## How is calculated the SMTP Policy Quota Counter?

## PROBLEM

How is calculated the Quota Counter on messages? I see decimal values on counters tracking message count, how is it possible?

## **SOLUTION**

The counter is incremented as follows, as a new message is tracked:

- 1. Read actual Counter value from DB
- 2. ElapsedTime = Now LastUpdate
- 3. IF ElapsedTime > Period (the one defined for the quota rule) THEN CurrentCounter = 0
- ELSE CurrentCounter = ( 1 (ElapsedTime / Period) ) \* Counter
- 4. Delta = CurrentCounter Counter
- 5. Increment CurrentCounter
- 6. IF CurrentCounter > Limit THEN
- 7. DBValue += Delta (+1)

Consider the following example, starting from a DB Counter of 8 with a time frame of 300 sec :

Counter = 8 ElapsedTime = 13:29:57 - 13:26:22 = 215 CurrentCounter = (1 - (215 / 300)) \* 8 = 2.27 Delta = 2.27 - 8 = -5.73 \* \* allow mail .... CurrentCounter (+1) < Limit \* \* DBValue += -5.73 (+1) = 3.27