

## Process - SNMP for Unifi AP

Assumption: Telegraf is already installed and working

In the Unifi wireless controller enable SNMP in settings, make note of the community string

The screenshot shows the UniFi Settings interface. On the left is a sidebar with navigation icons and a menu. The 'SETTINGS' section is active, and the 'Site' configuration is selected. The 'SITE CONFIGURATION' section includes fields for Site Name, Country, and Timezone. The 'SERVICES' section lists various features with checkboxes. The 'SNMP' service is checked, and the 'Community String' field is highlighted with a red arrow. The 'APPLY CHANGES' button is at the bottom left, and the 'EXPORT SITE' button is at the bottom right.

**SETTINGS**

**Site**

**SITE CONFIGURATION**

Site Name

Country

Timezone

**SERVICES**

Advanced Features ☐ Enable advanced features

Automatic Upgrades ☐ Automatically upgrade firmware

LED ☒ Enable status LED

Alerts ☒ Enable alert emails

Speed Test **BETA** ☐ Enable periodic speed test every  minutes **USG**

Port Remapping **BETA** ☐ Configure VOIP port as WAN2 on UniFi Security Gateway 3P **USG**

Uplink Connectivity Monitor ☐ Enable connectivity monitor and wireless uplink

SNMP ☒ Enable SNMPv1 Community String

Remote Logging ☐ Enable remote syslog server

Device Authentication Username  Password

**APPLY CHANGES** **RESET** **EXPORT SITE**

Run these commands on the server monitoring SNMP

```
sudo apt-get update
sudo apt-get install snmp snmp-mibs-downloader
sudo download-mib
```

Additional MIB libraries are needed, place them in "/usr/share/snmp/mibs", wget the following links:

## FROGFOOT-RESOURCES-MIB

-- \*- mib -\*

DEFINITIONS ::= BEGIN

-- Frogfoot Networks CC Resources MIB

--

-- The idea behind this is to measure usage of resources.

-- It does not contain information about the system such as

-- cpu/disk types, etc.

--

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Integer32, Gauge32,  
enterprises

FROM SNMPv2-SMI

TEXTUAL-CONVENTION, DisplayString

FROM SNMPv2-TC

MODULE-COMPLIANCE, OBJECT-GROUP

FROM SNMPv2-CONF;

resources MODULE-IDENTITY

LAST-UPDATED "200407170000Z"

ORGANIZATION "Frogfoot Networks"

CONTACT-INFO

" Abraham van der Merwe

Postal: Frogfoot Networks CC

P.O. Box 23618

Claremont

Cape Town

7735

South Africa

Phone: +27 82 565 4451

Email: abz@frogfoot.net"

DESCRIPTION

"The MIB module to describe system resources."

