mPower Edge Release 5.3 – API Delta

This document lists implemented changes to the mPower API for release 5.3 compared to 5.2. **NOTE:** The following information is subject to change without notice.

All the changes are marked in RED.

Contents

Commands

API supports a set of special actions using the Command URL (api/command). Execute a command using a POST request call method. A RESTful Get request returns an array of all available commands.

Element	Type	Description
bootloader_console	ACTION	Controls bootloader silent mode
bootloader_lock	ACTION	Controls password authentication to access the device bootloader
call_home_disable	ACTION	Disables call home feature with DeviceHQ
call_home_enable	ACTION	Enables call home feature with DeviceHQ
checkin_to_devicehq	ACTION	Triggers a check-in to DeviceHQ
clean_oem	ACTION	Clears user-defined default configurations from memory and returns the device to factory default
ddns_update	ACTION	Pushes DDNS information to the configured DDNS server
download_config	ACTION	Downloads the current configuration
firmware_check	ACTION	Uploads firmware file to device and checks it (POST mtr upgrade bin file)
firmware_pre_upgrade	ACTION	Prepares system for firmware upgrade (i.e. shuts down Node-RED, frees space for the upgrade package)
firmware_upgrade	ACTION	Upgrades device firmware
legacy_sync	ACTION	Synchronizes legacy configurations
loglvl_debug	ACTION	Sets the systems logging level to DEBUG
loglvl_info	ACTION	Sets the systems logging level to INFO
loglvl_trace	ACTION	Sets the systems logging level to TRACE
loglvl_warning	ACTION	Sets the systems logging level to WARNING
node_red_status	ACTION	Operational status of the Node-RED server
passwd	ACTION	Changes or resets user login information including username, ID, and password
ping	ACTION	Send a set of ICMP pings to an address or FQDN, interface can be ANY, LAN, WIFI, WIFI-AP, CELLULAR, or ETHERNET (POST 'ip' and 'interface' in JSON)
ppp_start	ACTION	Start PPPD

Element	Type	Description
ppp_stop	ACTION	Stop PPPD
ppp_toggle	ACTION	Toggle PPPD
radio	OBJECT	The API supports a set of special actions using the Command Radio URL (api/command/radio). Execute a command using a POST request call method. A RESTful Get request returns an array of all available commands.
check_sim_status	ACTION	Checks SIM card status
cmd	ACTION	Sends a string directly to the cellular radio, timeout must be in milliseconds
firmware_check	ACTION	Uploads radio firmware file to device and checks it (POST radio firmware upgrade bin file)
firmware_pre_upgrade	ACTION	Prepares system for radio firmware upgrade (i.e. shuts down Node-RED, Lora Network Server, frees space for the upgrade package)
firmware_upgrade	ACTION	Initiates radio firmware upgrade
set_mdn	ACTION	Sets the mobile directory number
supported_cellular_modes	ACTION	Gets a list of cellular modes that are supported on the modem.
unlock_sim_card	ACTION	Unlocks SIM card
upgrade_firmware	ACTION	Upgrades radio modem firmware. LEGACY
vzw_reset_class3_apn	ACTION	Reset the current APN value and obtain APN from the Verizon network.
radio-cmd	ACTION	Sends a string directly to the cellular radio, timeout must be in milliseconds
radio_activate	ACTION	Attempts to activate the on-board cellular radio (CDMA)
radio_cmd	ACTION	Sends a string directly to the cellular radio, timeout must be in milliseconds
radio_rfsurvey	ACTION	Performs RF survey of cellular module (may only be available on certain models)
remove_icon	ACTION	Deletes user-supplied icon
remove_image	ACTION	Deletes user-supplied image
remove_logo	ACTION	Deletes user-supplied logo
reset_bluetooth	ACTION	Resets the Bluetooth hardware
reset_modem	ACTION	Resets the cellular radio hardware

Element	Type	Description
reset_wifi	ACTION	Resets the WiFi hardware
restart	ACTION	Restarts device
restart_node_red	ACTION	Restarts Node-RED server
restore_defaults	ACTION	Resets the device with user-defined defaults if set, otherwise factory
restore_factory	ACTION	Resets the device with factory defaults
revert	ACTION	Reverts all changes since the last save
save	ACTION	Saves the current configuration
save_apply	ACTION	Saves the current configuration and applies the changes immediately, use "allowRestart=true" option to apply the changes that require device reboot
save_oem	ACTION	Saves current configuration as factory/OEM default
save_restart	ACTION	Saves the current configuration and restarts the device
sms_send	ACTION	Send a text to a specified recipient
telit_check_fota_updates	ACTION	Get information on Telit Radio Firmware Upgrade
telit_fota_upgrade	ACTION	Initiates Telit radio firmware upgrade from external site
telit_upgrade	ACTION	Initiates Telit radio firmware upgrade (POST Telit upgrade bin). LEGACY
upload_config	ACTION	Uploads and sets new configuration (POST configuration file)
upload_icon	ACTION	Uploads and sets new icon (POST icon file)
upload_image	ACTION	Uploads and sets new image (POST image file)
upload_logo	ACTION	Uploads and sets new logo (POST logo file)

Collections

Collections are groups of related elements used to configure a service or capability. There are four main actions that can be performed on a collection: get, edit, add, and delete. These actions align with RESTful calls: GET, PUT, POST, and DELETE.

The following collections were NOT modified in scope of mPower Edge 5.3 compare to mPower Edge 5.2:

- alert

- appStore

- apps

- autoDialout

- autoReboot

- backOffTimers

- bluetooth

- bluetoothLowEnergy

- bootloader

- btDevices

- cacertificates

- callHome

- certificate

- customApps

- customAppsConfig

- customDiagnostic

- databaseInfo

- ddns

- devices

- dhcp

- dns

- filters

- firewall

- gccp

- gps

- greTunnels

- ipPipes

- **ipsecTunnels (additional logic is implemented)**

- lan

- legacyDefaults

- lora

- nat

- ni

- nodeRed

- ovpnTunnels

- passwordComplexityRules

- policy

- powerManagement

- **ppp (additional logic is implemented)**

- radius

- remoteAccess

- routes

- selfDiagnostic

- serial

- serialModemPassthrough

- sms

- smtp

- snmp

- sntp

- syslog

- telnet

- telnetServer

- trustedIp

- users

- waninfo

- wanmngr

- wifi

The following collections were not modified, but additional logic is implemented in Release 5.3:

- ipsecTunnels

Starting from mPower 5.3.0 double quotes **"** and colons surrounded by spaces **:** are not allowed in the values of "localId" and "remoteId" fields.

