

# HTTPS Impact on V5000 G2 v7.5.0 Performance

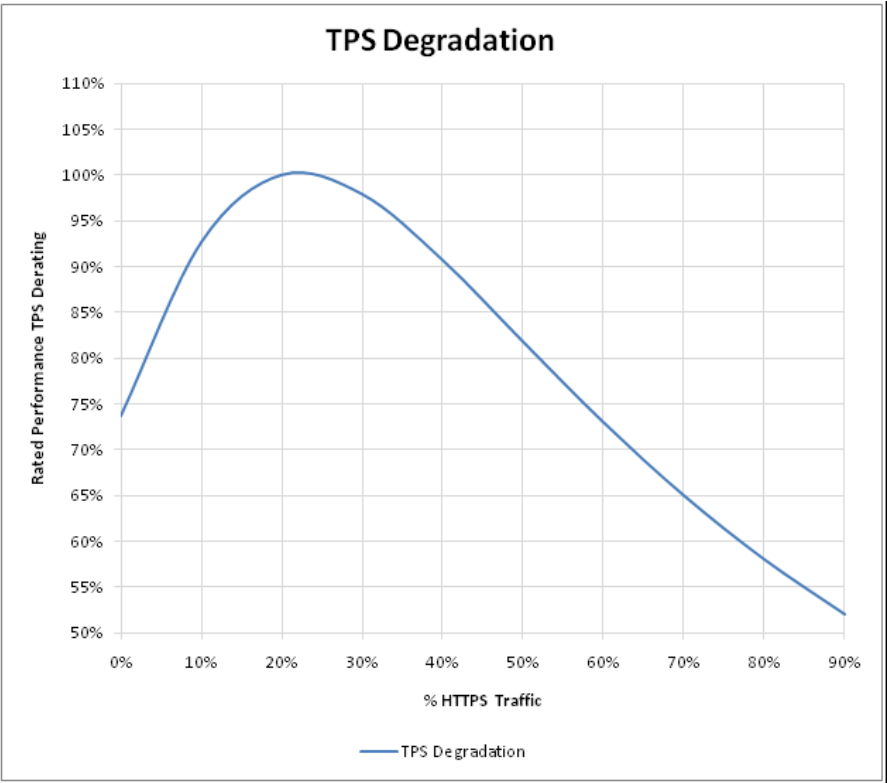
Topic 56102 / Updated: 20-December-2010

<b>Applies To:</b>	Websense V5000 G2 v7.5 Websense Content Gateway v7.5
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The Websense V5000 G2 supports inspection of HTTPS traffic when that traffic is routed through the Websense Content Gateway module.

In many networks, the level of HTTPS traffic, as measured by the percentage of HTTP requests which use SSL, is at roughly 24%. At this level, the Websense V5000 G2 can operate at the Rated Performance level specified in the product data sheet. As the amount of HTTPS traffic changes however, the Rated Performance level cannot be maintained due to the increased processing demands of HTTPS traffic inspection (for increased HTTPS traffic) or due to architectural limitations within the HTTP proxy (for decreased HTTPS traffic).

The graph below illustrates near-linear degradation that occurs as the amount of HTTPS traffic exceeds 24%, and the significant change that can happen as the HTTPS traffic level is lowered below 24%.



To ensure that the V5000 G2 performance is understood in an environment with more than 24% HTTPS traffic by requests, determine the level of HTTPS traffic expected in the customer environment, and multiply the Rated Performance level by the corresponding Rated Performance TPS Derating value.

For example, assume the Rated Performance of the V5000 G2 in a particular configuration is listed as 500 TPS in the product data sheet, and the customer environment expects to have 80% of their HTTP requests be encrypted. Locate the 80% "% SSL Traffic" mark on the graph above, and note that it indicates a 58% TPS derating. To find the expected TPS of the V5000 G2 in that particular traffic environment, simply multiply the Rated Performance of 500 TPS by 58%, resulting in an expected TPS of 290. This 290 TPS result should then be used for any further sizing calculations.