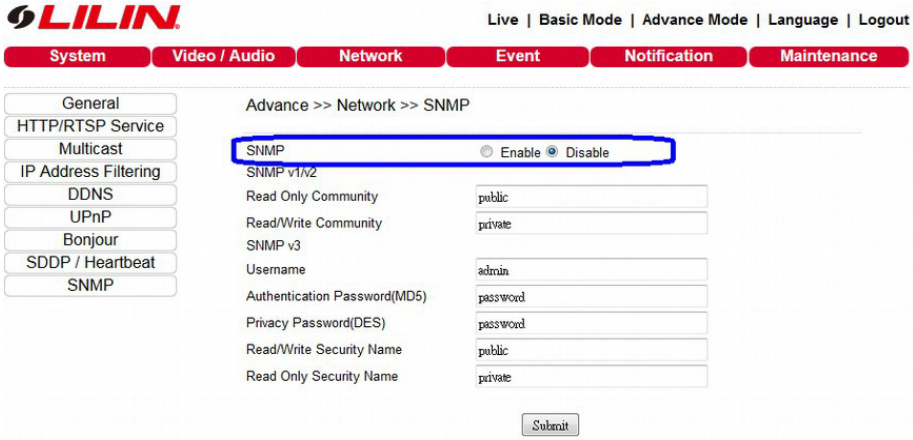
Merit LILIN Application Note
How to Enable LILIN SNMP Trap

Document Number：A00063
Date：2015/01/13
Dept：Technical Support, Taipei

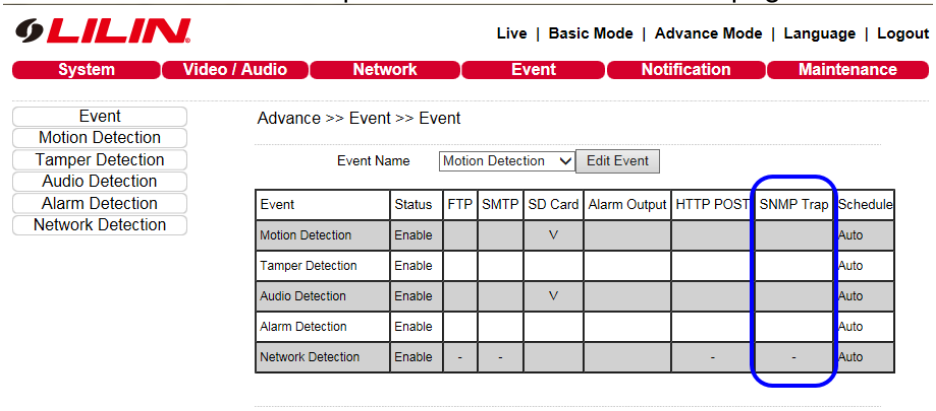
Subject: How to enable SNMP trap on LILIN camera for the event and heartbeat via SNMP v2.

- Broadcast event message by SNMP trap protocol
- Broadcast heartbeat message by SNMP trap protocol

Step #1
Enable/disable by SNMP feature from LILIN IP camera.



