gcm16, aes128gcm64, aes192gcm64, aes256gcm64, aes128gcm96, aes192gcm96, aes256gcm96, aes128gcm128, aes192gcm128, aes256gcm128, </pre>
<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		<pre> modp1024, modp1536, modp2048, modp3072, modp4096, modp6144, modp8192, ecp256, ecp384, ecp521, modp2048s256, ecp256bp, ecp384bp, ecp512bp, </pre>
<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
function		<pre> aesxcbc, aescmac 3des, </pre>
<code>ipsec.x.esp.encryption</code>	enum	
IPsec tunnel ESP encryption		

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```

aes128,
aes192,
aes256,
blowfish128,
blowfish192,
blowfish256,
aescmac,
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
enabled                  IPsec tunnel PFS status      0 = disabled, 1 =
ipsec.x.esp.pfsgroup     enum          <empty> = use from
phase1,                  IPsec tunnel PFS group

```

```

modp1024,
modp1536,
modp2048,
modp3072,
modp4096,
modp6144,
modp8192,
modp1024s160,
modp2048s224,
modp2048s256,
ecp192,
ecp224,

```

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```

eip256,
eip384,
eip521,
eip224bp,
eip256bp,
eip384bp,
eip512bp
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
GRE tunnel local address
gre.tunnel.x.local.netmask  address

```

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```

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

# Firewall

```

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```

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
NAPT masquerading source address
napt.x.intMask address

```

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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
NAPT rule source netmask
napt.rule.y.extInterface   interface

```

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```

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
hotlink,                          DynDNS service dynamic address
                                  ifc = use outgoing

```

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```

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
link is up
1 = only validate if

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
Supervision max. number of failures
surveyor.ping.x.maxdowntime integer          3..60 minutes

```

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```

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
2 = validate GPS fix
3..3600 seconds
surveyor.gnss.maxdowntime      integer
Supervision max. downtime
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 adminstrative 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),
useragentsip = SIP
(user-agent),

```

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```

aud = Audio,
nil = Nil-Device

voice.endpoint.x.desc          string
Voice endpoint description

voice.endpoint.x.device       interface
Voice endpoint modem (e.g. wwan0)

voice.endpoint.x.profile      enum
handset, headset, speakerphone,
                               x          Voice endpoint audio profile
                                         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

snmp.port                     port
SNMP listening port

```

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```

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
GNSS server port
gpsd.x.cmode                   integer                0 = on request,

```

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```

GNSS server client start mode

1 = raw,
2 = super-raw,
3 = json
<address>/<netmask>

gpsd.x.allowed string
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
syslog.filesize integer 1024..<max> kB
Syslog max. file size

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```

# LEDs
led.mode                integer          0 = right/top,
LED banks to be displayed
                                1 = left/bottom,
                                2 = both (toggle mode)

# reboot
reboot.delay            integer          3..300 seconds
Reboot delay

# Users
user.x.name             string
User name
user.x.role             enum              user,admin
User role
user.x.password         password
User password
user.x.desc             string
User description
user.x.shell            enum              cli,sh
User shell

# Remote Authentication
radius.status           integer          0 = disabled, 1 =
enabled                 RADIUS administrative status
radius.mode             integer          0 = do not use for
login,                  RADIUS operational mode
                                1 = use for login

radius.server           address
RADIUS server address
radius.secret           password
RADIUS server secret
radius.authport         port
RADIUS server authentication port
radius.acctport         port
RADIUS server accounting port

# SMS daemon
smsd.status             integer          0 = disabled, 1 =
enabled                 SMSD administrative status
smsd.report             integer          0 = disabled, 1 =
enabled                 SMSD request delivery report
smsd.x.device           interface
SMSD SIM device (e.g. sim0)
smsd.x.gateway          string          <empty> = use from SIM
SMSD gateway

```

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```

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
automatic,cram-md5,login,none  E-Mail authentication
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
Event recipient trap port
event.recipient.x.trap.username string

```

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```

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,
                                     sms-notsent,
                                     sms-received,

```

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```

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,
2 = hmac-md5    OSPF interface authentication
ospf.interface.x.keyid   string

```

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```

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
ExtRoute source address
eroute.x.snetmask            address

```

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```

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

# SSH Server

```

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```

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
serial.server.x.stopbits enum
Serial server stop bits
serial.server.x.databits enum
Serial server data bits
serial.server.x.xonxoff  enum
                        0 = none, 1 = XON/XOFF

```

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```

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

auto.reboot.status            integer       0 = disabled, 1 =

```

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```

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
smcroute.x.source       address
Static multicast source address

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```

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
workdays, weekend, periodically

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<code>sdk.trigger.x.timespec</code>	string	
SDK trigger timespec		
<code>sdk.trigger.x.event</code>	enum	wan-up,
SDK trigger event		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,
		usb-storage-removed,
		usb-eth-added,

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```

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
virt.guest.x.network.y.address address
Virtual network address

```

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```

virt.guest.x.network.y.netmask address
Virtual network netmask
virt.guest.x.network.y.gateway address
Virtual network gateway

virt.guest.x.device.y.name string
Virtual device name
virt.guest.x.device.y.type enum can,bluetooth
Virtual device type

# custom
custom.status integer
custom.secret string
custom.var0 string
custom.var1 string
custom.var2 string
custom.var3 string
custom.var4 string

custom.table0.x.var0 string
custom.table0.x.var1 string
custom.table0.x.var2 string
custom.table0.x.var3 string
custom.table0.x.var4 string

custom.table1.x.var0 string
custom.table1.x.var1 string
custom.table1.x.var2 string
custom.table1.x.var3 string
custom.table1.x.var4 string

custom.table2.0.var0 string
custom.table2.0.var1 string
custom.table2.0.var2 string
custom.table2.0.var3 string
custom.table2.0.var4 string

```

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