- ppp

Starting from mPower 5.3.0 the "dialNumber" value can be **empty**. Empty string corresponds to the automatic dial number selection in mPower 5.3.0 and newer.

The following collections were modified:

- battery

- brand

- loraNetwork

- packages

- remoteManagement

- secureProtocols

- stats

- system

Collection	Type	Description
alert	OBJECT	The alerts array contains predefined number of elements; each defines settings for particular type of alert. A set of settings applicable for different alert types is different
appStore	OBJECT	Defines settings for Application Store
apps	ARRAY	Contains information on installed Node-RED applications
autoDialout	OBJECT	Allows the use of the cellular modem directly from the serial port
autoReboot	OBJECT	Causes the device to reboot automatically

Collection	Type	Description
backOffTimers	OBJECT	Stores carrier-defined backoff timers for PPP connections, SMS retries, and modem resets
battery	OBJECT	Contains the backup battery configuration parameters
bluetooth	OBJECT	Allows a device to connect via Bluetooths
bluetoothLowEnergy	OBJECT	Allows connecting devices via BLE
bootloader	OBJECT	Bootloader configuration parameters
brand	OBJECT	Customizes icons, images, and support information for a rebranded device
btDevices	ARRAY	List of available Bluetooth devices
cacertificates	OBJECT	Management of CA (Certifying Authority) certificates
callHome	OBJECT	Enables the device to call home for configuration files, firmware updates and adds your DeviceHQ account key to the device so it is associated with your DeviceHQ account
certificate	OBJECT	Contains secure public key certificate configurations
customApps	OBJECT	Manages installed custom applications
customAppsConfig		
customDiagnostic	OBJECT	Custom diagnostic page settings
databaseInfo		
ddns	OBJECT	Updates the dynamic domain name server when the IP address changes
devices	ARRAY	A list of saved devices
dhcp	OBJECT	Stores DHCP settings
dns	OBJECT	DNS forwarding configuration
filters	ARRAY	Stores a list of firewall filters
firewall	OBJECT	Stores firewall settings
gccp	OBJECT	Stores the settings for the GCCP application
gps	OBJECT	Stores the GPS service settings

Collection	Type	Description
greTunnels	ARRAY	Stores a list of GRE tunnels
ipPipes	ARRAY	Stores a list of configured IP pipes
ipsecTunnels	ARRAY	Stores a list of IPsec tunnels
lan	OBJECT	Defines the LAN interface settings for PPP-IP PASSTHROUGH and SERIAL-MODEM PASSTHROUGH modes only
legacyDefaults		
lora		lora API options are only available when LoRa Network Server is running
loraNetwork	OBJECT	lora network interface settings
nat	ARRAY	Stores a list of NAT rules for advanced firewall settings
ni	OBJECT	Settings for network interfaces
nodeRed	OBJECT	Node-RED configuration
ovpnTunnels	ARRAY	List of configured OpenVPN tunnels
packages	OBJECT	Perform package management operations
passwordComplexityRules		
policy	OBJECT	Contains usage policy settings
powerManagement		
ppp	OBJECT	Defines the PPP settings
radius	OBJECT	Configures Radius settings
remoteAccess	OBJECT	Defines settings for remote access of the device
remoteManagement	OBJECT	Defines the remote management settings
routes	ARRAY	Stores a list of static routes
secureProtocols	ARRAY	Cipher suites and advanced security options
selfDiagnostic	OBJECT	Self-diagnostic settings
serial	OBJECT	Defines the serial port settings

Collection	Type	Description
serialModemPassthrough	OBJECT	Defines serial modem mode settings
sms	OBJECT	Defines the SMS settings
smtp	OBJECT	Defines the SMTP settings
snmp	OBJECT	Defines the SNMP settings
sntp	OBJECT	Defines the clock synchronization settings with a remote SNTP server
stats	OBJECT	Statistics on services and interfaces
syslog	OBJECT	Defines the syslog support settings
system	OBJECT	Defines the system attributes
telnet		
telnetServer		
trustedIp	OBJECT	Filter incoming packets depending on the white or black IP addresses list
users	ARRAY	Stores a list of users for authentication purposes
waninfo	OBJECT	Stores information on WAN interfaces
wanmngr	OBJECT	Defines the WAN management settings
wifi	OBJECT	Defines the Wi-Fi services settings

battery

Description: Contains the backup battery configuration parameters : OBJECT

Element	Type	Description
historyEnabled	BOOL	Enables or disables the backup battery history recording (default:true)
historyInterval	UINT	Specifies interval in minutes battery status records to be saved to the history
historyPeriod	UINT	Specifies the period of time in days battery history to be kept on the device

brand

Description: Customizes icons, images, and support information for a rebranded device : OBJECT

Note: The fields **"links/url"** and **"website"** in the **/api/brand** collection in Release 5.3 are checked to contain a valid public URL address. The values that are not valid URL addresses cannot be sent to the "/api/brand" collection. Collection version bumped to "__v : 2" to reflect the change.

