

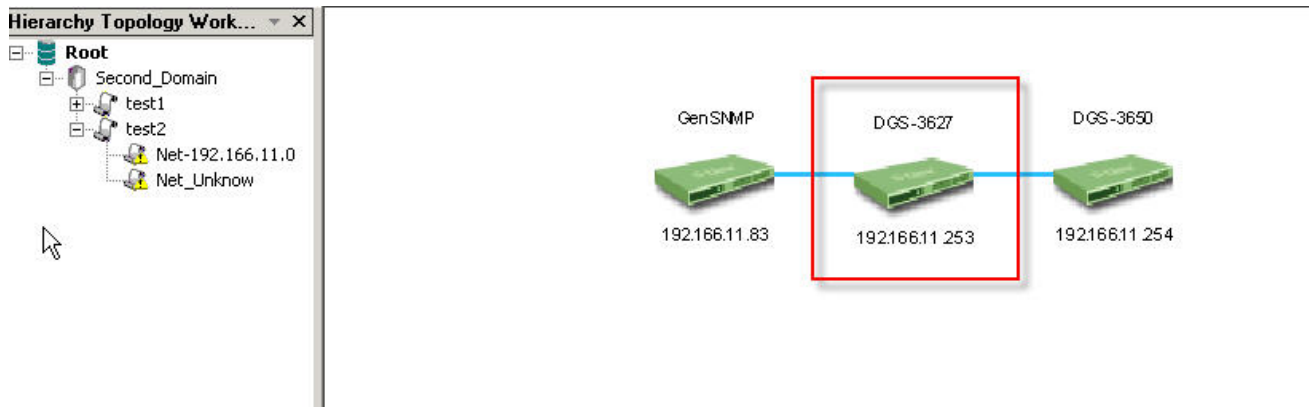
D-Link

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

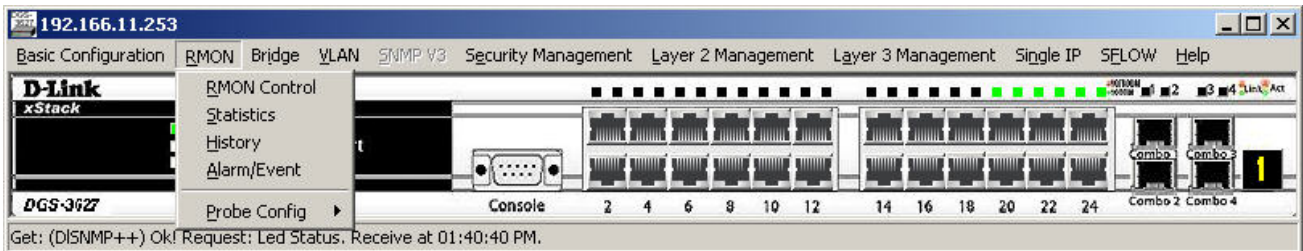
1. Topology:

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

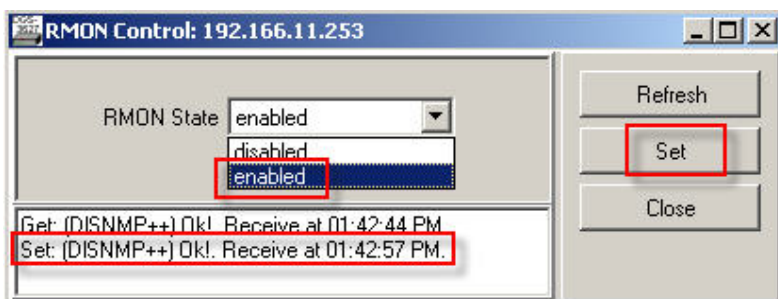
2. Include DGS-3627 into DV6.



