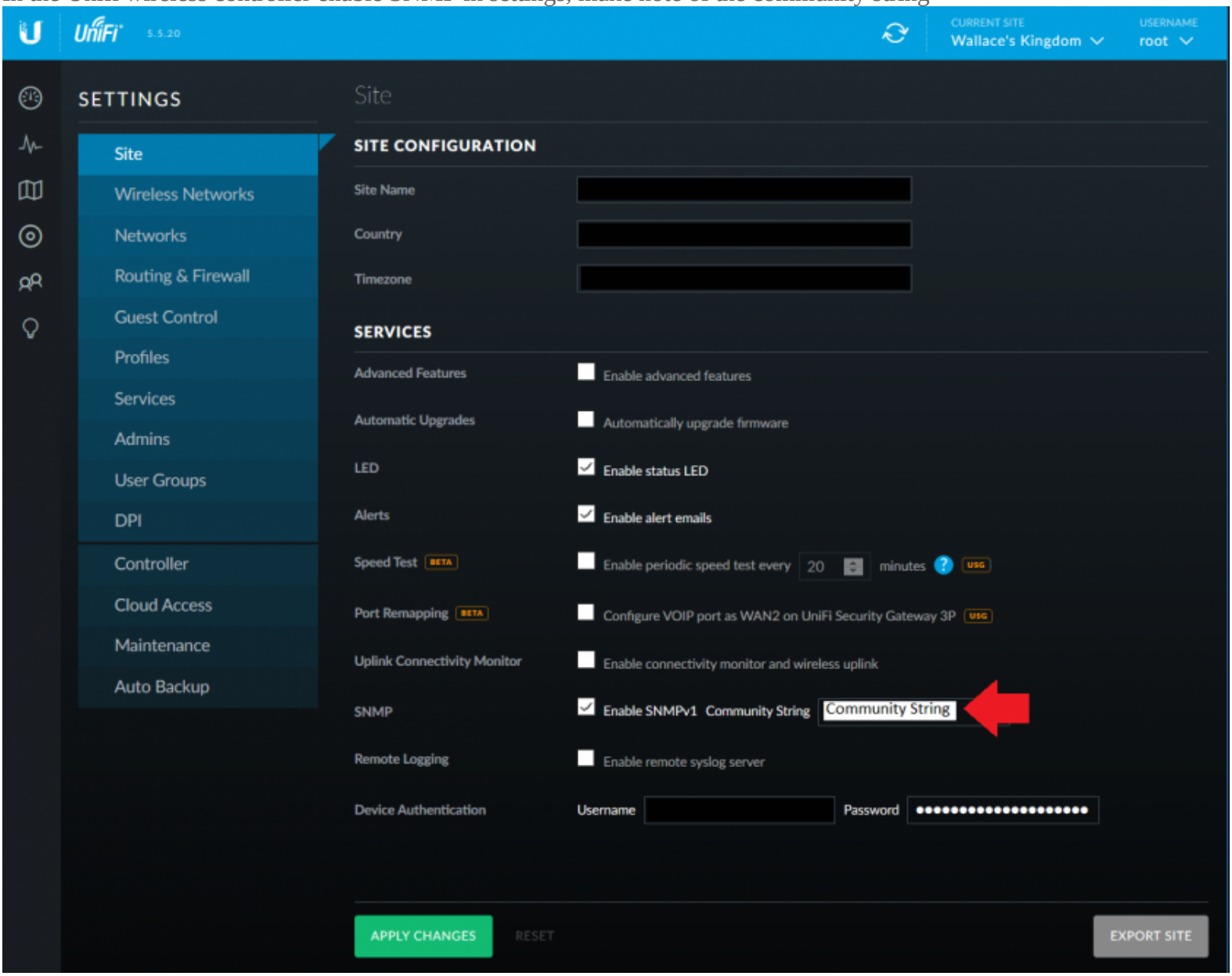
Process - SNMP for Unifi AP

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



Run these commands on the server monitoring SNMP

```
source /etc/lsb-release
echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME} stable" | tee -a /etc/apt/sources.li
curl -sL https://repos.influxdata.com/influxdb.key | apt-key add -
sudo apt-get update
sudo apt-get install telegraph snmp snmp-mibs-downloader
sudo download-mib
```

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

https://github.com/pgmillon/observium/blob/master/mibs/FROGFOOT-RESOURCES-MIB

```
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
   -- ------------------------------------------------------------------------
   ubntSnmpInfo OBJECT IDENTIFIER ::= { ubntMIB 2 }
   ubntSnmpGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 1}
   ubntAirosGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 2}
   ubntAirFiberGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 3}
   ubntEdgeMaxGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 4}
   ubntUniFiGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 5}
   ubntAirVisionGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 6}
   ubntMFiGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 7}
   ubntUniTelGroups OBJECT IDENTIFIER ::= { ubntSnmpInfo 8}
   -- ------------------------------------------------------------------------
   --                      Ubiquiti Networks Products
   -- ------------------------------------------------------------------------
```

```
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 idenfifier"
    ::= { 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)
unifiIfTable OBJECT-TYPE
    SYNTAX SEQUENCE OF UbntIfEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifiApIf 1 }
unifiIfEntry OBJECT-TYPE
    SYNTAX UbntIfEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Ethernet interface"
    INDEX { unifiIfIndex }
    ::= { unifiIfTable 1 }

UbntIfEntry ::= SEQUENCE {
    unifiIfIndex ObjectIndex,
    unifiIfFullDuplex TruthValue,
    unifiIfIp IpAddress,
    unifiIfMac MacAddress,
    unifiIfName DisplayString,
    unifiIfRxBytes Counter32,
    unifiIfRxDropped Counter32,
    unifiIfRxError Counter32,
    unifiIfRxMulticast Counter32,
    unifiIfRxPackets Counter32,
    unifiIfSpeed Integer32,
    unifiIfTxBytes Counter32,
    unifiIfTxDropped Counter32,
    unifiIfTxError Counter32,
    unifiIfTxPackets Counter32,
    unifiIfUp TruthValue
}
unifiIfIndex OBJECT-TYPE
    SYNTAX ObjectIndex
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION ""
    ::= { unifiIfEntry 1 }
unifiIfFullDuplex 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,
    unifiVapRxFrags 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/telgraph.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
```

Created 1 week ago by Admin
Updated 11 seconds ago by Admin