- Jitter Measurement -
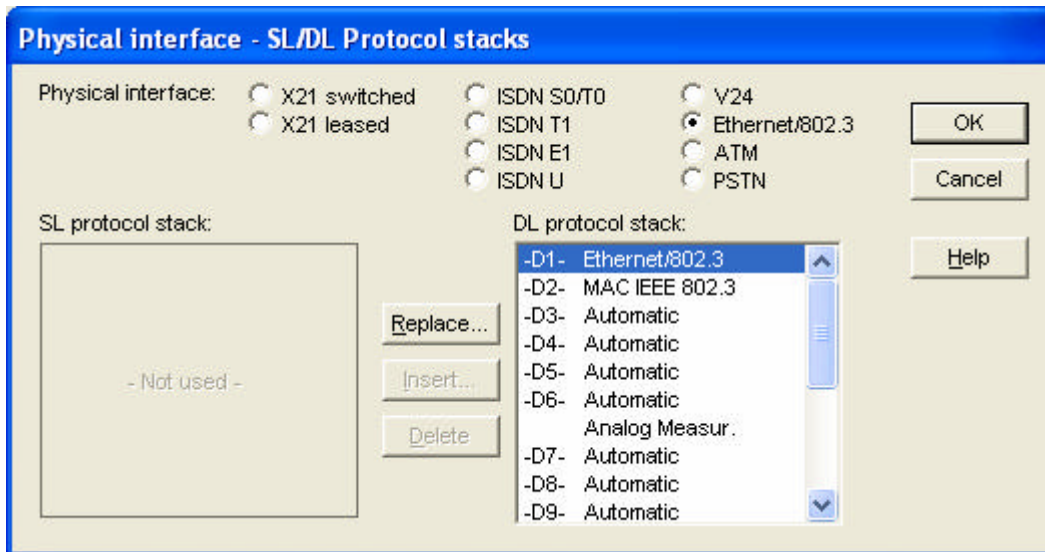
This application note describes how to measure Jitter and to use statistics on Jitter values.

1. *Create a Protocol Filter file from template "lan_auto_rtp_analog.acf"*

To protocol stack is initialized as follow:

