

```

RDKB-RG-v1.mib
--#####
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--#####

```

```

RDKB-RG-MIB DEFINITIONS ::= BEGIN
IMPORTS

```

```

    MODULE-IDENTITY,
    OBJECT-TYPE,
    enterprises,
    Integer32,
    IPAddress
        FROM SNMPv2-SMI
    ifIndex
        FROM IF-MIB
    RowStatus,
    DisplayString,
    MacAddress,
    PhysAddress,
    TruthValue,
    DateAndTime
        FROM SNMPv2-TC
    InetAddressType,
    InetAddress,
        InetAddressIPv6,
    InetPortNumber
        FROM INET-ADDRESS-MIB
    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB ;

```

```

rdkb          OBJECT IDENTIFIER ::= { enterprises 8072 }
rdkbModules   OBJECT IDENTIFIER ::= { rdkb 31 }

```

```

rdkbRg        MODULE-IDENTITY
    LAST-UPDATED      \"201408130000Z\"
    ORGANIZATION      \"TBD\"
    CONTACT-INFO      \"TBD\"
    DESCRIPTION
        \"Controls the behavior of router/wireless functions.
        Can be part of CM configuration file.\"

    ::= { rdkbModules 2 }

```

```

RdkbRgUserChangedFlag ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        \"Webwizard Setup user changed flag sections.
        NOTE: Only Bits from 0-21 are supported for legacy web pages\"
    SYNTAX BITS {
        lanParameters(0),
        wanMTU(1),
        wirelessBasic(2),
        wirelessAdvanced(3),
        wirelessSecurity(4),
        wirelessAccessControl(5),
        fixedCPE(6),
        ipMacPortFiltering(7),

```

```

dmzHost(8),
blockProxy(9),
blockCookies(10),
blockJava(11),
blockActiveX(12),
blockPopup(13),
blockFragments(14),
detectPortScan(15),
detectFlood(16),
firewallEvent(17),
firewallProtection(18),
    ipsecPassthru(19),
    pptpPassthru(20),
    multicastPassthru(21),
blockAnonymousIpwan(22),
wanSetup(23),
remoteMgmt(24),
l2TP(25)
}

```

-- RG Device

```
rdkbrgDevice OBJECT IDENTIFIER ::= { rdkbrg 1 }
```

```
rdkbrgDeviceBase OBJECT IDENTIFIER ::= { rdkbrgDevice 1 }
```

```
rdkbrgDeviceMode OBJECT-TYPE
```

```

SYNTAX INTEGER {
    multiSSID(1),
    cableHome11(2),
        ipv4(3),
        ipv6(4),
        dualstack(5) }

```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

"Defines the mode of operation for the device.

This parameter is stored in non-vol and is multiSSID(1) by default.

Setting this object via SNMP will cause the unit to reboot.

This MIB will be superseded in the config file by TLV202.

This MIB will read the proper value if set from TLV202.

This MIB will be superseded by rdkbrgIpMgmtLanMode inbridge(1) or

mixed(4).

multiSSID(1): Default value. Value supports IPV4RG with multiple

SSID

configuration and bridge mode via rdkbrgIpMgmtLanMode

MIB.

Bridge mode is the same as eRouter disabled mode.

IPV4RG is the non eRouter behavior that existed before in our router products.

multiSSID(2): <deprecated>. Mode is not supported for eRouter devices.

Ipv4(3): eRouter IPv4 only mode

Ipv6(4): eRouter IPv6 only mode

Dualstack(5): eRouter IPv4 and IPv6 dualstack

Note: multiSSID(2) is deprecated."

```
DEFVAL { 1 }
```

```
::= { rdkbrgDeviceBase 1 }
```

```
rdkbrgDeviceResetDefaultEnable OBJECT-TYPE
```

```
SYNTAX TruthValue
```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

# RDKB-RG-v1.mib

"This object controls the reset to factory default functionality of the gateway. This prevents the local user from using the reset switch to gain access to the setup pages using the default user name and password. The objective is to prevent theft of service from a user who reconfigures the device to add users or change wireless settings.

Enable (object set to true):

1. Momentary press of the Reset Switch (<5 seconds)  
DOCSIS restart of the modem (reboot, no reset to factory default values).
2. Pressing the reset switch for >5 seconds  
Reboots and resets of all values (modem and router) to factory default.

Disable (object set to false):

1. Momentary press of the Reset Switch (<5 seconds)  
DOCSIS restart of the modem (reboot, no reset to factory default values).
2. Pressing the reset switch for >5 seconds  
Modem reboots and resets only the cable modem settings to factory default values. The router settings should remain and should not NOT reset to factory default."

DEFVAL { true }

::= { rdkbRgDeviceBase 2 }

rdkbRgDeviceRemotWebAccessEnable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Controls web page access to the WAN IP address on the gateway. If DMS is available in the hardware, and rdkbRgDmsBaseWebRedirect is set to true, enabling this feature means to enable port forwarding for web access to the DMS (to port 80). Note: the entry for this does not appear in port forwarding table or on the web pages. Example of the rule: WAN\_IP:8080->DMS\_IP:80. This value is stored in non-vol and is false after factory reset. This value can be controlled via a setup web page.

NOTE: This MIB is applicable only for legacy style web pages"

::= { rdkbRgDeviceBase 3 }

rdkbRgDeviceRemotWebAccessPort OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines what port to use for the WAN IP address of the gateway to be able to access RG web pages.

This value is to be stored in non-vol and will persist across reboots.

only a factory reset would clear it"

DEFVAL { 8080 }

::= { rdkbRgDeviceBase 4 }

rdkbRgDeviceAdminReadOnly OBJECT-TYPE

SYNTAX INTEGER {

none(0),

wan(1)

}

MAX-ACCESS read-write

STATUS obsolete

DESCRIPTION

"This object can restrict admin right of access to the RG web pages. If set to wan(1), admin will be restricted to read-write access from the WAN interface."

DEFVAL { 0 }

::= { rdkbRgDeviceBase 5 }

## rdkbrgDeviceLanLanIsolation OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    enable(1)
}
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

## DESCRIPTION

"This MIB is only available in D3.0 products.

This MIB does not take effect if the modem is in VLAN mode i.e if rdkbrgIpMgmtLanMode.32=vlan(5).

Lan-Lan Isolation allows you block IP access between CPEs connected to the Ethernet ports.

Use this mib in conjunction with rdkbrgDeviceLanWlanIsolation and rdkbrgDot11BssApIsolation.x for

complete isolation between CPEs connected to the RG.

This MIB is written to non-vol and set to disable(0) after a factory reset.

disable(0)- No Isolation

enable(1)- Enable Isolation feature"

```
DEFVAL { 0 }
```

```
::= { rdkbrgDeviceBase 6 }
```

## rdkbrgDeviceLanWlanIsolation OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    enable(1)
}
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

## DESCRIPTION

"This MIB is only available in D3.0 products.

This MIB does not take effect if the modem is in VLAN mode i.e if rdkbrgIpMgmtLanMode.32=vlan(5).

Lan-wlan Isolation allows you block IP access between CPEs connected to the Ethernet port and wireless SSIDs.

Use this mib in conjunction with rdkbrgDeviceLanLanIsolation and rdkbrgDot11BssApIsolation.x for

complete isolation between CPEs connected to the RG.

This MIB is written to non-vol and set to disable(0) after a factory reset.

disable(0)- No Isolation

enable(1)- Enable Isolation feature"

```
DEFVAL { 0 }
```

```
::= { rdkbrgDeviceBase 7 }
```

## rdkbrgDeviceIpv6Trans OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    dslite(1)
}
```

```
MAX-ACCESS      read-only
```

```
STATUS          current
```

## DESCRIPTION

"This MIB will control which IPv6 transition technology is enabled on the device.

After setting this MIB to disable in the config file, IPv4 traffic will pass normally

through the device. When switched to dslite, the DSLite feature will be enabled.

If eRouter is in IPv6-only mode, DS Lite will tunnel IPv4 traffic over IPv6 to the AFTR

address specified either manually or in the DHCPv6 option-64. See rdkbrgDslite MIB tree

for more details.

If this setting is changed by the config file, the CM will reboot.

This MIB is written to non-vol and set to disable(0) after a factory

reset.

```

    disable(0) - No technology is enabled
    enable(1) - DS lite feature is enabled"
    DEFVAL { 0 }
    ::= { rdkbRgDeviceBase 8 }

```

rdkbRgDeviceIpv6Passthrough OBJECT-TYPE

```

    SYNTAX INTEGER {
        disable(0),
        enable(1)
    }

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This MIB controls IPv6 passthrough on the RG and is applicable in bridge and router modes.

When disabled the RG will function without any IPv6 passthrough

When IPv6 passthrough is enabled in Bridge Mode the RG will drop all IPv4 traffic

When IPv6 passthrough is enabled in router mode the RG will operate as normal for IPv4 traffic, but all IPv6 traffic will passthrough

This MIB requires CM reboot.

This MIB is written to non-vol and set to disable(0) after a factory reset."

```

    DEFVAL { 0 }
    ::= { rdkbRgDeviceBase 9 }

```

rdkbRgDeviceFactoryReset OBJECT-TYPE

```

    SYNTAX INTEGER {
        false(0),
        routerAndWifi(1),
        routerOnly(2),
        wifi(3)
    }

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Set routerAndWifi(1) to restore default settings of both the router and wifi.

Set routerOnly(2) to restore default settings of the router.

Set wifi(3) to restore default settings of the wifi.

Return false(0) when read."

```

    DEFVAL { 0 }
    ::= { rdkbRgDeviceBase 1002 }

```

rdkbRgDeviceReset OBJECT-TYPE

```

    SYNTAX INTEGER {
        false(0),
        routerAndWifi(1),
        routerOnly(2),
        wifi(3)
    }

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Set routerAndWifi(1) to reboot the router and Wi-Fi.

Set routerOnly(2) to reboot the router.

Set wifi(3) to reboot the Wi-Fi.

Return false(0) when read."

```

    DEFVAL { 0 }
    ::= { rdkbRgDeviceBase 1003 }

```

-- Node rdkbRgDevice 2,3 removed

rdkbRgDeviceConfiguration OBJECT IDENTIFIER ::= { rdkbRgDevice 4 }

rdkbRgDeviceConfigFilename OBJECT-TYPE

SYNTAX SnmpAdminString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Configuration filename from DHCP ACK."

::= { rdkbRgDeviceConfiguration 1 }

rdkbRgDeviceConfigStatus OBJECT-TYPE

SYNTAX INTEGER {

notSpecified(1),

inProgress(2),

success(3),

errorServer(4),

errorFileNotFound(5),

errorBadFile(6),

download(7)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Status of configuration file download.

- notSpecified(1): DHCP ACK did not contain necessary information

- inProgress(2): Configuration file is being downloaded

- success(3): configuration file download completed successfully

- errorServer(4): TFTP server did not respond

- errorFileNotFound(5): no file on the server

- errorBadFile(6): the file is not good, cannot be processed

- download(7): commands the unit to download configuration file."

::= { rdkbRgDeviceConfiguration 2 }

rdkbRgDeviceUserChangedFlag OBJECT-TYPE

SYNTAX RdkbRgUserChangedFlag

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specifies which user changed flags are set. The value of (1) means that user changed flag value is set; the value of (0) means that the user changed flag is not set.

The user changed flags are stored in non-vol.

Default value after factory reset is 0x00000000

NOTE: Legacy style web pages only support bits from 0-21

"

::= { rdkbRgDeviceConfiguration 3 }

rdkbRgDeviceConfigSnmpEnable OBJECT-TYPE

SYNTAX BITS {

rgwan(0),

rgDualIp(1),

rgLanIp(2),

rgPortForward(3)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Controls SNMP manager status on interfaces. If bit set to 0, the SNMP access is disabled. If bit set to 1, the SNMP access is enabled.

This MIB only applies to IPv4RG mode and is not relevant in eRouter modes."

DEFVAL { '00'h }

::= { rdkbRgDeviceConfiguration 4 }

rdkbRgDeviceConfigIgnore OBJECT-TYPE

SYNTAX INTEGER {

```

        require(0),
        notRequire(1),
        notDownload(2)
    }
    MAX-ACCESS    read-only
    STATUS        current
    DESCRIPTION
        "This object controls if RG configuration file is to be downloaded.
        require(0): per specification, if DHCP contains parameters for the
                     file download, the RG MUST try to download it.
        notRequire(1): when config file download fails after exponential
backoff,
                     RG will not retry DHCP and continue to be operational.
        notDownload(2): RG will not download config file.
        This MIB can be only in CM configuration file."
    DEFVAL { 0 }
    ::= { rdkbRgDeviceConfiguration 5 }

-- removed rdkbRgDevice node 5,6

-- MIBs to poll IANA / PD info for eRouter interface

rdkbRgDeviceIanaContent OBJECT IDENTIFIER ::= { rdkbRgDevice 7 }

rdkbRgDeviceIanaIAID OBJECT-TYPE
    SYNTAX Unsigned32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Returns the IAID value embedded in the IA_NA for the
eRouter's DHCPv6 lease."
    ::= { rdkbRgDeviceIanaContent 1 }

rdkbRgDeviceIanaT1 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Returns the T1 value embedded in the IA_NA for the eRouter's
DHCPv6 lease."
    ::= { rdkbRgDeviceIanaContent 2 }

rdkbRgDeviceIanaT2 OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Returns the T2 value embedded in the IA_NA for the eRouter's
DHCPv6 lease."
    ::= { rdkbRgDeviceIanaContent 3 }

rdkbRgDeviceIanaTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RdkbRgDeviceIanaEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Table of IA Address entries associated with IA_NA for the
eRouter's DHCPv6 lease."
    ::= { rdkbRgDeviceIanaContent 4 }

rdkbRgDeviceIanaEntry OBJECT-TYPE
    SYNTAX      RdkbRgDeviceIanaEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Table of IA Address entries associated with IA_NA for the
eRouter's DHCPv6 lease."

