

This is considered the ideal decode Summary pane configuration.

Sniffer Portable Field Service (Trial Mode) - 1, Ethernet (Line speed at 100 Mbps) - [XP-Boot-Login.caz: Decode, 16/2280 Ethernet Frames]

File Monitor Capture Display Tools Database Window Help

No.	Source Address	Dest Address	Summary	Delta Time	Len (By)	Status	Rel. Time
10	UMware187A20	Broadcast	ARP: C PA=[10.2.1.5]DC1-1A PRO=IP	0.330.018	60		0:00:03
11	UMware75FE43	UMware187A20	ARP: R PA=[10.2.1.5]DC1-1A HA=UMware75FE43 PRO=IP	0.000.499	60		0:00:03
12	PC1-1	DC1-1A	DNS: C ID=1 OP=QUERY NAME=_ldap._tcp.SiteA._sites.dc._msdcs.a	0.000.612	107		0:00:03
13	PC1-1	DC1-1A	DNS: C ID=2 OP=QUERY NAME=_ldap._tcp.SiteA._sites.dc._msdcs.a	0.001.013	107		0:00:03
14	DC1-1A	PC1-1	DNS: R ID=1 OP=QUERY STAT=OK NAME=_ldap._tcp.SiteA._sites.dc.	0.002.291	163		0:00:03
15	DC1-1A	PC1-1	DNS: R ID=2 OP=QUERY STAT=OK NAME=_ldap._tcp.SiteA._sites.dc.	0.000.024	163		0:00:03
16	PC1-1	DC1-1A	CLDAP: C ID=1 Search Request	0.005.926	246		0:00:03
17	PC1-1	DC1-1A	CLDAP: C ID=2 Search Request	0.000.856	203		0:00:03
18	DC1-1A	PC1-1	CLDAP: R ID=1 Search Response-entry(v2)/Search Result Entry (0.002.001	191		0:00:03
19	DC1-1A	PC1-1	CLDAP: R ID=2 Search Response-entry(v2)/Search Result Entry (0.000.029	191		0:00:03

DLC: Ethertype=0800, size=246 bytes

IP: D=[10.2.1.5] S=[10.2.1.51] LEN=212 ID=5

UDP: D=389 S=1029 LEN=212

CLDAP: ----- Connectionless Lightweight Directory Access Protocol -----

- CLDAP: Client Request
- CLDAP: Message ID = 1
- CLDAP: Operation = Search Request (3)
- CLDAP: Base Object = NULL
- CLDAP: Scope = Base Object
- CLDAP: Dereference Aliases = Never Dereference Aliases
- CLDAP: Size Limit = 0
- CLDAP: Time Limit = 0
- CLDAP: Types Only = FALSE
- CLDAP: Filter Type = AND (0)

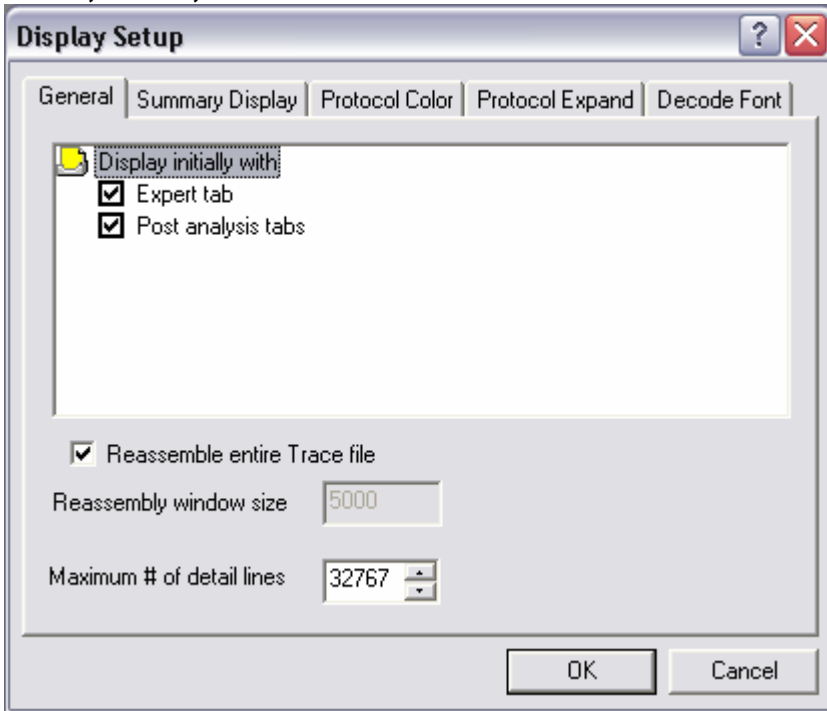
```

00000000: 00 0c 29 75 fe 43 00 0c 29 18 7a 20 08 00 45 00 ..)upC..)z..E.
00000010: 00 e8 00 05 00 00 00 11 23 c5 0a 02 01 33 0a 02 .è.....#ñ...3..
00000020: 01 05 04 05 01 85 00 d4 28 6c 30 84 00 00 00 c6 .....0(10.....
00000030: 02 01 01 63 84 00 00 00 bd 04 00 0a 01 00 0a 01 ...c...½.....
00000040: 00 02 01 00 02 01 00 01 01 00 a0 84 00 00 00 96 ..... █.....
00000050: a3 84 00 00 00 1b 04 09 44 6e 73 44 6f 6d 61 69 E█.....DnsDomai
00000060: 6e 04 0e 61 64 2e 64 6f 6d 61 69 6e 2e 63 6f 6d n..ad.domain.com
00000070: 2e a3 84 00 00 00 0d 04 04 48 6f 73 74 04 05 50 .E█.....Host..P
    
```