::= { system 1 }

frogfoot OBJECT IDENTIFIER ::= { enterprises 10002 }

servers OBJECT IDENTIFIER ::= { frogfoot 1 }

system OBJECT IDENTIFIER ::= { servers 1 }

memory OBJECT IDENTIFIER ::= { resources 1 }

swap OBJECT IDENTIFIER ::= { resources 2 }

storage OBJECT IDENTIFIER ::= { resources 3 }

load OBJECT IDENTIFIER ::= { resources 4 }

resMIB OBJECT IDENTIFIER ::= { resources 31 }

resMIBObjects OBJECT IDENTIFIER ::= { resMIB 1 }

resConformance OBJECT IDENTIFIER ::= { resMIB 2 }

resGroups OBJECT IDENTIFIER ::= { resConformance 1 }

resCompliances OBJECT IDENTIFIER ::= { resConformance 2 }

TableIndex ::= TEXTUAL-CONVENTION

DISPLAY-HINT "d"

```
STATUS    current
DESCRIPTION
"A unique value, greater than zero. It is recommended
that values are assigned contiguously starting from 1."
SYNTAX    Integer32 (1..2147483647)
--
-- Memory statistics
--
memTotal  OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Total usable physical memory (in KB)"
::= { memory 1 }
memFree   OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Available physical memory (in KB)"
::= { memory 2 }
memBuffer OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Physical memory used by buffers (in KB)"
::= { memory 3 }
memCache  OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Physical memory used for caching (in KB)"
::= { memory 4 }
--
-- Swap space statistics
--
swapTotal OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
"Total swap space size (in KB)"
::= { swap 1 }
swapFree  OBJECT-TYPE
SYNTAX    Gauge32
MAX-ACCESS read-only
STATUS    current
DESCRIPTION
```

```

"Swap space still available (in KB)"
::= { swap 2 }
--
-- Disk space statistics
--
diskNumber OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of mounted disks present on this system."
::= { storage 1 }
diskTable OBJECT-TYPE
SYNTAX SEQUENCE OF DiskEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A table of mounted disks on this system."
::= { storage 2 }
diskEntry OBJECT-TYPE
SYNTAX DiskEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An entry containing management information applicable
    to a particular mounted disk on the system."
INDEX { diskIndex }
::= { diskTable 1 }
DiskEntry ::=
SEQUENCE {
    diskIndex TableIndex,
    diskDev DisplayString,
    diskDir DisplayString,
    diskFSType INTEGER,
    diskTotal Gauge32,
    diskFree Gauge32
}
diskIndex OBJECT-TYPE
SYNTAX TableIndex
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A unique value, greater than zero, for each disk on the
    system. It is recommended that values are assigned contiguously
    starting from 1."
::= { diskEntry 1 }
diskDev OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```

"A textual string containing the disk device name."

::= { diskEntry 2 }

diskDir OBJECT-TYPE

SYNTAX DisplayString

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"A textual string containing the disk mount point."

::= { diskEntry 3 }

diskFSType OBJECT-TYPE

SYNTAX INTEGER {

unknown(0), -- Unknown File System

adfs(1), -- Acorn Advanced Disc Filing System

affs(2), -- Amiga Fast File System

coda(3), -- CODA File System

cramfs(4), -- cram File System for small storage (ROMs etc)

ext2(5), -- Ext2 File System

hpfs(6), -- OS/2 HPFS File System

iso9660(7), -- ISO 9660 (CDROM) File System

jffs2(8), -- Journalling Flash File System

jfs(9), -- JFS File System

minix(10), -- Minix File System

msdos(11), -- FAT-based File Systems

ncpfs(12), -- Novell Netware(tm) File System

nfs(13), -- Network File Sharing Protocol

ntfs(14), -- NTFS File System (Windows NT)

qnx4(15), -- QNX4 File System

reiserfs(16), -- ReiserFS Journalling File System

romfs(17), -- ROM File System

smbfs(18), -- Server Message Block (SMB) Protocol

sysv(19), -- SystemV/V7/Xenix/Coherent File System

tmpfs(20), -- Virtual Memory File System

udf(21), -- UDF (DVD, CDRW, etc) File System

ufs(22), -- UFS File System (SunOS, FreeBSD, etc)

vxfs(23), -- VERITAS VxFS(TM) File System

xfs(24) -- XFS (SGI) Journalling File System

}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The type of file system present on the disk. This does not include fake file systems such as the proc file system, devfs, etc. Additional types may be assigned by Frogfoot Networks in the future."

::= { diskEntry 4 }

diskTotal OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Total space on disk (in MB)"