```

```

INDEX { rdkbRgDeviceIanaIndex }
 ::= { rdkbRgDeviceIanaTable 1 }

```

```

rdkbRgDeviceIanaEntry ::= SEQUENCE {
    rdkbRgDeviceIanaIndex          INTEGER,
    rdkbRgDeviceIanaValue          InetAddress,
    rdkbRgDeviceIanaPreferredLifetime Integer32,
    rdkbRgDeviceIanaValidLifetime Integer32
}

```

```

rdkbRgDeviceIanaIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..4)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index"
    ::= { rdkbRgDeviceIanaEntry 1 }

```

```

rdkbRgDeviceIanaValue OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "IPv6 address provided to the eRouter WAN interface via DHCPv6."
    ::= { rdkbRgDeviceIanaEntry 2 }

```

```

rdkbRgDeviceIanaPreferredLifetime OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Preferred Lifetime setting for an IPv6 address assigned to the
eRouter."
    ::= { rdkbRgDeviceIanaEntry 3 }

```

```

rdkbRgDeviceIanaValidLifetime OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Valid Lifetime setting for an IPv6 address assigned to the
eRouter."
    ::= { rdkbRgDeviceIanaEntry 4 }

```

```

rdkbRgDeviceIapdContent  OBJECT IDENTIFIER ::= { rdkbRgDevice 8 }

```

```

rdkbRgDeviceIapdIAID OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Returns the IAID value embedded in the IA_PD for the
eRouter's DHCPv6 lease."
    ::= { rdkbRgDeviceIapdContent 1 }

```

```

rdkbRgDeviceIapdT1 OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Returns the T1 value embedded in the IA_PD for the eRouter's
DHCPv6 lease."
    ::= { rdkbRgDeviceIapdContent 2 }

```

```

rdkbRgDeviceIapdT2 OBJECT-TYPE
    SYNTAX      Integer32

```



```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Returns the T2 value embedded in the IA_PD for the eRouter's
DHCPv6 lease."
 ::= { rdkbRgDeviceIapdContent 3 }

rdkbRgDeviceIapdTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RdkbRgDeviceIapdEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Table of IA Prefix entries associated with IA_PD for the
eRouter's DHCPv6 lease."
 ::= { rdkbRgDeviceIapdContent 4 }

rdkbRgDeviceIapdEntry OBJECT-TYPE
    SYNTAX      RdkbRgDeviceIapdEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Table of IA Address entries associated with IA_PD for the
eRouter's DHCPv6 lease."
    INDEX { rdkbRgDeviceIapdIndex }
    ::= { rdkbRgDeviceIapdTable 1 }

RdkbRgDeviceIapdEntry ::= SEQUENCE {
    rdkbRgDeviceIapdIndex          INTEGER,
    rdkbRgDeviceIapdPreferredLifetime Integer32,
    rdkbRgDeviceIapdValidLifetime Integer32,
    rdkbRgDeviceIapdPrefixLength  INTEGER,
    rdkbRgDeviceIapdPrefixValue   InetAddress
}

rdkbRgDeviceIapdIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..4)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index"
    ::= { rdkbRgDeviceIapdEntry 1 }

rdkbRgDeviceIapdPreferredLifetime OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Preferred Lifetime setting for an IPv6 address assigned to the
eRouter."
    ::= { rdkbRgDeviceIapdEntry 2 }

rdkbRgDeviceIapdValidLifetime OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Valid Lifetime setting for an IPv6 address assigned to the
eRouter."
    ::= { rdkbRgDeviceIapdEntry 3 }

rdkbRgDeviceIapdPrefixLength OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Length (in bits) for this prefix."
    ::= { rdkbRgDeviceIapdEntry 4 }

```

```

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rdkbrgDeviceIapdPrefixValue OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Prefix address specified in the IA_PD."
    ::= { rdkbrgDeviceIapdEntry 5 }

-- *****
-- ***** 802.11 *****
-- *****

rdkbrgDot11 OBJECT IDENTIFIER ::= { rdkbrg 2 }

-- node rdkbrgDot11 1 removed

rdkbrgDot11Bss OBJECT IDENTIFIER ::= { rdkbrgDot11 2 }

rdkbrgDot11BssTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbrgDot11BssEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "BSS table"
    ::= { rdkbrgDot11Bss 1 }

rdkbrgDot11BssEntry OBJECT-TYPE
    SYNTAX      RdkbrgDot11BssEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the table which represents parameters for SSID."
    INDEX      { ifIndex }
    ::= { rdkbrgDot11BssTable 1 }

RdkbrgDot11BssEntry ::=
    SEQUENCE {
        rdkbrgDot11BssId          PhysAddress,
        rdkbrgDot11BssEnable      INTEGER,
        rdkbrgDot11BssSsid        OCTET STRING,
        rdkbrgDot11BssSecurityMode INTEGER,
        rdkbrgDot11BssClosedNetwork TruthValue,
        rdkbrgDot11BssAccessMode  INTEGER,
        rdkbrgDot11BssLanAccess   INTEGER,
        rdkbrgDot11BssDsBwReserve INTEGER,
        rdkbrgDot11BssDsBwPriority INTEGER,
        rdkbrgDot11BssMaxNumSta   INTEGER,
        rdkbrgDot11BssCountStaAsCpe TruthValue,
        rdkbrgDot11BssUserStatus  INTEGER,
        rdkbrgDot11BssHotSpot     TruthValue,
        rdkbrgDot11BssApIsolation INTEGER
    }

rdkbrgDot11BssId OBJECT-TYPE
    SYNTAX      PhysAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Returns the BSSID"
    ::= { rdkbrgDot11BssEntry 1 }

rdkbrgDot11BssEnable OBJECT-TYPE

```

```

SYNTAX INTEGER {
    enable(1),
    disable(2),
    enableOnline(3)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Controls the BSS state.
    When set to enableOnline(3), the SSID is enabled only
    when the cable modem is online. When the modem changes
    state to offline, the AP will send dissasociation messages
    to the STAs connected to the SSID and then disable.
    The value of primary BSS is stored in non-vol and is enabled(1)
    after factory reset.
    The other BSSs are disabled by default. If other
    BSS's SSID name is not defined, the BSS will not
    be enabled."
 ::= { rdkbRgDot11BssEntry 2 }

```

```

rdkbRgDot11BssSsid OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..32))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Controls and reflects the service set identifier.
    The value of primary BSS is stored in non-vol and is
    empty after factory reset.
    If other BSS's SSID name is not defined, the BSS
    will not be enabled."
 ::= { rdkbRgDot11BssEntry 3 }

```

```

rdkbRgDot11BssSecurityMode OBJECT-TYPE
SYNTAX INTEGER {
    disabled(0),
    wep(1),
    wpaPsk(2),
    wpa2Psk(3),
    wpaEnterprise(4),
    wpa2Enterprise(5),
    --radiuswep(6)
    wpawpa2Psk(7),
    wpawpa2Enterprise(8)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Secrity for BSS.
    Beacause WPA2 is backwards compatible with WPA, setting this
    object to wpawpa2Psk(7) is allowed and has the same effect as
    setting to wpa2Psk(3). The same is true for wpawpa2Enterprise(8)
    and wpa2Enterprise(5).
    The value for primary BSS is stored in non-vol and is wpawpa2Psk(7)
    after factory reset.
    For each other BSS security has to be included in configuration
    file or the BSS will be disabled."
 ::= { rdkbRgDot11BssEntry 4 }

```

```

rdkbRgDot11BssClosedNetwork OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Controls whether the device will operate in closed network mode. If
    set to true(1), then the network mode is closed and the SSID will not
    be broadcast in beacon packets. If set to false(2), then the network
    mode is open and the SSID will be broadcast in beacon packets.
    The value for primary BSS is stored in non-vol.

```

```

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The default value for other BSSs is false."
::= { rdkbRgDot11BssEntry 5 }

rdkbRgDot11BssAccessMode OBJECT-TYPE
    SYNTAX      INTEGER {
                    allowAny(0),
                    allowList(1),
                    denyList(2)
                }
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Controls what stations will be given access to the device. If set to
        allowAny(0), then any station will be allowed to connect. If set
        to allowList(1), then only stations whose MAC address appears in
        the rdkbRgDot11AccessMacTable will be allowed to connect.
        The value for primary BSS is stored in non-vol.
        The default value for other BSSs is 0."
    ::= { rdkbRgDot11BssEntry 6 }

-- not implemented
rdkbRgDot11BssLanAccess OBJECT-TYPE
    SYNTAX INTEGER {
        lan(1),
        guest(2)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "If set to lan(1), this service set will be authorized as a member of
        the local area network. If set to guest(2), this service set will
        have access to the wide area internet, but will have restricted access
        to the local area network.
        Default values are lan(1) for the primary BSS and guest(2) for other
        BSSs.
        NOTE: NOT IMPLEMENTED"
    ::= { rdkbRgDot11BssEntry 8 }

rdkbRgDot11BssDsBwReserve OBJECT-TYPE
    SYNTAX INTEGER
    UNITS "Bps"
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Controls the downstream (from AP to client) throughput
        in Bytes per second from AP to client on a BSS.
        This object reserves the throughput for a BSS. The rest of
        leftover bandwidth is assigned based on BSS priority.
        Note: if the reserved bandwidth is not used, it is shared
        with other BSSs based on their priority.
        If set to 0 there is no reservation.

        Example:
        BSS 1, 2 and 3 have reservation of 3Mb/s each. BSS 1 is higher priority
        than 2, which is higher than 3.
        - only BSS 3 transmits full bandwidth traffic: BSS 3 gets full bandwidth
        - BSS 2 starts transmitting at 2 Mb/s: BSS 2 gets 2 Mb/s, BSS 3 gets
          full-2 Mb/s
        - BSS 2 increases to 4 Mb/s: BSS 3 gets full-4 Mb/s, BSS 2 gets 4 Mb/s
        - BSS 2 increases to full: BSS 3 gets 3 Mb/s, BSS 2 gets full-3 Mb/s
        - BSS 1 starts transmitting at 2 Mb/s: BSS 3 gets 3 mbps, BSS 2 gets
          full-5 Mb/s, BSS 1 gets 2 Mb/s
        - BSS 1 increases to full: BSS 3 gets 3 Mb/s, BSS 2 gets 3 Mb/s, BSS 1
          gets full-6 Mb/s
        NOTE: NOT IMPLEMENTED"
    DEFVAL { 0 }
    ::= { rdkbRgDot11BssEntry 9 }

```

rdkbrgDot11BssDsBwPriority OBJECT-TYPE

SYNTAX INTEGER (1..4)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets the priority for non-reserved bandwidth. 1 is the highest priority.  
If BSSs use the same priority, they get bandwidth based on contention.  
NOTE: NOT IMPLEMENTED"

DEFVAL { 4 }

::= { rdkbrgDot11BssEntry 10 }

rdkbrgDot11BssMaxNumSta OBJECT-TYPE

SYNTAX INTEGER (1..128)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This object defines the maximum number of STAs that can connect to  
this SSID. Note that the maximum number of STA across all SSIDs in  
the AP is 128.  
Default value is 128 for all SSIDs.  
The value for primary BSS is stored in non-vol."

::= { rdkbrgDot11BssEntry 11 }

rdkbrgDot11BssCountStaAsCpe OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"STAs in Max-Count of CPEs (Max number of CPE in CM config file),  
default per eDOCSIS spec.  
This setting is used to control counting STAs in Max-Count of CPEs.  
false: Do not count STAs as a CPE  
true: Count STAs as a CPE  
This object applies when the BSS is in bridge mode. In router mode  
the STAs are behind the NAT and do not count towards max-CPE anyway.  
Note: applies only to secondary BSSs."

DEFVAL { true }

::= { rdkbrgDot11BssEntry 12 }

rdkbrgDot11BssUserStatus OBJECT-TYPE

SYNTAX INTEGER {

enable(1),

disable(2)

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Provides the BSS Id Web UI or Wireless ON/OFF (if exist) status that  
is set by the user. If the user can press the Wireless ON/OFF

(if exist) button and its status can be seen in BSS ID Web UI. If  
user changes access point status in Web UI, it will reflect the  
status of wireless ON/OFF LED."

::= { rdkbrgDot11BssEntry 13 }

rdkbrgDot11BssHotSpot OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Determines/Sets whether this BSS is a HotSpot BSS. This allows the MSO  
to specify which BSS is configured for Hotspot Operation.  
Note: applies only to Guest BSSs (non primary)."

DEFVAL { false }

::= { rdkbrgDot11BssEntry 14 }

```

rdkbrgDot11BssApIsolation OBJECT-TYPE
    SYNTAX INTEGER {
        disable(0),
        enable(1)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This MIB is only available in D3.0 products.
        AP Isolation (Access Point Isolation) allows you to isolate traffic
between CPES on
        the same wifi SSID. This allows a measure of security to prevent hackers
from accessing other CPES in
        a public wifi environment.
        Ex. When this MIB is enabled you can not ping between CPES connected to
the same SSID.
        AP Isolation is settable per SSID in either VLAN or non VLAN modes.
        This MIB is written to non-vol and set to disable(0) after a factory
reset.
        disable(0)- No AP Isolation
        enable(1)- Enable AP Isolation feature."
    DEFVAL { 0 }
    ::= { rdkbrgDot11BssEntry 15 }

-- removed node rdkbrgDot11Bss 2
-- removed node rdkbrgDot11Bss 3

-- *****
-- PRIVACY PARAMETERS
-- *****

-- rdkbrgDot11MgmtPrivacy contains objects from the 'Privacy' web page
rdkbrgDot11Privacy OBJECT IDENTIFIER ::= { rdkbrgDot11 3 }

-- WPA

rdkbrgDot11WpaTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RdkbrgDot11WpaEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "WPA table"
    ::= { rdkbrgDot11Privacy 1 }

rdkbrgDot11WpaEntry OBJECT-TYPE
    SYNTAX RdkbrgDot11WpaEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A row in the table which represents WPA parameters for BSS."
    INDEX { ifIndex }
    ::= { rdkbrgDot11WpaTable 1 }

RdkbrgDot11WpaEntry ::=
    SEQUENCE {
        rdkbrgDot11WpaAlgorithm          INTEGER,
        rdkbrgDot11WpaPreSharedKey       OCTET STRING,
        rdkbrgDot11WpaGroupRekeyInterval INTEGER
    }

rdkbrgDot11WpaAlgorithm OBJECT-TYPE
    SYNTAX INTEGER {
        tkip(0),

```

```

    aes(1),
    tkipPlusAes(2)
}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "The value of tkip(0) is not allowed when security is WPA2.
    The value for primary BSS is stored in non-vol and tkipPlusAes(2)
    after factory reset.
    The default value for other BSSs is tkip."
 ::= { rdkbRgDot11WpaEntry 1 }

```

```

rdkbRgDot11WpaPreSharedKey OBJECT-TYPE
SYNTAX        OCTET STRING (SIZE(8..64))
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Sets the WPA Pre-Shared Key (PSK). This value MUST be either a
    64-digit hexadecimal number, OR a 8 to 63 character ASCII string.
    The value for primary BSS is stored in non-vol and is the serial
    number of the device after factory reset.
    The default value for other BSSs is 8 0's.
    This object return an empty string when read."
 ::= { rdkbRgDot11WpaEntry 2 }

```

```

rdkbRgDot11WpaGroupRekeyInterval OBJECT-TYPE
SYNTAX        INTEGER
UNITS         "seconds"
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Sets the WPA Group Rekey Interval in seconds. Set to zero to disable
    periodic rekeying.
    The value for primary BSS is stored in non-vol and is 3600 after
    factory reset.
    The default value for other BSSs is 3600."
 ::= { rdkbRgDot11WpaEntry 3 }

```

## -- RADIUS

```

rdkbRgDot11RadiusTable OBJECT-TYPE
SYNTAX        SEQUENCE OF RdkbRgDot11RadiusEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
    "WPA table"
 ::= { rdkbRgDot11Privacy 2 }

```

```

rdkbRgDot11RadiusEntry OBJECT-TYPE
SYNTAX        RdkbRgDot11RadiusEntry
MAX-ACCESS    not-accessible
STATUS        current
DESCRIPTION
    "A row in the table which represents WPA parameters for BSS."
INDEX        { ifIndex }
 ::= { rdkbRgDot11RadiusTable 1 }

```

```

RdkbRgDot11RadiusEntry ::=
SEQUENCE {
    rdkbRgDot11RadiusAddressType    InetAddressType,
    rdkbRgDot11RadiusAddress        InetAddress,
    rdkbRgDot11RadiusPort           InetPortNumber,
    rdkbRgDot11RadiusKey            DisplayString,
    rdkbRgDot11RadiusReAuthInterval INTEGER
}

```

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rdkbRgDot11RadiusAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Type of RADIUS server IP address."

DEFVAL { ipv4 }

::= { rdkbRgDot11RadiusEntry 1 }

rdkbRgDot11RadiusAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets RADIUS server IP address.

The value for primary BSS is stored in non-vol and is 0.0.0.0 after factory reset.

The default value for other BSSs is 0.0.0.0."

::= { rdkbRgDot11RadiusEntry 2 }

rdkbRgDot11RadiusPort OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets the UDP port used to communicate with the RADIUS server.

The value for primary BSS is stored in non-vol and is 1645 after factory reset.

The default value for other BSSs is 1645."

::= { rdkbRgDot11RadiusEntry 3 }

rdkbRgDot11RadiusKey OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets or displays the RADIUS key.

The value for primary BSS is stored in non-vol and is null after factory reset.

The default value for other BSSs is null.

This object return an empty string when read."

::= { rdkbRgDot11RadiusEntry 4 }

rdkbRgDot11RadiusReAuthInterval OBJECT-TYPE

SYNTAX INTEGER

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets the RADIUS Rekey Interval in seconds.

Set to zero to disable periodic rekeying.

The value for primary BSS is stored in non-vol and is 3600 after factory reset.

The default value for other BSSs is 3600."

::= { rdkbRgDot11RadiusEntry 5 }

-- WEP

rdkbRgDot11WepTable OBJECT-TYPE

SYNTAX SEQUENCE OF RdkbRgDot11WepEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"WEP table"

::= { rdkbRgDot11Privacy 3 }



rdkbrgDot11wepEntry OBJECT-TYPE

SYNTAX RdkbrgDot11wepEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the table which represents WPA parameters for BSS."