Element	Type	Description
__v		
address1	STRING	Displays the address of the support contact
address2	STRING	Displays the address of the support contact
buttonColor	STRING	Displays button color in format #rrggbb (default:'')
buttonFontColor	STRING	Displays button font color in format #rrggbb (default:'')
buttonHighlightColor	STRING	Displays button highlight color in format #rrggbb (default:'')
buttonHighlightFontColor	STRING	Displays button highlight font color in format #rrggbb (default:'')
city	STRING	Displays the city of the support contact
companyName	STRING	Displays the company name of the support contact
country	STRING	Displays the country of the support contact
fax	STRING	Displays the fax number of the support contact
icon	STRING	Displays the image file name for custom favicon in browser
image	STRING	Displays the image file name for custom image on the support page
links	ARRAY	Contains a list of web links for customer support
label	STRING	Displays the label for a hyperlink
text	STRING	Displays the text of a hyperlink
url	STRING	Displays the URL of a hyperlink
logo	STRING	Displays the image file name for a custom logo in the header and on the login page
phoneNumbers	ARRAY	Contains a list of phone numbers for customer support
label	STRING	Displays the label of a phone number
number	STRING	Displays a phone number

Element	Type	Description
showOnDashboard	BOOL	Enables or disables the display of brand information on the support page (default:false)
state	STRING	Displays the website URL of the support contact
website	STRING	Custom support contact: company website
zipCode	STRING	Displays the zip code of the support contact

loraNetwork

Description: lora network interface settings : OBJECT

Element	Type	Description
__v	UINT	version of model [20] (automatic)
addressRange	OBJECT	address range settings
end	STRING	end of range for assigned addresses, four groups of two hexadecimal digits, separated by colons
start	STRING	start of range for assigned addresses, four groups of two hexadecimal digits, separated by colons
backupInterval		
basicStation		
cert		
cert2		
conf		
conf2		
credentials		
credentials2		
key		
key2		
trust		

Element	Type	Description
trust2		
uri		
uri2		
db		
defaultApp		
enabled		
eui		
options		
apikey		
check_hostname		
client_cert		
password		
server_cert		
username		
url		
log	OBJECT	log settings
console	BOOL	console
level	UINT	log level
path	STRING	path
syslog	BOOL	syslog
lora	OBJECT	lora settings
ADRStep	UINT	Step in cB between SNR based datarate assignment for ADR
aesKey		
antennaGain	INT	Gain of external antenna in dBi

Element	Type	Description
basicStationMode		
beaconFreqHop		
beaconFrequency		
beaconInfoDesc		
beaconInterval		
beaconLatitude		
beaconLongitude		
beaconPower		
calAD9361		
calTempRoom		
channelMask		
channelPlan		
classCAckTimeout		
deviceQueueSize	UINT	device queue size for pending downlink packets
diversity		
dspStatInterval		
dutyCyclePeriod	UINT	Length of duty-cycle sliding window in minutes
dwelltimeDown	UINT	max dwelltime for downlink packets default: 0 - no limit, 1 - 400 ms
dwelltimeUp	UINT	max dwelltime for uplink packets, default: 0 - no limit, 1 - 400 ms
enableStrictCounterValidation		
enabled	BOOL	check to enable lora network support
frequencyAS	UINT	center freq for extra AS channels (Hz)
frequencyAS2		

Element	Type	Description
frequencyBand	UINT	frequency band
frequencyBand2		
frequencyEU	UINT	center freq for extra EU channels (Hz)
frequencyEU2		
frequencyIN		
frequencyIN2		
frequencyISM2400		
frequencyISM2400_2		
frequencyISM2400_2_1		
frequencyISM2400_2_2		
frequencyISM2400_2_3		
frequencyISM2400_3		
frequencyKR	UINT	center freq for extra KR channels (Hz)
frequencyKR2		
frequencyRU		
frequencyRU2		
frequencySubBand	UINT	frequency sub-band
frequencySubBand2		
fskSYNC		
ftsMatchCRCError		
ftsVersion		
gpsReceiver		
joinDelay	UINT	Rx1 delay in seconds between end of tx and opening of first rx window for join accept message

Element	Type	Description
lbtEnabled		
maxDatarate	UINT	Max datarate for ADR
maxEIRP	UINT	AS923 max device TX power
maxTxPower	UINT	maximum tx power
minDatarate	UINT	Min datarate for ADR
nbDSP		
netID	STRING	LoraWAN network ID : 3 bytes HEX
networkLeadTime		
packetForwarderConfig	STRING	contents to be used for global_conf.json file
packetForwarderConfig2		
packetForwarderMode	BOOL	enable packet forwarder mode
pingSlotDatarate		
pingSlotFreqHop		
pingSlotFrequency		
reducedPacketUpdates		
rx1DatarateOffset	UINT	offset used for datarate on first RX window
rx1Delay	UINT	Rx1 delay in seconds between end of tx and opening of first rx window
rx2Datarate	UINT	datarate to be used in second RX window
skipPacketForwarderFieldCheck		
spi_device		
mqtt	OBJECT	mqtt settings
enabled	BOOL	check to enable MQTT protocol
host	STRING	hostname

Element	Type	Description
password		
port	UINT	port
username		
network	OBJECT	network settings
baseKey	STRING	Key used for zero touch provisioning : 16 bytes HEX
defaultProfile		
eui	STRING	extended unique identifier
joinServer		
key	STRING	key : 16 bytes HEX
leasetime	UINT	lease time
lensCheckinInterval		
lensDeviceHQ		
lensEnabled		
lensGatewayStats		
lensLocalJoinMetadata		
lensNetworkStats		
lensPacketMetadata		
lensPacketPayloadData		
lensServer		
localJoinServerEnabled		
name	STRING	name
passphrase	STRING	passphrase
public	UINT	set network mode 0:Private MTS, 1:Public LoRaWAN, 2:Private LoRaWAN
salt	STRING	Salt used for zero touch provisioning

Element	Type	Description
packetForwarder		
aesKey		
antennaGain		
autoquitThreshold		
beaconFreqHop		
beaconFrequency		
beaconInfoDesc		
beaconInterval		
beaconLatitude		
beaconLongitude		
beaconPower		
calAD9361		
calTempRoom		
channelPlan		
diversity		
downstreamPort		
dspStatInterval		
frequencyAS		
frequencyAS2		
frequencyEU		
frequencyEU2		
frequencyIN		
frequencyIN2		
frequencyISM2400		

Element	Type	Description
frequencyISM2400_2		
frequencyISM2400_2_1		
frequencyISM2400_2_2		
frequencyISM2400_2_3		
frequencyISM2400_3		
frequencyKR		
frequencyKR2		
frequencyRU		
frequencyRU2		
frequencySubBand		
frequencySubBand2		
fskSYNC		
ftsMatchCRCError		
ftsVersion		
fwdCrcDisabled		
fwdCrcError		
fwdCrcValid		
gpsReceiver		
gwID		
gwID2		
gwSource		
keepAliveInterval		
lbtDefaultChannels		
lbtEnabled		