```

::= { diskEntry 5 }
diskFree OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Disk space still available (in MB)"
::= { diskEntry 6 }
--
-- Load Average statistics
--
loadNumber OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The number of load averages stored in the
    load average table."
::= { load 1 }
loadTable OBJECT-TYPE
SYNTAX SEQUENCE OF LoadEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Load average information."
::= { load 2 }
loadEntry OBJECT-TYPE
SYNTAX LoadEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "An entry containing load average information."
INDEX { loadIndex }
::= { loadTable 1 }
LoadEntry ::=
SEQUENCE {
    loadIndex TableIndex,
    loadDescr DisplayString,
    loadValue Gauge32
}
loadIndex OBJECT-TYPE
SYNTAX TableIndex
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "A unique value, greater than zero, for each
    load average stored."
::= { loadEntry 1 }
loadDescr OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only

```

STATUS current

DESCRIPTION

"A description of each load average."

::= { loadEntry 2 }

loadValue OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The 1,5 and 10 minute load averages. These values are stored as a percentage of processor load."

::= { loadEntry 3 }

--

-- Compliance Statements

--

resCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMP entities which have system resources such as volatile and non-volatile storage."

MODULE

MANDATORY-GROUPS { resMemGroup, resSwapGroup, resDiskGroup, resLoadGroup }

GROUP resMemGroup

DESCRIPTION

"This group is mandatory for those systems which have any form of volatile storage."

GROUP resSwapGroup

DESCRIPTION

"This group is mandatory for those systems which have the ability to temporarily swap unused pages to disk."

GROUP resDiskGroup

DESCRIPTION

"This group is mandatory for those systems which have any form of non-volatile storage."

GROUP resLoadGroup

DESCRIPTION

"This group is mandatory for those systems which store any form of processor load average information."

::= { resCompliances 1 }

resMemGroup OBJECT-GROUP

OBJECTS { memTotal, memFree, memBuffer, memCache }

STATUS current

DESCRIPTION

"A collection of objects providing information specific to volatile system storage."

::= { resGroups 1 }

resSwapGroup OBJECT-GROUP

OBJECTS { swapTotal, swapFree }

STATUS current

DESCRIPTION

```

"A collection of objects providing information specific to
storage used for swapping pages to disk."
::= { resGroups 2 }
resDiskGroup OBJECT-GROUP
OBJECTS { diskNumber, diskDev, diskDir, diskFSType, diskTotal, diskFree }
STATUS current
DESCRIPTION
"A collection of objects providing information specific to
non-volatile system storage."
::= { resGroups 3 }
resLoadGroup OBJECT-GROUP
OBJECTS { loadNumber, loadDescr, loadValue }
STATUS current
DESCRIPTION
"A collection of objects providing information specific to
processor load averages."
::= { resGroups 4 }

```

<http://dl.ubnt-ut.com/snmp/UBNT-MIB>

```

UBNT-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Integer32, enterprises FROM SNMPv2-SMI
    DisplayString FROM SNMPv2-TC
    OBJECT-GROUP, MODULE-COMPLIANCE FROM SNMPv2-CONF;
ubntMIB MODULE-IDENTITY
LAST-UPDATED "201402270000Z"
ORGANIZATION "Ubiquiti Networks, Inc."
CONTACT-INFO "support@ubnt.com"
DESCRIPTION "The MIB module for Ubiquiti Networks, Inc. entities"
REVISION "201402270000Z"
DESCRIPTION "Split revision"
::= { ubnt 1 }