INDEX { ifIndex }

::= { rdkbrgDot11wepTable 1 }

RdkbrgDot11wepEntry ::=

SEQUENCE {

rdkbrgDot11wepDefaultKey INTEGER,

rdkbrgDot11wepEncryptionMode INTEGER,

rdkbrgDot11wepPassPhrase OCTET STRING

}

rdkbrgDot11wepDefaultKey OBJECT-TYPE

SYNTAX INTEGER (1..4)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Controls and reflects the default key which will be used when 64 or 128 bit encryption is enabled. Indicates the entry from the rdkbrgDot1164BitKeyTable if rdkbrgDot11EncryptionMode is set to

wep64(1), or

the entry from the rdkbrgDot11128BitKeyTable if

rdkbrgDot11EncryptionMode is set

to wep128(2).

The value for primary BSS is stored in non-vol and is 1 after factory

reset.

The default value for other BSSs is 1."

::= { rdkbrgDot11wepEntry 1 }

rdkbrgDot11wepEncryptionMode OBJECT-TYPE

SYNTAX INTEGER {

wep64(0),

wep128(1)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The value for primary BSS is stored in non-vol and is wep128(1) after factory reset.

The default value for other BSSs is wep128."

::= { rdkbrgDot11wepEntry 2 }

rdkbrgDot11wepPassPhrase OBJECT-TYPE

SYNTAX DisplayString (SIZE(0..32))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Controls and reflects the WEP pass phrase.

The value for primary BSS is stored in non-vol and is null after factory reset.

The default value for other BSSs is null.

This object return an empty string when read."

::= { rdkbrgDot11wepEntry 3 }

-- WEP 64-bit keys:

rdkbrgDot11wep64BitKeyTable OBJECT-TYPE

SYNTAX SEQUENCE OF RdkbrgDot11wep64BitKeyEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A table of 40 bit key values used when rdkbrgDot11wepEncryptionMode

```

    is set to wep64(0)."
 ::= { rdkbRgDot11Privacy 4 }

```

```

rdkbRgDot11Wep64BitKeyEntry OBJECT-TYPE
    SYNTAX      RdkbRgDot11Wep64BitKeyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the table which represents a single 64 bit key."
    INDEX       { ifIndex, rdkbRgDot11Wep64BitKeyIndex }
    ::= { rdkbRgDot11Wep64BitKeyTable 1 }

```

```

RdkbRgDot11Wep64BitKeyEntry ::=
    SEQUENCE {
        rdkbRgDot11Wep64BitKeyIndex      Integer32,
        rdkbRgDot11Wep64BitKeyValue      OCTET STRING
    }

```

```

rdkbRgDot11Wep64BitKeyIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..4)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Identifies the instance of this table row."
    ::= { rdkbRgDot11Wep64BitKeyEntry 1 }

```

```

rdkbRgDot11Wep64BitKeyValue OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(5))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "A 40 bit key to be used when rdkbRgDot11WepEncryptionMode is set to
wep64(1).
        The value for primary BSS is stored in non-vol and is all 1's after
factory
        reset.
        The default value for other BSSs is all 0's.
        This object return an empty string when read."
    ::= { rdkbRgDot11Wep64BitKeyEntry 2 }

```

-- WEP 128-bit keys:

```

rdkbRgDot11Wep128BitKeyTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgDot11Wep128BitKeyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table of 104 bit key values used when rdkbRgDot11WepEncryptionMode
        is set to wep128(1)."
    ::= { rdkbRgDot11Privacy 5 }

```

```

rdkbRgDot11Wep128BitKeyEntry OBJECT-TYPE
    SYNTAX      RdkbRgDot11Wep128BitKeyEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the table which represents a single 128 bit key."
    INDEX       { ifIndex, rdkbRgDot11Wep128BitKeyIndex }
    ::= { rdkbRgDot11Wep128BitKeyTable 1 }

```

```

RdkbRgDot11Wep128BitKeyEntry ::=
    SEQUENCE {
        rdkbRgDot11Wep128BitKeyIndex      Integer32,
        rdkbRgDot11Wep128BitKeyValue      OCTET STRING
    }

```

```

rdkbRgDot11Wep128BitKeyIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..4)

```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Identifies the instance of this table row."

::= { rdkbRgDot11Wep128BitKeyEntry 1 }

rdkbRgDot11Wep128BitKeyValue OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(13))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"A 104 bit key to be used when rdkbRgDot11WepEncryptionMode is set to wep128(2).

The value for primary BSS is stored in non-vol and is all 1's.

The default value for other BSSs is all 0's.

This object return an empty string when read."

::= { rdkbRgDot11Wep128BitKeyEntry 2 }

rdkbRgDot11PrivacyWps OBJECT IDENTIFIER ::= { rdkbRgDot11Privacy 6 }

rdkbRgDot11PrivacyWpsPushButtonTime OBJECT-TYPE

SYNTAX INTEGER (0..10)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Specifies how long to press WPS button to start the WPS procedure. 0 means disable WPS.

Stored in non-vol, 1 after factory reset."

::= { rdkbRgDot11PrivacyWps 1 }

-- Removed node rdkbRgDot11 4 ,5

-----  
 --- rdkbRgDot11ExtMgmt

--- Table to support Multiple Radios

--- Note: Indexes may be set to support specific hardware interfaces.  
 -----

rdkbRgDot11ExtMgmt OBJECT IDENTIFIER ::= { rdkbRgDot11 6 }

rdkbRgDot11ExtMgmtTable OBJECT-TYPE

SYNTAX SEQUENCE OF RdkbRgDot11ExtMgmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Multiple Radio Configuration Table"

::= { rdkbRgDot11ExtMgmt 1 }

rdkbRgDot11ExtMgmtEntry OBJECT-TYPE

SYNTAX RdkbRgDot11ExtMgmtEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the table which represents parameters for a Radio.

Index 32 should be set for Radio 0 -- 2.4 GHz if populated.

Index 112 should be set for Radio 1"

INDEX { ifIndex }

::= { rdkbRgDot11ExtMgmtTable 1 }

RdkbRgDot11ExtMgmtEntry ::=

SEQUENCE {

rdkbRgDot11ExtOperMode

rdkbRgDot11ExtCurrentChannel

INTEGER,

Unsigned32,

```

RDKB-RG-v1.mib
rdkbrgDot11ExtBeaconInterval Unsigned32,
rdkbrgDot11ExtDTIMInterval Unsigned32,
rdkbrgDot11ExtFragThresh Unsigned32,
rdkbrgDot11ExtRTSThresh Unsigned32,
rdkbrgDot11ExtSRL Unsigned32,
rdkbrgDot11ExtLRL Unsigned32,
rdkbrgDot11ExtCtsProtectionEnable TruthValue,
rdkbrgDot11ExtRate INTEGER,
rdkbrgDot11ExtOutputPower INTEGER,
rdkbrgDot11ExtCountry INTEGER,
rdkbrgDot11ExtAntenna INTEGER,
rdkbrgDot11ExtMbssUserControl INTEGER,
rdkbrgDot11ExtMbssUseNonvol TruthValue,
rdkbrgDot11ExtMbssAdminControl INTEGER,
rdkbrgDot11ExtActualChannel INTEGER,
rdkbrgDot11ExtOnOffPushButtonTime INTEGER,
rdkbrgDot11ExtWmm INTEGER,
rdkbrgDot11ExtWmmNoAck INTEGER,
rdkbrgDot11ExtMulticastRate INTEGER,
rdkbrgDot11ExtWirelessButtonOperation INTEGER
}

rdkbrgDot11ExtOperMode OBJECT-TYPE
    SYNTAX      INTEGER {
        notAvailable(0),
        off(1),
        remote(2),
        local(3)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Used to control the 802.11 operational mode. If set to
        notAvailable(0), then the wireless interface will be disabled, with
        the radio off, and no wireless settings web pages will be available to
        the user.
        If set to off(1) then the wireless interface will be disabled, but
        there may be a web page present which indicates that wireless service
        is available and that the MSO should be contacted to enable it.
        If set to remote(2), then the wireless interface will be enabled, but
        the configuration web pages are read-only so that the user may not
        change the settings.
        If set to local(3), then the wireless interface will be enabled, and
        the web pages will be read-write so that the user has full control over
        the settings.
        This parameter is stored in non-vol and set to local(3) after factory
        reset."
    ::= { rdkbrgDot11ExtMgmtEntry 1 }

rdkbrgDot11ExtCurrentChannel OBJECT-TYPE
    SYNTAX      Unsigned32 (0..216)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Controls and reflects the current channel number.
        The value of 0 means auto channel selection.
        This parameter is stored in non-vol and is 0
        after factory reset.

        For 802.11b/g/n modes in 2.4 GHz, the available channels are 1-14.
        For 802.11a/n modes in 5 GHz, the available channels are 34-216.
        Channel selection is subjected to restrictions based on Wifi
        Country Code"
    ::= { rdkbrgDot11ExtMgmtEntry 3 }

rdkbrgDot11ExtBeaconInterval OBJECT-TYPE
    SYNTAX      Unsigned32 (1..65535)
    UNITS       "milliseconds"

```

```

MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the beacon interval for the device.
     This parameter is stored in non-vol."
 ::= { rdkbRgDot11ExtMgmtEntry 4 }

```

```

rdkbRgDot11ExtDTIMInterval OBJECT-TYPE
SYNTAX        Unsigned32  (1..255)
UNITS         "milliseconds"
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the DTIM interval for the device.
     This parameter is stored in non-vol."
 ::= { rdkbRgDot11ExtMgmtEntry 5 }

```

```

-- Renamed from rdkbRgDot11FragmentationThreshold to avoid conflict w/ IEEE
802.11 MIB

```

```

rdkbRgDot11ExtFragThresh OBJECT-TYPE
SYNTAX        Unsigned32  (256..2346)
UNITS         "bytes"
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the fragmentation threshold for the device.
     This parameter is stored in non-vol."
 ::= { rdkbRgDot11ExtMgmtEntry 6 }

```

```

-- Renamed from rdkbRgDot11RTSThreshold to avoid conflict w/ IEEE 802.11 MIB

```

```

rdkbRgDot11ExtRTSThresh OBJECT-TYPE
SYNTAX        Unsigned32  (0..2347)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the RTS threshold for the device.
     This parameter is stored in non-vol."
 ::= { rdkbRgDot11ExtMgmtEntry 7 }

```

```

-- Renamed from rdkbRgDot11ShortRetryLimit to avoid conflict w/ IEEE 802.11 MIB

```

```

rdkbRgDot11ExtSRL OBJECT-TYPE
SYNTAX        Unsigned32  (1..255)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the short retry limit for the device.
     This parameter is stored in non-vol."
 ::= { rdkbRgDot11ExtMgmtEntry 8 }

```

```

-- Renamed from rdkbRgDot11LongRetryLimit to avoid conflict w/ IEEE 802.11 MIB

```

```

rdkbRgDot11ExtLRL OBJECT-TYPE
SYNTAX        Unsigned32  (1..255)
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the long retry limit for the device.
     This parameter is stored in non-vol."
 ::= { rdkbRgDot11ExtMgmtEntry 9 }

```

```

rdkbRgDot11ExtCtsProtectionEnable OBJECT-TYPE
SYNTAX        TruthValue
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Controls and reflects the state of CTS protection.
     If set to true(1), the AP will use RTS/CTS to improve 802.11
     performance in mixed 802.11 networks. Set to false(2) to

```

```

RDKB-RG-v1.mib
    maximize 802.11 throughput under most conditions.
    This parameter is stored in non-vol."
    ::= { rdkbRgDot11ExtMgmtEntry 10 }

rdkbRgDot11ExtRate OBJECT-TYPE
    SYNTAX      INTEGER {
        auto(0),
        mbits1(1),
        mbits2(2),
        mbits5-5(5),
        mbits6(6),
        mbits9(9),
        mbits11(11),
        mbits12(12),
        mbits18(18),
        mbits24(24),
        mbits36(36),
        mbits48(48),
        mbits54(54)
    }
    MAX-ACCESS   read-write
    STATUS        current
    DESCRIPTION   "Forces the transmission rate for the AP to a particular speed.
        Note that the 802.11b rates, including mbits1(1), mbits2(2),
        mbits5-5(5), and mbits11(11), are not available in 5GHz.
        This parameter is stored in non-vol."
    ::= { rdkbRgDot11ExtMgmtEntry 11 }

rdkbRgDot11ExtOutputPower OBJECT-TYPE
    SYNTAX      INTEGER {
        percent25(25),
        percent50(50),
        percent75(75),
        percent100(100)
    }
    MAX-ACCESS   read-write
    STATUS        current
    DESCRIPTION   "Sets the output power relative to the hardware's maximum capability.
        This parameter is stored in non-vol."
    ::= { rdkbRgDot11ExtMgmtEntry 12 }

rdkbRgDot11ExtCountry OBJECT-TYPE
    SYNTAX      INTEGER {
        worldwide(0),
        thailand(1),
        israel(2),
        jordan(3),
        china(4),
        japan(5),
        usa(6),
        europe(7),
        allChannels(8)
    }
    MAX-ACCESS   read-write
    STATUS        current
    DESCRIPTION   "Restricts the channel set based on country requirements.
        This parameter is stored in non-vol and is worldwide(0)
        (channels 1-11) after factory reset."
    ::= { rdkbRgDot11ExtMgmtEntry 13 }

rdkbRgDot11ExtAntenna OBJECT-TYPE
    SYNTAX      INTEGER {
        disableIntTx(0),
        enableIntTx(1)
    }

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This parameter is stored in non-vol and set to  
disableIntTx(0) after factory reset."

```
::= { rdkbRgDot11ExtMgmtEntry 14 }
```

rdkbRgDot11ExtMbssUserControl OBJECT-TYPE

SYNTAX INTEGER (1..8|65536..16711680)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets the number of user controlled wifi networks via web pages.

- 1: The user has control over the primary wireless network only.  
No guest network page is displayed.
- 2: The user has control over the primary wireless network and  
one guest network. No drop down menu (or only 1 item in the  
menu) for additional guest network configuration.
- 3: Same as above with 2 guest networks.
- 4: Same as above with 3 guest networks.
- 5: Same as above with 4 guest networks.
- 6: Same as above with 5 guest networks.
- 7: Same as above with 6 guest networks.
- 8: Same as above with 7 guest networks.

Bit Mask Control:

Bit 16: -- User has control over Primary Wireless Network	:	65536
Bit 17: -- User has control over Guest Network 1 (interface 33)	:	131072
Bit 18: -- User has control over Guest Network 2 (interface 34)	:	262144
Bit 19: -- User has control over Guest Network 3 (interface 35)	:	524288
Bit 20: -- User has control over Guest Network 4 (interface 36)	:	1048576
Bit 21: -- User has control over Guest Network 5 (interface 37)	:	2097152
Bit 22: -- User has control over Guest Network 6 (interface 38)	:	4194304
Bit 23: -- User has control over Guest Network 7 (interface 39)	:	8388608

This object value is stored in non-vol and set to 1  
after factory reset."

```
::= { rdkbRgDot11ExtMgmtEntry 15 }
```

rdkbRgDot11ExtMbssUseNonvol OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Allows to save additional BSS parameters to non-vol if set to true.  
Primary BSS parameters are ALWAYS stored in non-vol.  
This object value is stored in non-vol and set to false  
after factory reset."

```
::= { rdkbRgDot11ExtMgmtEntry 16 }
```

rdkbRgDot11ExtMbssAdminControl OBJECT-TYPE

SYNTAX INTEGER (1..8|65536..16711680)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Sets the number of admin controlled wifi networks via web pages.

- 1: The admin has control over the primary wireless network only.  
No guest network page is displayed.
- 2: The admin has control over the primary wireless network and  
one guest network. No drop down menu (or only 1 item in the  
menu) for additional guest network configuration.
- 3: Same as above with 2 guest networks.
- 4: Same as above with 3 guest networks.
- 5: Same as above with 4 guest networks.
- 6: Same as above with 5 guest networks.
- 7: Same as above with 6 guest networks.
- 8: Same as above with 7 guest networks.

