Table 1: Summary of models for system-wide traffic demand variables.

Modeled variable	Model	Probability Density Function (PDF)	Parameters
Session arrival	Time-varying Poisson with rate $\lambda(t)$	N: # of sessions between t_1 and t_2 $\lambda = \int_{t_1}^{t_2} \lambda(t)dt$, $Pr(N = n) = \frac{e^{-\lambda}\lambda^n}{n!}$, $n = 0, 1, \ldots$	Hourly rate: 44 (min), 1132 (max), 294 (median)
AP of first association/session	Lognormal	$p(x) = \frac{1}{\sqrt{2\pi} x \sigma} \exp\left(-\frac{(\ln x - \mu)^2}{2\sigma^2}\right)$	$\mu = 4.0855, \sigma = 1.4408$
Flow interarrival/session	Lognormal	Same as above	$\mu = -1.3674$, $\sigma = 2.785$
Flow number/session	BiPareto	$p(x) = k^{\beta}(1+c)^{\beta-\alpha} x^{-(\alpha+1)} (x+kc)^{\alpha-\beta-1} (\beta x + \alpha kc)$, $x \geq k$	$\alpha = 0.06, \beta = 1.72,$ $c = 284.79, k = 1$
Flow size	BiPareto	Same as above	$\alpha = 0.00, \beta = 0.91,$ $c = 5.20, k = 179$