

# 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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