```

RDKB-RG-v1.mib
65536      Bit 16: -- Admin Has control over Primary Wireless Network      :
131072      Bit 17: -- Admin Has control over Guest Network 1 (interface 33) :
262144      Bit 18: -- Admin Has control over Guest Network 2 (interface 34) :
524288      Bit 19: -- Admin Has control over Guest Network 3 (interface 35) :
:1048576      Bit 20: -- Admin Has control over Guest Network 4 (interface 36)
:2097152      Bit 21: -- Admin Has control over Guest Network 5 (interface 37)
:4194304      Bit 22: -- Admin Has control over Guest Network 6 (interface 38)
:8388608      Bit 23: -- Admin Has control over Guest Network 7 (interface 39)

      This object value is stored in non-vol and set to 1
      after factory reset."

      ::= { rdkbRgDot11ExtMgmtEntry 17 }

rdkbRgDot11ExtActualChannel OBJECT-TYPE
    SYNTAX      INTEGER
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "Reports the current channel number that wireless is on.
        The value of 0 means wireless is disabled."
    ::= { rdkbRgDot11ExtMgmtEntry 18 }

rdkbRgDot11ExtOnOffPushButtonTime OBJECT-TYPE
    SYNTAX      INTEGER (0..11)
    UNITS        "seconds"
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Specifies how long to press WPS button to enable or disable
        the WiFi interface (primary SSID). When set to 11, the feature
        is disabled.
        Note that if the device has multiple radios but a single WPS HW button,
        only the first instance (rdkbRgDot11ExtOnOffPushButtonTime.32) should be
        used.
        Stored in non-vol, 5, 10 after factory reset."
    ::= { rdkbRgDot11ExtMgmtEntry 19 }

rdkbRgDot11ExtWmm OBJECT-TYPE
    SYNTAX      INTEGER {
        disable(0),
        enable(1)
    }
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Mib to Enable/Disable wifi-Multi Media (WMM) QOS fetures.
        This parameter is stored in non-vol and set to
        enable(1) after a factory reset."
    DEFVAL { 1 }
    ::= { rdkbRgDot11ExtMgmtEntry 20 }

rdkbRgDot11ExtWmmNoAck OBJECT-TYPE
    SYNTAX      INTEGER {
        disable(0),
        enable(1)
    }
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION

```



```

RDKB-RG-v1.mib
"Mib to control whether wifi packets require acknowledgement.
disable(0) Use acknowledgement for wifi packets.
enable(1) Sets No acknowledgement which allows for higher throughput and
lower latency when some
packetloss is acceptable (ex. VoIP).
Note: If WMM is disabled then this setting has no effect, and you can Not
disable Acks from being
returned from the stations.
This parameter is stored in non-vol and set to disable(0) after a factory
reset."
DEFVAL { 0 }
::= { rdkbRgDot11ExtMgmtEntry 21 }

rdkbRgDot11ExtMulticastRate OBJECT-TYPE
SYNTAX      INTEGER {
                                disable(0),
                                mbits1(1),
                                mbits2(2),
                                mbits5-5(5),
                                mbits6(6),
                                mbits9(9),
                                mbits11(11),
                                mbits12(12),
                                mbits18(18),
                                mbits24(24),
                                mbits36(36),
                                mbits48(48),
                                mbits54(54)
                        }
UNITS        "Mbps"
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION
    "Forces the dot11 multicast Phy transmission rate.
    Note that the 802.11b rates, including mbits1(1), mbits2(2),
    mbits5-5(5), and mbits11(11), are not available in 5GHz.
    This object is stored in non-vol and defaults to disable(0) after
factory reset."
DEFVAL { 0 }
::= { rdkbRgDot11ExtMgmtEntry 22 }

rdkbRgDot11ExtWirelessButtonOperation OBJECT-TYPE
SYNTAX      INTEGER {
                                disable(0),
                                enable(1)
                        }
MAX-ACCESS   read-write
STATUS       current
DESCRIPTION
    "To enable or disable the button press of wireless ON/OFF button.
    This feature will work only on products that have the wireless ON/OFF
button.
    This MIB will control if the wireless ON/OFF button can be pressed or
not.
    If it's enabled then button press would take effect otherwise there will
not be any effect on button press.
    Note that if the device has multiple radios but a single wireless ON/OFF
button,
    only the first instance (rdkbRgDot11ExtWirelessButtonOperation.32)
should be used.
    By default value will be set to enable(1)."
```

--- Note: Indexes may be set to support specific hardware interfaces.  
 --- Index 32 MUST match rdkbRgDot11n.  
 -----

rdkbRgDot11nExt OBJECT IDENTIFIER ::= { rdkbRgDot11 7 }

rdkbRgDot11nExtTable OBJECT-TYPE  
 SYNTAX SEQUENCE OF RdkbRgDot11nExtEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "Multiple 802.11n Radio Configuration Table  
 Index 32 should be set for Radio 0 -- 2.4 GHz if populated.  
 Index 112 should be set for Radio 1"  
 ::= { rdkbRgDot11nExt 1 }

rdkbRgDot11nExtEntry OBJECT-TYPE  
 SYNTAX RdkbRgDot11nExtEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 "A row in the table which represents parameters for an 802.11n Radio."  
 INDEX { ifIndex }  
 ::= { rdkbRgDot11nExtTable 1 }

RdkbRgDot11nExtEntry ::=

SEQUENCE {	rdkbRgdot11nExtMode	INTEGER,
	rdkbRgdot11nExtPhyRate	INTEGER,
	rdkbRgdot11nExtBand	INTEGER,
	rdkbRgdot11nExtBandwidth	INTEGER,
	rdkbRgdot11nExtSideBand	INTEGER,
	rdkbRgdot11nExtObssCoex	INTEGER,
	rdkbRgdot11nExtMulticastRate	INTEGER
}		

rdkbRgdot11nExtMode OBJECT-TYPE  
 SYNTAX INTEGER {  
 auto(1),  
 off(2),  
 n-only(3),  
 b-mode(16),  
 g-mode(32),  
 bg-mode(48),  
 a-mode(64),  
 --n-only(128),  
 gn-mode(160),  
 bgn-mode(176),  
 an-mode(192),  
 ac-only(256),  
 nac-only(384),  
 anac-mode(448)  
 }  
 MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION  
 "Determines which 802.11 mode the radio will run in.  
 This object must be set by either the legacy or bitmask method.  
  
 In legacy method,  
 auto(1) : supports all the 802.11 modes available in the radio.  
 off(2) : supports the legacy mode only (11b/g in 2.4GHz and 11a in  
 5GHz).  
 n-only(3): accepts 11n-capable clients only but supports all the modes  
 available in the radio.  
  
 In bitmask method,  
 b-mode(16) : supports 11b mode in 2.4GHz.

```

RDKB-RG-v1.mib
g-mode(32)      : supports 11g mode in 2.4GHz.
bg-mode(48)     : supports 11b/g mode in 2.4GHz (16+32).
a-mode(64)      : supports 11a mode in 5GHz.
n-only(128)     : accepts 11n-capable clients only but supports both
legacy and 11n modes in 2.4GHz or 5GHz.
gn-mode(160)    : supports 11g/n mode in 2.4GHz (32+128).
bgn-mode(176)   : supports all 11b/g/n modes in 2.4GHz (16+32+128).
an-mode(192)    : supports 11a/n modes in 5GHz (64+128).
ac-only(256)    : accepts 11ac-capable clients only but supports 11a/n/ac
modes in 5GHz.
nac-only(384)   : accepts 11n-capable clients only but supports 11a/n/ac
modes in 5GHz (128+256).
anac-mode(448) : supports all 11a/n/ac modes in 5GHz (64+128+256).

```

Note: Some options may not be available depending on the radio model.

Note: The change of this object value will also affect other MIB selections, including rdkbRgdot11nExtBandwidth.

This object is stored in non-vol and defaults to auto(1) after factory reset."

```

 ::= { rdkbRgDot11nExtEntry 1 }

```

rdkbRgdot11nExtPhyRate OBJECT-TYPE

```

SYNTAX INTEGER {
    auto(0),
    legacy(1),
    mbits6-5or13-5(2),
    mbits13or27(3),
    mbits19-5or40-5(4),
    mbits26or54(5),
    mbits39or81(6),
    mbits52or108(7),
    mbits58-5or121-5(8),
    mbits65or135(9),
    reserved1(10),
    reserved2(11),
    reserved3(12),
    reserved4(13),
    mbits78or162(14),
    mbits104or216(15),
    mbits117or243(16),
    mbits130or270(17)
}

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Forces the N Phy transmission rate for the AP to a particular speed.

Each pair of rates

corresponds to a 20 MHz or 40 MHz channel configuration.

This object is stored in non-vol and defaults to auto(0) after factory reset.

This MIB is being degraded, since it is better for higher band width devices to run in 'auto' mode"

```

DEFVAL { auto }

```

```

 ::= { rdkbRgDot11nExtEntry 2 }

```

rdkbRgdot11nExtBand OBJECT-TYPE

```

SYNTAX INTEGER {
    band-2-4G(1),
    band-5G(2)
}

```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Determines which Band that we will be operating in. Either the 2.4G or the 5G HZ.

Note: This is for N cards only.

This object is stored in non-vol and defaults to band-2-4G(1) after factory reset."

```
::= { rdkbRgDot11nExtEntry 3 }
```

rdkbRgdot11nExtBandwidth OBJECT-TYPE

```
SYNTAX INTEGER {
    width-20MHZ(1),
    width-40MHZ(2),
    width-80MHZ(3)
}
```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

"Determines which Band width that we will be operating in. Either the 20MHZ or the 40MHZ.

Note: This is for N cards only, and this also affect other MIB selections such as rdkbRgdot11nSideBand.

The 80 MHz channel width is only applicable for 802.11ac capable cards. If a user sets this to 80 MHz, SNMPset would fail for non-802.11ac cards

This object is stored in non-vol and defaults to ? after factory reset."

```
::= { rdkbRgDot11nExtEntry 4 }
```

rdkbRgdot11nExtSideBand OBJECT-TYPE

```
SYNTAX INTEGER {
    upper(1),
    lower(2)
}
```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

"Determines which side Band the channel will operate in.

Note: This is for N cards only, this mib is dependent of what rdkbRgdot11nBandwidth is selected and only applies when 40MHZ is selected.

This object is stored in non-vol and defaults to lower(2) after factory reset."

```
::= { rdkbRgDot11nExtEntry 5 }
```

rdkbRgdot11nExtObssCoex OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    enable(1)
}
```

```
MAX-ACCESS read-write
```

```
STATUS current
```

```
DESCRIPTION
```

"Allows MSO to control OBSS (Overlapping BSS) Coexistence parameter for 802.11n 40MHz channel width.

By default it is enabled and is stored in non-vol Factory reset would clear it and would be enable(1) after

factory reset.

When disabled, the 802.11n wifi would stay in 40 MHz channel-width inspite of interference from other

wifi channels. While enabled, 802.11n would coexist with 802.11g channels using 20 MHz default channel-width

```
"
```

```
::= { rdkbRgDot11nExtEntry 6 }
```

rdkbRgdot11nExtMulticastRate OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    legacy(1),
    mbits6-5or13-5(2),
    mbits13or27(3),
    mbits19-5or40-5(4),
    mbits26or54(5),
    mbits39or81(6),
    mbits52or108(7),
}
```

```

    mbits58-5or121-5(8),
    mbits65or135(9),
    reserved1(10),
    reserved2(11),
    reserved3(12),
    reserved4(13),
    mbits78or162(14),
    mbits104or216(15),
    mbits117or243(16),
    mbits130or270(17)
}
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Forces the dot11n Multicast Phy transmission rate. Legacy mode forces
the rate to be set
    by dot11MulticastRate.
    This object is stored in non-vol and defaults to disable(0) after
factory reset."
DEFVAL { 0 }
 ::= { rdkbRgDot11nExtEntry 7 }

-- rdkbRgDot11ApplySettings: do 'on the fly' config with settings from above.
-- This scalar object was placed by itself at ieee802rdkbRgDot11Mgmt 100 because
-- it applies all settings from all current and possibly future 802.11
-- groups. Wanted to leave plenty of room to add new groups in the future.

rdkbRgDot11ApplySettings OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "If set to true(1), then all the settings (MIB values)
        from this MIB tree will be applied to run time configuration,
        modifying previous RG operation with the new settings.
        Before setting the value to true, MIBs modified in the MIB
        tree are stored in non-vol and will not modify RG operation
        until rdkbRgDot11ApplySettings is set to true or CM resets.
        Note: this applies only to the MIB objects that are stored
        in non-vol.
        Always returns false(2) when read."
    ::= { rdkbRgDot11 1001 }

-- =====
-- IP management
-- =====

rdkbRgIpMgmt OBJECT IDENTIFIER ::= { rdkbRg 3 }

-- { rdkbRgIpMgmt 1 } reserved for WAN IP definition (currently only DHCP)

-- LAN NETWORK DEFINITIONS

rdkbRgIpMgmtLanTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RdkbRgIpMgmtLanEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Networks on the LAN side.
        Primary BSS stored in non-vol."
    ::= { rdkbRgIpMgmt 2 }

rdkbRgIpMgmtLanEntry OBJECT-TYPE
    SYNTAX      RdkbRgIpMgmtLanEntry

```

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"List of networks on the LAN side."

INDEX { ifIndex }

::= { rdkbRgIpMgmtLanTable 1 }

rdkbRgIpMgmtLanEntry ::= SEQUENCE {

rdkbRgIpMgmtLanMode	INTEGER,
rdkbRgIpMgmtLanNetwork	IpAddress,
rdkbRgIpMgmtLanNetworksAllow	INTEGER,
rdkbRgIpMgmtLanSubnetMask	IpAddress,
rdkbRgIpMgmtLanGateway	IpAddress,
rdkbRgIpMgmtLanDhcpServer	INTEGER,
rdkbRgIpMgmtLanNapt	INTEGER,
rdkbRgIpMgmtLanTypeOfService	INTEGER,
rdkbRgIpMgmtLanDhcp125Option	INTEGER,
rdkbRgIpMgmtLanHnap	INTEGER,
rdkbRgIpMgmtLanUpnp	INTEGER

}

rdkbRgIpMgmtLanMode OBJECT-TYPE

SYNTAX INTEGER {

bridge(1),  
 router(2),  
 12tpv2-client(3),  
 mixed(4),  
 vlan(5)

}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Defines the mode of operation for the device.

Setting this object via SNMP for the primary BSS will cause the unit to reboot.

Setting this object via SNMP for the secondary BSSs will not cause the unit to reboot.

The value for primary BSS is stored in non-vol and is router after factory reset.

The default value for other BSSs is router.

This MIB supersedes rdkbRgDeviceMode for the .32 interface.

12tpv2-client(3) is obsoleted and NOT supported.

bridge(1): Sets individual interface to bridging mode  
 (for IPv6 interfaces DHCPv6 is external)

router(2): Sets individual interface to routing mode  
 (for IPv6 interfaces DHCPv6 is internal)

12tpv2-client(3): &lt;obsolete&gt;

mixed(4): For mixed mode. This setting is applicable only

to

.32 interface. This value is used on

conjunction with

rdkbRgIpMgmtLanPortControlTable

\*Note: mixed(4) mode NOT supported by

DOCSIS 2.0 products.

vlan (5): Enables the vlan control feature.

See rdkbRgVlanTable MIBs for VLAN

configuration information."

DEFVAL { 2 }

::= { rdkbRgIpMgmtLanEntry 1 }

rdkbRgIpMgmtLanNetwork OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The LAN-Trans network number.

Default for primary BSS is 192.168.0.0

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Default for other BSSs is 192.168.ifIndex.0"

```
::= { rdkbRgIpMgmtLanEntry 3 }
```

rdkbRgIpMgmtLanNetworksAllow OBJECT-TYPE

```
SYNTAX INTEGER {
    default(0),
    anyPrivateClass(1),
    anyClass(2)
}
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Allows the user via the internal web GUI (Lan Setup page to input an IPv4 public or private Local IP address other than a class C Private address (the default Network for the Primary BSS = 192.168.0.0/24, with the default Local IP address = 192.168.0.1.) In all cases the mask must be 255.255.255.x since the RG is limited to supporting a maximum of 253 IP addresses. (See RFC1918 for a description of private IP addresses and specified ranges.)

Available Mib settings:

default(0): Only the third and fourth octets are editable in the web GUI for the Local IP address (Ex. 192.168.x.x/24).

anyPrivateClass(1): All 4 octets are editable in the web GUI for Local IP address, but the network specified must be a Private class A, B or C network address. (Ex. A=10.x.x.x, B=172.16.x.x, C=192.168.x.x).

anyClass(2): All 4 octets are editable in the web GUI for Local IP address, and the network specified could be any public or private class A, B, or C address.

If the MSO specifically sets a Local IP address in rdkbRgIpMgmtLanNetwork to a value other than the default value (for example: 192.168.0.1) then these fields will be uneditable by the user (grayed out)."