-----
--
--          Ubiquiti Networks Root
--
-----

ubnt OBJECT IDENTIFIER ::= { enterprises 41112 }

-----
--
--          Ubiquiti Networks SNMP Information
--
-----

ubntSnmplib OBJECT IDENTIFIER ::= { ubntMIB 2 }
ubntSnmplibGroups OBJECT IDENTIFIER ::= { ubntSnmplib 1 }
ubntAirosGroups OBJECT IDENTIFIER ::= { ubntSnmplib 2 }
ubntAirFiberGroups OBJECT IDENTIFIER ::= { ubntSnmplib 3 }
ubntEdgeMaxGroups OBJECT IDENTIFIER ::= { ubntSnmplib 4 }
ubntUniFiGroups OBJECT IDENTIFIER ::= { ubntSnmplib 5 }
ubntAirVisionGroups OBJECT IDENTIFIER ::= { ubntSnmplib 6 }
ubntMFiGroups OBJECT IDENTIFIER ::= { ubntSnmplib 7 }
ubntUniTelGroups OBJECT IDENTIFIER ::= { ubntSnmplib 8 }

```



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-- Ubiquiti Networks Products

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ubntAirFIBER OBJECT IDENTIFIER ::= { ubntMIB 3 }  
ubntEdgeMax OBJECT IDENTIFIER ::= { ubntMIB 5 }  
ubntUniFi OBJECT IDENTIFIER ::= { ubntMIB 6 }  
ubntAirVision OBJECT IDENTIFIER ::= { ubntMIB 7 }  
ubntMFi OBJECT IDENTIFIER ::= { ubntMIB 8 }  
ubntUniTel OBJECT IDENTIFIER ::= { ubntMIB 9 }

---

-- Ubiquiti Networks OR table

---

ubntORTable OBJECT-TYPE  
SYNTAX SEQUENCE OF UbntOREntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "Capabilities"  
::= { ubntMIB 1 }  
ubntOREntry OBJECT-TYPE  
SYNTAX UbntOREntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "An entry in the ubntORTable"  
INDEX { ubntORIndex }  
::= { ubntORTable 1 }  
UbntOREntry ::= SEQUENCE {  
ubntORIndex Integer32,  
ubntORID OBJECT IDENTIFIER,  
ubntORDescr DisplayString  
}  
ubntORIndex OBJECT-TYPE  
SYNTAX Integer32 (1..255)  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION "Index for the ubntORTable"  
::= { ubntOREntry 1 }  
ubntORID OBJECT-TYPE  
SYNTAX OBJECT IDENTIFIER  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "OR ID"  
::= { ubntOREntry 2 }  
ubntORDescr OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION "Description of identifier"  
::= { ubntOREntry 3 }  
ubntORInfoGroup OBJECT-GROUP  
OBJECTS { ubntORID,

```

        ubntORDescr }
STATUS current
DESCRIPTION "Collection of related objects"
::= { ubntSnmpGroups 1 }
ubntORCompliance MODULE-COMPLIANCE
STATUS current
DESCRIPTION "The compliance statement for Ubiquiti entities."
MODULE
    GROUP ubntORInfoGroup
    DESCRIPTION "This group is for Ubiquiti systems."
::= { ubntSnmpGroups 2 }
END

```

<http://dl.ubnt-ut.com/snmp/UBNT-UniFi-MIB>

```

UBNT-UniFi-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Integer32, Unsigned32, Counter32, Gauge32, IpAddress, enterprises
    FROM SNMPv2-SMI
    TEXTUAL-CONVENTION, DisplayString, MacAddress, DateAndTime, TruthValue
    FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF
    ubntMIB, ubntUniFi, ubntUniFiGroups
    FROM UBNT-MIB;
ubntUniFi MODULE-IDENTITY
    LAST-UPDATED "201606250000Z"
    ORGANIZATION "Ubiquiti Networks, Inc."
    CONTACT-INFO "support@ubnt.com"
    DESCRIPTION "The UniFi MIB module for Ubiquiti Networks, Inc. entities"
    REVISION "201606250000Z"
    DESCRIPTION "Initial Revision."
    ::= { ubntMIB 6 }
unifiApWireless OBJECT IDENTIFIER ::= { ubntUniFi 1 }
unifiApIf      OBJECT IDENTIFIER ::= { ubntUniFi 2 }
unifiApSystem  OBJECT IDENTIFIER ::= { ubntUniFi 3 }
TableIndex ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS current
    DESCRIPTION
        "A unique value, greater than zero. It is recommended
        that values are assigned contiguously starting from 1."
    SYNTAX Integer32 (1..2147483647)
ObjectIndex ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "x"
    STATUS current
    DESCRIPTION "Internal "
    SYNTAX Integer32 (0..2147483647)
-- SYNTAX Integer32 (-2147483648..2147483647)

```