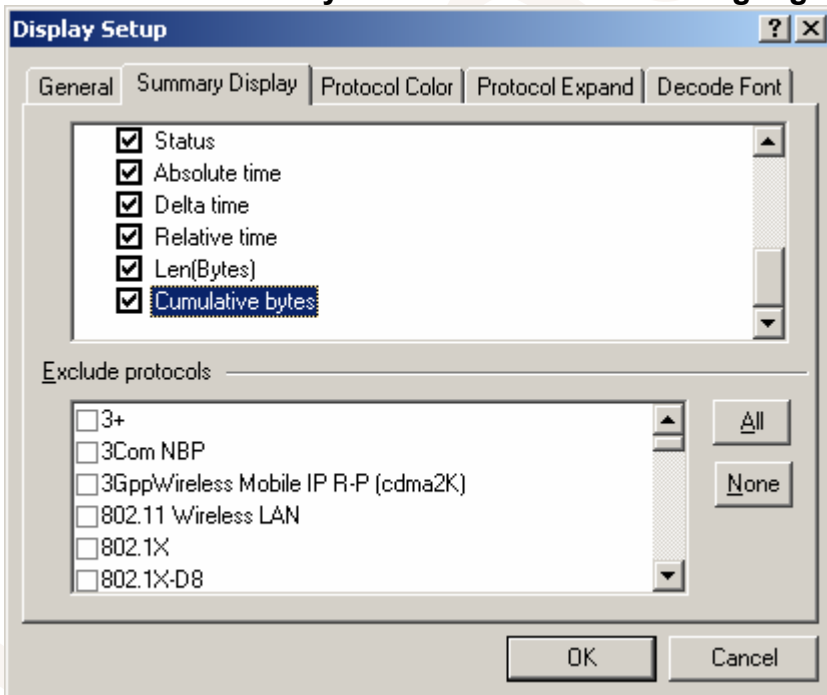
Expert Decode Matrix Host Table Protocol Dist. Statistics /

For Help, press F1

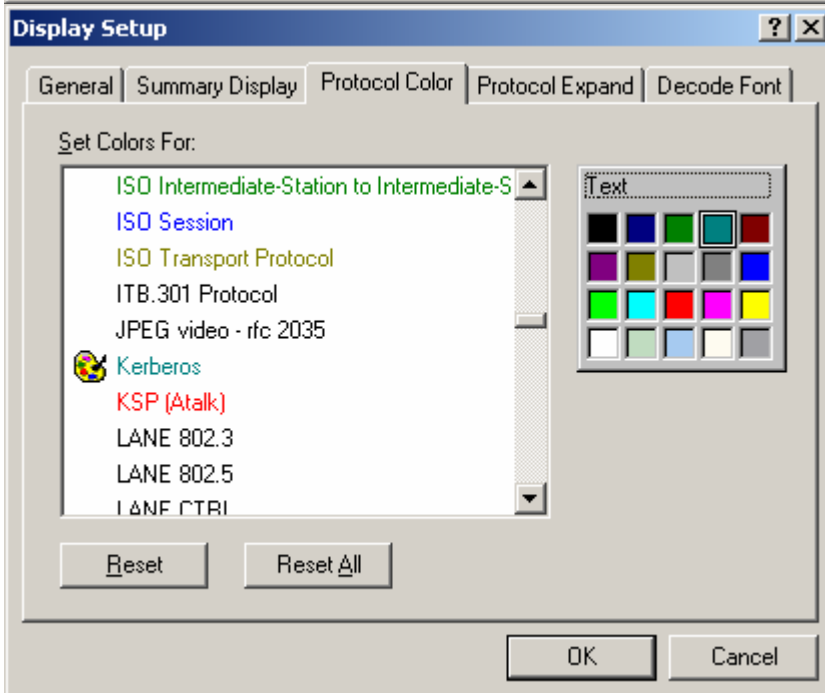
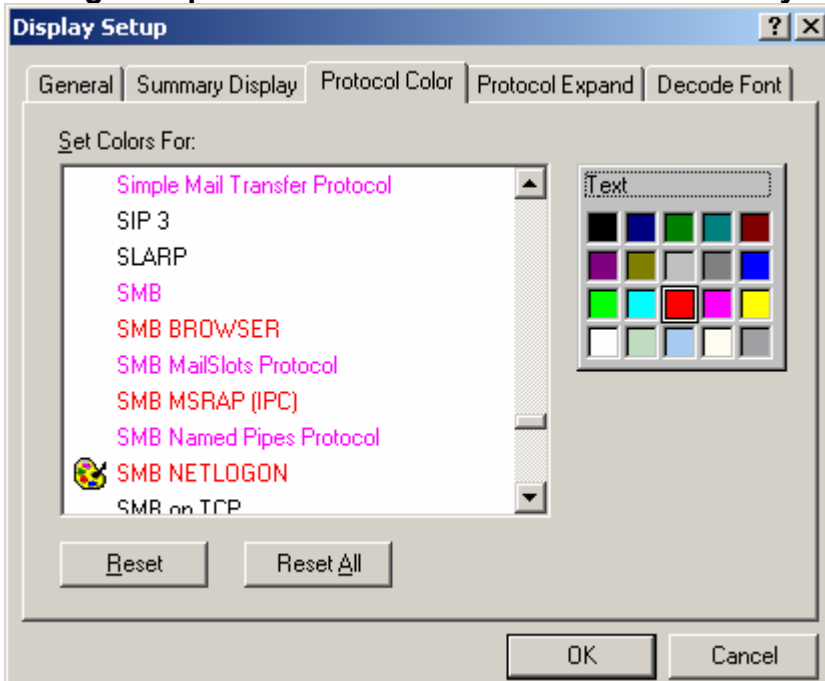
Reassemble Entire Trace File will eliminate line-by-line paging of frames in a very large trace. Increase **Maximum Number of Detail Lines** displayed in decode Detail pane: important with HTTP, LDAP, etc.