```
DEFVAL { 0 }
::= { rdkbRgIpMgmtLanEntry 4 }
```

rdkbRgIpMgmtLanSubnetMask OBJECT-TYPE

```
SYNTAX IpAddress
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The device MUST provide the value of this MIB object in the Option 1 (Subnet Mask) of DHCP OFFER and ACK messages sent to a LAN IP Device."

```
DEFVAL { 'ffffff00'h } -- 255.255.255.0
::= { rdkbRgIpMgmtLanEntry 5 }
```

rdkbRgIpMgmtLanGateway OBJECT-TYPE

```
SYNTAX IpAddress
```

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The type of this address is specified by rdkbRgIpMgmtLanNetworkRouterType. The PS MUST provide the value of this MIB object in the Option 3 (Router IP address) of the DHCP OFFER and ACK messages sent to the LAN IP Device. Default for primary BSS is 192.168.0.1

Default for other BSSs is 192.168.ifIndex.1"

```
::= { rdkbRgIpMgmtLanEntry 7 }
```

rdkbRgIpMgmtLanDhcpServer OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    enable(1)
}
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

DESCRIPTION

"The value for primary BSS is stored in non-vol.  
The default value for other BSSs is:  
Enabled by default if interface is in router mode.  
Always disabled if interface is in bridge mode."

```
::= { rdkbRgIpMgmtLanEntry 8 }
```

rdkbRgIpMgmtLanNapt OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    enable(1)
}
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

DESCRIPTION

"The value for primary BSS is stored in non-vol.  
The default value for other BSSs is:  
Enabled by default if interface is in router mode.  
Always disabled if interface is in bridge mode."

```
::= { rdkbRgIpMgmtLanEntry 9 }
```

rdkbRgIpMgmtLanTypeOfService OBJECT-TYPE

```
SYNTAX          INTEGER
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

DESCRIPTION

"Definition of the TOS bits for the Network.  
This object does not apply to primary BSS."

```
DEFVAL { 0 }
```

```
::= { rdkbRgIpMgmtLanEntry 10 }
```

rdkbRgIpMgmtLanDhcp125Option OBJECT-TYPE

```
SYNTAX          INTEGER {
    disable(0),
    addSsidName(1)
}
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

DESCRIPTION

"This option controls if the RG adds a customer specific suboption (number 17) to DHCP DISCOVER and REQUEST from the clients that are bridged on the BSS:  
0: do not add the option  
1: add suboption 17 to vendor specific enterprise-id (9) within DHCP option 125. The content is the SSID name."

```
DEFVAL { 0 }
```

```
::= { rdkbRgIpMgmtLanEntry 11 }
```

rdkbRgIpMgmtLanHnap OBJECT-TYPE

```
SYNTAX INTEGER {
    disable(0),
    enable(1)
}
```

```
MAX-ACCESS      read-write
```

```
STATUS          current
```

DESCRIPTION

"The value for primary BSS is stored in non-vol and is enable after factory default."



```

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The default value for other BSSs is disable."
::= { rdkbRgIpMgmtLanEntry 12 }

rdkbRgIpMgmtLanUpnp OBJECT-TYPE
    SYNTAX INTEGER {
        disable(0),
        enable(1)
    }
    MAX-ACCESS      read-write
    STATUS          current
    DESCRIPTION
        "Enable/Disable the UPnP agent.
        The value is stored in non-vol and is disabled after factory default
        for the primary SSID.
        The UPnP agents for additional networks are enabled by
        default."
    DEFVAL { 0 }
    ::= { rdkbRgIpMgmtLanEntry 13 }

-- LAN DHCP SERVERS DEFINITIONS

rdkbRgIpMgmtLanDhcpServerTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RdkbRgIpMgmtLanDhcpServerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Networks on the LAN side.
        Stored in non-vol. .10-.128 for primary BSS
        after factory reset."
    ::= { rdkbRgIpMgmt 3 }

rdkbRgIpMgmtLanDhcpServerEntry OBJECT-TYPE
    SYNTAX      RdkbRgIpMgmtLanDhcpServerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of networks on the LAN side."
    INDEX { ifIndex }
    ::= { rdkbRgIpMgmtLanDhcpServerTable 1 }

RdkbRgIpMgmtLanDhcpServerEntry ::= SEQUENCE {
    rdkbRgIpMgmtLanDhcpServerPoolStart      IpAddress,
    rdkbRgIpMgmtLanDhcpServerPoolEnd        IpAddress,
    rdkbRgIpMgmtLanDhcpServerLeaseTime      Unsigned32,
    rdkbRgIpMgmtLanDhcpServerTimeOffset     Integer32,
    rdkbRgIpMgmtLanDhcpServerDomainName     SnmpAdminString,
}

rdkbRgIpMgmtLanDhcpServerPoolStart OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The start of range LAN Trans IP Addresses. The type of
        this address is specified by rdkbRgIpMgmtLanDhcpServerPoolStartType.
        Default value depends on IP network and subnet."
    ::= { rdkbRgIpMgmtLanDhcpServerEntry 2 }

rdkbRgIpMgmtLanDhcpServerPoolEnd OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The end of range for LAN-Trans IP Addresses. The type of
        this address is specified by rdkbRgIpMgmtLanDhcpServerPoolEndType.
        Default value depends on IP network and subnet."

```

```

RDKB-RG-v1.mib
 ::= { rdkbRgIpMgmtLanDhcpServerEntry 4 }

rdkbRgIpMgmtLanDhcpServerLeaseTime OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The PS MUST provide the value of this MIB object in the
         Option 51 (IP Address lease time) of the DHCP OFFER and
         ACK messages sent to the LAN IP Device."
    DEFVAL { 3600 }
    ::= { rdkbRgIpMgmtLanDhcpServerEntry 5 }

rdkbRgIpMgmtLanDhcpServerTimeOffset OBJECT-TYPE
    SYNTAX      Integer32 (-86400..86400) -- 0 to 24 hours (in seconds)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The PS MUST provide the value of this MIB object in
         the Option 2 (Time Offset from Coordinated
         Universal Time-UTC) in the DHCP OFFER and ACK
         messages sent to the LAN IP Device."
    DEFVAL { 0 } -- UTC
    ::= { rdkbRgIpMgmtLanDhcpServerEntry 6 }

rdkbRgIpMgmtLanDhcpServerDomainName OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This is the domain name given to this DHCP server's clients."
    ::= { rdkbRgIpMgmtLanDhcpServerEntry 7 }

-- removed node rdkbRgIpMgmt 4

=====
--
-- rdkbRgIpMgmtDnsServerTable (CDP WAN DNS Server Table)
--
-- The rdkbRgIpMgmtDnsServerTable is a table of 3 cable network
-- and Internet DNS Servers.
--
=====

rdkbRgIpMgmtDnsServerTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgIpMgmtDnsServerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains the IP addresses of cable network and
         Internet DNS servers, in the order of preference in which
         the PS's CNP will query them, when it cannot resolve a DNS
         query using local information. Entries in this table are
         updated with the information contained in DHCP Option 6,
         received during both the WAN-Man and WAN-Data IP
         acquisition processes.
         Stored in non-vol and 0.0.0.0 for all servers after
         factory reset."
    ::= { rdkbRgIpMgmt 5 }

rdkbRgIpMgmtDnsServerEntry OBJECT-TYPE
    SYNTAX      RdkbRgIpMgmtDnsServerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION

```

```

                                RDKB-RG-v1.mib
    "List of cable network and Internet DNS servers."
INDEX { rdkbRgIpMgmtDnsServerOrder }
 ::= { rdkbRgIpMgmtDnsServerTable 1 }

RdkbRgIpMgmtDnsServerEntry ::= SEQUENCE {
    rdkbRgIpMgmtDnsServerOrder  INTEGER,
    rdkbRgIpMgmtDnsServerIp     IPAddress,
    rdkbRgIpMgmtDnsServerIpv6   InetAddress
}

rdkbRgIpMgmtDnsServerOrder OBJECT-TYPE
    SYNTAX      INTEGER {
                        primary(1),
                        secondary(2),
                        tertiary(3)
                    }
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "The order of preference for cable network and Internet DNS
        servers, as listed in DHCP option 6 (Domain Server)."
```

```

 ::= { rdkbRgIpMgmtDnsServerEntry 1 }

rdkbRgIpMgmtDnsServerIp OBJECT-TYPE
    SYNTAX      IPAddress
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "This parameter indicates the IP address of a WAN DNS
        server."
```

```

 ::= { rdkbRgIpMgmtDnsServerEntry 3 }

rdkbRgIpMgmtDnsServerIpv6 OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "This parameter indicates the IPv6 address of a WAN DNS
        server."
```

```

 ::= { rdkbRgIpMgmtDnsServerEntry 4 }

-- removed node rdkbRgIpMgmt 6,7,8

-- WAN interface

rdkbRgIpMgmtWanAddr OBJECT IDENTIFIER ::= { rdkbRgIpMgmt 9 }
rdkbRgIpMgmtWanAddrBase OBJECT IDENTIFIER ::= { rdkbRgIpMgmtWanAddr 1 }

rdkbRgIpMgmtWanMode OBJECT-TYPE
    SYNTAX INTEGER {
        dhcp(1),
        static(2),
        dualIp(3)
    }
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "When dualIp(3) is selected, the second IP stack is used for
        user operations.
        Stored in non-vol, dhcp(1) after factory reset."
```

```

 ::= { rdkbRgIpMgmtWanAddrBase 1 }

rdkbRgIpMgmtWanMtu OBJECT-TYPE
    SYNTAX INTEGER (0..1500)
    UNITS       "bytes"
    MAX-ACCESS   read-write
```

STATUS current

DESCRIPTION

"MTU size for the IP layer. Valid range is 256 to 1500.  
0 is the default which is 1500.  
Stored in non-vol, 0 after factory reset."

::= { rdkbRgIpMgmtwanAddrBase 2 }

rdkbRgIpMgmtwanTtl OBJECT-TYPE

SYNTAX INTEGER (0..255)

UNITS "hops"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"TTL for the IP packets forwarded to WAN.  
0 means no change to the original TTL (after  
being decreased by 1).  
Stored in non-vol, 0 after factory reset."

::= { rdkbRgIpMgmtwanAddrBase 3 }

rdkbRgIpMgmtwanAddrDynamic OBJECT IDENTIFIER ::= { rdkbRgIpMgmtwanAddr 2 }

rdkbRgIpMgmtwanAddrDynamicIp OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The IP address for the DHCP-assigned router address. This is the  
outside-facing WAN address of the router. Stored in non-vol, 0.0.0.0 after  
factory reset."

::= { rdkbRgIpMgmtwanAddrDynamic 1 }

rdkbRgIpMgmtwanAddrDynamicLeaseTime OBJECT-TYPE

SYNTAX Unsigned32

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The lease time for the dynamically assigned WAN address."

DEFVAL { 3600 }

::= { rdkbRgIpMgmtwanAddrDynamic 2 }

rdkbRgIpMgmtwanAddrStatic OBJECT IDENTIFIER ::= { rdkbRgIpMgmtwanAddr 3 }

rdkbRgIpMgmtwanStaticNetwork OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Stored in non-vol, 0.0.0.0 after factory reset."

::= { rdkbRgIpMgmtwanAddrStatic 1 }

rdkbRgIpMgmtwanStaticSubnetMask OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Stored in non-vol, 0.0.0.0 after factory reset."

::= { rdkbRgIpMgmtwanAddrStatic 2 }

rdkbRgIpMgmtwanStaticGateway OBJECT-TYPE

SYNTAX IpAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Stored in non-vol, 0.0.0.0 after factory reset."

::= { rdkbRgIpMgmtwanAddrStatic 3 }

```

RDKB-RG-v1.mib
rdkbRgIpMgmtwanStaticNameServerEnable OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Defines whether static WAN DNS is enabled."
    ::= { rdkbRgIpMgmtwanAddrStatic 4 }

rdkbRgIpMgmtwanStaticHostName OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This is the static host name of WAN."
    ::= { rdkbRgIpMgmtwanAddrStatic 5 }

rdkbRgIpMgmtwanStaticDomainName OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "This is the static domain name of WAN."
    ::= { rdkbRgIpMgmtwanAddrStatic 6 }

-- removed node rdkbRgIpMgmt 10,11,12
-- *****
-- LAN PORT Control Table
-- *****
rdkbRgIpMgmtLanPortControl OBJECT IDENTIFIER ::= { rdkbRgIpMgmt 13 }

rdkbRgIpMgmtLanPortControlTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgIpMgmtLanPortControlEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Table to control the mode for each LAN PORT.
         LAN PORTs are numbered 1-4 and are mapped to physical
         port location. Each port can either be in router or
         in bridge mode."
    ::= { rdkbRgIpMgmtLanPortControl 1 }

rdkbRgIpMgmtLanPortControlEntry OBJECT-TYPE
    SYNTAX      RdkbRgIpMgmtLanPortControlEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        ""
    INDEX { rdkbRgIpMgmtLanPortControlIndex }
    ::= { rdkbRgIpMgmtLanPortControlTable 1 }

RdkbRgIpMgmtLanPortControlEntry ::= SEQUENCE {
    rdkbRgIpMgmtLanPortControlIndex    INTEGER,
    rdkbRgIpMgmtLanPortMode            INTEGER
}

rdkbRgIpMgmtLanPortControlIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..4)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index for each LAN port"
    ::= { rdkbRgIpMgmtLanPortControlEntry 1 }

rdkbRgIpMgmtLanPortMode OBJECT-TYPE
    SYNTAX      INTEGER {
        bridge (1),

```

```

        router (2)
    }
MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Each physical LAN port can either be controlled
    as bridge or router. The rdkbRgIpMgmtLanPortMode MIB only works
    when RdkbRgIpMgmtLanMode.32=4(Mixed). Setting this MIB
    through SNMP will take effect only after
    rdkbRgIpMgmtApplySettings.0 set to true and this setting will
    reboot to take effect"
 ::= { rdkbRgIpMgmtLanPortControlEntry 2 }

-- removed node rdkbRgIpMgmt 14, 15

-- Apply setting to activate chagnes:
rdkbRgIpMgmtApplySettings OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "If set to true(1), then all the settings (MIB values)
        from this MIB tree will be applied to run time configuration,
        modifying previous RG operation with the new settings.
        Before setting the value to true, MIBs modified in the MIB
        tree are stored in non-vol and will not modify RG operation
        until rdkbRgIpMgmtApplySettings is set to true or CM resets.
        Note: this applies only to the MIB objects that are stored
        in non-vol.
        Always returns false(2) when read."
 ::= { rdkbRgIpMgmt 1001 }

-- =====
-- FIREWALL
--
-- Also includes port tiggering, forwarding, DMZ
-- =====

rdkbRgFirewall OBJECT IDENTIFIER ::= { rdkbRg 4 }

rdkbRgFirewallBase OBJECT IDENTIFIER ::= { rdkbRgFirewall 1 }

rdkbRgFirewallProtection OBJECT-TYPE
SYNTAX INTEGER {
    disable(0),
    low(1),
    medium(2),
    high(3),
    custom(4)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Controls the firewall. This parameter is stored in non-vol and
    is enabled after factory reset.
    Disable: Completely disables the SPI Firewall
    Low/ Enable: Is Equivalent to Old Firewall Enable Mode with No Ports Restricted
    Medium: Enables the SPI Firewall plus includes a list of Allowed Services that
    will be allowed to through the Firewall
    High: Enables the SPI Firewall plus a shortened list of Allowed Services
    Custom: Enables the SPI Firewall set to custom values. For use with Puma-based
    products."
 ::= { rdkbRgFirewallBase 1 }

rdkbRgFirewallDmzAddress OBJECT-TYPE
    SYNTAX      IpAddress

