

- 1.) Aktivieren Loopdetect auf Ports 1-18 am DGS-3120-24PC mit IP 192.168.10.222/24
 - a. config loopdetect ports 1:1-1:18 state enable || aktivieren LDB auf Ports 1-18
 - b. config loopdetect trap loop_detected || aktivieren LBD Traps nur für Detection
 - c. config loopdetect recover_timer 60 || Recovery Timer nachdem ein Loop auftrat, 0 = Port muss manuell wieder aktiviert werden
 - d. config loopdetect interval 10 || LBD Detection Intervall
 - e. config loopdetect mode port-based || LBD Betriebsmodus
 - f. create snmp host 192.168.10.200 v2 private || definieren TRAP Reciever
 - g. enable snmp || aktivieren SNMP
 - h. enable snmp traps || aktivieren SNMP Traps

2.) DV7 System Discovery einrichten

The screenshot shows the 'System' menu in the dvview 7 interface. The 'Discovery' option is highlighted with a red circle. Below the menu, the 'Local Probe' status is shown with a green lock icon and a '1' in a large orange font under 'Managed Devices'. The 'Discover in' time is set to 4 Mins, and the 'Last Updated Time' is 2016-06-16 11:12. A table below shows probe details:

MAC	Probe Version	Uptime
54:04:A6:B6:D7:3A	1.0.3.6	0 Day, 19:44:13

SNMP Version	Communities	Username	IP Range / Subnet	Alias
V1/V2	public(RO),private(RW)	-	192.168.10.0-192.168.10.254	N/A

The screenshot shows the 'Discover Setting' dialog box in the dvview 7 interface. The 'Local Probe' icon is circled in red. The dialog box contains the following settings:

Probe Info Setting

Name*: Local Probe
Location: lab

Discovered Rules Setting

Auto Discovery: ON OFF
Discover Time Interval: 5 Minutes

Discovered Rules

SNMP Version	Communities	Username	IP Range / Subnet	Alias	Action
V1/V2	public(RO),private(RW)	-	192.168.10.0-192.168.10.254	N/A	

+ Add Rule

Save

3.) DV7 Sensoren Menü auswählen

The screenshot shows the 'System' menu in the dvview 7 interface. The 'System' menu is circled in red, and its sub-menu 'Sensor Settings' is also circled in red. The main content area shows 'CPU Utilization' settings and a 'Supported Devices' table with one entry.

NO.	Name ^	Interval (Min) †	Events	Target Devices †
1	Default	1		1

4.) Neuen SNMP TRAP Sensor definieren

The screenshot shows the 'Trap' sensor settings page. The 'Trap' menu item in the left sidebar is circled in red, and the 'New Sensor' button in the 'Sensor List' table is also circled in red. The 'Sensor List' table contains three entries.

NO.	Name ^	Trap Version †	Rule †
1	Default (v1)	V1	6
2	Default (v2)	V2	66
3	Loopdetect	V2	18

The screenshot shows the 'Edit Trap Sensor' form. It has a progress bar with three steps. Step 1, 'Set Sensor Information', is active. The 'Name*' field contains 'Loopdetect' and the 'Description' field is empty. A 'Next' button is visible at the bottom right.

Create New Trap Sensor

2

2. Set Sensor Information

Alert Rule Setting

Trap Server:

SNMP Trap Version: v1 v2 / v3

Event Rule(s): 0/50 Reset

Event	Trap OID	Binding Variable & Value	Match Type	Delete
No Data Found				

+ Add Rule

Trap OID:

Binding Variable:

Event: Critical Warning Info

Logical Relationships: OR AND

Match Type: Keyword Full match

Add Binding Variable

Add

2

2. Set Sensor Information

Alert Rule Setting

Trap Server:

SNMP Trap Version: v1 v2 / v3

Event Rule(s): 0/50 Reset

Event	Trap OID	Binding Variable & Value	Match Type	Delete
No Data Found				

+ Add Rule

Trap OID:

Binding Variable:

Event: Critical Warning Info

Logical Relationships: OR AND

Match Type: Keyword Full match

Binding Variable: Value:

Add Binding Variable

Add

Back
Next

Tragen Sie nun die TRAP OID ein

- ⇒ Bei Binding Variable können Sie das Verhalten des Systems je nach SNMP Trap definieren.
- ⇒ In diesem Beispiel wird die SNMP TRAP OID 1.3.6.1.4.1.171.12.41.10.0.1 verwendet.
- ⇒ Als Variable wird die OID 1.3.6.1.4.1.171.12.41.3.1.1.1 mit dem Wert 1 benutzt

Diese Regel sagt folgendes aus:

Am z.B. Switch ist ein Loop aufgetreten (TRAP OID 1.3.6.1.4.1.171.12.41.10.0.1), der Loop ist auf Port 1 (OID 1.3.6.1.4.1.171.12.41.3.1.1.1 und Wert 1) aufgetreten.

