SNMP for T03-1 Delta Manager

All vendor-specific MIB data objects are located under the **iso.org.dod.internet.private.enterprise (1.3.6.1.4.1)** OID (Object IDentifier).
This should be followed by a Vendor OID. The Vendor OID part is a specific number requested from IANA (Internet Assigned Numbers Authority, www.iana.org) which is unique for each enterprise. For NIBE-AirSite the vendor number is 55024.

This in turn is followed by Vendor Specific OIDs that defines the different values that can be read from the device. These definitions are located in the T03-1-MIB file (file name T03-1-MIB.mib).

```
55024.1.1.1.1 Example: Read outdoor temp
      1=device
        1=T03-1
          1=Readable parameters Numeric Identifier
            1=Read outdoor temp
            2=Read indoor temp
            and so on, see listing below
```

For example, to read the outdoor temperature the full OID that should be sent will be: 1.3.6.1.4.1.55024.1.1.1.1.0.
The suffix 0 refers to the instance of the variable.

The readable values are listed below:

Vendor Specific OIDs	Value	Scaling
1.1.1.1	Outdoor Temp	1/10 °C
1.1.1.2	Indoor Temp	1/10 °C
1.1.1.3	Calculated Setpoint	1/10 °C
1.1.1.4	Fan Output	0-4096 equals 0-100%
1.1.1.5	Max Fan Output	0-4096 equals 0-100%
1.1.1.6	Tacho Frequency	Hertz
1.1.1.7	AirCond Start Temp	1/10 °C
1.1.1.8	Heater Status	1/0=On/Off
1.1.1.9	Damper Status	1/0=On/Off
1.1.1.10	AirCond Mode	1=Installed, 0=Not installed
1.1.1.11	AirCond Status	1/0=On/Off
1.1.1.12	Emergency Cooling	1=Active, 0=Inactive
Alarm Flags		
1.1.1.13	High Temp	1=Active, 0=Inactive
1.1.1.14	Low Temp	1=Active, 0=Inactive
1.1.1.15	Missing 230 VAC	1=Active, 0=Inactive
1.1.1.16	Fire Alarm	1=Active, 0=Inactive
1.1.1.17	Indoor Sensor Failure	1=Active, 0=Inactive
1.1.1.18	Outdoor Sensor Failure	1=Active, 0=Inactive
1.1.1.19	Filter Alarm	1=Active, 0=Inactive
1.1.1.20	Fan Alarm	1=Active, 0=Inactive
1.1.1.21	AirCond Alarm	1=Active, 0=Inactive

TRAPS

Traps are sent when some event (alarm) either goes active or when it goes back to inactive state. In addition as an option all traps can be sent with a set interval, not only on status change.

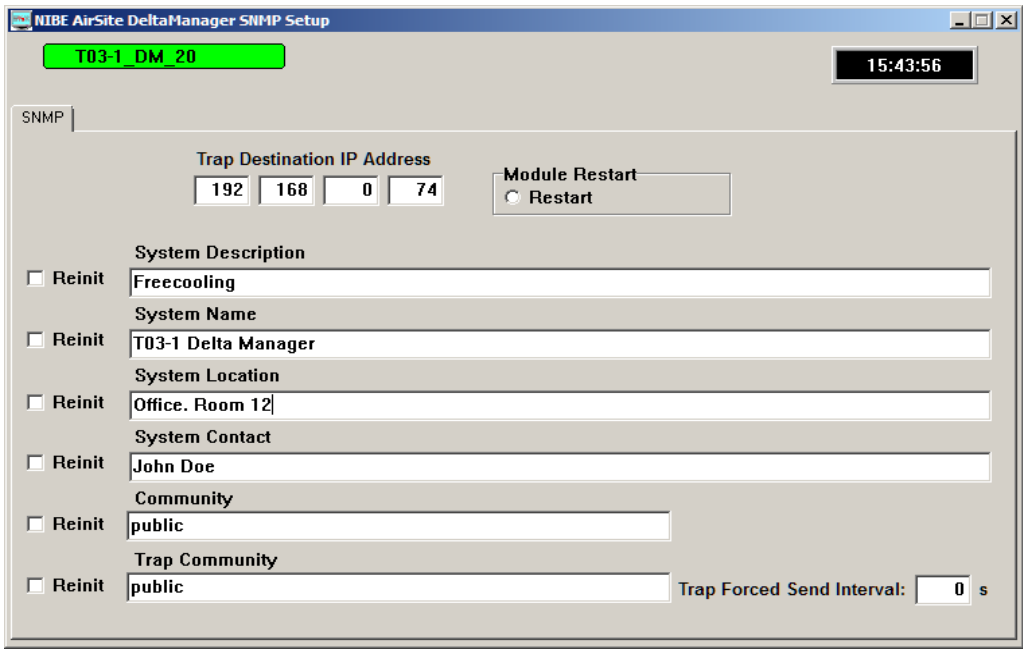
Traps are sent using the following OID construct:
iso.org.dod.internet.private.enterprise (1.3.6.1.4.1.enterprise) OID followed by a Vendor Specific OID that defines the Trap Numeric Identifier.

```
55024.1.1.2
      1=device
        1=T03-1
          2=Trap Identifier
```

Traps are sent as ”Enterpise Specifics (6)” with the following OIDs:

Vendor Specific OIDs	Specific Trap Number	Type
1.1.2	1	A-Alarm
1.1.2	2	B-Alarm
1.1.2	3	Fire Alarm
1.1.2	4	High Temp Alarm
1.1.2	5	Low Temp Alarm
1.1.2	6	Missing 230 VAC
1.1.2	7	Indoor Sensor Failure
1.1.2	8	Outdoor Sensor Failure
1.1.2	9	Filter Alarm
1.1.2	10	Fan Alarm
1.1.2	11	AirCond Alarm

Some necessary SNMP-configurations are carried out with the help of a VisualSiox Setup dff-file ”DeltaManager_0020_SNMP_Setup.dff” as shown in the following picture.



Trap Destination IP Address: destination for the traps. Requires Module Restart after change.

Trap Forced Send Interval: if non-zero all traps will be sent with the interval set, not only on status change.

There are six strings that can be configured, namely System Description, System Name, System Location, System Contact, Community and Trap Community.
Each string may be up to 256 characters.

Note that to display a string, double-click in the corresponding field.
To edit, enter the new text and press Enter and finish by clicking the corresponding Reinit box which will store the string in the non-volatile memory (EEPROM) in the T03-1 Delta Manager.