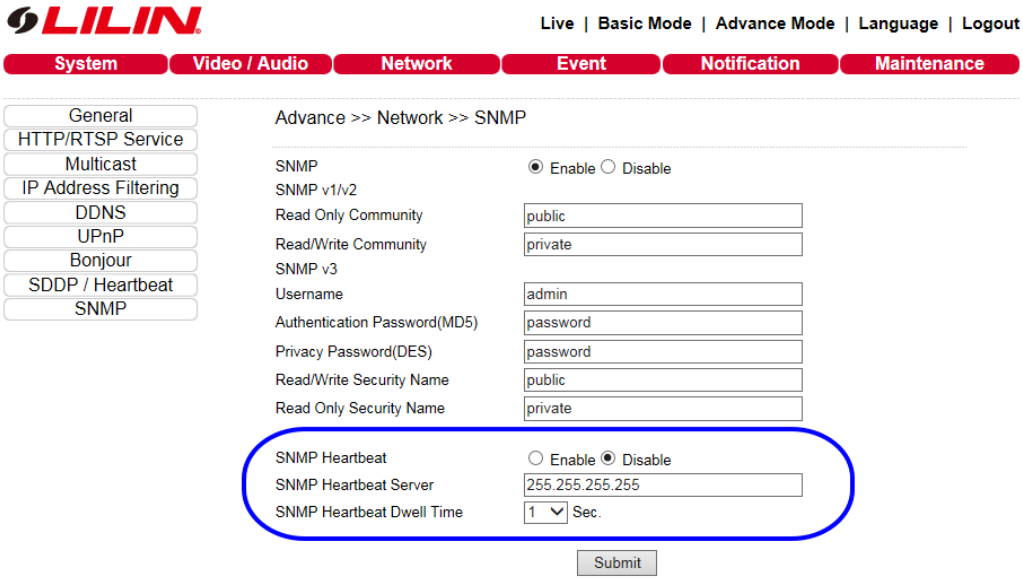
Step #2
Enable/Disable SNMP trap of each event on the event page.



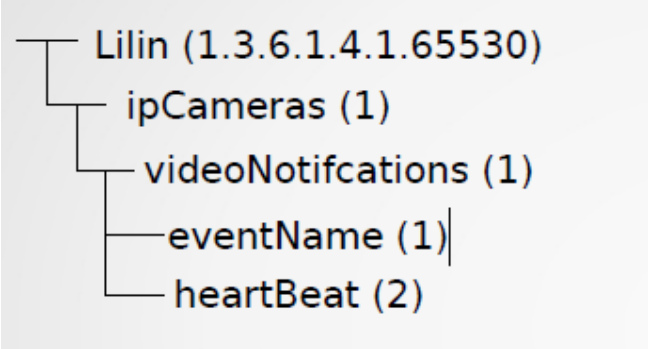
Step #3

Enable/disable heartbeat feature in SNMP page from LILIN camera.

- Remote IP: Specify IP address of SNMP server.
- Dwell: the interval of sending heatbeat



SNMP MIB Tree



SNMP Element Description

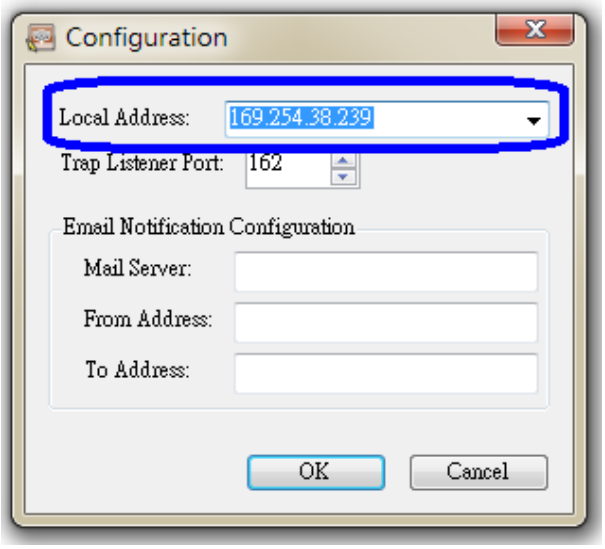
Elemenet name	Data type	Note
eventName	DisplayString	Identify of event