Element	Type	Description
lbtFrequency0		
lbtFrequency1		
lbtFrequency2		
lbtFrequency3		
lbtFrequency4		
lbtFrequency5		
lbtFrequency6		
lbtFrequency7		
lbtRssiOffset		
lbtRssiTarget		
lbtScanTime		
manualMode		
nbDSP		
path		
pathGeo		
public		
pushTimeout		
serverAddress		
statInterval		
upstreamPort		
spectralScan		
bandwidth		
duration		
enabled		

Element	Type	Description
floor		
imme		
interval		
limit		
offset		
ranges		
start		
stop		
samples		
startAt		
step		
stopCriteria		
test		
disableDutyCycle	BOOL	disable duty cycle. FOR TESTING PURPOSES ONLY!!!
disableGPS		
disableRxJoin1	BOOL	disable join downlink packet in first Rx window
disableRxJoin2	BOOL	disable join downlink packet in second Rx window
disableRxWindow1	BOOL	disable downlink packet in first Rx window
disableRxWindow2	BOOL	disable downlink packet in second Rx window
trimInterval		
trimRows		
udp	OBJECT	udp settings
allowPublic		
appPortDown	UINT	application port down

Element	Type	Description
appPortUp	UINT	application port up
downstreamPort	UINT	downstream port
upstreamPort	UINT	upstream port
whitelist	OBJECT	white list settings
devices	ARRAY	local unique appkey store
appeui	STRING	application id attached to received packets : 8 bytes HEX
appkey	STRING	device key used to authenticate join request and generate session keys : 16 bytes HEX
class	STRING	operating class of end-device : A, B or C
deveui	STRING	device id : 8 bytes HEX
enabled	BOOL	check to provide an access to the devices from the White List only

packages

Description: Perform package management operations : OBJECT

Element	Type	Description
install	ACTION	Install a custom package (POST bin package file)
locked	BOOL	Indicates if a package is being installed or removed at the moment
remove	ACTION	Uninstall a custom package (DELETE by path /api/packages/remove/package_name_here)

remoteManagement

Description: Defines the remote management settings : OBJECT

Element	Type	Description
accountKey	STRING	Account key registered to user by remote management platform
allowConfigurationUpgrade	BOOL	Allows configuration upgrades to be managed through device management platform (default:true)

Element	Type	Description
allowConfigurationUpload	BOOL	Allows the device configuration to be uploaded to remote management platform (default:false)
allowFirmwareUpgrade	BOOL	Allows firmware upgrades to be managed through device management platform (default:true)
allowRadioFirmwareUpgrade	BOOL	Allows radio firmware upgrades to be managed through device management platform (default:true)
checkInDateTime	OBJECT	Configure the device to check in to DeviceHQ at a certain date and time
customDays	STRING	Days of the week to check-in to DeviceHQ when the repeatable mode is CUSTOM
customTime	STRING	Check-in time in format HH:MM:SS when the repeatable mode is CUSTOM
dailyTime	STRING	Check-in time in format HH:MM:SS when the repeatable mode is DAILY
repeatable	BOOL	Enables or disables check-in to DeviceHQ on a daily basis (default:false)
repeatableMode	STRING	Specify days of the week when to check-in to DeviceHQ. Select DAILY to check-in every day, select CUSTOM to specify particular days of the week
single	BOOL	Enable to perform a single check-in to DeviceHQ at specified date and time (default:false)
singleDate	STRING	Specify exact date to perform a single check-in to DeviceHQ in format MM/DD/YYYY
singleTime	STRING	Specify exact time to perform a single check-in to DeviceHQ in format HH:MM:SS
enabled	BOOL	Enables the device to be managed by a remote management platform (default:false)
gpsDataInterval	UINT	Specifies the GPS push interval in seconds (default:43200)
intervalsEnabled	BOOL	Enables or disables check-in to DeviceHQ periodically at a specified interval (default:true)
machineApiAuthToken		
machineApiSecret		
queryServerInterval	UINT	Specifies the check-in interval in seconds (default:43200)
serverName	STRING	URL or IP address of the remote management platform (default:ds.multitech.com)
serverPort	UINT	Port of the remote management platform (default:5798)

Element	Type	Description
sslEnabled	BOOL	Enables or disables traffic encryption (default:true)
syncWithDialOnDemand	BOOL	Allows the device to contact the remote management platform only when the cellular link is already up (default:false)

secureProtocols

Description: Cipher suites and advanced security options : ARRAY

Note: Starting from Release 5.3.0 the following fields cannot be empty and API returns an error if the fields are empty:

- "cipherSuite" value SHALL NOT be empty if either TLSv1.1 or TLSv1.2 is enabled for this component

- "cipherSuiteTls13" value SHALL NOT be empty if TLSv1.3 is enabled for this component

- "cipher" value SHALL NOT be empty for SSH component

- "mac" value SHALL NOT be empty for SSH component if "cipher" value is other than "chacha20-poly1305@openssh.com"

Element	Type	Description
__v	UINT	Version of model [2] (automatic)
cipher	STRING	User-defined cipher suites that are used by the ssh server
cipherAvailable	STRING	Ciphers suites that are supported by the ssh server
cipherDeprecated	STRING	Deprecated cipher suites
cipherSuite	STRING	User-defined TLS 1.2 and TLS 1.1 cipher suites
cipherSuiteAvailable	STRING	TLS 1.2 and TLS 1.1 cipher suites that are supported by the system
cipherSuiteAvailableTls13	STRING	TLS 1.3 cipher suites that are supported by the system
cipherSuiteDeprecated	ARRAY	deprecated TLS 1.2 and TLS 1.1 ciphers suites
cipherSuiteTls13	STRING	User-defined TLS 1.3 cipher suites
client	OBJECT	Set client authentication mechanism
verify	BOOL	Enables or disables Client Authentication. When enabled the web server will authenticate the client using the client's public key certificate (default:false)

Element	Type	Description
mac	STRING	User-defined MACs
macAvailable	STRING	MACs that are supported by the system
macDeprecated	ARRAY	Deprecated MACs
name	STRING	Name of the component that uses the instance
protocol	OBJECT	Set of secure protocols
tls1_1	BOOL	Enables or disables TLSv1.1 (default:false)
tls1_2	BOOL	Enables or disables TLSv1.2 (default:true)
tls1_3	BOOL	Enables or disables TLSv1.3 (default:true)
type	STRING	Type of secure library that is used for implementation secure connection. For example: openssl or openssh

stats

Description: Statistics on services and interfaces : OBJECT

Note: New request option was added to the **/api/stats/radio** : "**?radioStatsLast=true**". When this option is enabled the radio status fields may come and go between requests according to the current state of the radio and selected cellular mode.

