D-Link

How to Use DGS-3627 D-View6 Module RMON Function

1. Topology:

DGS-3627(192.166.11.253)-----(192.166.11.133)DV6

2. Include DGS-3627 into DV6.



3. Double click DGS3627 to enable DGS-3627 DV6 module, you can check RMON function bar.

RMON	Bridge	<u>V</u> LAN	SNMB A3	Security Manag	gement	La	ayer 2	Mana	ageme	ent L _i	<u>a</u> yer 3 N	lanag	emen	: Sig	igle IF	SELO	WE	<u>t</u> elp
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<u>S</u> tatis Histo <u>A</u> larn	stics ry n/Event	t		••														Combo 3
Prob	e Config	•		Console	2	4	6	8	10	12	14	16	18	20	22	24 Co	mbo 2	Combo 4
	<u>R</u> MON <u>R</u> MOI <u>S</u> tati: <u>H</u> isto <u>A</u> larm <u>P</u> rob	RMON Bridge RMON Contro Statistics History Alarm/Event Probe Config	RMON Bridge ⊻LAN RMON Control Statistics History t Alarm/Event Probe Config ►	RMON Bridge VLAN SMMP V3 RMON Control Statistics History Alarm/Event Probe Config ►	RMON Bridge VLAN SMMP V3 Security Manage RMON Control Statistics History Alarm/Event Probe Config + Console	RMON Bridge VLAN SVMP V3 Security Management RMON Control Statistics History Alarm/Event Probe Config + Console 2	RMON Bridge VLAN SMMP V3 Security Management La RMON Control Image: Security Management Image: Se	RMON Bridge YLAN SMMP V3 Security Management Layer 2 RMON Control Statistics Statistics History Alarm/Event Probe Config	RMON Bridge VLAN SMMP V3 Security Management Layer 2 Management RMON Control Statistics Statistics History Alarm/Event Probe Config Console 2 4 6 8	RMON Bridge YLAN SMMP V3 Security Management Layer 2 Management RMON Control Statistics Image: Security Management Image: Security Management Image: Security Management Statistics Image: Security Management Image: Security Management Image: Security Management Image: Security Management Statistics Image: Security Management Image: Security Management Image: Security Management Image: Security Management History Image: Security Management Image: Security Management Image: Security Management Image: Security Management History Image: Security Management Image: Security Management Image: Security Management Image: Security Management History Image: Security Management Image: Security Management Image: Security Management Alarm/Event Image: Security Management Image: Security Management Image: Security Management Probe Confrig Image: Security Management Image: Security Management Image: Security Management Probe Confrig Image: Security Management Image: Security Management Image: Security Management Probe Confrig Image: Security Management Image: Security Management	RMON Bridge YLAN SMMP V3 Security Management Layer 2 Management L RMON Control Statistics Image: Statis Image: Statistics	RMON Bridge YLAN SMMP V3 Security Management Layer 2 Management Layer 3 M RMON Control Statistics Image: Statis<	RMON Bridge YLAN SMMP V3 Security Management Layer 2 Management Layer 3 Management RMON Control Statistics Image: Statistics Image: Statistics Image: Statistics History Alarm/Event Image: Statistics Image: Statistics Image: Statistics Probe Config Console 2 4 6 3 10 12 14 16	RMON Bridge YLAN SVMP V3 Security Management Layer 2 Management Layer 3 Management RMON Control Statistics Image: Statis Image: St	RMON Bridge YLAN SMMP V3 Security Management Layer 2 Management Layer 3 Management Signature RMON Control Statistics Image: Statis	RMON Bridge YLAN SYMP V3 Security Management Layer 2 Management Layer 3 Management Single IF RMON Control Statistics Image: Statis	RMON Bridge YLAN SMMP V3 Security Management Layer 2 Management Layer 3 Management Single IP SELO RMON Control Statistics Image: Statis Image: Statistics <	RMON Bridge YLAN SVMP V3 Security Management Layer 2 Management Layer 3 Management Single IP SELOW Employed RMON Control Statistics Imagement Imagement

