HP MSM Controller performance

V0.1

December 17, 2015

Claim substantiation

Below is a summary of performance testing done with the HP MSM700 series controllers. Testing was done in the HPE lab using the following configuration:

- Single controller running V6.6.2.0_22792 software
- 7 access points (APs)
- 300 wireless clients
- Downstream UDP traffic
- 1518 byte packets

MSM720 W/6.6.2.0_22792				**MSM760 W/6.6.2.0_22792**				**MSM775 W/6.6.2.0_22792**			
Bandwidth (Mbps)	%CPU0	%CPU1	%Loss	Bandwidth (Mbps)	%CPU0	%CPU1	%Loss	Bandwidth (Mbps)	%CPU0	%CPU1	%Loss
Reaching 0.7% of loss											
433	38	100	0.4	920	87	3	0.9	2,590	100	3	0.2
10 Gbps											
443	45	100	95.5	947	92	2	90.5	2,637	100	5	73.6

Distributed forwarding has been disabled, so that the traffic must flow through the WLAN Controller.

The table above shows downstream traffic from the network, through the WLAN controller, to the AP and then to the end WLAN client device. Upstream performance will be similar on the MSM760, while less on the MSM720 and MSM775zl as the controllers have been optimized for downstream traffic as this is the typical direction of WLAN traffic.

Testing was done to ensure no more than 0.7% packet loss in the first set of tests and in the second set of tests, traffic was sent un-throttled at 10 Gbps to get the best case forwarding ability.

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