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



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



5. Check RMON History:

Table

RMON : History Form : 192.166.11.253

Index	Data Source	Buckets Requested	Buckets Granted	Interval	Owner	Status
15	lfIndex.8	50	50	30	monitor	valid
16	lfIndex.8	50	50	1800	monitor	valid
17	lfIndex.9	50	50	30	monitor	valid
18	lfIndex.9	50	50	1800	monitor	valid
19	lfIndex.10	50	50	10	monitor	valid
20	lfIndex.10	50	50	1800	monitor	valid
21	lfIndex.11	50	50	30	monitor	valid
22	lfIndex.11	50	50	1800	monitor	valid

System Time: 1:52:11 PM

Add
Modify
Delete
View
Refresh

Interval (sec) (10-3600): 10
Count(10-120): 10

3D Line

Stop
Start
Reset

OK

Get: Ok!. Receive at 01:52:12 PM.

Utilization

RMON : History Form : 192.166.11.253

Index	Data Source	Buckets Requested	Buckets Granted	Interval	Owner	Status
15	lfIndex.8	50	50	30	monitor	valid
16	lfIndex.8	50	50	1800	monitor	valid
17	lfIndex.9	50	50	30	monitor	valid
18	lfIndex.9	50	50	1800	monitor	valid
19	lfIndex.10	50	50	10	monitor	valid
20	lfIndex.10	50	50	1800	monitor	valid
21	lfIndex.11	50	50	30	monitor	valid
22	lfIndex.11	50	50	1800	monitor	valid

