

**TCP/IP**



**Connecting The World**



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## EE Problem Finder

Many companies are implementing EE. Diagnosing problems and reading a trace with EE packets is a challenge because there are many headers in the embedded HPR/UDP protocol which is used by EE! Then, once EE is implemented, do you know how well it is working?

### Why EE Problem Finder ?

We have seen Enterprise Extender implementations with over 1/2 the RTP pipes idle for hours and transmitting overhead traffic! This is a waste of resources.

You may want to use EE Problem Finder to :

- > Find unneeded and idle RTP pipes
- > Find retransmissions on RTP
- > Find slowdowns or network congestion
- > Find response time problems

Eliminating unneeded traffic can save expensive mainframe CPU cycles and provide better service to the users.



### Save Diagnosticians Time



In complex diagnostics, allowing a way for the systems programmers to find patterns in the packets transmitted over the network is the key to solving the problems.

With EE, simply breaking out the protocols and segments (IP, UDP, LLC, NLP, ANR Labels, RTP, FID5 TH, RH ABR Pacing, Status, XID) can take hours.

EE Problem Finder not only breaks out the protocols but intelligently finds the problems and key items in each packet.

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### EE Problem Finder Reports

See below some sample reports produced by EE Problem Finder. EE Problem Finder can analyze EE traffic for unneeded data, idle RTP pipes, ABR Flow Control, RTP retransmissions, excessive Path Switches and much more.

Total Number of Packets	Total Number of Bytes	Number SNA Packets with Productive RU Data	Total SNA Productive Bytes (THRHRU)	Total Number of SNA THRH Only Packets	Number Packets ARB Pacing or Status Only
13,591	4,031,459	6K (45.84%)	2M (73.69%)	1K (12.29%)	5K (41.65%)

Source Port	Destination Port	TCID	DSAP	SSAP	ARB Mode	Message Type	Rate Adjustment	Rate Reply Correlator
12003	12003	1B0AF19800010197	04	08	Responsive	Reply	Slowdown - 25%	14
12003	12003	096B398600000476	04	08	Responsive	Reply	Slowdown - 25%	10

RTP: Byte Sequence Number: 1679BBF1 RTP: ARB Pacing: MessageType: Rate Reply RTP: ARB Pacing: RateAdjustment: Slowdown2 RTP: ARB Pacing: Parity:0 RTP: ARB Pacing: ARBMode: Responsive	NLP: SwitchingMode: 110 NLP: Transmission Priority: 10 NLP: TimeSensitive: 1  801A003601000000 D000000000000000	RTP: ARB Pacing: RateAdjustment: Slowdown2
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Number Packets Gap Indicators	Number Packets Keep Alive	Number Packets Slowdown 1	Number Packets Slowdown 2	Number Packets SNA RU Fragments	Number RTP Pipes	Number RTP Pipes No SNA Productive Packets
0 (0.0%)	229 (1.68%)	2 (0.01%)	44 (0.32%)	1K (20.79%)	606	449