Element	Type	Description
battery	OBJECT	Current backup battery status
charging	BOOL	When true, the battery is charging
cycleCount	STRING	The total number of charge/discharge cycles this battery has experienced
discharging	BOOL	When true, the battery is discharging
millivolts	STRING	The battery voltage in millivolts
minutesToEmpty	STRING	The current estimated time until the battery is empty. Note: 65535 indicates infinite
minutesToFull	STRING	The current estimated time until the battery is fully charged. Note: 65535 indicates infinite
percentCharged	STRING	The current precentage the battery is charged

Element	Type	Description
timestamp	STRING	The Unix Epoch Timestamp (in seconds since 1/1/1970) of the battery reading
valid	BOOL	When true, this data is valid and was taken from the battery
batteryHistory	ARRAY	Backup battery historical records
dns	ARRAY	Current DNS server IP addresses
servers	ARRAY	A list of DNS servers available for domain name resolution
eth0	OBJECT	Current statistics on Ethernet interface
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode
up	BOOL	The interface is up
ip	STRING	Specifies the IP address assigned to this interface
mask	STRING	Specifies the mask assigned to this interface
mtu	STRING	Specifies maximum transmission unit in bytes
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops
errors	STRING	Specifies the number of received byte errors

Element	Type	Description
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
eth0History	ARRAY	Specifies daily statistics on Ethernet interface traffic
date	UINT	Specifies the date in format MM/DD/YYYY
rx	UINT	Specifies the number of received bytes for the day
tx	UINT	Specifies the number of transmitted bytes for the day
eth0Total	OBJECT	Total and today's statistics on Ethernet interface traffic
todayRx	UINT	Specifies the number of bytes received during the pre-determined period
todayTx	UINT	Specifies the number of bytes transmitted during the pre-determined period
totalRx	UINT	Specifies the number of bytes received today
totalTx	UINT	Specifies the number of bytes transmitted today
eth1	OBJECT	Current statistics on Ethernet interface
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets

Element	Type	Description
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode
up	BOOL	The interface is up
ip	STRING	Specifies the IP address assigned to this interface
mask	STRING	Specifies the mask assigned to this interface
mtu	STRING	Specifies maximum transmission unit in bytes
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops
errors	STRING	Specifies the number of received byte errors
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops

Element	Type	Description
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
eth1History	ARRAY	Specifies daily statistics on Ethernet interface traffic
date	UINT	Specifies the date in format MM/DD/YYYY
rx	UINT	Specifies the number of received bytes for the day
tx	UINT	Specifies the number of transmitted bytes for the day
eth1Total	OBJECT	Total and today's statistics on Ethernet interface traffic
todayRx	UINT	Specifies the number of bytes received during the pre-determined period
todayTx	UINT	Specifies the number of bytes transmitted during the pre-determined period
totalRx	UINT	Specifies the number of bytes received today
totalTx	UINT	Specifies the number of bytes transmitted today
eth2	OBJECT	Current statistics on Ethernet interface
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode

Element	Type	Description
up	BOOL	The interface is up
ip	STRING	Specifies the IP address assigned to this interface
mask	STRING	Specifies the mask assigned to this interface
mtu	STRING	Specifies maximum transmission unit in bytes
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops
errors	STRING	Specifies the number of received byte errors
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
eth2History	ARRAY	Specifies daily statistics on Ethernet interface traffic
date	UINT	Specifies the date in format MM/DD/YYYY
rx	UINT	Specifies the number of received bytes for the day
tx	UINT	Specifies the number of transmitted bytes for the day

Element	Type	Description
eth2Total	OBJECT	Total and today's statistics on Ethernet interface traffic
todayRx	UINT	Specifies the number of bytes received during the pre-determined period
todayTx	UINT	Specifies the number of bytes transmitted during the pre-determined period
totalRx	UINT	Specifies the number of bytes received today
totalTx	UINT	Specifies the number of bytes transmitted today
gps	OBJECT	Contains positional information of gps device
alt	STRING	Specifies altitude
fix	INT	Fix quality (0=No fix, 1=Have fix without DGPS, 2 = have fix with DGPS)
lat	DOUBLE	Specifies latitude coordinate
lng	DOUBLE	Specifies longitude coordinate
sats	INT	Number of satellites used in solution
time	DOUBLE	Time of update
gre	OBJECT	Contains statistics on gre tunnels (keys are tunnel names)
tunnel	OBJECT	Statistics on ipsec LAN interface transmitted bytes
localIp	STRING	Specifies the IP address assigned to this interface
mode	STRING	Specifies tunnel mode
remoteIp	STRING	Specifies the IP address of the remote end of this tunnel
rx	OBJECT	Summarizes receiver statistics
Mcasts	UINT	Specifies the total number of multicast packets received on a broadcast GRE tunnel
bytes	UINT	Specifies the total number of bytes received on the interface
csumErrors	UINT	Specifies the total number of packets dropped because of checksum failures for a GRE tunnel with checksumming enabled.
errors	UINT	Specifies the total number of receiver errors
outOfSequence	UINT	Specifies the total number of packets dropped because they arrived out of