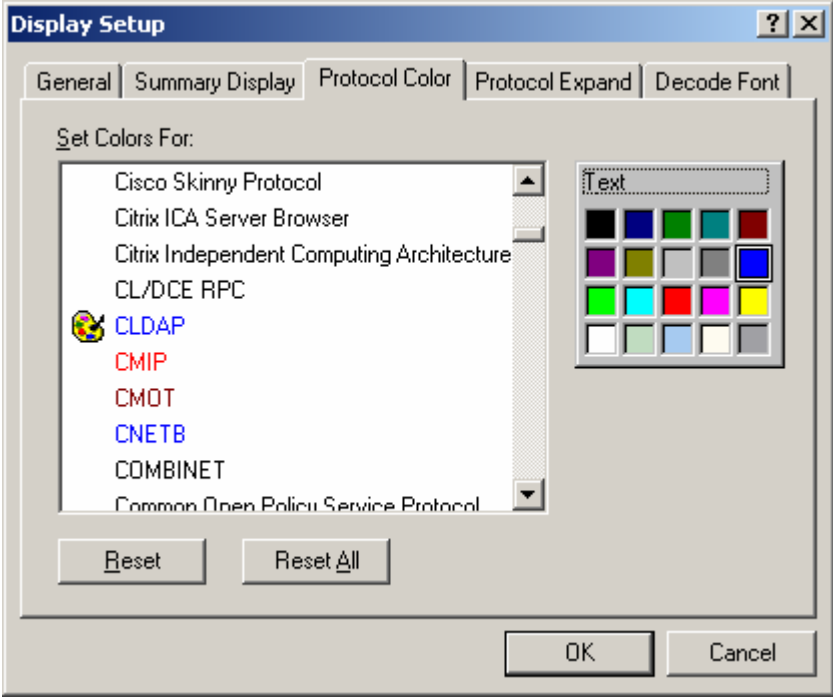
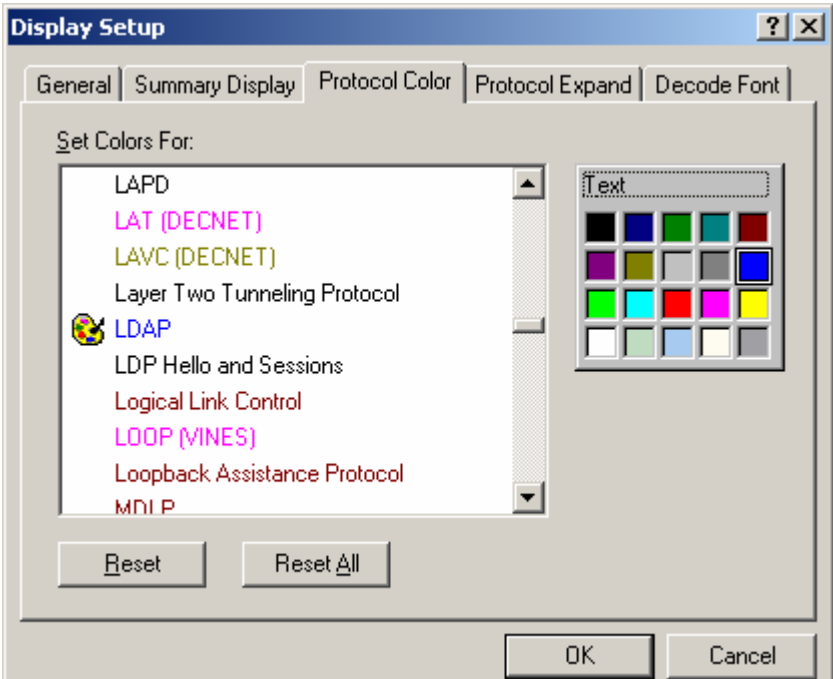


