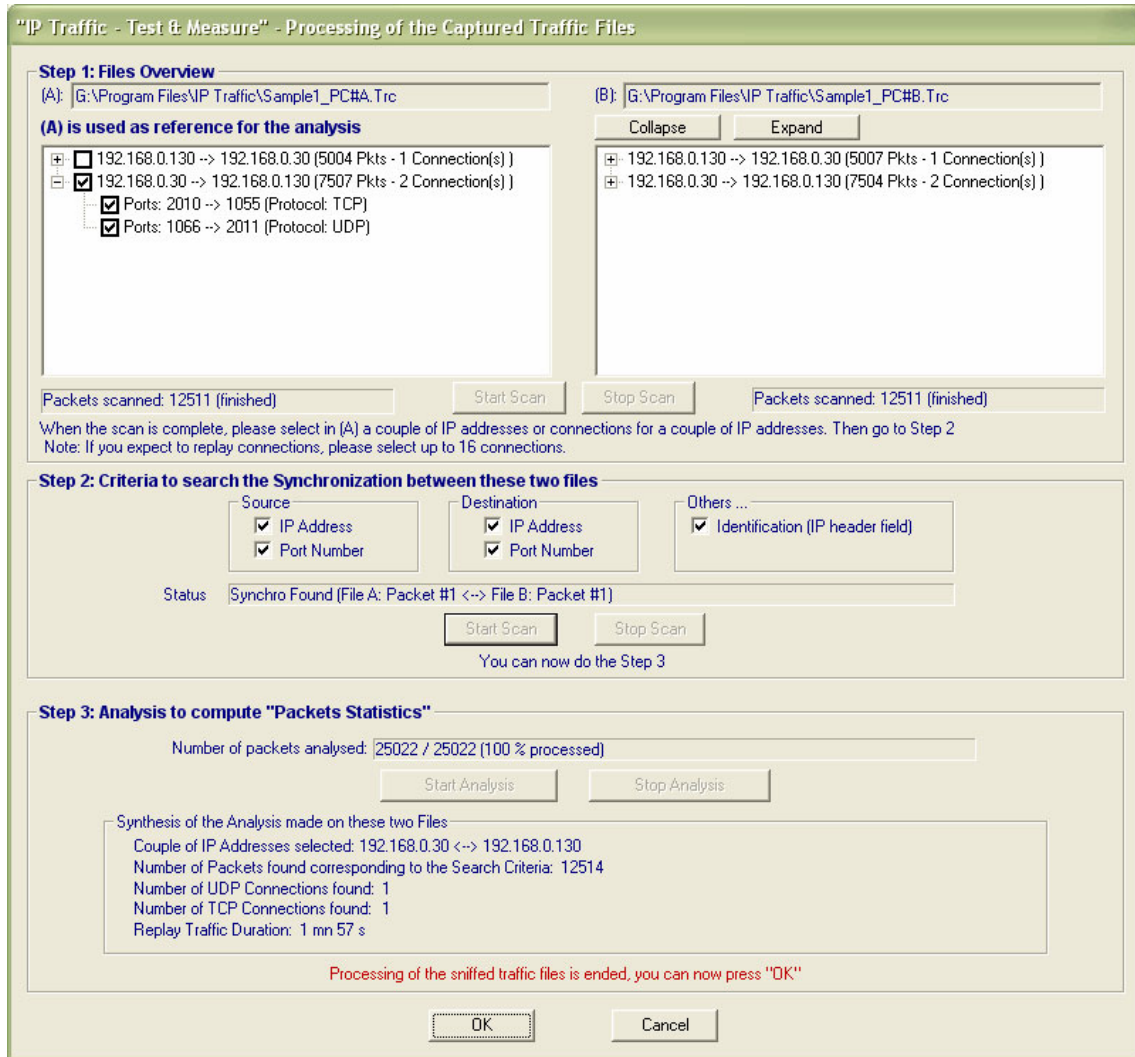


# IP Traffic Test & Measure

## Analysis of a Captured File



**"IP Traffic - Test & Measure" - Processing of the Captured Traffic Files**

**Step 1: Files Overview**

(A): G:\Program Files\IP Traffic\Sample1\_PC#A.Trc  
 (B): G:\Program Files\IP Traffic\Sample1\_PC#B.Trc

**(A) is used as reference for the analysis**

- 192.168.0.130 -> 192.168.0.30 (5004 Pkts - 1 Connection(s))
- 192.168.0.30 -> 192.168.0.130 (7507 Pkts - 2 Connection(s))
  - Ports: 2010 -> 1055 (Protocol: TCP)
  - Ports: 1066 -> 2011 (Protocol: UDP)

Packets scanned: 12511 (finished) [Start Scan] [Stop Scan] Packets scanned: 12511 (finished)

When the scan is complete, please select in (A) a couple of IP addresses or connections for a couple of IP addresses. Then go to Step 2  
 Note: If you expect to replay connections, please select up to 16 connections.