4. Go to "RMON Control" and enable RMON.

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Refresh
Set
Close

5. Check RMON History:

Table

ndex	Data Sou	irce Bu	ckets Re	quested	Buckets G	iranted	Interval	Owner	Statu	s 🔺	Custom Tim
5	IfIndex.8	50			50		30	monitor	valid		1.52.11 PM
6	IfIndex.8	50			50		1800	monitor	valid		1.02.11110
7	IfIndex.9	50			50		30	monitor	valid		Add
8	IfIndex 9	50			50		1800	monitor	valid		
9	IfIndex.10) 50			50	ana ana ana ang sa	10	monitor	valid		Modify
0	IfIndex.10) 50			50		1800	monitor	valid		
1	IfIndex.11	50			50		30	monitor	valid	-	Delete
	10				50	1	1000			<u> </u>	View
able	Utilization]	Error Pack	et Distrib	ution						1	Refresh
Index	19	Data 9	iource : [fIndex.10	0,	wner : mon	itor				Interval (sec (103600)
Time SI	tamp	Drop Events	Octets	Packets	Broadcast	Multicast	CRC Ali	ın Ünd	ersize	Overs	10 💌
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days,	6:08:50.49	0	Ō	0	0	0	0	Ō		0	🔽 3D Line
- 22											
											Stop
											Start
										-	Reset
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Utilization

	Data Source	Buckets Requested	Buckets Granted	Interval	Owner	Status	*	Custom Time
5	IfIndex.8	50	50	30	monitor	valid		1.52.41 PM
5	IfIndex.8	50	50	1800	monitor	valid		1.52.41110
7	IfIndex.9	50	50	30	monitor	valid		Add
}	IfIndex.9	50	50	1800	monitor	valid		
	IfIndex.10	50	50	10	monitor	valid		Modify
1	IfIndex.10	50	50	1800	monitor	valid		-
	IfIndex.11	50	50	30	monitor	valid	-	Delete
11	10	50	50	1000		•		View
able	Utilization Error	Packet Distribution						Refresh
		Utili	zation					Interval (se
1			1		12.		n II.	(103600)
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0	* * * *			-				Stop
								Start
								Reset
								ОК

Error

Juex	Data Source	Buckets Requested	Buckets Granted	Interval	Owner	Status 🖌	Sustem Tim
5	IfIndex.8	50	50	30	monitor	valid	1.53.01 PM
6	IfIndex.8	50	50	1800	monitor	valid	1.33.011 M
7	IfIndex.9	50	50	30	monitor	valid -	- Add
8	IfIndex.9	50	50	1800	monitor	valid	
9	IfIndex.10	50	50	10	monitor	valid	Modify
045	IfIndex.10	50	50	1800	monitor	valid	
	IfIndex.11	50	50	30	monitor	valid	-I Delete
	10		50	1000			View
ible	Utilization Error	Packet Distribution					Refresh
	-	Error					Interval (se
1						DC Alian	(103600)
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0.2		-				versize ragments abbers ollisions	Count(10-1
0-2	240.49 8	days 6/0910.49	8 days 6/08/40/49			versize ragments abbers ollisions	Count(10-1

