

# mPower Edge for MTCDT3AC - Release 5.4x – API Delta

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This document lists implemented changes to the mPower API for release 5.4x compared to 5.3.3. **NOTE:** The following information is subject to change without notice.

All the changes are marked in **RED**.

## 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 5.4x compared to mPower 5.3.3:

- alert
- appStore
- apps
- autoDialout
- autoReboot
- backOffTimers
- battery
- bluetooth
- bluetoothLowEnergy
- bootloader
- brand
- btDevices
- cacertificates
- callHome
- certificate
- customApps
- customAppsConfig
- customDiagnostic
- databaseInfo
- ddns
- devices
- dhcp
- dns
- filters
- firewall
- gccp
- gps

- greTunnels
- ipPipes
- ipsecTunnels
- lan
- legacyDefaults
- lora
- loraNetwork
- nat
- nodeRed
- ovpnTunnels
- packages
- passwordComplexityRules
- policy
- powerManagement
- ppp
- radius
- remoteAccess
- remoteManagement
- resetButton
- routes
- secureProtocols
- selfDiagnostic
- serial
- serialModemPassthrough
- sms
- smtp
- snmp
- sntp
- stats
- syslog
- telnet
- telnetServer
- trustedIp
- users
- wanmgr
- wifi

The following collections **were modified**:

- system
- ni
- waninfo

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
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

Collection	Type	Description
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
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

Collection	Type	Description
resetButton	OBJECT	Reset button behavior configuration
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
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
wanmgr	OBJECT	Defines the WAN management settings
wifi	OBJECT	Defines the Wi-Fi services settings

## system

Description: Defines the system attributes : OBJECT

The following elements were added:

- capabilities/docker
- capabilities/ethSwitch
- capabilities/tmp
- ethSwitch

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
docker	BOOL	Specifies whether the device supports docker
ethSwitch	BOOL	Specifies whether the device supports Ethernet Switch
tpm	BOOL	Specifies whether the device supports Trusted Platform Module (TPM)

Element	Type	Description
cmdtty	STRING	Specifies the TTY device that issues AT commands to the device
date	STRING	Specifies the current system date
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)

Element	Type	Description
oemId	STRING	Specifies configurable device id
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
ethSwitch	OBJECT	Provides the details about available Ethernet Switch ports
chip	STRING	Specifies the chip model
ports	STRING	Lists the available ports
portName	STRING	The name of the port
id	UINT	The port ID
mac	STRING	The port Mac address





## Description: Settings for network interfaces : OBJECT

Element	Type	Description
nis	ARRAY	A list of configured network interfaces
MAC	BOOL	Indicates whether the WAN interface is available
available	BOOL	Indicates whether or not the network interface is available
bridge	STRING	Contains information about connectivity of the network interface to a bridge. If the interface has not connecting it contains '--'
ipv4	OBJECT	Contains IPv4 setting
dns1	STRING	Specifies the address of primary DNS server
dns2	STRING	Specifies the address of secondary DNS server
gateway	STRING	Specifies the gateway address
ip	STRING	Specifies the IP address assigned to this interface
mask	STRING	Specifies the mask assigned to this interface
mode	STRING	Mode STATIC/DHCP/DHCP-ADDRESSES-ONLY/PPP/PPP-ADDRESSES-ONLY
ipv6	OBJECT	Contains IPv6 settings
delegatedPrefixLength	UINT	Specifies IPv6 prefix length in the DHCPv6 Prefix Delegation mechanism. For WAN: the prefix that is requested from ISP. For LAN: the prefix that the device allocates to the interface from the obtained IPv6 prefix pool (default:64)
dns1	STRING	Specifies the address of primary IPv6 DNS server
dns2	STRING	Specifies the address of secondary IPv6 DNS server
enabled	BOOL	Enables or disables IPv6 support for this interface (default:false)
fixedIP	ARRAY	Static IPv6 addresses assigned to this interface
gateway	STRING	Specifies the address of default IPv6 gateway
linkLocalIp	ARRAY	List of all current link-local IPv6 addresses on the interface
mode	STRING	Mode depends on the network interface type. WAN type supports AUTO and AUTO-ADDRESSES-ONLY, LAN type supports DELEGATED and STATIC
prefixDelegationEnabled	BOOL	For WAN type only: Enables or disables DHCPv6-PD support on this interface (default:false)

Element	Type	Description
name	STRING	Specifies network interface name
nitype	STRING	Specifies network interface type ETHER/PPP/WIFI_AS_WAN/WIFI_AP/BRIDGE
switchVirtualIface	BOOL	Specifies whether the interface is a switch virtual interface
type	STRING	Specifies network interface type LAN/WAN

## waninfo

Description: Stores information on WAN interfaces : OBJECT

Element	Type	Description
wans	ARRAY	Contains a list of WANs
available	BOOL	Indicates whether the WAN interface is available
current	BOOL	Specifies whether the interface is the current WAN transport
enabled	BOOL	Indicates whether the WAN is enabled
gateway	STRING	Specifies the gateway used by the WAN
interface	STRING	Specifies the network interface used by the WAN
ip	STRING	Specifies the IP address assigned to this interface
name	STRING	Specifies the name of the WAN
subnet	STRING	Specifies the subnet of the network
switchVirtualIface	BOOL	Specifies whether the interface is a switch virtual interface
type	STRING	Specifies the type of WAN