Element	Type	Description
		sequence for a GRE tunnel with serialization enabled
packets	UINT	Specifies the total number of packets received on the interface
ttl	STRING	Specifies time to live set on the interface
tx	OBJECT	Summarizes transmitter statistics
bytes	UINT	Specifies the total number of bytes transmitted on the interface
deadLoop	UINT	Specifies the total number of packets which were not transmitted because the tunnel is looped back to itself
errors	UINT	Specifies the total number of transmitter errors
noBuffs	UINT	Specifies the total number of packets which were not transmitted because the kernel failed to allocate a buffer
noRoute	UINT	Specifies the total number of packets which were not transmitted because there is no IP route to the remote endpoint
packets	UINT	Specifies the total number of packets transmitted on the interface
ipsec	ARRAY	Statistics on IPSec tunnels
name	STRING	Specifies an IPSec tunnel name
rxBytes	UINT	Specifies the number of received bytes
rxPackets	UINT	Specifies the number of received packets
tunnelName	STRING	Specifies IPSec endpoints in ###.###.###.### - ###.###.###.### format
txBytes	UINT	Specifies the number of transmitted bytes
txPackets	UINT	Specifies the number of transmitted packets
lan0	OBJECT	Current statistics on the bridge interface
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down

Element	Type	Description
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode
up	BOOL	The interface is up
ip	STRING	Specifies the IP address assigned to this interface
mask	STRING	Specifies the mask assigned to this interface
mtu	STRING	Specifies maximum transmission unit in bytes
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops
errors	STRING	Specifies the number of received byte errors
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns

Element	Type	Description
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
modbus	ARRAY	Statistics on modbus passthrough pipe
id	UINT	Specifies the ID of the device on the bus
rx	UINT	Reports the number of bytes received by the device
status	STRING	Reports the status of the device
time	UINT	Reports the number of seconds since the last activity
tx	UINT	Reports the number of bytes transmitted by the device
ovpn	ARRAY	Statistics on OpenVPN tunnels
connected	BOOL	Indicates whether the tunnel is established
dev	STRING	Indicates the type of virtual networking interface (tun or tap)
name	STRING	Indicates the name of the tunnel
proto	STRING	Indicates the protocol to use when connecting with the remote (tcp or udp)
statistics	OBJECT	Contains statistics on received/transmitted bytes
rx	UINT	Specifies the number of received bytes
tx		Specifies the number of transmitted bytes: UINT
type	STRING	Indicates whether the tunnel is configured as a client or as a server
use_static	BOOL	Specifies whether a static key is used for authorization
packages	ARRAY	Lists the packages installed by the user
name	STRING	The package name
size	UINT	The package size in bytes
version	STRING	The package version
ppp	OBJECT	Contains statistics for the PPP interface
areaCode	STRING	Reports localization area code

Element	Type	Description
cellularMode	STRING	Specifies the cellular mode that is currently used by the modem [2g, 3g, 4g]
dnsServers	ARRAY	A list of strings representing IP addresses of DNS servers
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode
up	BOOL	The interface is up
ip	STRING	Reports the IP address assigned to this interface
link	STRING	Reports status of the link
localIp	STRING	Reports the IP address assigned to this interface
localIp6	STRING	Reports the IPv6 address assigned to this interface
mtu	STRING	Reports maximum transmission unit in bytes
number	STRING	Reports cellular module's phone number
remoteIp	STRING	Reports the externally facing IP address of this interface
remoteIp6	STRING	Reports the externally facing IPv6 address of this interface
roaming	BOOL	Indicates whether or not this connection is considered roaming
rssi	STRING	Reports Received Signal Strength Indication value [0-31]
rssiDbm	STRING	Specifies the received signal strength indication in dBm

Element	Type	Description
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops
errors	STRING	Specifies the number of received byte errors
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
tower	STRING	Reports cellular tower ID
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
uptime	UINT	Reports number of minutes connection has been established
pppHistory	ARRAY	Specifies daily statistics on PPP interface traffic
date	UINT	Specifies the date in format MM/DD/YYYY
rx	UINT	Specifies the number of received bytes for the day
tx	UINT	Specifies the number of transmitted bytes for the day
pppTotal	OBJECT	Total and today's statistics on PPP interface traffic
todayRx	UINT	Specifies the number of bytes received during the pre-determined period

Element	Type	Description
todayTx	UINT	Specifies the number of bytes transmitted during the pre-determined period
totalRx	UINT	Specifies the number of bytes received today
totalTx	UINT	Specifies the number of bytes transmitted today
radio	OBJECT	Reports statistics and information about the cellular radio
abnd	STRING	Reports the current active band
carrier	STRING	Designates the cellular service provider (home network)
channel	STRING	Specifies the ARFCN or UARFCN Assigned Radio Channel
cid	STRING	Specifies the cellular ID in hexadecimal
code	STRING	Specifies the MTS short model code: (H5, H6, or G3)
debug	OBJECT	Contains detailed information about the radio's current status (information may vary between radio types)
bler	STRING	Reports the block error rate (percentage)
drx	STRING	Reports the discontinuous reception cycle length in milliseconds
ecio	STRING	Indicates the signal-to-noise ratio, the ratio of the received energy to the interference energy in dB
mm	STRING	Reports the mobility management state
nom	STRING	Reports the current network operator mode
psc	STRING	Reports the primary synchronization code
rr	STRING	Reports the radio resource state
rscp	STRING	Reports the active RSCP (Received Signal Code Power in dBm)
rsrp	STRING	Reference Signals Received Power, a measurement of the received power level in an LTE cell network, it is the power of the LTE Reference Signals spread over the full bandwidth and narrowband in dBm
rsrq	STRING	Reference Signal Received Quality, indicates the quality of the received reference signal (similar to EC/IO) in dB
sd	STRING	Reports the service domain

