Updates on RMCAT test cases

Xiaoqing Zhu Zaheduzzaman Sarker

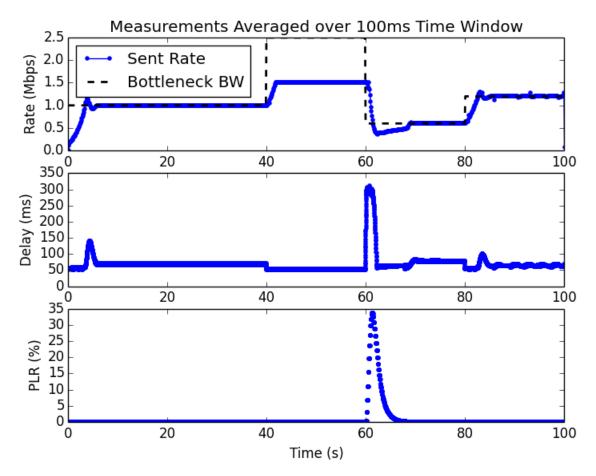
draft-ietf-rmcat-eval-test-02

- Two major changes
 - Introduced reference bottleneck capacity
 - Any kind of time varying bottleneck is now described with respect to the reference bottleneck
 - Introduced new way of varying path capacity
 - Along with changing the path capacity one can now use non-adaptive UDP stream to fill the path and create bottleneck.
- Other changes
 - Updated reference list

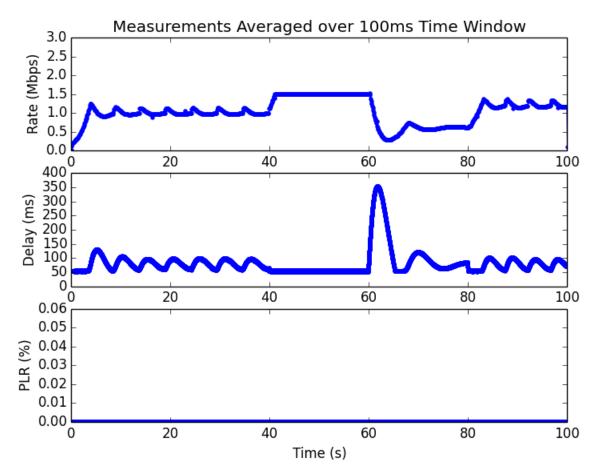
Methods for Simulating Time-Varying Path Capacity

- Time-varying physical link capacity
 - For a fixed queue length in bytes or # of packets, change in link capacity leads to change in maximum queuing delay
 - Challenging for testing low-capacity links or low-delay AQM schemes (e.g., PIE and CoDel targeting for 20ms)
 - E.g.,10 packets@1000B => 400ms of queuing delay at 200Kbps
- Time-varying background UDP traffic
 - Fixed physical link capacity at C
 - Time varying background traffic at R_BG(t)
 - Available bandwidth for RMCAT flows: BW(t) = C-R_BG(t)
 - Constant bottleneck queue depth in terms of delay and bytes

Test Case 5.1 Result on NADA w/ Time-varying Physical Link Rate



Test Case 5.1 Result on NADA w/ Time-varying UDP Background Traffic

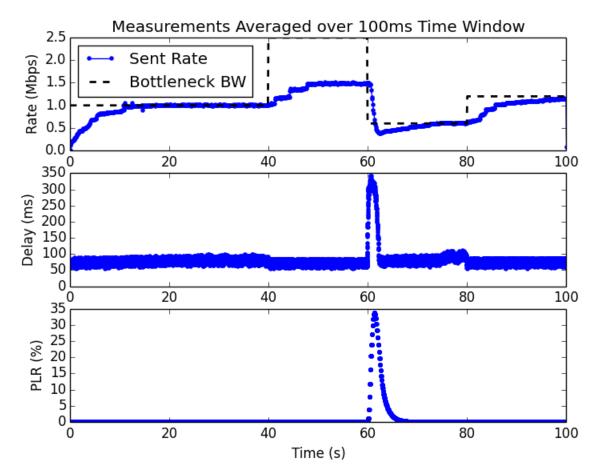


<u>draft-ietf-rmcat-wireless-tests</u>

- New version merged in Wi-Fi test cases from <u>draft-fu-rmcat-wifi-test-case-01</u>
 - Will submit during the week of IETF-94 meeting
- Restructured Wi-Fi test case descriptions to follow a framework similar to wired and cellular test cases:
 - Common network topology
 - Test attributes along with default parameters
 - Typical test scenarios and expected behavior

Backup slides

Test Case 5.1 Result on NADA w/ Time-varying Physical Link Rate



Test Case 5.1 Result on NADA w/ Time-varying UDP Background Traffic