```

```

MAX-ACCESS    read-write
STATUS        current
DESCRIPTION
    "Stored in non-vol, 0.0.0.0 after factory reset."
::= { rdkbRgFirewallBase 2 }

```

```

rdkbRgFirewallPortForwardEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "Enables or disables firewall port forwarding on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewallBase 3 }

```

```

rdkbRgFirewallPortTriggerEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "Enables or disables firewall port triggering on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewallBase 4 }

```

```

rdkbRgFirewallTraffic OBJECT IDENTIFIER ::= { rdkbRgFirewall 2 }

```

```

rdkbRgFirewallWANBlockingEnable OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
        "Controls WAN blocking RG feature.
         Stored in non-vol, enabled after factory reset."
    ::= { rdkbRgFirewallTraffic 4 }

```

-- Firewall events reporting

```

rdkbRgFirewallReport OBJECT IDENTIFIER ::= { rdkbRgFirewall 4 }

```

```

rdkbRgFirewallReportEventTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgFirewallReportEventEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        "This table is stored in non-vol and is empty
         after factory reset."
    ::= { rdkbRgFirewallReport 1 }

```

```

rdkbRgFirewallReportEventEntry OBJECT-TYPE
    SYNTAX      RdkbRgFirewallReportEventEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        ""
    INDEX { rdkbRgFirewallReportEventIndex }
    ::= { rdkbRgFirewallReportEventTable 1 }

```

```

RdkbRgFirewallReportEventEntry ::= SEQUENCE {
    rdkbRgFirewallReportEventIndex      INTEGER,
    rdkbRgFirewallReportEventDescription SnmpAdminString,
    rdkbRgFirewallReportEventCount      INTEGER,
    rdkbRgFirewallReportEventLastOccurance SnmpAdminString,
    rdkbRgFirewallReportEventTarget      SnmpAdminString,
    rdkbRgFirewallReportEventSource      SnmpAdminString
}

```

```

rdkbRgFirewallReportEventIndex OBJECT-TYPE

```

```
SYNTAX      INTEGER
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
```

```
    "The index"
 ::= { rdkbRgFirewallReportEventEntry 1 }
```

```
rdkbRgFirewallReportEventDescription OBJECT-TYPE
```

```
SYNTAX      SnmpAdminString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
    ""
 ::= { rdkbRgFirewallReportEventEntry 2 }
```

```
rdkbRgFirewallReportEventCount OBJECT-TYPE
```

```
SYNTAX      INTEGER
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
    ""
 ::= { rdkbRgFirewallReportEventEntry 3 }
```

```
rdkbRgFirewallReportEventLastOccurance OBJECT-TYPE
```

```
SYNTAX      SnmpAdminString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
    ""
 ::= { rdkbRgFirewallReportEventEntry 4 }
```

```
rdkbRgFirewallReportEventTarget OBJECT-TYPE
```

```
SYNTAX      SnmpAdminString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
    ""
 ::= { rdkbRgFirewallReportEventEntry 5 }
```

```
rdkbRgFirewallReportEventSource OBJECT-TYPE
```

```
SYNTAX      SnmpAdminString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

```
    ""
 ::= { rdkbRgFirewallReportEventEntry 6 }
```

```
rdkbRgFirewallReportMgmt OBJECT IDENTIFIER ::= { rdkbRgFirewallReport 2 }
```

```
rdkbRgFirewallReportMgmtClearLog OBJECT-TYPE
```

```
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
```

```
    "Note: this object does not need rdkbRgFirewallApplySettings
    to take effect."
```

```
DEFVAL { false }
 ::= { rdkbRgFirewallReportMgmt 1 }
```

```
rdkbRgFirewallReportEmailLogNow OBJECT-TYPE
```

```
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
```

```
    "Triggers sending current logs via email. Always returns false.
    Note: this objects does not need rdkbRgFirewallApplySettings to
    send the logs."
```



```
DEFVAL { false }
 ::= { rdkbRgFirewallReportMgmt 2 }
```

```
rdkbRgFirewallReportEmail OBJECT IDENTIFIER ::= { rdkbRgFirewallReport 3 }
```

```
rdkbRgFirewallReportEmailEnable OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enables sending logs via email. Email is sent when an event happens."
    ::= { rdkbRgFirewallReportEmail 1 }
```

```
rdkbRgFirewallReportEmailAddress OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This is stored in non-vol and is empty after factory reset."
    ::= { rdkbRgFirewallReportEmail 2 }
```

```
rdkbRgFirewallReportEmailSntpServer OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "IP address or FQDN.
        Stored in non-vol. Empty after factory reset."
    ::= { rdkbRgFirewallReportEmail 3 }
```

```
rdkbRgFirewallReportEmailUsername OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This is stored in non-vol and is empty after factory reset."
    ::= { rdkbRgFirewallReportEmail 4 }
```

```
rdkbRgFirewallReportEmailPassword OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "This is stored in non-vol and is empty after factory reset."
    ::= { rdkbRgFirewallReportEmail 5 }
```

```
-- Firewall IP filtering
```

```
rdkbRgFirewallRules OBJECT IDENTIFIER ::= { rdkbRgFirewall 5 }
```

```
-- removed node rdkbRgFirewall Node 1,2,3
```

```
rdkbRgFirewallMacFilterEnable OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "True = Enable the Mac address filtering feature. False = disable.
        this value is written to non-vol and set to false after a factory reset."
    DEFVAL { false }
    ::= { rdkbRgFirewallRules 4 }
```

```
rdkbRgFirewallMacFilterMode OBJECT-TYPE
    SYNTAX INTEGER {
        block(0),
```

```

    permit(1)
  }
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION
    "block(0)- Macs listed in the rdkbRgFirewallMacFilterEntryTable will be
blocked.
    permit(1)- Macs listed in the rdkbRgFirewallMacFilterEntryTable will be
permitted.
    This value is written to non-vol and is set to block(0) after a factory
reset."
  DEFVAL { 0 }
  ::= { rdkbRgFirewallRules 5 }

rdkbRgFirewallPortFilterEnable OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION
    "True = Enable the Port filtering feature. False = disable.
    this value is written to non-vol and set to false after a factory reset."
  DEFVAL { false }
  ::= { rdkbRgFirewallRules 6 }

rdkbRgFirewallUrlKeywordFiltering OBJECT IDENTIFIER ::= { rdkbRgFirewallRules
7 }

rdkbRgFirewallUrlKeywordFilterEnable OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-write
  STATUS        current
  DESCRIPTION
    "True = Enable the Url keyword filtering feature. False = disable.
    this value is written to non-vol and set to false after a factory reset."
  DEFVAL { false }
  ::= { rdkbRgFirewallUrlKeywordFiltering 1 }

rdkbRgFirewallUrlKeywordFilterTable OBJECT-TYPE
  SYNTAX        SEQUENCE OF RdkbRgFirewallUrlKeywordFilterEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "A table of url and keyword rules that are denied from accessing
Internet."
  ::= { rdkbRgFirewallUrlKeywordFiltering 2 }

rdkbRgFirewallUrlKeywordFilterEntry OBJECT-TYPE
  SYNTAX        RdkbRgFirewallUrlKeywordFilterEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
    "A row in the table that specifies a single station MAC address."
  INDEX { rdkbRgFirewallUrlKeywordFilterIndex }
  ::= { rdkbRgFirewallUrlKeywordFilterTable 1 }

RdkbRgFirewallUrlKeywordFilterEntry ::=
  SEQUENCE {
    rdkbRgFirewallUrlKeywordFilterIndex          INTEGER,
    rdkbRgFirewallUrlKeywordFilterRowStatus      RowStatus,
    rdkbRgFirewallUrlKeywordFilterMethod         INTEGER,
    rdkbRgFirewallUrlKeywordFilterMatch          OCTET STRING,
    rdkbRgFirewallUrlKeywordFilterAlwaysBlock    TruthValue,
    rdkbRgFirewallUrlKeywordFilterBlockStartTime OCTET STRING,
    rdkbRgFirewallUrlKeywordFilterBlockEndTime  OCTET STRING,
    rdkbRgFirewallUrlKeywordFilterBlockDays      BITS
  }

rdkbRgFirewallUrlKeywordFilterIndex OBJECT-TYPE

```

SYNTAX INTEGER (1..20)  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION

"The index"  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 1 }

rdkbRgFirewallUrlKeywordFilterRowStatus OBJECT-TYPE

SYNTAX RowStatus  
 MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION

"The row status. A row can be destroyed.  
 If the row is not used, set to notInService."  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 2 }

rdkbRgFirewallUrlKeywordFilterMethod OBJECT-TYPE

SYNTAX INTEGER {  
     url(1),  
     keyword(2)  
 }

MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION

"If url(1), deny access to specific websites (URLs)  
 If keyword(2), deny access to websites containing specific words"  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 3 }

rdkbRgFirewallUrlKeywordFilterMatch OBJECT-TYPE

SYNTAX OCTET STRING  
 MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION

"URLs or specific words according to Method set"  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 4 }

rdkbRgFirewallUrlKeywordFilterAlwaysBlock OBJECT-TYPE

SYNTAX TruthValue  
 MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION

"If true(1), always be blocked, regardless of startTime, endTime and  
 blockDays

If false(2), blocked at time set in startTime, endTime and blockDays"  
 DEFVAL { true }  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 5 }

rdkbRgFirewallUrlKeywordFilterBlockStartTime OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (5))  
 MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION

"24 Hour format HH:MM to set the start time to block"  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 6 }

rdkbRgFirewallUrlKeywordFilterBlockEndTime OBJECT-TYPE

SYNTAX OCTET STRING (SIZE (5))  
 MAX-ACCESS read-write  
 STATUS current  
 DESCRIPTION

"24 Hour format HH:MM to set the end time to block"  
 ::= { rdkbRgFirewallUrlKeywordFilterEntry 7 }

rdkbRgFirewallUrlKeywordFilterBlockDays OBJECT-TYPE

SYNTAX BITS {  
     sun(0),  
     mon(1),  
     tue(2),

```

        wed(3),
        thu(4),
        fri(5),
        sat(6)
    }
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "BITMAP to indicate which days to block"
    ::= { rdkbRgFirewallUrlKeywordFilterEntry 8 }

-- Removed node    rdkbRgFirewall 6,7

rdkbRgFirewallHttpBlockingEnable OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "Enables or disables firewall HTTP blocking on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewall 8 }

rdkbRgFirewallP2pBlockingEnable OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "Enables or disables firewall P2P blocking on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewall 9 }

rdkbRgFirewallIdentBlockingEnable OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "Enables or disables firewall ident blocking on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewall 10 }

rdkbRgFirewallIcmpBlockingEnable OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "Enables or disables firewall ICMP blocking on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewall 11 }

rdkbRgFirewallMulticastBlockingEnable OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "Enables or disables firewall multicast blocking on the device."
    DEFVAL { false }
    ::= { rdkbRgFirewall 12 }

rdkbRgFirewallApplySettings OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-write
    STATUS        current
    DESCRIPTION
        "If set to true(1), then all the settings (MIB values)
        from this MIB tree will be applied to run time configuration,
        modifying previous RG operation with the new settings.
        Before setting the value to true, MIBs modified in the MIB
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```

```

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tree are stored in non-vol and will not modify RG operation
until rdkgRgFirewallApplySettings is set to true or CM resets.
Note: this applies only to the MIB objects that are stored
in non-vol.
Always returns false(2) when read."
::= { rdkgRgFirewall 1001 }

rdkgRgFirewallFactoryReset OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Set true(1) to restore default settings of firewall.
    Always returns false(2) when read."
::= { rdkgRgFirewall 1002 }

-- ===
-- RIP
-- ===

rdkgRgRip OBJECT IDENTIFIER ::= { rdkgRg 5 }

rdkgRgRipBase OBJECT IDENTIFIER ::= { rdkgRgRip 1 }

rdkgRgRipEnabled OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Enables or disables router information protocol support in the device."
DEFVAL { false }
::= { rdkgRgRipBase 1 }

rdkgRgRipMd5AuthEnable OBJECT-TYPE
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Setting this object to true(1) causes the device to enable md5 auth"
::= { rdkgRgRipBase 2 }

rdkgRgRipMd5KeyId OBJECT-TYPE
SYNTAX      INTEGER (0..255)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Key ID value for Md5 auth.
    This object return an empty string when read."
::= { rdkgRgRipBase 3 }

rdkgRgRipMd5KeyValue OBJECT-TYPE
SYNTAX      OCTET STRING (SIZE(0..16))
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "MD5 Key Value"
::= { rdkgRgRipBase 4 }

rdkgRgRipInterval OBJECT-TYPE
SYNTAX      INTEGER (10..600)
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Interval in seconds for the Rip Reporting interval."
::= { rdkgRgRipBase 5 }

rdkgRgRipDestIpAddressType OBJECT-TYPE
SYNTAX      InetAddressType

```

```

MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "The type of IP address assigned to the rgIpRipDestIpAddress."
DEFVAL { ipv4 }
::= { rdkbRgRipBase 6 }

```

```

rdkbRgRipDestIpAddress OBJECT-TYPE
    SYNTAX InetAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Defines the RIP unicast destination IP Address for Rip Reports.
        If this value returns 0.0.0.0 then this is the default
        multicast IP address in the RFC (224.0.0.9)"
    ::= { rdkbRgRipBase 7 }

```

```

rdkbRgRipAuthType OBJECT-TYPE
    SYNTAX INTEGER {
        noAuth(1),
        simplePassword(2),
        md5(3)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "For use with puma-based products,
        NoAuth(1), no authentication,
        SimplePassword(2), simple plain password,
        MD5(3), md5 auth"
    DEFVAL { noAuth }
    ::= { rdkbRgRipBase 8 }

```

```

rdkbRgRipAuthSimplePassword OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Simple password when auth type is 2"
    ::= { rdkbRgRipBase 9 }

```

```

-- =====
-- removed node rdkbRg 6
-- =====

```

```

-- =====
-- MoCA specific configuration
-- =====

```

```

rdkbRgMocaExtSpecific OBJECT IDENTIFIER ::= { rdkbRg 7 }

```

```

rdkbRgMocaExtBase OBJECT IDENTIFIER ::= { rdkbRgMocaExtSpecific 1 }

```

```

rdkbRgMocaExtProvisioning OBJECT IDENTIFIER ::= { rdkbRgMocaExtSpecific 2 }

```

```

rdkbRgMocaExtProvFilename OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the filename for extender provisioning.
        The string is sent in DHCP OFFER and ACK as boot file to the extender.
        If not set, boot file option is empty."
    DEFVAL { "" }
    ::= { rdkbRgMocaExtProvisioning 1 }

```

```

rdkbRgMocaExtProvServerType OBJECT-TYPE

```

```

SYNTAX InetAddressType
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Specifies the type for IP address for extender provisioning"
DEFVAL { ipv4 }
::= { rdkbRgMocaExtProvisioning 2 }

```

```

rdkbRgMocaExtProvServer OBJECT-TYPE
    SYNTAX InetAddress
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Specifies the IP address for extender provisioning.
        The address is sent in DHCP OFFER and ACK as next server to the
        extender.
        If not set, the next server field is empty."
    DEFVAL { '00000000'h } -- 0.0.0.0
    ::= { rdkbRgMocaExtProvisioning 3 }

```

```

-- =====
-- Removed node rdkbRg 8,9,10,11,12
-- =====

```

```

-- =====
-- wifi Hotspot Specific Information
-- =====

```

```
rdkbRgwifiHotspotMib OBJECT IDENTIFIER ::= { rdkbRg 13 }
```

```
rdkbRgwifiHotspotBase OBJECT IDENTIFIER ::= { rdkbRgwifiHotspotMib 1 }
```

```

rdkbRgwifiHotspotEnabled OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Enables or disable wifi Hotspot support in the device."
    ::= { rdkbRgwifiHotspotBase 1 }