Element	Type	Description
txpwr	STRING	Reports the transmit power
firmware	STRING	Reports the radio firmware version
firmwarebuild	STRING	Reports the radio firmware build number
hardware	STRING	Reports the radio hardware revision
iccid	STRING	Reports the integrated circuit card identifier (Not available for CMDA)
imsi	STRING	Reports the radio IMEI number
lac	STRING	Reports the location area code in hexadecimal
manufacturer	STRING	Reports the radio manufacturer
mcc	STRING	Reports the mobile country code
mdn	STRING	Reports the mobile directory number (CDMA Only)
meid	STRING	Reports the mobile equipment identifier (CDMA Only)
mipProfile	OBJECT	Specifies the mobile IP configuration (CDMA Only)
enabled	BOOL	Indicates if profile is active or not
homeAddress	STRING	Specifies the home address
id	UINT	Specifies the MIP profile ID
mnAaaSpi	STRING	Specifies the mobile node authentication, authorization, and accounting server security parameter index
mnAaaSs		Indicates whether the mobile node authentication, authorization, and accounting server shared secret is set: BOOL
mnHaSpi	STRING	Specifies the mobile node home agent security server parameter index
mnHaSs	BOOL	Indicates whether the mobile node home agent security server shared secret is set
nai	STRING	Specifies the network access identifier
primaryHa	STRING	Specifies the primary home agent
revTun	BOOL	Indicates whether reverse tunneling is enabled
secondaryHa	STRING	Specifies the secondary home agent

Element	Type	Description
mnc	STRING	Specifies the mobile network (operator) code
model	STRING	Specifies the radio model [HE910-D, HE910-EUD, GE910, DE910, CE910, ...]
msid	STRING	Specifies the mobile station ID (also known as MIN or MSIN)
network	STRING	Reports the current cellular service provider (Not available for CDMA)
provisioned	BOOL	Reports whether or not the radio has been activated with a data account (CDMA only)
rac	STRING	Reports the routing area code in hexadecimal
roaming	BOOL	Indicates whether or not the radio is using the home network
rssi	UINT	Specifies the received signal strength indication
rssidBm	STRING	Specifies the received signal strength indication in dBm
service	STRING	Specifies the service connection type [GPRS, EGPRS, WCDMA, HSDPA]
simCarrierCode	STRING	Specifies the unique carrier identifier based on the SIM card information [vz, att, ..., Unknown]
supportedCellularModes	STRING	Specifies the list of cellular modes that are supported by the modem. Example: [2g,3g,4g]
type	STRING	Specifies the radio technology category [GSM, CDMA, LTE]
radioFwuStatus	OBJECT	Displays the status of the radio firmware upgrade procedure
lastResult	STRING	Result of the last firmware upgrade attempt (UNKNOWN, SUCCESS, FAILED)
state	STRING	Current operation status (IDLE, STARTED, PRE_UPGRADE, UPGRADING, FINISHED, REBOOT)
serial	OBJECT	Reports statistics and information about the serial interface
dcd	STRING	Reports status of data carrier detect line
rx	UINT	Reports number of bytes received on serial interface
tx	UINT	Reports number of bytes transmitted on serial interface
service	OBJECT	Various service status
ddns	OBJECT	Displays the status of DDNS services

Element	Type	Description
enabled	BOOL	Indicates whether the DDNS service is on
status	STRING	Displays the status of DDNS
dialOnDemand	OBJECT	Displays the status of the dial-on-demand services
enabled	BOOL	Indicates whether the dial-on-demand service is on
status	STRING	Displays the status of dial-on-demand
failover	OBJECT	Displays the status of WAN failover services
enabled	BOOL	Indicates whether the WAN failover service is on
status	STRING	Displays the status of WAN failover
keepAlive	OBJECT	Displays the status of the keep-alive services
enabled	BOOL	Indicates whether the keep-alive service is on
status	STRING	Displays the status of keep-alive
sms	OBJECT	Displays the status of the SMS service
enabled	BOOL	Indicates whether the SMS service is on
status	STRING	Displays the status of SMS service
smtp	OBJECT	Displays the status of the SMTP service
enabled	BOOL	Indicates whether the SMTP service is on
status	STRING	Displays the status of SMTP service
sntp	OBJECT	Displays the status of the SNTP services
enabled	BOOL	Indicates whether the SNTP service is on
status	STRING	Displays the status of SNTP service
status	ARRAY	Contains a list of important system events
guid	STRING	Specifies unique traceable identifier of the event source
msg	STRING	Specifies the message describing the event
timestamp	STRING	Specifies the time when the event occurred (UTC)

Element	Type	Description
type	STRING	Specifies the event classification [INFO, WARNING, ERROR]
wlan0	OBJECT	Current statistics on Wi-Fi as WAN interface
channels	ARRAY	Reports a list of available channels
countryCode	STRING	Specifies the two-character operating country code
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode
up	BOOL	The interface is up
ip	STRING	Specifies the IP address assigned to this interface
link	OBJECT	Reports status of the current Wi-Fi connection
RX	STRING	Reports the number of received bytes
SSID	STRING	Reports the SSID of connected network
TX	STRING	Reports status of the current Wi-Fi connection
freq	STRING	Reports the operating frequency
mac	STRING	Reports network MAC address of the Access Point
signal	STRING	Specifies the received signal strength indication in dBm
tx_bitrate	STRING	Reports the speed at which bits are transmitted over the medium

Element	Type	Description
mask	STRING	Specifies the mask assigned to this interface
mtu	STRING	Specifies maximum transmission unit in byte
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops
errors	STRING	Specifies the number of received byte errors
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
status	STRING	Reports the state of the network interface
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
wlan0History	ARRAY	Specifies daily statistics on Wi-Fi as WAN interface traffic
date	UINT	Specifies the date in format MM/DD/YYYY
rx	UINT	Specifies the number of received bytes for the day
tx	UINT	Specifies the number of transmitted bytes for the day
wlan0Total	OBJECT	Total and today's statistics on the Wi-Fi as WAN interface traffic

Element	Type	Description
todayRx	UINT	Specifies the number of bytes received during the pre-determined period
todayTx	UINT	Specifies the number of bytes transmitted during the pre-determined period
totalRx	UINT	Specifies the number of bytes received today
totalTx	UINT	Specifies the number of bytes transmitted today
wlan1	OBJECT	Current statistics on Wi-Fi AP interface
channels	ARRAY	Reports a list of available channels
countryCode	STRING	Specifies the two-character operating country code
flags	OBJECT	Various network interface flags
all_multi	BOOL	Receives all multicast packets
broadcast	BOOL	Broadcast address valid
dynamic	BOOL	The addresses are lost when the interface goes down
loopback	BOOL	The interface is a loopback net
lower_up	BOOL	Driver signals L1 up
multicast	BOOL	Supports multicast.
no_arp	BOOL	No address resolution protocol
point_to_point	BOOL	Interface is point-to-point link
promisc	BOOL	Interface is in promiscuous mode
up	BOOL	The interface is up
ip	STRING	Specifies the IP address assigned to this interface
mask	STRING	Specifies the mask assigned to this interface
mtu	STRING	Specifies maximum transmission unit in bytes
rx	OBJECT	Contains statistics on received bytes
bytes	STRING	Specifies the number of received bytes
dropped	STRING	Specifies the number of received byte drops

