

OsmoMGW - Bug #3849

race condition problem in rtp flow tests of the ttcn3 testsuite

03/18/2019 04:53 PM - dexter

Status:	New	Start date:	03/18/2019
Priority:	Normal	Due date:	
Assignee:	dexter	% Done:	0%
Category:			
Target version:			
Description			
<p>The TTCN3 tests that test actual RTP flow behavior through the MGW are prone to fail due to a race condition. The problem occurs when the RTP receiver in the test suite is switched off while at least one packet is still in the loop. When the packet eventually arrives the following error is generated:</p>			
<pre>RTP packets received while RX was disabled MGCP_Test.ttcn:1424 MGCP_Test control part MGCP_Test.ttcn:1364 TC_ts101318_rfc5993_rtp_conversion testcase</pre>			
<p>The problem is presumably more likely to occur when the test slave is under high load. Since all RTP tests are using the same API and work by the same principle all of those tests are prone to fail from time to time:</p>			
<pre>TC_one_crcx_loopback_rtp TC_one_crcx_receive_only_rtp TC_rtpem_selftest TC_ts101318_rfc5993_rtp_conversion TC_two_crcx_and_one_mdcx_rtp_ho TC_two_crcx_and_rtp TC_two_crcx_and_rtp_bidir TC_two_crcx_and_unsolicited_rtp TC_two_crcx_diff_pt_and_rtp TC_two_crcx_diff_pt_and_rtp_bidir TC_two_crcx_mdcx_and_rtp</pre>			

History

#1 - 05/28/2019 12:04 PM - dexter

- Assignee set to dexter

#2 - 05/28/2019 01:52 PM - laforge

On Tue, May 28, 2019 at 12:04:55PM +0000, dexter [REDMINE] wrote:

The TTCN3 tests that test actual RTP flow behavior through the MGW are prone to fail due to a race condition. The problem occurs when the RTP receiver in the test suite is switched off while at least one packet is still in the loop.

Shouldn't it be sufficient to implement the following sequence?

- first disable the transmitter
- wait for some time
- then disable the receiver