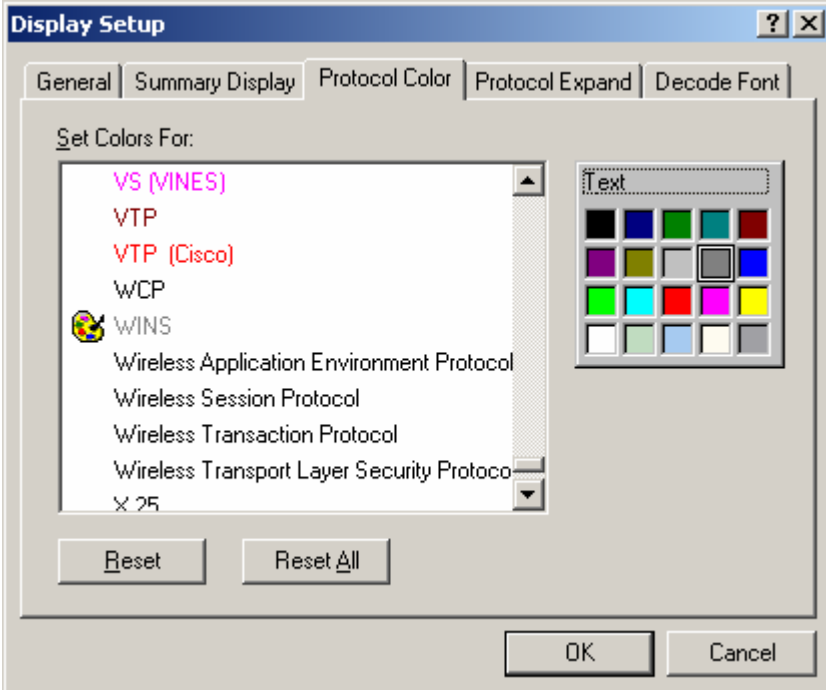
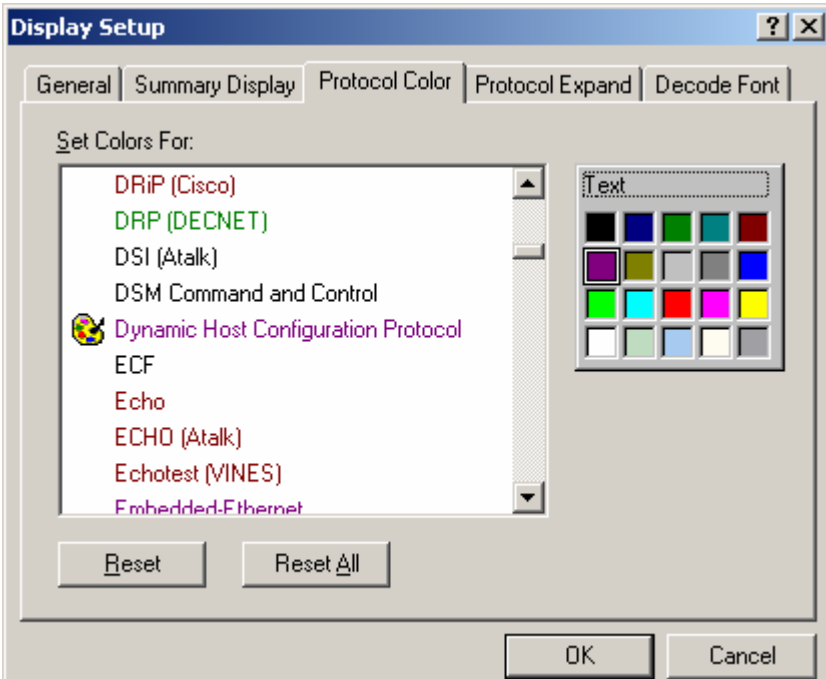
Enable Cumulative Bytes used with the Mark to gauge file transfer performance.

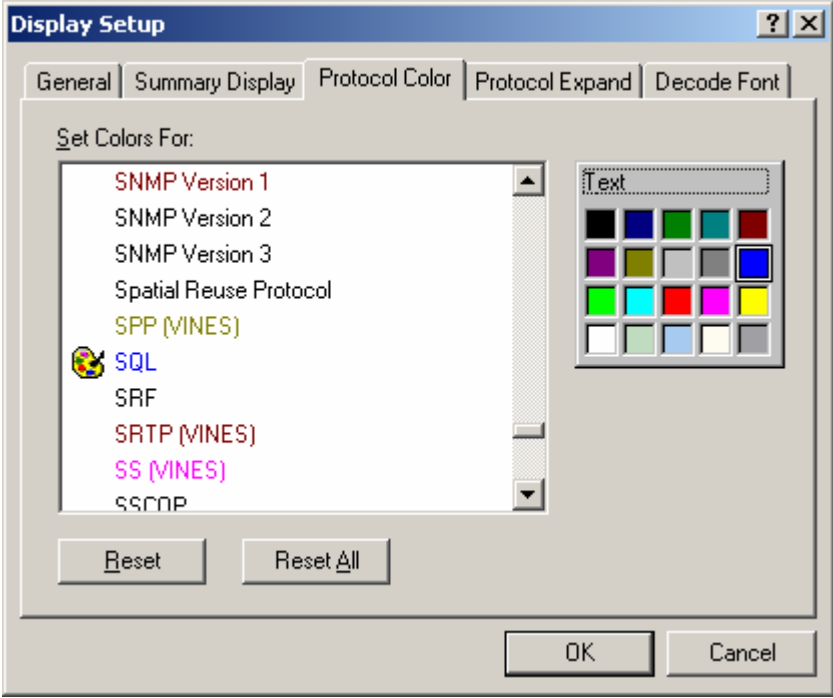
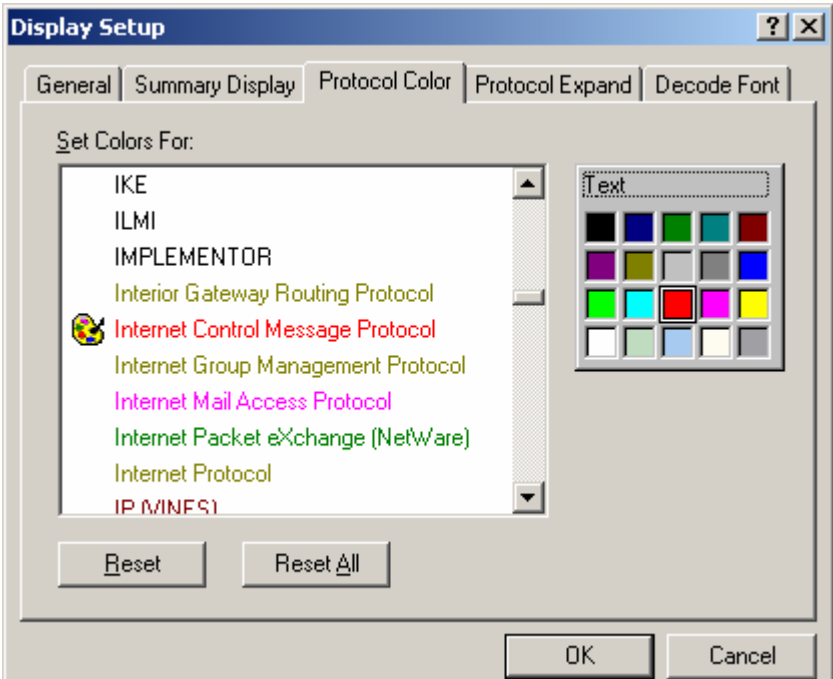