Identify string	Explain
MOTION	Detected motion event
FACE	Detected face
TAMPER	Detected tamper event
AUDIO	Detected audio
ALARM	Detected alarm input
NET	Detected network broken

heartBeat	Unsigned32	Date/time of device

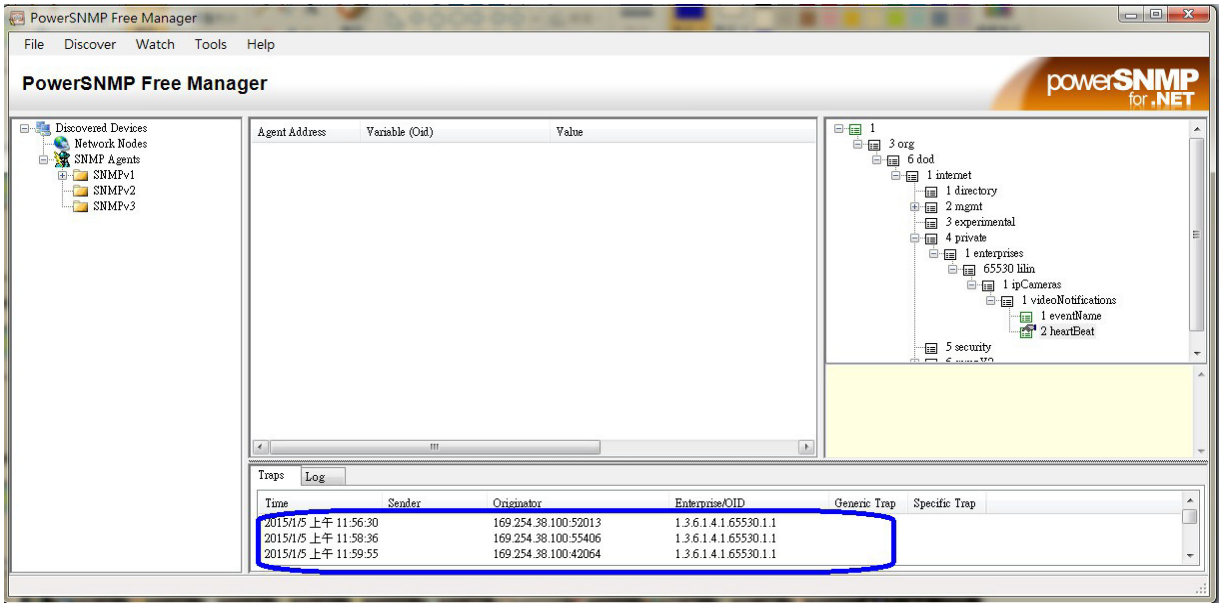
How to Verify SNMP Heartbeat and Event

- Download powerSNMP Free Manager at http://www.dart.com/snmp-free-manager.aspx.
- Install powerSNMP.
- Select Tool->Configuration from powerSNMP and switch to IPv4 network interface



Load the MIB File

- Select Tools->Load for the MID file from powerSNMP.
- The event and the hearbeat information are displayed when powerSNMP receives the trap messages.



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The MIB File:
Copy the following into a text editor and save the file with a ".mib" extension.

```
LILIN-VIDEO-MIB DEFINITIONS ::= BEGIN
IMPORTS
      MODULE-IDENTITY,
      OBJECT-IDENTITY,
      OBJECT-TYPE,
      Integer32,Unsigned32
      enterprises
            FROM SNMPv2-SMI
      DisplayString
            FROM SNMPv2-TC;

lilin MODULE-IDENTITY
      LAST-UPDATED "201412230000Z"
      ORGANIZATION "Merit LILIN Ent. Co., Ltd."
      CONTACT-INFO ""
      DESCRIPTION    "The LiLin root MIB"
      REVISION         "201412230000Z"
      DESCRIPTION    "Initial version of this MIB module."
       ::= { enterprises 65530 }

ipCameras OBJECT IDENTIFIER ::= { lilin 1 }

videoNotifications OBJECT IDENTIFIER
      ::= { ipCameras 1 }

eventName OBJECT-TYPE
      SYNTAX          DisplayString
      MAX-ACCESS    accessible-for-notify
      STATUS          current
      DESCRIPTION "event name"
      ::= { videoNotifications 1 }

heartBeat OBJECT-TYPE
      SYNTAX          Unsigned32
      MAX-ACCESS    accessible-for-notify
      STATUS          current
      DESCRIPTION "heartbeat"
      ::= { videoNotifications 2 }
END
```