```

-- SYNTAX Unsigned32 (0..4294967295)
Voltage ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-2"
    STATUS current
    DESCRIPTION ""
    SYNTAX Integer32 (-2147483648..2147483647)
Temperature ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-1"
    STATUS current
    DESCRIPTION ""
    SYNTAX Integer32 (-2147483648..2147483647)
unifIfTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UbntIfEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifiApIf 1 }
unifIfEntry OBJECT-TYPE
    SYNTAX UbntIfEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Ethernet interface"
    INDEX { unifIfIndex }
    ::= { unifIfTable 1 }

UbntIfEntry ::= SEQUENCE {
    unifIfIndex ObjectIndex,
    unifIfFullDuplex TruthValue,
    unifIfIp IpAddress,
    unifIfMac MacAddress,
    unifIfName DisplayString,
    unifIfRxBytes Counter32,
    unifIfRxDropped Counter32,
    unifIfRxError Counter32,
    unifIfRxMulticast Counter32,
    unifIfRxPackets Counter32,
    unifIfSpeed Integer32,
    unifIfTxBytes Counter32,
    unifIfTxDropped Counter32,
    unifIfTxError Counter32,
    unifIfTxPackets Counter32,
    unifIfUp TruthValue
}
unifIfIndex OBJECT-TYPE
    SYNTAX ObjectIndex
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifIfEntry 1 }
unifIfFullDuplex OBJECT-TYPE
    SYNTAX TruthValue

```

```
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 2 }
unifiIfIp OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 3 }
unifiIfMac OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 4 }
unifiIfName OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 5 }
unifiIfRxBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 6 }
unifiIfRxDropped OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 7 }
unifiIfRxError OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 8 }
unifiIfRxMulticast OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiIfEntry 9 }
unifiIfRxPackets OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
```

```

::= { unifiIfEntry 10 }
unifiIfSpeed OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 11 }
unifiIfTxBytes OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 12 }
unifiIfTxDropped OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 13 }
unifiIfTxError OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 14 }
unifiIfTxPackets OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 15 }
unifiIfUp OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 16 }
unifiRadioTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UbntRadioEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifiApWireless 1 }
unifiRadioEntry OBJECT-TYPE
    SYNTAX UbntRadioEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Wireless interface"
    INDEX { unifiRadioIndex }
    ::= { unifiRadioTable 1 }
UbntRadioEntry ::= SEQUENCE {

```

```
unifiRadioIndex ObjectIndex,  
unifiRadioName DisplayString,  
unifiRadioRadio DisplayString,  
unifiRadioRxPackets Counter32,  
unifiRadioTxPackets Counter32,  
unifiRadioCuTotal Integer32,  
unifiRadioCuSelfRx Integer32,  
unifiRadioCuSelfTx Integer32,  
unifiRadioOtherBss Integer32  
}  
unifiRadioIndex OBJECT-TYPE  
    SYNTAX ObjectIndex  
    MAX-ACCESS not-accessible  
    STATUS current  
    DESCRIPTION ""  
    ::= { unifiRadioEntry 1 }  
unifiRadioName OBJECT-TYPE  
    SYNTAX DisplayString  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION ""  
    ::= { unifiRadioEntry 2 }  
unifiRadioRadio OBJECT-TYPE  
    SYNTAX DisplayString  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION ""  
    ::= { unifiRadioEntry 3 }  
unifiRadioRxPackets OBJECT-TYPE  
    SYNTAX Counter32  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION ""  
    ::= { unifiRadioEntry 4 }  
unifiRadioTxPackets OBJECT-TYPE  
    SYNTAX Counter32  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION ""  
    ::= { unifiRadioEntry 5 }  
unifiRadioCuTotal OBJECT-TYPE  
    SYNTAX Integer32  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION ""  
    ::= { unifiRadioEntry 6 }  
unifiRadioCuSelfRx OBJECT-TYPE  
    SYNTAX Integer32  
    MAX-ACCESS read-only  
    STATUS current  
    DESCRIPTION ""
```