System Time: 1:52:41 PM

Add
Modify
Delete
View
Refresh

Interval (sec) (10-3600): 10
Count(10-120): 10

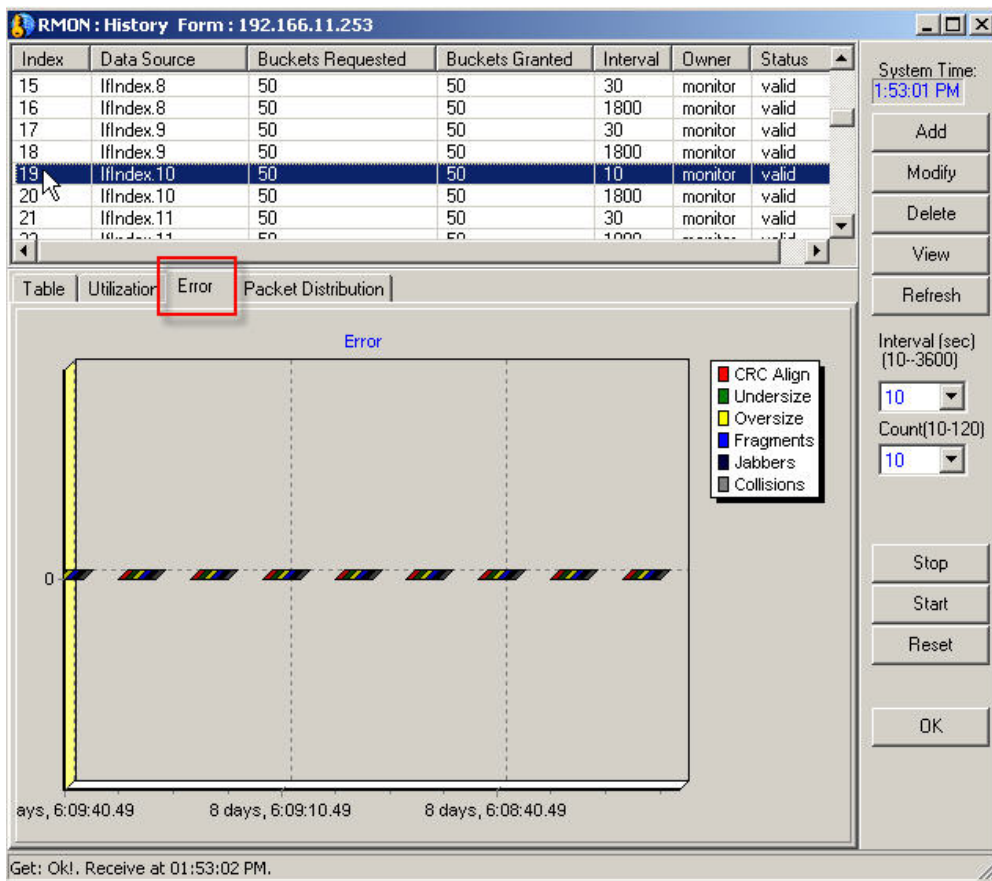
3D Line

Stop
Start
Reset

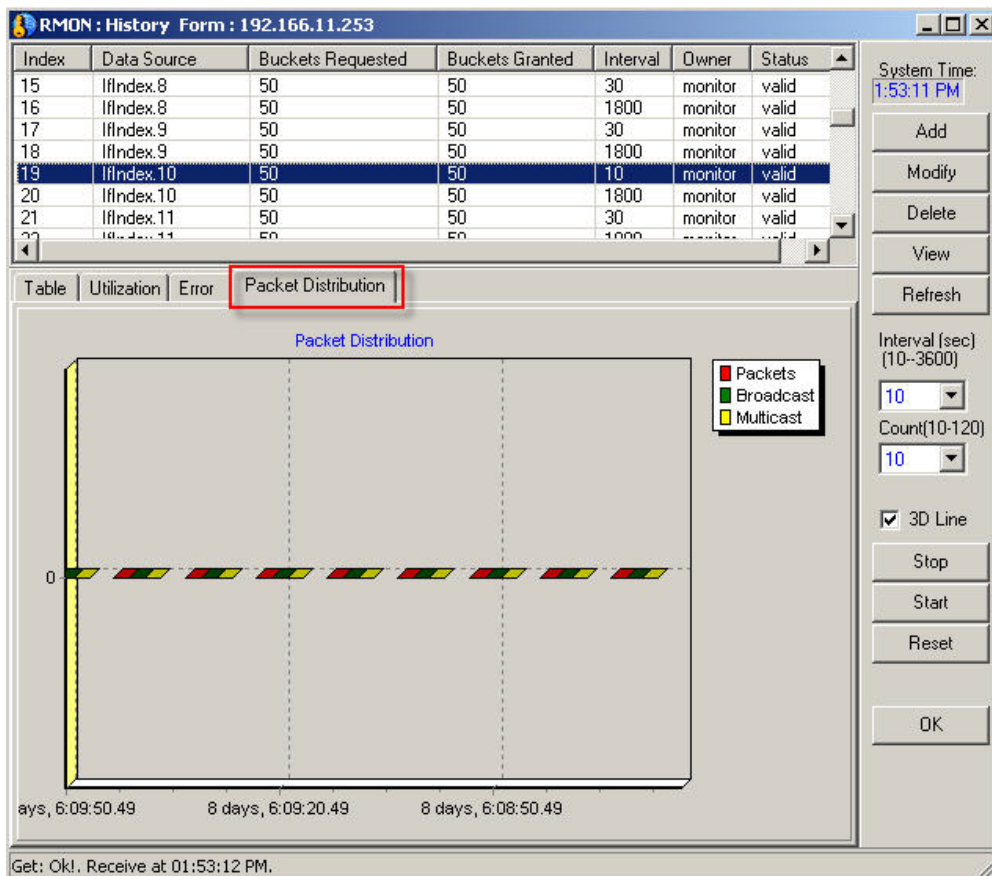
OK

Get: Ok!. Receive at 01:52:42 PM.