If recording of wav file is not required, change settings in the Analog Measurement tab to remove recording option. Recording of the file could reduce performance in case of traffic generation, and this creates a lot of wav files if several RTP ports are active. The "Mode" must be "One-Time" or "Continuous", PSQM and PESQ not selected.
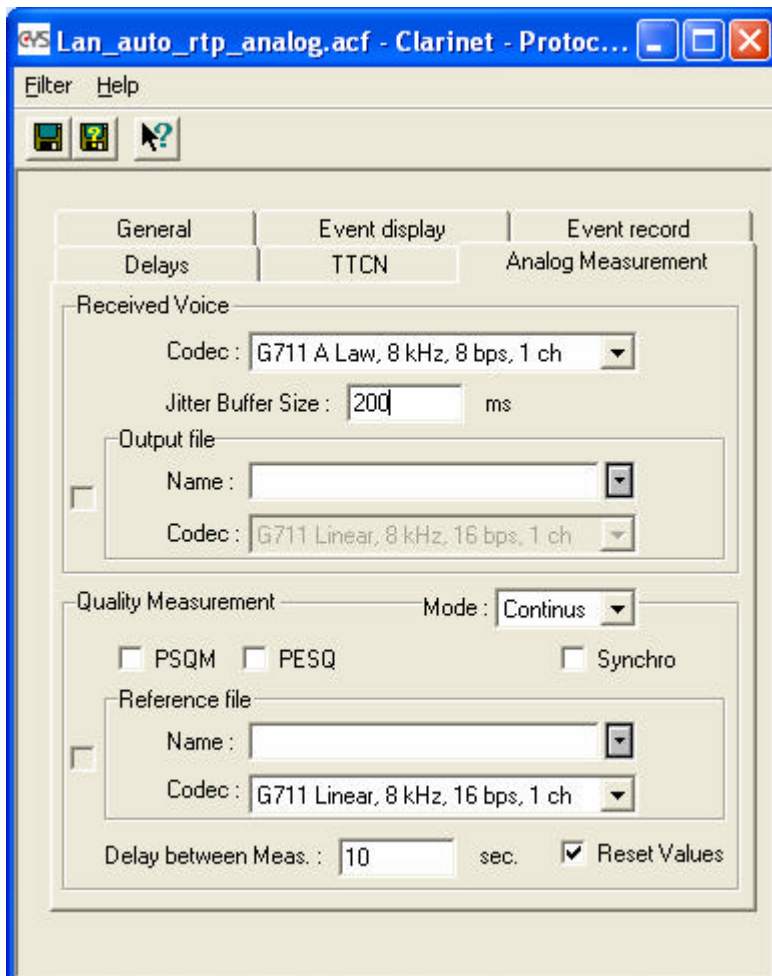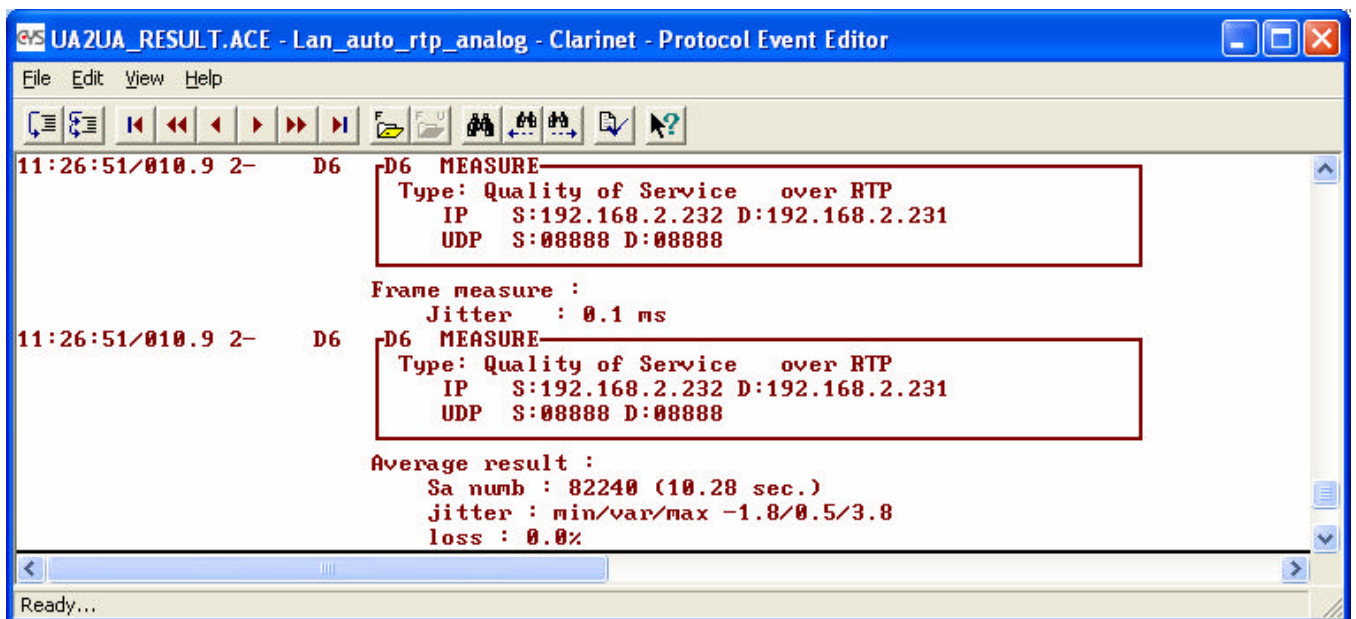
2. *Apply this Protocol filter Off-Line or On-Line*