Change the protocol colors to ones that will visually stand out amongst its peers:

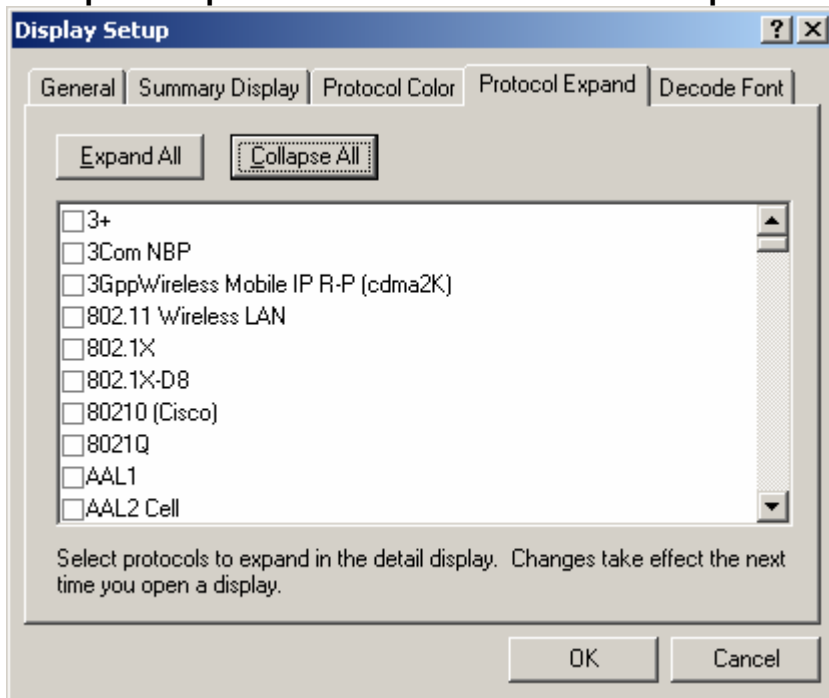




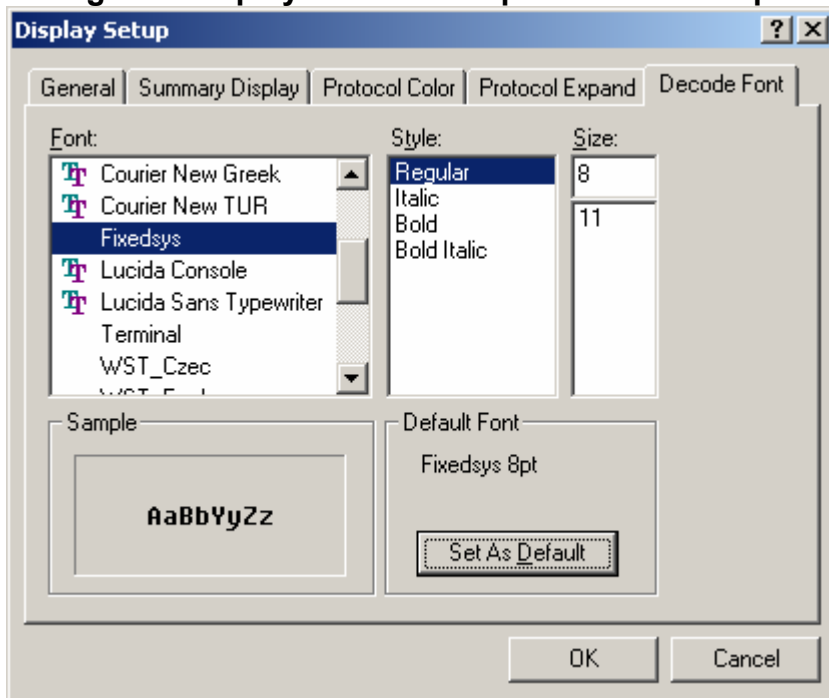




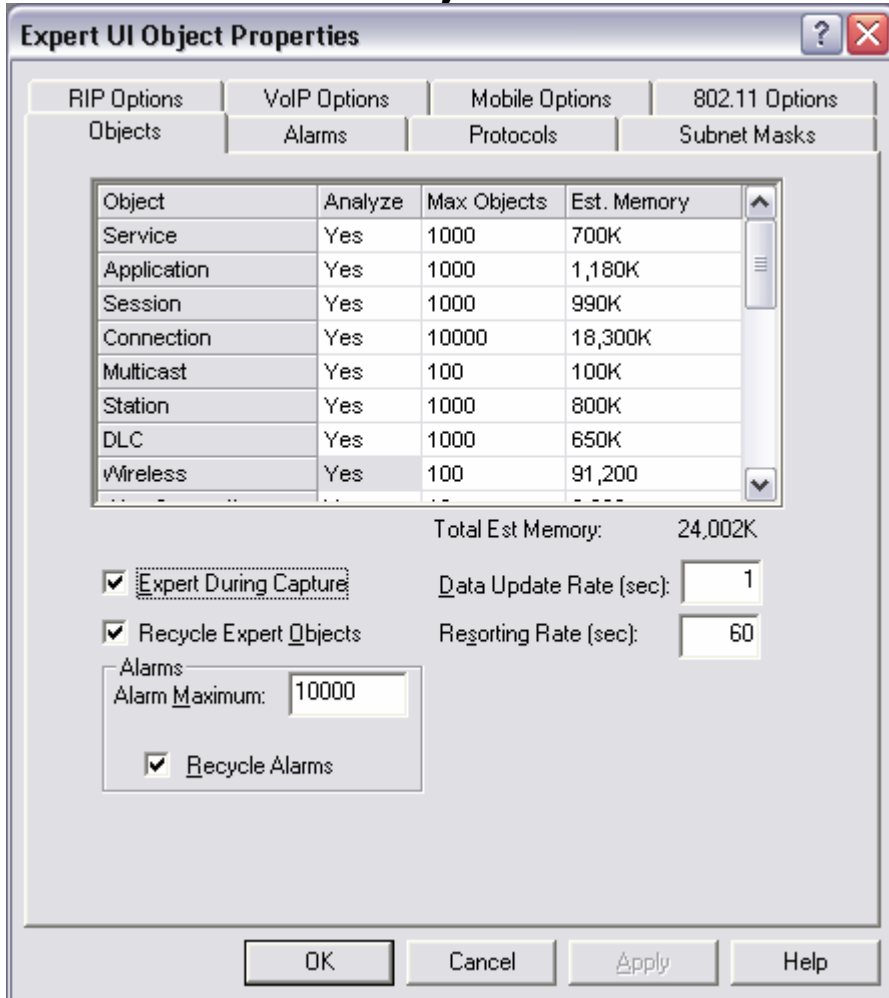
Collapse the protocol list in the decode Detail pane to permit faster viewing.



Change the display font to a crisper one that will permit longer viewing times. Set as Default.



Zero out the Wireless, WAN, and ATM *Max Objects* if you're Sniffing Ethernet. Wireless has been left at 100 below because this user opens Wireless traces on occasion. Decrease Class D Multicasts to 100, too. No point in wasting memory on resources that will probably not be used to their maximum. Increase Connection *Max Objects* to at least 5000. Increase to 10,000 on Infinistream.



Increase *Alarms Maximum* to at least 3000, especially if you're capturing from a Distribution or Core switch. Increase to 10,000 on Infinistream.



Adjust key Expert Object Alarms.

Expert UI Object Properties

RIP Options VoIP Options 802.11 Options

Objects Alarms Protocols Subnet Masks

0 1	Description	Value
	Severity	Minor
	Alarm Logged	No
	TCP Fast Keep-Alive Time (msec)	0
<input type="checkbox"/>	Too Many Retransmissions	10%, Critical/Diag