Element	Type	Description
errors	STRING	Specifies the number of received byte errors
frame	STRING	Specifies the number of received frames
overruns	STRING	Specifies the number of received overruns
packets	STRING	Specifies the number of received packets
tx	OBJECT	Contains statistics on transmitted bytes
bytes	STRING	Specifies the number of transmitted bytes
carrier	STRING	Specifies the number of transmitted carriers
collisions	STRING	Specifies the number of transmitted collisions
dropped	STRING	Specifies the number of transmitted drops
errors	STRING	Specifies the number of transmitted errors
overruns	STRING	Specifies the number of transmitted overruns
packets	STRING	Specifies the number of transmitted packets
queueLength	STRING	Specifies the number of packets that can be queued for transmission
wlan1History	ARRAY	Specifies daily statistics on Wi-Fi AP interface traffic
date	UINT	Specifies the date in format MM/DD/YYYY
rx	UINT	Specifies the number of received bytes for the day
tx	UINT	Specifies the number of transmitted bytes for the day
wlan1Total	OBJECT	Total and today statistics on the Wi-Fi as WAN interface traffic
todayRx	UINT	Specifies the number of bytes received today
todayTx	UINT	Specifies the number of bytes transmitted today
totalRx	UINT	Specifies the number of bytes received during the pre-determined period
totalTx	UINT	Specifies the number of bytes transmitted during the pre-determined period

system

Description: Defines the system attributes : OBJECT

Element	Type	Description
accessoryCards	ARRAY	Specifies the list of installed accessory cards
apiVersion	STRING	Specifies the API version
capabilities	OBJECT	Reports hardware capabilities
adc	BOOL	Specifies whether the device supports analog inputs
battery	BOOL	Specifies whether the device supports backup battery
bluetooth	BOOL	Specifies whether the device supports Bluetooth
cell	BOOL	Specifies whether the device supports Cellular
cellWwan	BOOL	Specifies whether the cellular radio supports QMI WWAN interface
din	BOOL	Specifies whether the device supports digital inputs
dout	BOOL	Specifies whether the device supports digital outputs
externalSerialPort	BOOL	Specifies whether the device supports an external serial port
flexibleSerialPort	BOOL	Specifies whether the device supports a flexible serial port
gpio	BOOL	Specifies whether the device supports GPIO
gps	BOOL	Specifies whether the device supports GPS
lora	BOOL	Specifies whether the device supports LoRa
loraNetworkServer	BOOL	Specifies whether the LoRa Network Server is installed
nodeRed	BOOL	Specifies whether the if Node-RED server is installed false
rs232	BOOL	Specifies whether the device supports RS-232 interface
rs422	BOOL	Specifies whether the device supports RS-422 interface
rs485	BOOL	Specifies whether the device supports RS-485 interface
serial	BOOL	Specifies whether the device supports external serial port
wifi	BOOL	Specifies whether the device supports Wi-Fi
cmdtty	STRING	Specifies the TTY device that issues AT commands to the device
date	STRING	Specifies the current system date

Element	Type	Description
datetime	STRING	Specifies the current system date and time
dbDirty	BOOL	Specifies whether the database is in a dirty state
defaultDeviceName	STRING	Specifies the default name of the device
deviceHostname	STRING	Device hostname
deviceId	STRING	Specifies the device ID
deviceName	STRING	Specifies the configured name of the device
firmware	STRING	Specifies the firmware version
firmwareDate	STRING	Specifies the date the firmware was built
firmwareImageId	STRING	Specifies the firmware Image ID value
firstTimeSetup	BOOL	Specifies whether the device is set to default values
hardwareVersion	STRING	Specifies the hardware version of the device
imei	STRING	Specifies the international mobile station equipment identity
imsi	STRING	Specifies the international mobile subscriber identity
loraEui	STRING	EUI of the build-in LoRa card
loraFpgaVersion	UINT	FPGA firmware version of the build-in LoRa card
loraHwVersion	STRING	Hardware Version of the build-in LoRa card
loraProductId	STRING	Product ID of the build-in LoRa card
macAddress	STRING	Specifies the MAC address of the device's Ethernet port
macAddress1		
macBluetooth	STRING	Specifies the MAC address of the device's Bluetooth module
macWifi	STRING	Specifies the MAC address of the device's Wi-Fi module
memory	OBJECT	Contains a list of the current memory statistics
mode	STRING	Specifies the system level mode of the device (default:ROUTER)
oemId	STRING	Specifies configurable device id

Element	Type	Description
permission	STRING	Specifies the authorization level of the active user
platform		
ppptty	STRING	Specifies the TTY device that PPP uses to make connections
productId	STRING	Specifies the product ID
radio	OBJECT	Specifies the radio's model number and type
carrier	STRING	Specifies the carrier currently providing cellular connectivity
code	STRING	Specifies the radio model's code number: H5, H6, EV3, C2, G3, LAT1, VW2 or LEU1
firmware	STRING	Specifies radio firmware version
type	STRING	Specifies the type of radio, GSM, CMDA or LTE
restartNeeded	BOOL	Specifies whether settings have been changed and a restart is require to reflect those changes in services
signedFirmwareValidation	BOOL	Enable to require a signed firmware and perform a signature validation before the firmware upgrade (default:true)
time	STRING	Specifies the current system time of the device
uptime	STRING	Specifies how long the device has been running
user	STRING	Specifies the user currently logged in
uuid	STRING	uuid
vendorId	STRING	Specifies the vendor of the device
webTitle	STRING	Specifies the title configured to display in a browser