```

```

rdkbRgwifiHotspotTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgwifiHotspotEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table used to configure settings related to wi-fi Hotspot."
    ::= { rdkbRgwifiHotspotBase 2 }

```

```

rdkbRgwifiHotspotEntry OBJECT-TYPE
    SYNTAX      RdkbRgwifiHotspotEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry defining the wi-fi hotspot characteristics of an
        individual wi-Fi network interface."
    INDEX       { rdkbRgwifiHotspotIf }
    ::= { rdkbRgwifiHotspotTable 1 }

```

```

RdkbRgwifiHotspotEntry ::=
    SEQUENCE {
        rdkbRgwifiHotspotInstance      Unsigned32,
        rdkbRgwifiHotspotIf            INTEGER,
        rdkbRgwifiHotspotMode          INTEGER,
        rdkbRgwifiHotspotCpeIdleTimeout Unsigned32,
        rdkbRgwifiHotspotCpeSessionTimeout Unsigned32,

```

```

RDKB-RG-v1.mib
rdkbrgWifiHotspotRadiusAccAddressType InetAddressType,
rdkbrgWifiHotspotRadiusAccAddress      InetAddress,
rdkbrgWifiHotspotRadiusAccPort          InetPortNumber,
rdkbrgWifiHotspotRadiusAccKey           DisplayString,
rdkbrgWifiHotspotPacketFilterMask       Unsigned32,
rdkbrgWifiHotspotInsertDhcpOptionsMask Unsigned32,
rdkbrgWifiHotspotRowStatus              RowStatus,
rdkbrgWifiHotspotRadiusAccInterimInterval Unsigned32
}

rdkbrgWifiHotspotInstance OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The key for a unique instance of this object."
    ::= { rdkbrgWifiHotspotEntry 1 }

rdkbrgWifiHotspotIf OBJECT-TYPE
    SYNTAX      INTEGER {
        wifi1-0(1),
        wifi1-1(2),
        wifi1-2(3),
        wifi1-3(4),
        wifi1-4(5),
        wifi1-5(6),
        wifi1-6(7),
        wifi1-7(8),
        wifi2-0(9),
        wifi2-1(10),
        wifi2-2(11),
        wifi2-3(12),
        wifi2-4(13),
        wifi2-5(14),
        wifi2-6(15),
        wifi2-7(16)
    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Wi-fi network interface."
    ::= { rdkbrgWifiHotspotEntry 2 }

rdkbrgWifiHotspotMode OBJECT-TYPE
    SYNTAX      INTEGER {
        disable(1),
        enableBridge(2),
        enableL2oGre(3)
    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Wi-fi Hotsot mode:
        enableBridge - Wi-Fi traffic will be bridged
        enableL2oGre - Wi-Fi traffic will be sent over GRE tunnel.
                     GRE Tunnel should be configured and enabled."
    ::= { rdkbrgWifiHotspotEntry 3 }

rdkbrgWifiHotspotCpeIdleTimeout OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "CPE inactivity/idle timeout in seconds which will trigger disconnect.
        Value of 0 will disable inactivity tracking."
    ::= { rdkbrgWifiHotspotEntry 4 }

```



rdkbrgwifiHotspotCpeSessionTimeout OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"CPE maximum session duration timeout in seconds.

Value of 0 will disable tracking session duration."

::= { rdkbrgwifiHotspotEntry 5 }

rdkbrgwifiHotspotRadiusAccAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The type of internet address used for

rdkbrgwifiHotspotRadiusAccAddress."

::= { rdkbrgwifiHotspotEntry 6 }

rdkbrgwifiHotspotRadiusAccAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The internet address of the RADIUS Accounting server for this service

set."

::= { rdkbrgwifiHotspotEntry 7 }

rdkbrgwifiHotspotRadiusAccPort OBJECT-TYPE

SYNTAX InetPortNumber

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The UDP port used to communicate with the RADIUS Accounting server.

Default value set to 1813."

DEFVAL { 1813 }

::= { rdkbrgwifiHotspotEntry 8 }

rdkbrgwifiHotspotRadiusAccKey OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The RADIUS Accounting server shared security key."

::= { rdkbrgwifiHotspotEntry 9 }

rdkbrgwifiHotspotPacketFilterMask OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Bit mask for limiting traffic to certain packet types.

Possible value:

11111111 11111111 11111111 11111111: Allow All traffic

xxxxxxxx xxxxxxxx xxxxxxxx xxxxxx1: Allow IPv4 (0x0800) packets

xxxxxxxx xxxxxxxx xxxxxxxx xxxxxx1x: Allow IPv6 (0x86dd) packets

xxxxxxxx xxxxxxxx xxxxxxxx xxxxxx1xx: Allow IPx (0x8137) packets

xxxxxxxx xxxxxxxx xxxxxxxx xxxx1xxx: Allow ARP (0x0806) packets

xxxxxxxx xxxxxxxx xxxxxxxx xxx1xxxx: Allow RARP (0x8035) packets

xxxxxxxx xxxxxxxx xxxxxxxx xx1xxxxx: Allow VLAN (0x8100) packets

"

::= { rdkbrgwifiHotspotEntry 10 }

rdkbrgwifiHotspotInsertDhcpOptionsMask OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"Bit mask for inserting DHCP options in DHCP Discover/Request packet from

```

RDKB-RG-v1.mib
connected wifi client device.
Possible value:
0x1: Insert DHCP relay agent option 82.
      circuit-id sub-option: AP-MAC-ADDRESS;SSID-NAME;SSID-TYPE
0x2: Insert DHCP relay agent option 82.
      remote-id sub-option: String containing MAC address of connected
                           wifi client device in the format
XX:XX:XX:XX:XX:XX.
      0x4: Insert/Modify DHCP option 60 with string containing SSID Name.
      0x8: Enables/Disables CM MAC address (format XX:XX:XX:XX:XX:XX)
included in DHCP option 82.2 remote-id"
 ::= { rdkbRgwifiHotspotEntry 11 }

rdkbRgwifiHotspotRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "The RowStatus interlock for the creation and deletion
    can be modified at any time while the row is active(1)."
```

```

 ::= { rdkbRgwifiHotspotEntry 12 }

rdkbRgwifiHotspotRadiusAccInterimInterval OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-create
STATUS current
DESCRIPTION
    "Setting to control interval between each RADIUS interim update in
seconds.
    Feature may be disabled by setting to zero, else minimum value is
60"
    DEFVAL { 900 }
 ::= { rdkbRgwifiHotspotEntry 13 }

rdkbRgwifiHotspotAutRateLimit OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Authentication rate limit in messages per second. If client exceeds
    this limit, authentication from the client is ignored for
    rdkbRgwifiHotspotAutDenialTimeout."
```

```

 ::= { rdkbRgwifiHotspotBase 3 }

rdkbRgwifiHotspotAutDenialTimeout OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Timeout in seconds during which authentication from a client is ignored
    once authentication message rate exceeds rdkbRgwifiHotspotAutRateLimit."
```

```

 ::= { rdkbRgwifiHotspotBase 4 }

rdkbRgwifiHotspotRadiusOrigIf OBJECT-TYPE
SYNTAX INTEGER {
    eRouter(1),
    cm(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
    "Originating interface of radius authentication and accounting traffic."
```

```

 ::= { rdkbRgwifiHotspotBase 5 }

rdkbRgwifiHotspotIgnoreMaxCpeSetting OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
```

## DESCRIPTION

"This setting is applicable for wifi hotspot bridged mode.  
When set to true(1), clients connected through the hotspot wifi will not

be

counted when enforcing the 'Maximum CPE devices' on DOCSIS."

::= { rdkbRgWifiHotspotBase 6 }

## rdkbRgWifiHotspotCapable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

"Returns whether the device is capable of WiFi HotSpot functionality."

::= { rdkbRgWifiHotspotBase 7 }

## rdkbRgWifiHotspotConnectedClientsTable OBJECT-TYPE

SYNTAX SEQUENCE OF RdkbRgWifiHotspotConnectedClientsEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"Clients table connected to wi-fi Hotspot."

::= { rdkbRgWifiHotspotBase 8 }

## rdkbRgWifiHotspotConnectedClientsEntry OBJECT-TYPE

SYNTAX RdkbRgWifiHotspotConnectedClientsEntry

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"An entry defining the wi-fi hotspot connected clients"

INDEX { rdkbRgWifiHotspotIf, rdkbRgWifiHotspotConnectedClientsIndex }

::= { rdkbRgWifiHotspotConnectedClientsTable 1 }

## RdkbRgWifiHotspotConnectedClientsEntry ::=

SEQUENCE {  
rdkbRgWifiHotspotConnectedClientsIndex INTEGER,

PhysAddress,  
rdkbRgWifiHotspotConnectedClientsRssiLevel Integer32,

IpAddress,  
rdkbRgWifiHotspotConnectedClientsHostName

SnmpAdminString,  
rdkbRgWifiHotspotConnectedClientsDhcpv4Status

INTEGER,  
}

## rdkbRgWifiHotspotConnectedClientsIndex OBJECT-TYPE

SYNTAX INTEGER

MAX-ACCESS not-accessible

STATUS current

## DESCRIPTION

"The index of the client connected to specific hotspot ssid."

::= { rdkbRgWifiHotspotConnectedClientsEntry 1 }

## rdkbRgWifiHotspotConnectedClientsPhysAddr OBJECT-TYPE

SYNTAX PhysAddress

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"MAC address of the client connected to the Hotspot SSID"

::= { rdkbRgWifiHotspotConnectedClientsEntry 2 }

## rdkbRgWifiHotspotConnectedClientsRssiLevel OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

## DESCRIPTION

"Signal strength of the Hotspot client in dBm"

```

RDKB-RG-v1.mib
 ::= { rdkbRgWifiHotspotConnectedClientsEntry 3 }

rdkbRgWifiHotspotConnectedClientsIpv4Addr OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "IPv4 address obtained by the client from Hotspot DHCP server"
    ::= { rdkbRgWifiHotspotConnectedClientsEntry 4 }

rdkbRgWifiHotspotConnectedClientsHostName OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "Hostname of the client based on DHCP option 12."
    ::= { rdkbRgWifiHotspotConnectedClientsEntry 5 }

rdkbRgWifiHotspotConnectedClientsDhcpv4Status OBJECT-TYPE
    SYNTAX      INTEGER {
                                discover(1),
                                offer(2),
                                request(3),
                                ack(4),
                                nack(5)
                            }
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "DHCPv4 status of the Hotspot client."
    ::= { rdkbRgWifiHotspotConnectedClientsEntry 6 }

rdkbRgWifiHotspotDisablePMKCache OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Enables or disable WPA2 PMK Caching. By default this feature is enable"
        DEFVAL { true }
    ::= { rdkbRgWifiHotspotBase 9 }

rdkbRgWifiHotspotConnectionSpeedMin OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Minimum connection speed in kbps required by client to maintain
        connectivity."
    ::= { rdkbRgWifiHotspotBase 10 }

rdkbRgWifiHotspotConnectionSpeedTimeout OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Timeout in seconds during which client is allowed to maintain
        connectivity
        once connection speed is below rdkbRgWifiHotspotConnectionSpeedMin. When
        timeout
        expires client is disassociated."
    ::= { rdkbRgWifiHotspotBase 11 }

-- =====
-- L2oGRE tunnel for wifi Hotspot specific information
-- =====

rdkbRgL2ogreMib OBJECT IDENTIFIER ::= { rdkbRg 14 }

```

rdkbRgL2ogreBase OBJECT IDENTIFIER ::= { rdkbRgL2ogreMib 1 }

rdkbRgL2ogreEnabled OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Enables or disable GRE Tunnel support in the device."

DEFVAL { false }

::= { rdkbRgL2ogreBase 1 }

rdkbRgL2ogrePriRemoteAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The IP address type (ipv4, ipv6 or dns) of primary remote endpoint of the GRE tunnel."

DEFVAL { ipv4 }

::= { rdkbRgL2ogreBase 2 }

rdkbRgL2ogrePriRemoteAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"IP address or FQDN of primary remote endpoint of the GRE tunnel."

::= { rdkbRgL2ogreBase 3 }

rdkbRgL2ogreSecRemoteAddressType OBJECT-TYPE

SYNTAX InetAddressType

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The IP address type (ipv4, ipv6 or dns) of secondary remote endpoint of the GRE tunnel."

DEFVAL { ipv4 }

::= { rdkbRgL2ogreBase 4 }

rdkbRgL2ogreSecRemoteAddress OBJECT-TYPE

SYNTAX InetAddress

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"IP address or FQDN of secondary remote endpoint of the GRE tunnel."

::= { rdkbRgL2ogreBase 5 }

rdkbRgL2ogreDSCP OBJECT-TYPE

SYNTAX Integer32 (0..63)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The method is used to set the high 6 bits of TOS in the IPv4 header or traffic class in IPv6 header."

::= { rdkbRgL2ogreBase 6 }

rdkbRgL2ogreKeepAliveMode OBJECT-TYPE

SYNTAX INTEGER {  
disabled(1),  
ping(2),  
ping-noswitchover(3)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Keepalive modes for failover mechanism.

ping - Use ICMP pings within tunnel as a keepalive messages."

::= { rdkbRgL2ogreBase 7 }

```

rdkbRgL2ogreKeepAliveCount OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Number of keep-alive messages sent at regular interval."
    ::= { rdkbRgL2ogreBase 8 }

rdkbRgL2ogreKeepAliveInterval OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Interval in seconds between keep-alive messages."
    ::= { rdkbRgL2ogreBase 9 }

rdkbRgL2ogreKeepAliveFailureThreshold OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
        "Number of keep-alive failures that will cause fail-over."
    ::= { rdkbRgL2ogreBase 10 }

rdkbRgL2ogreStatsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgL2ogreStatsEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "This table provides statistical information of GRE tunnel."
    ::= { rdkbRgL2ogreBase 11 }

rdkbRgL2ogreStatsEntry OBJECT-TYPE
    SYNTAX      RdkbRgL2ogreStatsEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "This table provides statistical information of GRE tunnel."
    INDEX { rdkbRgL2ogreStatsIndex }
    ::= { rdkbRgL2ogreStatsTable 1 }

RdkbRgL2ogreStatsEntry ::= SEQUENCE {
    rdkbRgL2ogreStatsIndex          Integer32,
    rdkbRgL2ogreStatsBytesSent      Counter64,
    rdkbRgL2ogreStatsBytesReceived  Counter64,
    rdkbRgL2ogreStatsPacketsSent    Counter64,
    rdkbRgL2ogreStatsPacketsReceived Counter64,
    rdkbRgL2ogreStatsDiscardPacketsReceived Counter64,
    rdkbRgL2ogreStatsErrorPacketsReceived Counter64,
    rdkbRgL2ogreStatsKeepAliveSent  Counter64,
    rdkbRgL2ogreStatsKeepAliveReceived Counter64,
    rdkbRgL2ogreStatsRowStatus      RowStatus
}

rdkbRgL2ogreStatsIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..256)
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "Table index"
    ::= { rdkbRgL2ogreStatsEntry 1 }

rdkbRgL2ogreStatsBytesSent OBJECT-TYPE
    SYNTAX      Counter64
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION

```

```

    "Number bytes sent."
 ::= { rdkbRgL2ogreStatsEntry 2 }

```

```
rdkbRgL2ogreStatsBytesReceived OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number bytes received."
 ::= { rdkbRgL2ogreStatsEntry 3 }

```

```
rdkbRgL2ogreStatsPacketsSent OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number packets sent."
 ::= { rdkbRgL2ogreStatsEntry 4 }

```

```
rdkbRgL2ogreStatsPacketsReceived OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number packets received."
 ::= { rdkbRgL2ogreStatsEntry 5 }

```

```
rdkbRgL2ogreStatsDiscardPacketsReceived OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number packets received that were discarded.
     Because source network interface is down."
 ::= { rdkbRgL2ogreStatsEntry 6 }

```

```
rdkbRgL2ogreStatsErrorPacketsReceived OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number packets received that were in error.
     Because tunnel packets are not correct type.
     Eg. Received IP packet instead of L2 packets."
 ::= { rdkbRgL2ogreStatsEntry 7 }

```

```
rdkbRgL2ogreStatsKeepAliveSent OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number keepalive packets sent."
 ::= { rdkbRgL2ogreStatsEntry 8 }