Packet Distribution



6. Check RMON Statistic

Table

ndex	Data Source		Owner		Status 🔺	Color Tim
8	IfIndex 18		monitor		valid	System Time
9	IfIndex.19		monitor		valid	[1.44.40 FM
Ū	IfIndex.20		monitor		valid	1
1	IfIndex.21		monitor		valid	Refresh
2	IfIndex.22		monitor		valid	
3	IfIndex.23		monitor		valid	Add
4	IfIndex.24		monitor		valid 💶	Modifu
1	10J DE					
Index : 19	Data :	Gource : IfIndex.	19 Own	er : monitor		Interval (sec (13600)
Name	Value	Delta	Rate	Peak	Peak Occurre	3 👻
Drop Events	60265	1	0	1	1:44:48 PM	Count(10-12
Octets	868886547	500117	166705	767936	1:44:42 PM	
Packets	19980666	971	323	971	1:44:48 PM	
Broadcast Pac	102685	2	0	3	1:44:45 PM	
	715529	2	0	3	1:44:42 PM	🔽 3D Line
Multicast Pack	110020		0		1 11 00 011	
Multicast Pack CRC Align Errors	0	U	U	U	1:44:39 PM	
Multicast Pack CRC Align Errors Undersize Pac	0	0	0	0	1:44:39 PM	Stop
Multicast Pack CRC Align Errors Undersize Pac Dversize Pack	0	0	0	0	1:44:39 PM 1:44:39 PM 1:44:39 PM	Stop
Multicast Pack CRC Align Errors Undersize Pac Dversize Pack Fragments	0 0 0 0	0	0	0 0 0 0	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM	Stop Start
Multicast Pack CRC Align Errors Jndersize Pac Oversize Pack Fragments Jabbers	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM	Stop Start
Multicast Pack CRC Align Errors Jndersize Pac Dversize Pack Fragments Jabbers Collisions	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1:44:33 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM	Stop Start Reset
Multicast Pack CRC Align Errors Jndersize Pac Dversize Pack Fragments labbers Collisions 64 Octets	0 0 0 0 0 0 0 3317982	0 0 0 0 0 0 17	0 0 0 0 0 0 5	0 0 0 0 0 0 0 57	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:42 PM	Stop Start Reset
Aulticast Pack CRC Align Errors Undersize Pack Tragments labbers Sollisions 64 Octets 55 to 127 Octets	0 0 0 0 0 0 0 0 0 0 3317982 27903021	0 0 0 0 0 0 17 619	0 0 0 0 0 0 5 206	0 0 0 0 0 0 0 57 829	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:42 PM 1:44:42 PM	Stop Start Reset
Multicast Pack CRC Align Errors Jndersize Pac Tragments labbers Collisions 64 Octets 55 to 127 Octets 128 to 255 Oct	0 0 0 0 0 0 3317982 27903021 6798441	U 0 0 0 0 0 17 619 183	0 0 0 0 0 5 206 61	0 0 0 0 0 0 57 829 261	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM	Stop Start Reset
Multicast Pack CRC Align Errors Jndersize Pack Tragments labbers Collisions 64 Octets 65 to 127 Octets 128 to 255 Oct 256 to 511 Oct	0 0 0 0 0 0 3317982 27903021 6798441 3619010	0 0 0 0 0 17 619 183 53	0 0 0 0 0 5 206 61 17	0 0 0 0 0 57 829 261 53	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM	Stop Start Reset OK
Aulticast Pack CRC Align Errors Undersize Pack Tagments abbers Collisions 54 Octets 55 to 127 Octets 28 to 255 Oct 56 to 511 Oct 512 to 1023 O	0 0 0 0 0 3317982 27903021 6798441 3619010 4890434	U 0 0 0 0 17 619 183 53 85	0 0 0 0 5 206 61 17 28	0 0 0 0 0 57 829 261 53 85	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM 1:44:48 PM 1:44:48 PM	Stop Start Reset OK
Aulticast Pack CRC Align Errors Jndersize Pack iragments abbers Collisions 44 Octets 15 to 127 Octets 28 to 255 Oct 156 to 511 Oct 12 to 1023 O 024 to 1518	0 0 0 0 0 3317982 27903021 6798441 3619010 4890434 6725793	0 0 0 0 17 619 183 53 85 571	0 0 0 0 5 206 61 17 28 190	0 0 0 0 57 829 261 53 85 85 588	1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:39 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM 1:44:42 PM	Stop Start Reset OK

Packets

dex	Data Source	Owner	Status	
3011	IfIndex 18	monitor	valid	System Time
	IfIndex 19	monitor	valid	11:40:33 PM
	IfIndex.20	monitor	valid	
	IfIndex.21	monitor	valid	Refresh
	IfIndex.22	monitor	valid	Add
	IfIndex.23	monitor	valid	
	IfIndex.24	monitor	valid	■1 Modify
	10J DE			· – – – – – – – – – – – – – – – – – – –
atistics Tab	ole Packets Errors Pac	sket Size Distribution		
		Packets		Interval (sec (13600)
200	1		Broadcast	3 👻
	1		Multicast	Count(10.1
180				Councilon
160	4			3 🗵
100]				
140				🔽 🔽 3D Lin
	<u> </u>			
g 120				Stop
§ 100			1	
¥.				Start
80				Beset
60	×1	1		
00				
40				1
				OK OK
20 1	J			
1:45:30	PM	1:45:33 PM	1:45:36 PM	

Errors



Packet Size Distribution



7. Setup RMON Alarm/Event Feature

Index	Interval	Variable	Sample Type	Value	Startup Alarm	Rising Threshold	2:10:37 PM
4881	3	etherstatsBr	absoluteValue	0	Rising Or Fa	2	
5332	3	etherstatsPk	absoluteValue	0	Rising Or Fa	2	
18622	3	etherstatsPk	absoluteValue	0	Rising Or Fa	2	
23138	3	etherstatsPk	absoluteValue	0	Rising Or Fa	3	1
							Add
							Delete
							Modify
							Refresh
	1			1			Exit

Setup an alarm/event entry

ndex: 3	0309 Interval: 10	Sampling:	absoluteValue 💌
/ariable: el	therStatsOctets	Threshold Va Rising	alue 65535
Owner: 0	wner StartUp Rising Or Falling	▼ Falling	0
Rising Even	t	Falling Even	
🗸 Activate	Rising Event Index: 9237	🔽 Activate	Falling Event Index: 30410
	Diving Event	Description:	Falling Event
Description:	Inising Eveni		1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 - 1.000 -
Description: Community:		Community:	public

Some important values:

Interval – Monitor query interval

Sampling – How to get samples, absoulteValue or DeltaValue.

Variable – What kind of statistic value is under monitored. "1" means port 1 is under monitor.

StartUp – Monitor Rising, Falling or both.