	Severity	Critical/Diag
	Alarm Logged	No
	Retransmission %	10
<input type="checkbox"/>	UDP Bouncing Frames	Critical/Diag, Logged
	Severity	Critical/Diag
	Alarm Logged	Yes
<input type="checkbox"/>	Window Frozen	5000ms, Minor
	Severity	Minor
	Alarm Logged	No
	Window Frozen Time	5000
<input type="checkbox"/>	Window Size Exceeded	Minor

Reset Reset All

OK Cancel Apply Help

Expert UI Object Properties



RIP Options

VoIP Options

802.11 Options

Objects

Alarms

Protocols

Subnet Masks

0	1	Description	Value
<input type="checkbox"/>		Window Frozen	5000ms, Minor
		Severity	Minor
		Alarm Logged	No
		Window Frozen Time	5000
<input type="checkbox"/>		Window Size Exceeded	Minor
		Severity	Minor
		Alarm Logged	No
<input type="checkbox"/>		Zero Window Too Long	5000ms, Critical/Diag, Loggec
		Severity	Critical/Diag
		Alarm Logged	Yes
		Zero Window Time	5000
<input type="checkbox"/>		Multicast	
<input type="checkbox"/>		Station	
<input type="checkbox"/>		DLC	
<input type="checkbox"/>		Wireless	

Reset

Reset All

OK

Cancel

Apply

Help

Expert UI Object Properties [?] [X]

RIP Options | VoIP Options | Mobile Options | 802.11 Options
Objects | Alarms | Protocols | Subnet Masks