**Step 2: Criteria to search the Synchronization between these two files**

Source:  IP Address,  Port Number  
 Destination:  IP Address,  Port Number  
 Others ...:  Identification (IP header field)

Status: Synchro Found (File A: Packet #1 <-> File B: Packet #1)

[Start Scan] [Stop Scan]

You can now do the Step 3

**Step 3: Analysis to compute "Packets Statistics"**

Number of packets analysed: 25022 / 25022 (100 % processed)

[Start Analysis] [Stop Analysis]

Synthesis of the Analysis made on these two Files:

- Couple of IP Addresses selected: 192.168.0.30 <-> 192.168.0.130
- Number of Packets found corresponding to the Search Criteria: 12514
- Number of UDP Connections found: 1
- Number of TCP Connections found: 1
- Replay Traffic Duration: 1 mn 57 s

Processing of the sniffed traffic files is ended, you can now press "OK"

[OK] [Cancel]

- In the Step 1, IP addresses 192.168.0.30 → 192.168.0.130 are selected.
- In step 2, the synchronization criteria are set.
- After running step 3, the synthesis is displayed showing 1 TCP and 1 UDP connection.
- By using the "Packet Statistics" option, the results shown overleaf are displayed.



# IP Traffic Test & Measure

## Analysis of a Captured File

**Offline Packet Statistics**

Computer A ==> Computer B      Save ...      Computer B ==> Computer A

IP address of A: 192.168.0.30      IP address of B: 192.168.0.130

Time (UTC)	Sta...	Tra...	Port -> ...	IP size (pro...	Identi...	Time (UTC)	Sta...	Tra...	Port -> ...	IP size (pro...	Identi...
22:00:43.428	Sent	...	2010->1...	48 (TCP)	xD013	22:00:43.420	Sent	...	1055->2...	48 (TCP)	x6441
PC 22:00:43.451	Sent	0 (?)	2010->1...	40 (TCP)	xD014	PC 22:00:43.420	Sent	0 (?)	1055->2...	40 (TCP)	x6442
PC 22:00:43.490	Sent	0 (?)	2010->1...	40 (TCP)	xD015	PC 22:00:43.423	Sent	1 (?)	1055->2...	1500 (TCP)	x6443
PC 22:00:43.530	Sent	0 (?)	2010->1...	40 (TCP)	xD016	PC 22:00:43.442	Sent	1 (?)	1055->2...	1500 (TCP)	x6444
PC 22:00:43.570	Sent	0 (?)	2010->1...	40 (TCP)	xD017	PC 22:00:43.462	Sent	1 (?)	1055->2...	1500 (TCP)	x6445
PC 22:00:43.611	Sent	0 (?)	2010->1...	40 (TCP)	xD018	PC 22:00:43.481	Sent	1 (?)	1055->2...	1500 (TCP)	x6446
PC 22:00:43.651	Sent	0 (?)	2010->1...	40 (TCP)	xD019	PC 22:00:43.501	Sent	1 (?)	1055->2...	1500 (TCP)	x6447
PC 22:00:43.691	Sent	0 (?)	2010->1...	40 (TCP)	xD01A	PC 22:00:43.521	Sent	1 (?)	1055->2...	1500 (TCP)	x6448
PC 22:00:43.731	Sent	0 (?)	2010->1...	40 (TCP)	xD01B	PC 22:00:43.541	Sent	1 (?)	1055->2...	1500 (TCP)	x6449
PC 22:00:43.771	Sent	0 (?)	2010->1...	40 (TCP)	xD01C	PC 22:00:43.561	Sent	1 (?)	1055->2...	1500 (TCP)	x644A
PC 22:00:43.810	Sent	0 (?)	2010->1...	40 (TCP)	xD01D	PC 22:00:43.582	Sent	1 (?)	1055->2...	1500 (TCP)	x644B
PC 22:00:43.850	Sent	0 (?)	2010->1...	40 (TCP)	xD01E	PC 22:00:43.602	Sent	2 (?)	1055->2...	1500 (TCP)	x644C
PC 22:00:43.890	Sent	0 (?)	2010->1...	40 (TCP)	xD01F	PC 22:00:43.622	Sent	1 (?)	1055->2...	1500 (TCP)	x644D

Port -> Port(Prot...	Packets	Lost	% L...	Delay	Jitter	Port -> Port(Prot...	Packets	Lost	% L...	Delay	Jitter
Total Computer A	7507	3	0%	120 ms	1 ms	Total Computer B	5007	3	0%	8 ms	0 ms
1066 -> 2011 (UDP)	5000	3	0%	178 ms	1 ms	1055 -> 2010 (TCP)	5007	3	0%	8 ms	0 ms
2010 -> 1055 (TCP)	2507	0	0%	6 ms	0 ms						

In this example, 3 UDP packets have been lost and the transit delay has an average of 178 ms for the UDP connection. 3 TCP packets sent by PC #B have been lost and the average transit delay is 7 ms.