Rising Threshold Value – When current counter is rising over this value, compare with previous value.

Rising Threshold Value – When current counter is falling below this value, compare with previous value.

Type – Issue log, trap or both alarm when current counter is reach threshold values.

Check total ongoing monitor events

Index	Description	Туре	Community	Time Sent	Owner	Status	2·24·17 P
2211	Falling Event	log-and	public	8 days,	Owner	valid	
2842	Rising Event	log-and	public	0:00:00	Owner	valid	
5594	Falling Event	log-and	public	0:00:00	Owner	valid	
9237	Rising Event	log-and	public	0:00:00	Owner	valid	
15866	Rising Event	log-and	public	0:00:00	Owner	valid	1000
17110	Falling Event	log-and	public	8 days,	Owner	valid	Add
19106	Rising Event	log-and	public	0:00:00	Owner	valid	Distance
24166	Falling Event	log-and	public	0:00:00	Owner	valid	Delete
30410	Falling Event	log-and	public	8 days,	Owner	valid	Madifu
31677	Rising Event	log-and	public	0:00:00	Owner	valid	Moduly
							Refresh
		-					Exit

Check logs of triggered events, if log is enabled.

log Event Index	log Index	log Time	log Description	2:25:12 PM
211	1	8 days, 4:24:50.97	.1.3.6.1.2.1.16.1.1.1.16.1 (value = 0, Fallir	1
7110	1	8 days, 4:26:41.47	.1.3.6.1.2.1.16.1.1.1.18.1 (value = 0, Fallir	
0410	1	8 days, 6:36:31.00	.1.3.6.1.2.1.16.1.1.1.18.2 (delta = 0, Fallin)	
				Add
				Delete
				Modify
				Refresh
2000 C				Exit

Check traps of triggered events, if trap is enabled.

× Time	Source Device IP	Description	
2010-06-29 14:17:04	192.166.11.90	Second_Domain::Net_Unknow_Dev-192.166.11.90 Up -> Down	
2010-06-29 14:17:19	192.166.11.90	Second_Domain::Net_Unknow_Dev-192.166.11.90 Down -> Up	
2010-06-29 14:17:52	192.166.11.68	Second_Domain::Net_Unknow_Dev-192.166.11.68 Up -> Down	
2010-06-29 14:18:06	192.166.11.68	Second Domain::Net Unknow Dev-192.166.11.68 Down -> Up	
2010-06-29 14:18:51	192.166.11.253	Second_Domain::Net-192,166,11.0_Dev-192,166,11,253 fallingAlarm	
2010-06-29 14:18:56		Second_Domain::Net-192,166,11.0_Dev-192,166,11,253 fallingAlarm	
2010-06-29 14:19:40		Second Domain::Net-192.166.11.0 Dev-192.166.11.253 fallingAlarm	
2010-06-29 14:19:45		Second_Domain::Net-192.166.11.0 Dev-192.166.11.253 FallingAlarm	
	192.166.11.63	Second_Domain::Net-192.166.11.0 Dev-192.166.11.63 Up -> Down	
2010-06-29 14:20:26	192.166.11.83	Second_Domain::Net-192.166.11.0 Dev-192.166.11.83 Down -> Up	
a 2010-06-29 14:21:02	192.166.11.68	Second_Domain::Net_Unknow_Dev-192.166.11.68 Up -> Down	
2010-06-29 14:21:16	192.166.11.68	Second_Domain::Net_Unknow_Dev-192.166.11.68 Down -> Up	
2010-06-29 14:23:55	192.166.11.90	Second_Domain::Net_Unknow_Dev-192.166.11.90 Up -> Down	
2010-06-29 14:24:10	192.166.11.90	Second Domain::Net Unknow Dev-192.166.11.90 Down -> Up	
3 4			

8. Check or setup RMON probe

Check or modify probe basic configuration

Probe Basic Infor	mation: 192.166.11.253	_ _ N ×
Capabilities	etherStats,historyControl,etherHistory,alarm,event,probeConfig	
Software Revision	Build 2.40.877	Refresh
Hardware Revision	2416	Set
Reset Control	running	
	warmBoot coldBoot	

Check probe net configuration table

let Config IP Address	Net Config Subnet Mask	Net Config Status	6
1.90.90.11	255.255.255.0	active	
72.14.11.1	255.255.255.0	active	Samples
72.14.12.1	255.255.255.0	active	Befresh
92.166.11.253	255.255.255.0	active	
92.166.12.253	255.255.255.0	active	Close
92.166.13.253	255.255.255.0	active	
et: (DISNMP++) Ok!. R	eceive at 02:29:45 PM.		

Check or modify probe default gateway settings

Refresh
Close