```

    ::= { unifiRadioEntry 7 }
unifiRadioCuSelfTx OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 8 }
unifiRadioOtherBss OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiRadioEntry 9 }
unifiVapTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UbntVapEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifiApWireless 2 }
unifiVapEntry OBJECT-TYPE
    SYNTAX UbntVapEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "BSS"
    INDEX { unifiVapIndex }
    ::= { unifiVapTable 1 }
UbntVapEntry ::= SEQUENCE {
    unifiVapIndex ObjectIndex,
    unifiVapBssId MacAddress,
    unifiVapCcq Integer32,
    unifiVapChannel Integer32,
    unifiVapExtChannel Integer32,
    unifiVapEssId DisplayString,
    unifiVapName DisplayString,
    unifiVapNumStations Integer32,
    unifiVapRadio DisplayString,
    unifiVapRxBytes Counter32,
    unifiVapRxCrypts Counter32,
    unifiVapRxDropped Counter32,
    unifiVapRxErrors Counter32,
    unifiVapRxFrgs Counter32,
    unifiVapRxPackets Counter32,
    unifiVapTxBytes Counter32,
    unifiVapTxDropped Counter32,
    unifiVapTxErrors Counter32,
    unifiVapTxPackets Counter32,
    unifiVapTxRetries Counter32,
    unifiVapTxPower Integer32,
    unifiVapUp TruthValue,
    unifiVapUsage DisplayString
}

```

unifiVapIndex OBJECT-TYPE  
SYNTAX ObjectIndex  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 1 }

unifiVapBssId OBJECT-TYPE  
SYNTAX MacAddress  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 2 }

unifiVapCcq OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 3 }

unifiVapChannel OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 4 }

unifiVapExtChannel OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 5 }

unifiVapEssId OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 6 }

unifiVapName OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 7 }

unifiVapNumStations OBJECT-TYPE  
SYNTAX Integer32  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION ""  
::= { unifiVapEntry 8 }

unifiVapRadio OBJECT-TYPE  
SYNTAX DisplayString  
MAX-ACCESS read-only



```
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 9 }
unifiVapRxBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 10 }
unifiVapRxCrypts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 11 }
unifiVapRxDropped OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 12 }
unifiVapRxErrors OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 13 }
unifiVapRxFrags OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 14 }
unifiVapRxPackets OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 15 }
unifiVapTxBytes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 16 }
unifiVapTxDropped OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiVapEntry 17 }
```

```
unifiVapTxErrors OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 18 }
unifiVapTxPackets OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 19 }
unifiVapTxRetries OBJECT-TYPE
    SYNTAX Counter32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 20 }
unifiVapTxPower OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 21 }
unifiVapUp OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiVapEntry 22 }
unifiVapUsage OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION "guest or regular user"
    ::= { unifiVapEntry 23 }
unifiApSystemIp OBJECT-TYPE
    SYNTAX IpAddress
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiApSystem 1 }
unifiApSystemIsolated OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION ""
    ::= { unifiApSystem 2 }
unifiApSystemModel OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
```

```

STATUS current
DESCRIPTION ""
::= { unifiApSystem 3 }
unifiApSystemUplink OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiApSystem 4 }
unifiApSystemUptime OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiApSystem 5 }
unifiApSystemVersion OBJECT-TYPE
SYNTAX DisplayString
MAX-ACCESS read-only
STATUS current
DESCRIPTION ""
::= { unifiApSystem 6 }
unifiIfGroup OBJECT-GROUP OBJECTS {
    unifiIfFullDuplex,
    unifiIfIp,
    unifiIfMac,
    unifiIfName,
    unifiIfRxBytes,
    unifiIfRxDropped,
    unifiIfRxError,
    unifiIfRxMulticast,
    unifiIfRxPackets,
    unifiIfSpeed,
    unifiIfTxBytes,
    unifiIfTxDropped,
    unifiIfTxError,
    unifiIfTxPackets,
    unifiIfUp
}
STATUS current
DESCRIPTION ""
::= { ubntUniFiGroups 1 }
unifiRadioGroups OBJECT-GROUP OBJECTS {
    unifiRadioName,
    unifiRadioRadio,
    unifiRadioRxPackets,
    unifiRadioTxPackets,
    unifiRadioCuTotal,
    unifiRadioCuSelfRx,
    unifiRadioCuSelfTx,
    unifiRadioOtherBss
}

```