Error



Packet Distribution



6. Check RMON Statistic

Table

RMON : Statistics Form : 192.166.11.253

Index	Data Source	Owner	Status
18	IfIndex.18	monitor	valid
19	IfIndex.19	monitor	valid
20	IfIndex.20	monitor	valid
21	IfIndex.21	monitor	valid
22	IfIndex.22	monitor	valid
23	IfIndex.23	monitor	valid
24	IfIndex.24	monitor	valid
25	IfIndex.25	monitor	valid

System Time: 1:44:48 PM

Refresh Add Modify Delete

Interval (sec) (1--3600) 3

Count(10-120) 3

3D Line

Stop Start Reset OK

Statistics Table | Packets | Errors | Packet Size Distribution

Index : 19 Data Source : IfIndex.19 Owner : monitor

Name	Value	Delta	Rate	Peak	Peak Occurrence
Drop Events	60265	1	0	1	1:44:48 PM
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
Multicast Pack...	715529	2	0	3	1:44:42 PM
CRC Align Errors	0	0	0	0	1:44:39 PM
Undersize Pac...	0	0	0	0	1:44:39 PM
Oversize Pac...	0	0	0	0	1:44:39 PM
Fragments	0	0	0	0	1:44:39 PM
Jabbers	0	0	0	0	1:44:39 PM
Collisions	0	0	0	0	1:44:39 PM
64 Octets	3317982	17	5	57	1:44:42 PM
65 to 127 Octets	27903021	619	206	829	1:44:42 PM
128 to 255 Oct...	6798441	183	61	261	1:44:42 PM
256 to 511 Oct...	3619010	53	17	53	1:44:48 PM
512 to 1023 O...	4890434	85	28	85	1:44:48 PM
1024 to 1518 ...	6725793	571	190	588	1:44:42 PM

Get: OK!. Receive at 01:44:48 PM.

Packets

RMON : Statistics Form : 192.166.11.253

Index	Data Source	Owner	Status
18	IfIndex.18	monitor	valid
19	IfIndex.19	monitor	valid
20	IfIndex.20	monitor	valid
21	IfIndex.21	monitor	valid
22	IfIndex.22	monitor	valid
23	IfIndex.23	monitor	valid
24	IfIndex.24	monitor	valid
25	IfIndex.25	monitor	valid

System Time: 1:45:39 PM

Refresh Add Modify Delete

Interval (sec) (1--3600) 3

Count(10-120) 3

3D Line

Stop Start Reset OK

Statistics Table | Packets | Errors | Packet Size Distribution

Packets

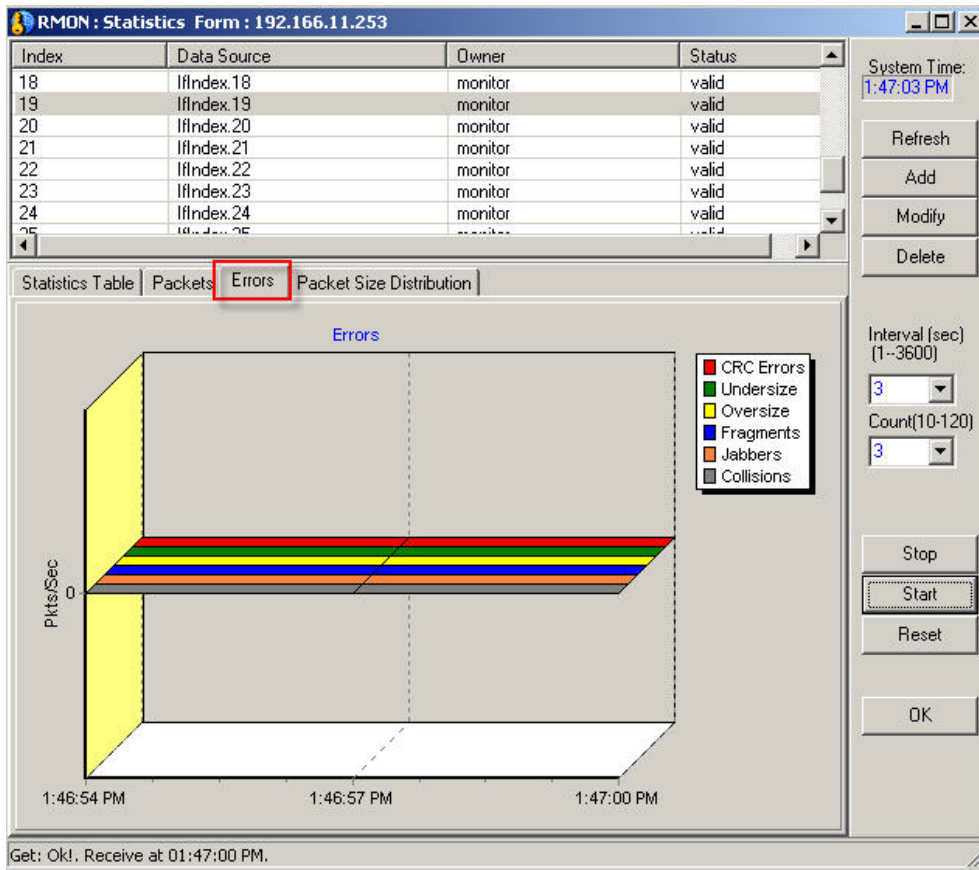
Legend: Packet (Red), Broadcast (Green), Multicast (Yellow)