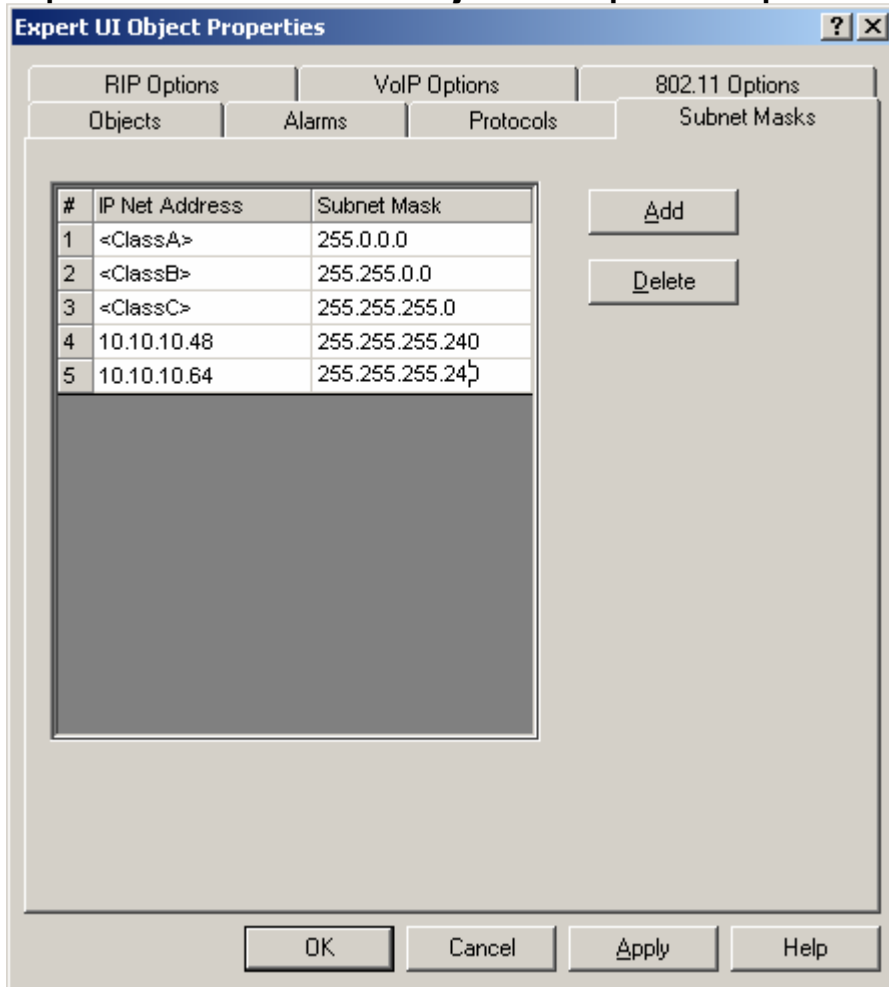
0 1	Description	Value
+	Service	
+	Application	
+	Session	
-	Connection	
-	Ack Too Long	200ms, Minor
	Severity	Minor
	Alarm Logged	No
	Long Ack Time	200
-	Fast Retransmission	100ms, Minor
	Severity	Minor
	Alarm Logged	No
	Fast Retransmission Time	100
-	GRE RP Interface Registration Failure	Major
	Severity	Major
	Alarm Logged	No

[Reset] [Reset All]

[OK] [Cancel] [Apply] [Help]

Add the subnet mask(s) only for the subnet you are attached to or SPANning/mirroring. Five symptoms and diagnoses are dependent upon the correct subnet mask(s) for the attached network.

Expert Overview's Subnet Objects is dependent upon this configuration, too.



Disable RIP if you use other routing protocols on the attached network segment.

Expert UI Object Properties [?] [X]

Objects | Alarms | Protocols | Subnet Masks

RIP Options | VoIP Options | 802.11 Options

[No traffic analysis (RIP disabled)]

Router:

Source	IP Address	MAC Address
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Add Router

Delete

Subnet:

Source	IP Subnet Address
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Add Subnet

Delete

Auto Discover Subnets

OK Cancel Apply Help

Change the Dashboard to suit a 100Mbps switched environment.

Dashboard Properties

MAC Threshold

	Name	High Threshold
1	Packets/s	126500
2	Utilization(%)	85
3	Errors/s	4
4	Drops/s	1
5	Octets/s	10625000
6	Broadcasts/s	1200
7	Multicasts/s	1200
8	Runts/s	4
9	Oversizes/s	1
10	Fragments/s	4
11	Jabbers/s	1

Monitor sampling interval: seconds

Reset
Reset All

OK Cancel

Dashboard Properties

MAC Threshold

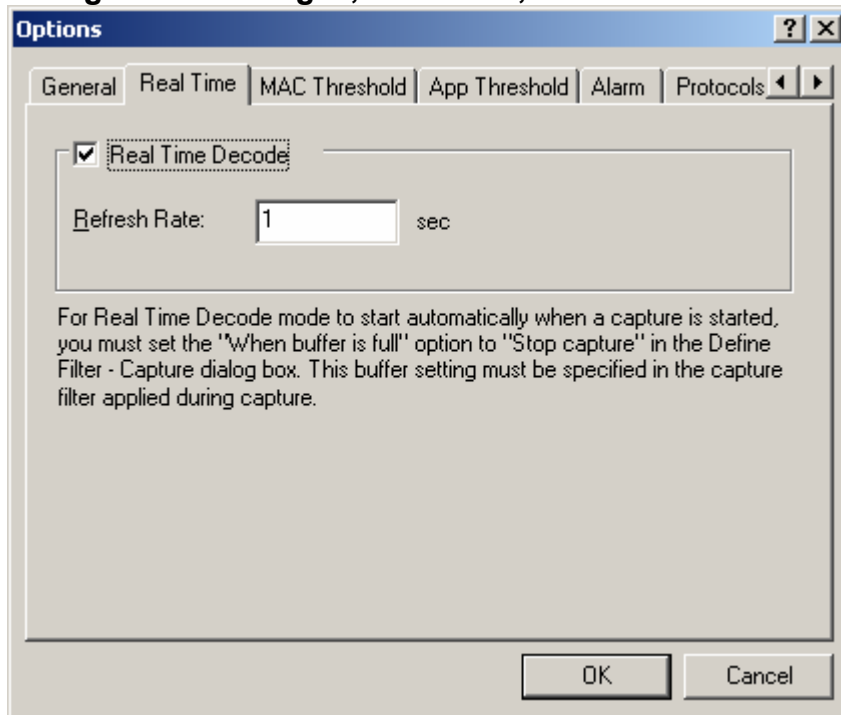
	Name	High Threshold
10	Fragments/s	4
11	Jabbers/s	1
12	CRCs/s	4
13	Alignments/s	4
14	Collisions/s	4
15	Under 64 Bytes/s	128000
16	65 - 127 Bytes/s	125000
17	128 - 255 Bytes/s	71800
18	256 - 511 Bytes/s	38500
19	512 - 1023 Bytes/s	20000
20	1024 - 1518 Bytes/s	10200