```

```
rdkbRgL2ogreStatsKeepAliveReceived OBJECT-TYPE
```

```

SYNTAX      Counter64
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    "Number keepalive packets received."
 ::= { rdkbRgL2ogreStatsEntry 9 }

```

```
rdkbRgL2ogreSourceIfTable OBJECT-TYPE
```

```

SYNTAX      SEQUENCE OF RdkbRgL2ogreSourceIfEntry
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    "This table contains information specific to network source interface

```

```

                                RDKB-RG-v1.mib
    whose traffic is mapped into GRE tunnel."
 ::= { rdkbRgL2ogreBase 12 }

rdkbRgL2ogreSourceIfEntry OBJECT-TYPE
    SYNTAX      RdkbRgL2ogreSourceIfEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of individual source interface entries mapped into GRE tunnel."
    INDEX { rdkbRgL2ogreSourceIfInstance }
    ::= { rdkbRgL2ogreSourceIfTable 1 }

RdkbRgL2ogreSourceIfEntry ::= SEQUENCE {
    rdkbRgL2ogreSourceIfInstance      Unsigned32,
    rdkbRgL2ogreSourceIf              INTEGER,
    rdkbRgL2ogreSourceIfEnabled       TruthValue,
    rdkbRgL2ogreSourceIfVlanTag       Integer32,
    rdkbRgL2ogreSourceIfMplsHeader    Integer32,
    rdkbRgL2ogreSourceIfRowStatus     RowStatus
}

rdkbRgL2ogreSourceIfInstance OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The key for a unique instance of this object."
    ::= { rdkbRgL2ogreSourceIfEntry 1 }

rdkbRgL2ogreSourceIf OBJECT-TYPE
    SYNTAX      INTEGER {
                                wifi1-0(1),
                                wifi1-1(2),
                                wifi1-2(3),
                                wifi1-3(4),
                                wifi1-4(5),
                                wifi1-5(6),
                                wifi1-6(7),
                                wifi1-7(8),
                                wifi2-0(9),
                                wifi2-1(10),
                                wifi2-2(11),
                                wifi2-3(12),
                                wifi2-4(13),
                                wifi2-5(14),
                                wifi2-6(15),
                                wifi2-7(16)
                            }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Source interface whose traffic will be pass through GRE tunnel."
    ::= { rdkbRgL2ogreSourceIfEntry 2 }

rdkbRgL2ogreSourceIfEnabled OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Enables or disable mapping traffic from network interface into GRE
tunnel."
    ::= { rdkbRgL2ogreSourceIfEntry 3 }

rdkbRgL2ogreSourceIfVlanTag OBJECT-TYPE
    SYNTAX      Integer32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

```



```

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"Add VLAN tag consists of 16bit of Tag Protocol Identifier (TPID)
and 16 bit of Tag Control Identifier (TCI).
Value of 0 will disable adding VLAN tag.
Tag Protocol Identifier (TPID) should set to 0x8100."
::= { rdkbRgL2ogreSourceIfEntry 4 }

rdkbRgL2ogreSourceIfMplsHeader OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
    "MPLS Header. Value of 0 will disable adding MPLS Header."
::= { rdkbRgL2ogreSourceIfEntry 5 }

rdkbRgL2ogreSourceIfRowStatus OBJECT-TYPE
SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION
    "The RowStatus interlock for the creation and deletion of a table entry."
::= { rdkbRgL2ogreSourceIfEntry 6 }

rdkbRgL2ogreOrigIf OBJECT-TYPE
SYNTAX      INTEGER {
                    eRouter(1)
                }
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Originating Interface of GRE tunnel."
::= { rdkbRgL2ogreBase 13 }

rdkbRgL2ogreConcentratorServiceName OBJECT-TYPE
SYNTAX      DisplayString
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "FQDN of GRE tunnel concentrator/gw service.
    If this is set then, DNS Query of type SRV will be used for discovering
    FQDN of primary and secondary remote endpoint of GRE tunnel."
::= { rdkbRgL2ogreBase 14 }

rdkbRgL2ogreDnsResolverRetryTimerMin OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Minimum timeout interval in seconds before retrying DNS query."
::= { rdkbRgL2ogreBase 15 }

rdkbRgL2ogreDnsResolverRetryTimerMax OBJECT-TYPE
SYNTAX      Unsigned32
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Maximum timeout interval in seconds before retrying DNS query."
::= { rdkbRgL2ogreBase 16 }

rdkbRgL2ogreKeepAliveFailureInterval OBJECT-TYPE
SYNTAX      Integer32
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Configured interval between pings for WLAN GW when disabled due to both
    WLAN GWs failing."
::= { rdkbRgL2ogreBase 17 }

rdkbRgL2ogreKeepAliveReattemptInterval OBJECT-TYPE

```

```

SYNTAX      Integer32
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION
    "Configured interval to reattempt connection to a primary WLAN GW even
when secondary WLAN GW is available and clients are connected."
 ::= { rdkbRgL2ogreBase 18 }

-- removed node rdgRg 15

-- =====
-- Network Extender Status MIB
-- =====

rdkbRgNetworkExtenders OBJECT IDENTIFIER ::= { rdkbRg 16 }

rdkbRgNetworkExtenderTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgNetworkExtenderEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Multiple Attached Network Extender Table. Maximum of 8 Entries"

    ::= { rdkbRgNetworkExtenders 1 }

rdkbRgNetworkExtenderEntry OBJECT-TYPE
    SYNTAX      RdkbRgNetworkExtenderEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the table which represents information about attached Network
Extender."
    INDEX      { rdkbRgNetworkExtenderIndex }
    ::= { rdkbRgNetworkExtenderTable 1 }

RdkbRgNetworkExtenderEntry ::= SEQUENCE {
    rdkbRgNetworkExtenderIndex          INTEGER,
    rdkbRgNetworkExtenderIpAddress      IPAddress,
    rdkbRgNetworkExtenderDeviceName     OCTET STRING,
    rdkbRgNetworkExtenderVenderName     OCTET STRING,
    rdkbRgNetworkExtenderModelNumber    OCTET STRING,
    rdkbRgNetworkExtenderFirmwareVersion OCTET STRING
}

rdkbRgNetworkExtenderIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..8)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index of the the table. Up to 8 connected devices supported"
    ::= { rdkbRgNetworkExtenderEntry 1 }

rdkbRgNetworkExtenderIpAddress OBJECT-TYPE
    SYNTAX      IPAddress
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The IP Address of the Device"
    ::= { rdkbRgNetworkExtenderEntry 2 }

rdkbRgNetworkExtenderDeviceName OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..32))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Name of the Device as returned by HNAP"
    ::= { rdkbRgNetworkExtenderEntry 3 }

```

```

rdkbRgNetworkExtenderVenderName OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..32))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Vender Name as returned by HNAP"
    ::= { rdkbRgNetworkExtenderEntry 4 }

rdkbRgNetworkExtenderModelNumber OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..32))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Model Number of the Device as returned by HNAP"
    ::= { rdkbRgNetworkExtenderEntry 5 }

rdkbRgNetworkExtenderFirmwareVersion OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..32))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Firmware version of the Device as returned by HNAP"
    ::= { rdkbRgNetworkExtenderEntry 6 }

-- =====
-- Network Extender Radio Status Table
-- =====

rdkbRgNetworkExtenderRadioTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF RdkbRgNetworkExtenderRadioEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Attached Network Extender Radio Table. Maximum of 32 entries (per
extender).
        If the attached device has no radios/SSID, this table will be empty"
    ::= { rdkbRgNetworkExtenders 2 }

rdkbRgNetworkExtenderRadioEntry OBJECT-TYPE
    SYNTAX      RdkbRgNetworkExtenderRadioEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the table for Network Extender attached WiFi Radios."
    INDEX      { rdkbRgNetworkExtenderIndex,
                  rdkbRgNetworkExtenderRadioIndex }
    ::= { rdkbRgNetworkExtenderRadioTable 1 }

RdkbRgNetworkExtenderRadioEntry ::= SEQUENCE {
    rdkbRgNetworkExtenderRadioIndex      INTEGER,
    rdkbRgNetworkExtenderRadioSSID       OCTET STRING,
    rdkbRgNetworkExtenderRadioBSSID      PhysAddress,
    rdkbRgNetworkExtenderRadioChannel    OCTET STRING,
    rdkbRgNetworkExtenderRadioMode       OCTET STRING
}

rdkbRgNetworkExtenderRadioIndex OBJECT-TYPE
    SYNTAX      INTEGER (1..32)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index of the radio/SSID. Up to 32 SSIDs supported"
    ::= { rdkbRgNetworkExtenderRadioEntry 1 }

rdkbRgNetworkExtenderRadioSSID OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(0..32))
    MAX-ACCESS  read-only

```

STATUS current

DESCRIPTION

"The SSID of the radio as by H NAP"

::= { rdkbRgNetworkExtenderRadioEntry 2 }

rdkbRgNetworkExtenderRadioBSSID OBJECT-TYPE

SYNTAX PhysAddress

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The BSSID as reported by H NAP"

::= { rdkbRgNetworkExtenderRadioEntry 3 }

rdkbRgNetworkExtenderRadioChannel OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Returns the Primary Radio Channel Number as reported by H NAP"

::= { rdkbRgNetworkExtenderRadioEntry 4 }

rdkbRgNetworkExtenderRadioMode OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(0..32))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Returns the Radio Operational Mode as reported by H NAP"

::= { rdkbRgNetworkExtenderRadioEntry 5 }

-- =====

-- Network Extender Connected Client Table

-- =====

rdkbRgNetworkExtenderClientTable OBJECT-TYPE

SYNTAX SEQUENCE OF RdkbRgNetworkExtenderClientEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Attached Network Extender Client Table. Maximum of 64 Entries per Extender"

::= { rdkbRgNetworkExtenders 3 }

rdkbRgNetworkExtenderClientEntry OBJECT-TYPE

SYNTAX RdkbRgNetworkExtenderClientEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A row in the table denoting Network Extender Clients."

INDEX { rdkbRgNetworkExtenderIndex,  
rdkbRgNetworkExtenderClientIndex }

::= { rdkbRgNetworkExtenderClientTable 1 }

RdkbRgNetworkExtenderClientEntry ::= SEQUENCE {

rdkbRgNetworkExtenderClientIndex

INTEGER,

rdkbRgNetworkExtenderClientMAC

PhysAddress,

rdkbRgNetworkExtenderClientInterface

OCTET STRING

}

rdkbRgNetworkExtenderClientIndex OBJECT-TYPE

SYNTAX INTEGER (1..64)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The index of the Client."

::= { rdkbRgNetworkExtenderClientEntry 1 }

rdkbRgNetworkExtenderClientMAC OBJECT-TYPE

SYNTAX PhysAddress

```

MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Returns the client's MAC as reported by HNAP"
 ::= { rdkbRgNetworkExtenderClientEntry 2 }

```

```

rdkbRgNetworkExtenderClientInterface OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(0..32))
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Returns the client's connected interface per HNAP.  Wifi-2.4, wifi-5.0,
        Ethernet, etc"
    ::= { rdkbRgNetworkExtenderClientEntry 3 }

```

```

-----
----- TR-069 module -----
-----

```

```

rdkbTR069
    MODULE-IDENTITY
        LAST-UPDATED "201408130000Z"
        ORGANIZATION "TBD"
        CONTACT-INFO "TBD"
        DESCRIPTION
            "Controls the configuration of TR-069 client"
    ::= { rdkbModules 3 }

```

```

rdkbTR069ClientConfig OBJECT IDENTIFIER ::= { rdkbTR069 1 }

```

```

rdkbTR069ClientMode OBJECT-TYPE
    SYNTAX INTEGER {
        disable(0),
        enable(1)
    }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Enabling this MIB starts the TR-069 client to communicate with ACS"
    DEFVAL { 0 }
    ::= { rdkbTR069ClientConfig 1 }

```

```

rdkbTR069ClientAcUrl OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(0..255))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        " Sets the ACS Management Server URL.
        " This parameter is stored in non-vol and is NULL by default.
    ::= { rdkbTR069ClientConfig 2 }

```

```

rdkbTR069ClientAcUsername OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(0..255))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        " Sets the username associated with the ACS Management Server.
        " This parameter is stored in non-vol and is NULL by default.
    ::= { rdkbTR069ClientConfig 3 }

```

```

rdkbTR069ClientAcPassword OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE(0..255))
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION

```

" Sets the password associated with the ACS Management Server.  
This parameter is stored in non-vol and is NULL by default.

NOTE: This should be a hidden value in SNMPGET/SNMPWALK but user  
should be able to set this using SNMPSET

"

::= { rdkbTR069ClientConfig 4 }

rdkbTR069ClientCrUsername OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(0..255))  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

" Set the username associated with the connection request from the ACS.  
This parameter is stored in non-vol and is NULL by default.

"

::= { rdkbTR069ClientConfig 5 }

rdkbTR069ClientCrPassword OBJECT-TYPE  
SYNTAX OCTET STRING (SIZE(0..255))  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

" Set the password associated with the connection request from the ACS.  
This parameter is stored in non-vol and is NULL by default.

NOTE: This should be a hidden value in SNMPGET/SNMPWALK but user  
should be able to set this using SNMPSET

"

::= { rdkbTR069ClientConfig 6 }

rdkbTR069ClientPeriodicInform OBJECT-TYPE  
SYNTAX INTEGER {  
    disable(0),  
    enable(1)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"Enable the TR-069 client, allowing informs to occur at the periodic  
rate."

DEFVAL { 1 }

::= { rdkbTR069ClientConfig 7 }

rdkbTR069ClientPeriodicInformInterval OBJECT-TYPE  
SYNTAX INTEGER (1..2147483647)  
UNITS "Seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"Specify the periodic inform interval in seconds.

Not advisable to have inform interval less than 180 seconds (3 min)"

DEFVAL { 600 }

::= { rdkbTR069ClientConfig 8 }

rdkbTR069ClientAllowDocsisConfig OBJECT-TYPE  
SYNTAX INTEGER {  
    disable(0),  
    enable(1)  
}

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"In operation, X\_DOCSIS\_AllowDocsisConfiguration in a factory-defaulted  
cable modem will be true, allowing the device to contact its ACS or an activation  
server using either a factory-default

ACS URL and other parameters, or ACS URL and other parameters supplied

```

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in the DOCSIS configuration file. Once the initial contact is established the ACS
modifies the URL, and X_DOCSIS_AllowDocsisConfiguration
is automatically set to false. Subsequent re-booting of the device
will use the modified address in accordance with TR-069. The ACS may relinquish
this control by explicitly setting X_DOCSIS_AllowDocsisConfiguration to false.
The next time the device reboots the URL can again be accepted from
the DOCSIS configuration file. X_DOCSIS_AllowDocsisConfiguration also defaults to
true, so resetting the device to factory defaults
also re-enables the DOCSIS configuration file."
DEFVAL { 1 }
 ::= { rdkbTR069ClientConfig 9 }

rdkbTR069ClientConnReqUrl OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This is set by default during the initial bootup. Connection Request URL
is used by the ACS to solicit Gateway and make the client checkin to ACS.
This parameter is stored in non-vol. "
 ::= { rdkbTR069ClientConfig 10 }

rdkbTR069ClientAcscControlPanelUrl OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" Set by the ACS when the client checks in. The user is re-directed to
this link when try to access local GUI
This parameter is stored in non-vol and is NULL by default.
"
 ::= { rdkbTR069ClientConfig 11 }

rdkbTR069ClientDeviceIdentifier OBJECT-TYPE
SYNTAX INTEGER {
    useSerialNumber(0),
    useCmMacAddress(1)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Defines the value used to identify this device with the ACS. This value
will show up in the ACS server under the Serial Number field.
useSerialNumber(0): The
InternetGatewayDevice.DeviceInfo.SerialNumber parameter will return the device's
serial number (e.g. 234567890).
useCmMacAddress(1): The
InternetGatewayDevice.DeviceInfo.SerialNumber parameter will return the device's
CM MAC address (e.g. 00407B1A2B3C).
"
DEFVAL { 0 }
 ::= { rdkbTR069ClientConfig 12 }

END

```