Y-axis: Pkts/Sec (0 to 200)

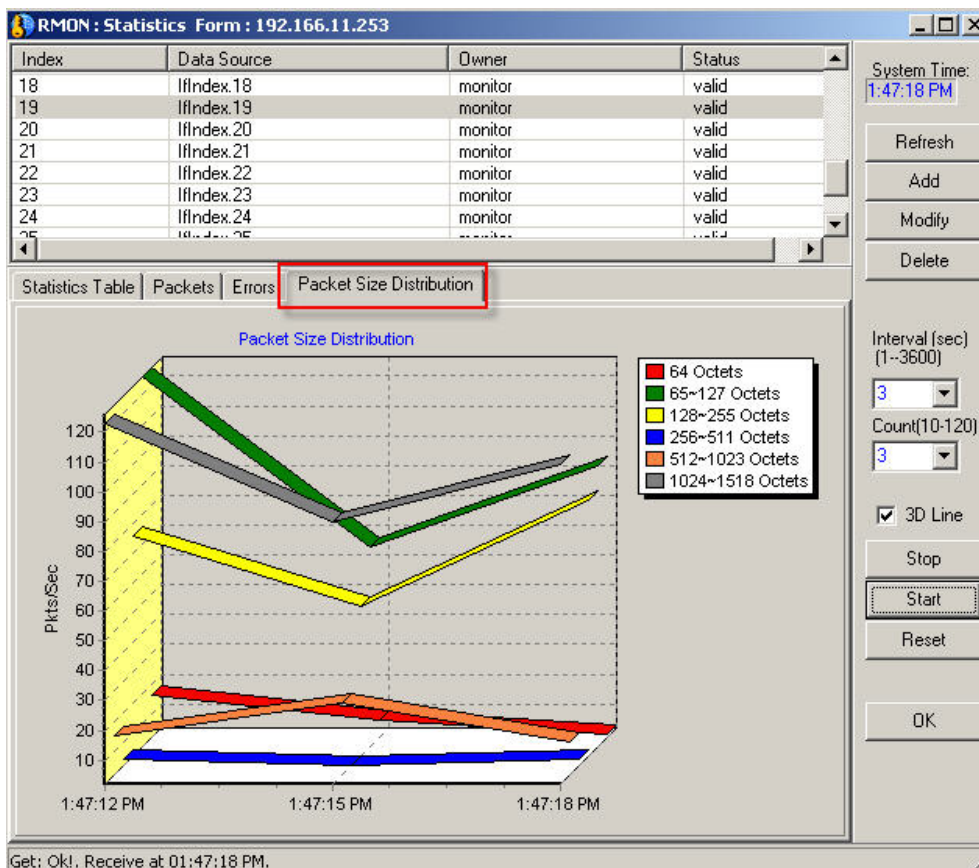
X-axis: 1:45:30 PM, 1:45:33 PM, 1:45:36 PM

Get: OK!. Receive at 01:45:36 PM.