Monitor sampling interval: seconds

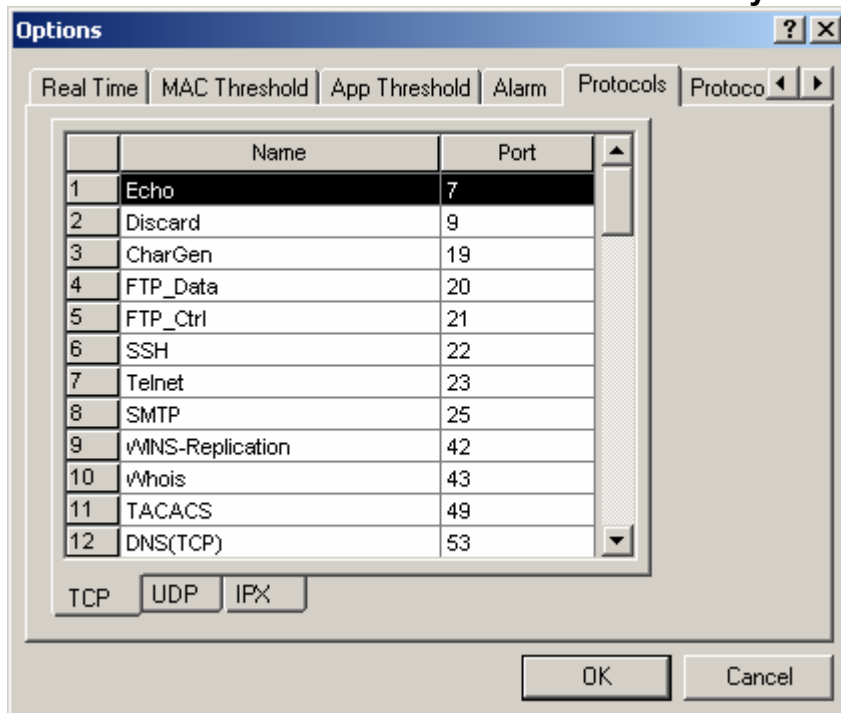
Reset
Reset All

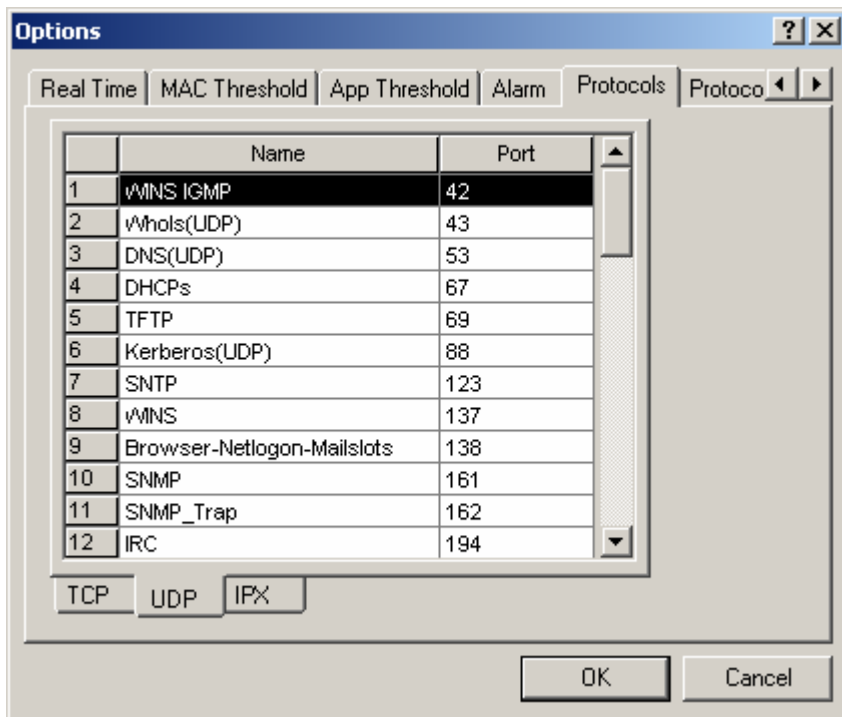
OK Cancel

Enable Real Time decodes if you need to see immediately see the results of your network configuration changes, otherwise, disable to save CPU cycles.



Replace the existing UDP/TCP protocols list with a more comprehensive one using weblink [http://www.networkhorizons.com/08-Analyzer Tweaks/Protocols/Protocols.xls](http://www.networkhorizons.com/08-Analyzer_Tweaks/Protocols/Protocols.xls)
There is a link to Microsoft for an Excel viewer if you don't have Excel.





Increase the minimum capture filter **Buffer Size** to 63MB from 8MB (max 384MB. Want more? use Infinistream).

Set **When Buffer is Full** to **Stop Capture** if troubleshooting, set to **Wrap Buffer** if running continuously.