```

STATUS current
DESCRIPTION ""
::= { ubntUniFiGroups 2 }
unifiVapGroups OBJECT-GROUP OBJECTS {
    unifiVapBssId,
    unifiVapCcq,
    unifiVapChannel,
    unifiVapExtChannel,
    unifiVapEssId,
    unifiVapName,
    unifiVapNumStations,
    unifiVapRadio,
    unifiVapRxBytes,
    unifiVapRxCrypts,
    unifiVapRxDropped,
    unifiVapRxErrors,
    unifiVapRxFrags,
    unifiVapRxPackets,
    unifiVapTxBytes,
    unifiVapTxDropped,
    unifiVapTxErrors,
    unifiVapTxPackets,
    unifiVapTxRetries,
    unifiVapTxPower,
    unifiVapUp,
    unifiVapUsage
}
STATUS current
DESCRIPTION ""
::= { ubntUniFiGroups 3 }
unifiApSystemGroup OBJECT-GROUP OBJECTS {
    unifiApSystemIp, unifiApSystemIsolated, unifiApSystemModel, unifiApSystemUplink, unifiApSystemUptime, unifi
}
STATUS current
DESCRIPTION ""
::= { ubntUniFiGroups 4 }
END

```

<https://github.com/WaterByWind/grafana-dashboards/tree/master/UniFi-UAP>

Place this code into /etc/telegraf/telegraph.d/telegraf-unifi-inputs.conf

Edit the agent and community string list to needs

```

# Telegraf Configuration for UniFi UAP monitoring via SNMP
# These input configurations are required for use with the dashboard
# Edit the list of monitored hosts ("agents")
# and SNMP community string ("community") as appropriate.
#####
#                               INPUT PLUGINS                               #
#

```

```
#####
##
## Retrieves details via SNMP from remote agents
##
##
## UniFi APs (Gen 2/Gen 3)
##
[[inputs.snmp]]
  # List of agents to poll  agents = [ "uap1", "uap2
" ]
  # Polling interval
  interval = "60s"
  # Timeout for each SNMP query.
  timeout = "10s"
  # Number of retries to attempt within timeout.
  retries = 3
  # SNMP version, UAP only supports v1
  version = 1
  # SNMP community string.  community = "public
"

  # The GETBULK max-repetitions parameter
  max_repetitions = 10
  # Measurement name
  name = "snmp.UAP"
##
## System Details
##
# System name (hostname)
[[inputs.snmp.field]]
  is_tag = true
  name = "sysName"
  oid = "RFC1213-MIB::sysName.0"
# System vendor OID
[[inputs.snmp.field]]
  name = "sysObjectID"
  oid = "RFC1213-MIB::sysObjectID.0"
# System description
[[inputs.snmp.field]]
  name = "sysDescr"
  oid = "RFC1213-MIB::sysDescr.0"
# System contact
[[inputs.snmp.field]]
  name = "sysContact"
  oid = "RFC1213-MIB::sysContact.0"
# System location
[[inputs.snmp.field]]
  name = "sysLocation"
  oid = "RFC1213-MIB::sysLocation.0"
# System uptime
[[inputs.snmp.field]]
  name = "sysUpTime"
```