Wenn Sie je Port eine entsprechende Alarmierung benötigen, so müssen Sie je eine entsprechende Regel definieren.

2. Set Sensor Information

Alert Rule Setting

Trap Server:

SNMP Trap Version: v1 v2 / v3

Event Rule(s): 18/50 Reset

Event	Trap OID	Binding Variable & Value	Match Type	Delete
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"1"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"2"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"3"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"4"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"5"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"6"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"7"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"8"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"9"]	Full match	
Critical	1.3.6.1.4.1.171.12.41.10.0.1	[1.3.6.1.4.1.171.12.41.3.1.1.1,"10"]	Full match	

[+ Add Rule](#) Back Next

“

Object name swPortLoopOccurred
 Object ID 1.3.6.1.4.1.171.12.41.10.0.1
 Description The trap is sent when a port loop occurs.
 Object ID 1.3.6.1.4.1.171.12.41.10.0.2
 Object name swPortLoopRestart
 Description The trap is sent when a port loop restarts after the interval time.

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3. Apply to Device(s)

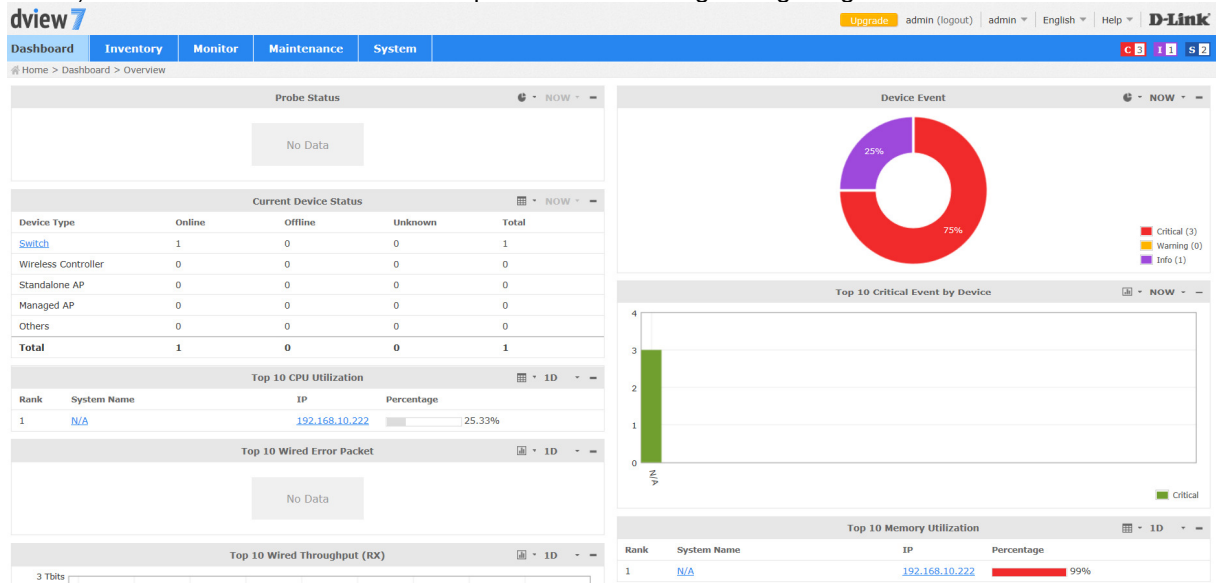
Edit Trap Sensor

All Selected Search "Keyword"

<input checked="" type="checkbox"/>	Status	System Name	MAC	IP	Device Type	Model Name	Label
<input checked="" type="checkbox"/>	●	N/A	84:C9:B2:9E:2E:80	192.168.10.222	L2 GE Switch	DGS-3120-24PC	

Back Finish

5.) Im Dashboard werden nun entsprechende Meldungen angezeigt



6.) In diesem Beispiel wurde ein LBD Loop zwischen den Ports 3 & 10 erkannt und an DV7 gemeldet.