Errors



Packet Size Distribution



7. Setup RMON Alarm/Event Feature

RMON : Alarm & Event Form : 192.166.11.253

System Time: 2:10:37 PM

Index	Interval	Variable	Sample Type	Value	Startup Alarm	Rising Threshold
4881	3	etherstatsBr...	absoluteValue	0	Rising Or Fa...	2
15332	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

Buttons: Add, Delete, Modify, Refresh, Exit

Get: Ok!. Receive at 02:10:20 PM.

Setup an alarm/event entry

Alarm Table : Add

Alarm Entry

Index: 30309 Interval: 10 Sampling: absoluteValue

Variable: etherStatsOctets .1

Owner: Owner StartUp: Rising Or Falling

Threshold Value

Rising: 65535

Falling: 0

Rising Event

Activate Rising Event Index: 9237

Description: Rising Event

Community: public

Type: log-and-trap

Falling Event

Activate Falling Event Index: 30410

Description: Falling Event

Community: public

Type: log-and-trap

Buttons: OK, Cancel

Some important values:

Interval – Monitor query interval

Sampling – How to get samples, absoluteValue 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.

Falling 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

RMON : Alarm & Event Form : 192.166.11.253

Alarm **Event** Log

Index	Description	Type	Community	Time Sent	Owner	Status
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
17110	Falling Event	log-and-...	public	8 days, ...	Owner	valid
19106	Rising Event	log-and-...	public	0:00:00....	Owner	valid
24166	Falling Event	log-and-...	public	0:00:00....	Owner	valid
30410	Falling Event	log-and-...	public	8 days, ...	Owner	valid
31677	Rising Event	log-and-...	public	0:00:00....	Owner	valid

System Time: 2:24:17 PM

Buttons: Add, Delete, Modify, Refresh, Exit

Get: Ok!, Receive at 02:24:10 PM.

Check logs of triggered events, if log is enabled.

RMON : Alarm & Event Form : 192.166.11.253

Alarm Event **Log**

log Event Index	log Index	log Time	log Description
2211	1	8 days, 4:24:50.97	.1.3.6.1.2.1.16.1.1.1.16.1 (value = 0, Fallir
17110	1	8 days, 4:26:41.47	.1.3.6.1.2.1.16.1.1.1.18.1 (value = 0, Fallir
30410	1	8 days, 6:36:31.00	.1.3.6.1.2.1.16.1.1.1.18.2 (delta = 0, Fallin

System Time: 2:25:12 PM

Buttons: Add, Delete, Modify, Refresh, Exit

Get: Ok!, Receive at 02:25:12 PM.

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_Unknown Dev-192.166.11.90 Up -> Down
2010-06-29 14:17:19	192.166.11.90	Second_Domain::Net_Unknown Dev-192.166.11.90 Down -> Up
2010-06-29 14:17:52	192.166.11.68	Second_Domain::Net_Unknown Dev-192.166.11.68 Up -> Down
2010-06-29 14:18:06	192.166.11.68	Second_Domain::Net_Unknown 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	192.166.11.253	Second_Domain::Net-192.166.11.0 Dev-192.166.11.253 FallingAlarm
2010-06-29 14:19:40	192.166.11.253	Second_Domain::Net-192.166.11.0 Dev-192.166.11.253 FallingAlarm
2010-06-29 14:19:45	192.166.11.253	Second_Domain::Net-192.166.11.0 Dev-192.166.11.253 fallingAlarm
2010-06-29 14:20:11	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
2010-06-29 14:21:02	192.166.11.68	Second_Domain::Net_Unknown Dev-192.166.11.68 Down -> Up
2010-06-29 14:21:16	192.166.11.68	Second_Domain::Net_Unknown Dev-192.166.11.68 Down -> Up
2010-06-29 14:23:55	192.166.11.90	Second_Domain::Net_Unknown Dev-192.166.11.90 Up -> Down
2010-06-29 14:24:10	192.166.11.90	Second_Domain::Net_Unknown Dev-192.166.11.90 Down -> Up