```
oid = "RFC1213-MIB::sysUpTime.0"
# UAP model
[[inputs.snmp.field]]
  name = "unifiApSystemModel"
  oid = "UBNT-UniFi-MIB::unifiApSystemModel"
# UAP firmware version
[[inputs.snmp.field]]
  name = "unifiApSystemVersion"
  oid = "UBNT-UniFi-MIB::unifiApSystemVersion"
##
## Host Resources
##
# Total memory
[[inputs.snmp.field]]
  name = "memTotal"
  oid = "FROGFOOT-RESOURCES-MIB::memTotal.0"
# Free memory
[[inputs.snmp.field]]
  name = "memFree"
  oid = "FROGFOOT-RESOURCES-MIB::memFree.0"
# Buffer memory
[[inputs.snmp.field]]
  name = "memBuffer"
  oid = "FROGFOOT-RESOURCES-MIB::memBuffer.0"
# Cache memory
[[inputs.snmp.field]]
  name = "memCache"
  oid = "FROGFOOT-RESOURCES-MIB::memCache.0"
# Per-interface traffic, errors, drops
[[inputs.snmp.table]]
  oid = "IF-MIB::ifTable"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "IF-MIB::ifDescr"
##
## Interface Details & Metrics
##
# Wireless interfaces
[[inputs.snmp.table]]
  oid = "UBNT-UniFi-MIB::unifiRadioTable"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiRadioName"
  [[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiRadioRadio"
# BSS instances
[[inputs.snmp.table]]
  oid = "UBNT-UniFi-MIB::unifiVapTable"
  [[inputs.snmp.table.field]]
    is_tag = true
```

```
    oid = "UBNT-UniFi-MIB::unifiVapName"
[[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiVapRadio"
# Ethernet interfaces
[[inputs.snmp.table]]
    oid = "UBNT-UniFi-MIB::unifiIfTable"
[[inputs.snmp.table.field]]
    is_tag = true
    oid = "UBNT-UniFi-MIB::unifiIfName"
##
## System Performance
##
# System load averages
[[inputs.snmp.table]]
    oid = "FROGFOOT-RESOURCES-MIB::loadTable"
[[inputs.snmp.table.field]]
    is_tag = true
    oid = "FROGFOOT-RESOURCES-MIB::loadDescr"
##
## SNMP metrics
##
# Number of SNMP messages received
[[inputs.snmp.field]]
    name = "snmpInPkts"
    oid = "SNMPv2-MIB::snmpInPkts.0"
# Number of SNMP Get-Request received
[[inputs.snmp.field]]
    name = "snmpInGetRequests"
    oid = "SNMPv2-MIB::snmpInGetRequests.0"
# Number of SNMP Get-Next received
[[inputs.snmp.field]]
    name = "snmpInGetNexts"
    oid = "SNMPv2-MIB::snmpInGetNexts.0"
# Number of SNMP objects requested
[[inputs.snmp.field]]
    name = "snmpInTotalReqVars"
    oid = "SNMPv2-MIB::snmpInTotalReqVars.0"
# Number of SNMP Get-Response received
[[inputs.snmp.field]]
    name = "snmpInGetResponses"
    oid = "SNMPv2-MIB::snmpInGetResponses.0"
# Number of SNMP messages sent
[[inputs.snmp.field]]
    name = "snmpOutPkts"
    oid = "SNMPv2-MIB::snmpOutPkts.0"
# Number of SNMP Get-Request sent
[[inputs.snmp.field]]
    name = "snmpOutGetRequests"
    oid = "SNMPv2-MIB::snmpOutGetRequests.0"
# Number of SNMP Get-Next sent
```

```
[[inputs.snmp.field]]
  name = "snmpOutGetNexts"
  oid = "SNMPv2-MIB::snmpOutGetNexts.0"
# Number of SNMP Get-Response sent
[[inputs.snmp.field]]
  name = "snmpOutGetResponses"oid = "SNMPv2-MIB::snmpOutGetResponses.0"
```

---

Test with this command

```
telegraf --config /etc/telegraf/telegraf.conf --config-directory /etc/telegraf/telegraf.d/ --input-filter snmp -test
```

---

And enable the service for persistence

```
sudo systemctl enable telegraf.service
sudo reboot
```

---

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