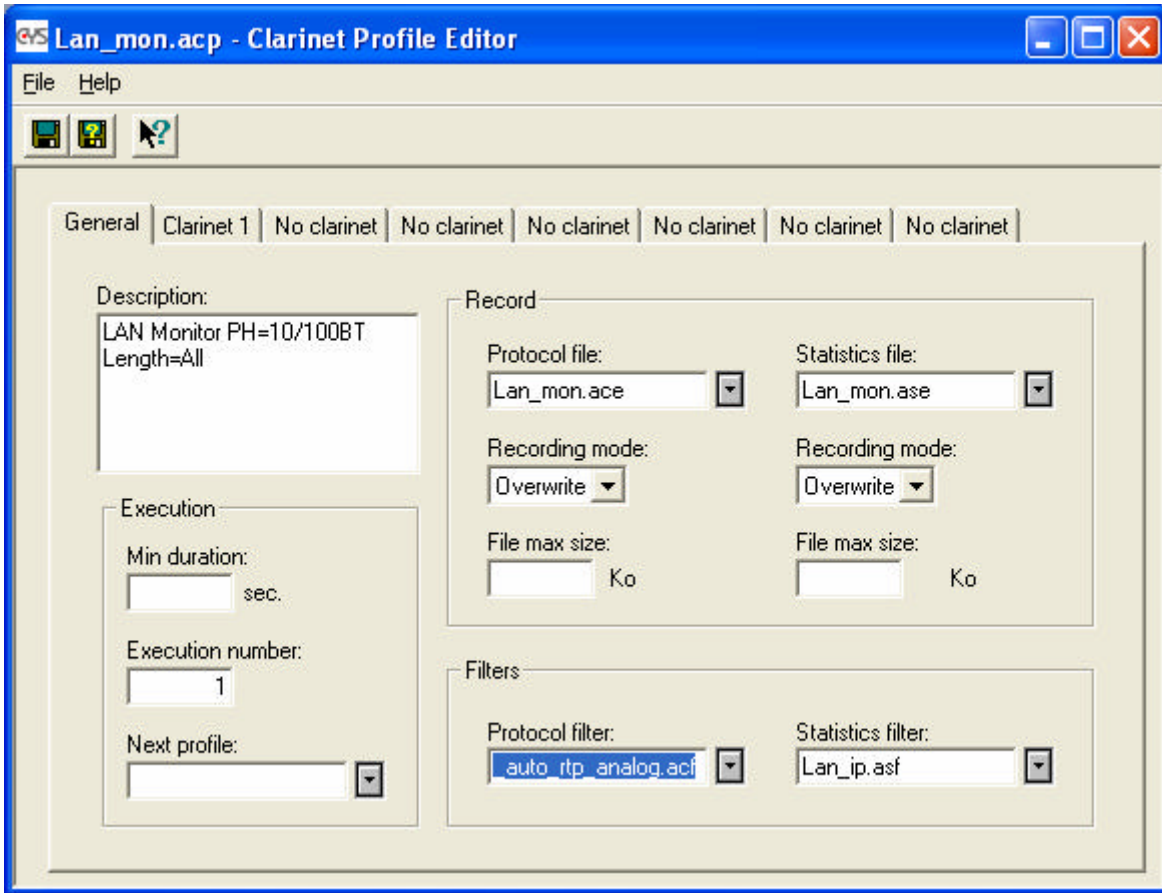### 2.1 *Off-Line: run the Protocol filter with a recorded Event file*
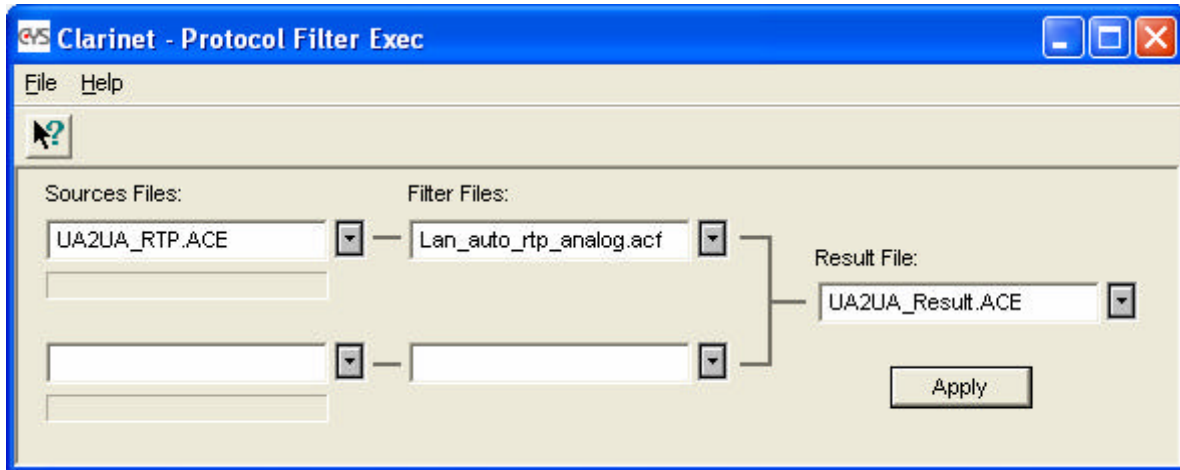
The result is written in file UA2UA_Result.ace. The RTP Measurement events, that can be filtered using Display action, are displayed as follow:
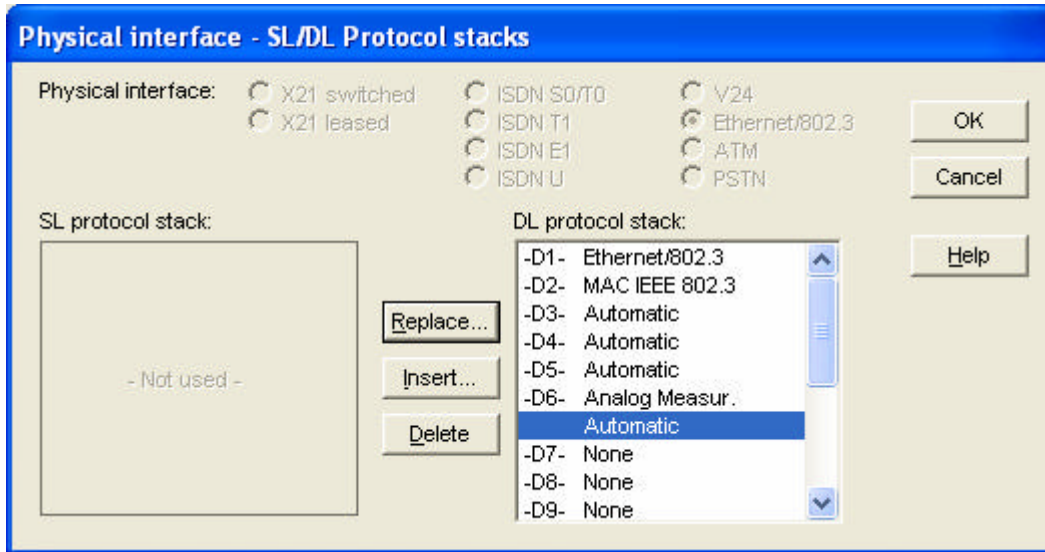
2.2 *On-Line: select the Filter name in the Profile Editor "General" tab*

