

# The Dude

For being mostly free (at most \$45), [Mikrotik's The Dude](#) monitoring system is on of the most useful network monitoring tools any IT group could possibly deploy.

Here's some customizations I regularly use.

## Notifications

### Templates

The are notification template customizations I use.

#### Email

##### ***Subject***

```
[Service.Status] [Probe.Name] on [Device.Name] (Map: [Device.NetMaps])
```

##### ***Body***

```
Service [Probe.Name] on [Device.Name] is now [Service.Status] ([Service.ProblemDescription])
Map: [Device.NetMaps]
Address: [Device.AddressesCommaList] ([Device.FirstDnsName])
Custom Field 1: [Device.CustomField1]
Custom Field 2: [Device.CustomField2]
Custom Field 3: [Device.CustomField3]
Notes:
[Device.NotesCommaList]
```

#### log to events

```
[Service.Status] [Probe.Name] on [Device.Name] - [Device.FirstAddress] ([Device.FirstDnsName])
- ([Service.ProblemDescription]) - (Map: [Device.NetMaps])
```

#### log to events - csv

```
"[Device.NetMaps]", "[Device.Name]", "[Device.FirstAddress]", "[Device.FirstDnsName]", "[Probe.Name]", "[Service.Status]", "[Service.ProblemDescription]"
```

## log to events - json

```
{"map": "[Device.NetMaps]", "device": "[Device.Name]", "firstAddress": "[Device.FirstAddress]",  
"firstDNSName": "[Device.FirstDnsName]", "probe": "[Probe.Name]", "status": "[Service.Status]",  
"problemDescription": "[Service.ProblemDescription]"}
```

# Functions

## snmp\_link\_info()

```
if (  
    string_size(oid(concatenate("iso.org.dod.internet.mgmt.mib-  
2.interfaces.ifTable.ifEntry.ifAdminStatus.", link_index() ), 300, 600)),  
    concatenate(  
        concatenate("if:", link_index(), " - "),  
        oid(concatenate("iso.org.dod.internet.mgmt.mib-  
2.interfaces.ifTable.ifEntry.ifDescr.", link_index()), 60),  
        "  
Admin ",  
        oid(concatenate("iso.org.dod.internet.mgmt.mib-  
2.interfaces.ifTable.ifEntry.ifAdminStatus.", link_index()), 60),  
        ", Oper ",  
        oid(concatenate("iso.org.dod.internet.mgmt.mib-  
2.interfaces.ifTable.ifEntry.ifOperStatus.", link_index()), 60),  
        "  
Last change: ",  
        oid(concatenate("iso.org.dod.internet.mgmt.mib-  
2.interfaces.ifTable.ifEntry.ifLastChange.", link_index()), 60),  
        "",  
        "  
"  
    )  
    ,  
    ""  
)
```

## apc\_ats\_output\_current

```
oid("1.3.6.1.4.1.318.1.1.8.5.4.3.1.4.1.1.1") * 0.1
```

## apc\_ats\_output\_voltage

```
oid_raw("1.3.6.1.4.1.318.1.1.8.5.4.3.1.3")
```

## apc\_ats\_redundancy\_status

Description: 1 = Not Redundant, 2 = Redundant

Code:

```
oid("1.3.6.1.4.1.318.1.1.8.5.1.3")
```

## apc\_ats\_redundancy\_status\_text

Description: 1 = Not Redundant, 2 = Redundant

Code:

```
if(apc_ats_redundancy_status() = 2,"Not Redundant","Redundant")
```

## apc\_ats\_selected\_source

Description: 1 = Source A, 2 = Source B

Code:

```
oid("1.3.6.1.4.1.318.1.1.8.5.1.2")
```

## apc\_ats\_selected\_source\_text

Description: 1 = Source A, 2 = Source B

Code:

```
if(apc_ats_selected_source() = 2,"Source B","Source A")
```

## displayCustomField1

```
if(string_size(device_property("CustomField1")) >  
0,concatenate(device_property("CustomField1"),"  
"),"")
```

## displayCustomField2

```
if(string_size(device_property("CustomField1")) >  
0,concatenate(device_property("CustomField1"),"
```

```
"), "")
```

### displayCustomField3

```
if(string_size(device_property("CustomField3")) >
0,concatenate(device_property("CustomField3"),"
"), "")
```

### displayCustomFields12

```
concatenate(
if(string_size(device_property("CustomField1")) >
0,concatenate(device_property("CustomField1"),"
"), ""),
if(string_size(device_property("CustomField2")) >
0,concatenate(device_property("CustomField2"),"
"), "")
)
```

### displayCustomFields123

```
concatenate(
if(string_size(device_property("CustomField1")) >
0,concatenate(device_property("CustomField1"),"
"), ""),
if(string_size(device_property("CustomField2")) >
0,concatenate(device_property("CustomField2"),"
"), ""),
if(string_size(device_property("CustomField3")) >
0,concatenate(device_property("CustomField3"),"
"), "")
)
```

### procurve\_uptime

```
oid_column("1.0.8802.1.1.2.1.2.1.0")
```

### ups\_alarm\_status

```
oid_raw("iso.org.dod.internet.mgmt.mib-2.upsMIB.upsObjects.upsAlarm.upsAlarmPresent")
```

ups\_battery\_estimatedChargeRemaining\_raw

```
if(ups_status_available(), oid_raw("1.3.6.1.2.1.33.1.2.4.0"), 0)
```

ups\_battery\_estimatedMinutesRemaining\_raw

```
if(ups_status_available(), oid_raw("1.3.6.1.2.1.33.1.2.3.0"), 0)
```

ups\_battery\_status

```
if(ups_status_available(), oid("1.3.6.1.2.1.33.1.2.1.0"), "None")
```

ups\_battery\_status\_raw

```
if(ups_status_available(), oid_raw("1.3.6.1.2.1.33.1.2.1.0"), 0)
```

ups\_output\_load\_percentage\_raw

```
if(ups_status_available(), oid_raw("1.3.6.1.2.1.33.1.4.4.1.5.1"), 0)
```

ups\_status

```
oid("iso.org.dod.internet.mgmt.mib-2.upsMIB.upsObjects.upsAlarm.upsAlarmPresent")
```

ups\_status\_available

```
array_size(oid_column("iso.org.dod.internet.mgmt.mib-2.upsMIB.upsObjects.upsAlarm"))
```

ups\_status\_show

```
concatenate(  
  if(ups_status_available(), concatenate("UPS: ",  
    oid("1.3.6.1.2.1.33.1.2.1.0"),  
    " (",  
    oid("1.3.6.1.2.1.33.1.2.4.0"),  
    "% / ",  
    oid("1.3.6.1.2.1.33.1.2.3.0"),  
    " minutes)  
  ), ""),  
  "")
```

# Probes

## ups\_output\_load

```
Name: ups_output_load
Type: Function
Agent: default
Available: ups_status_available()
Error: if(ups_battery_status_raw() <> 2, ups_battery_status(), "")
Value: ups_output_load_percentage_raw()
Unit: status
```

## ups\_status

```
Name: ups_status
Type: Function
Agent: default
Available: ups_status_available()
Error: if(ups_battery_status_raw() <> 2, ups_battery_status(), "")
Value: ups_battery_status_raw()
Unit: status
```

#end

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Revision #5

Created 12 June 2023 15:06:38 by bluecrow76

Updated 16 July 2024 19:13:46 by bluecrow76