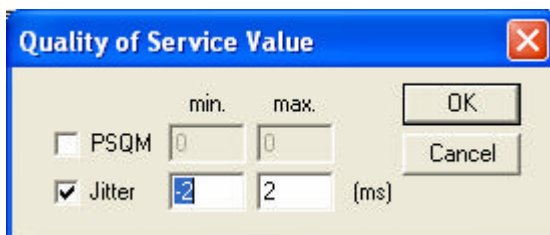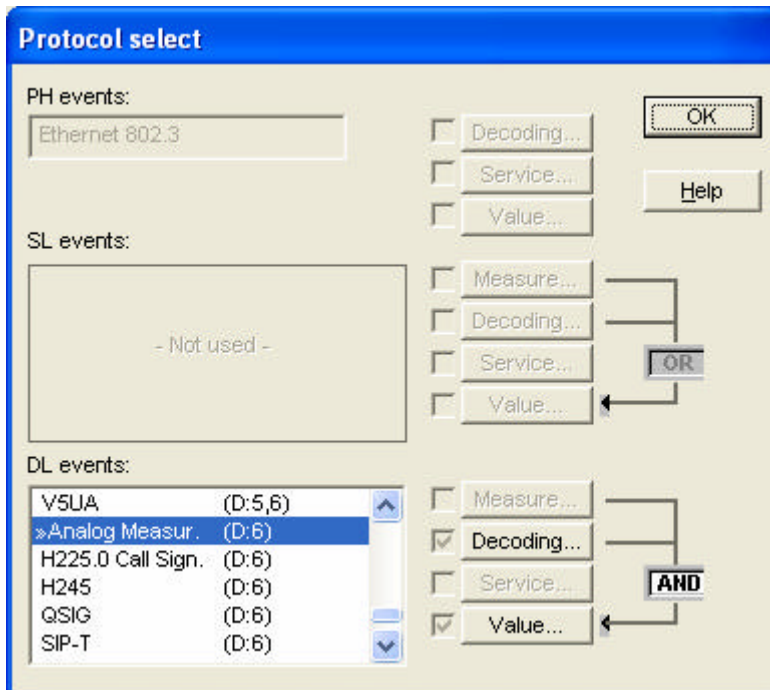This Filter will be applied when recording events On-Line:

3. *Create a Statisticl Filter file from template "lan_ip.asf"*

The protocol stack must be initialized as the Protocol Filter stack:

Then counters must be defined to count Jitter events in different value ranges:

For example, counters can be initialized for the following values:

- 0 < jitter < 1

- 1 < jitter < 5

- …

- 20 < jitter < 999

A counter can also be used to count the total number of Jitter events: