



EntegrOS Smart Client Savings Calculator

Entegros Smart Client Purchase, TCO, & Environmental Impact Calculator

QUESTIONS			
How many seats do you plan to deploy?			A
How much do you pay for a Fat Client (PC) (include monitor, keyboard, mouse, software)?			B
5-year same-day service contract for a Fat Client (PC) costs ~ \$250. How much do you pay?			C
Average Fat Client (PC) electricity consumption (watts).	300		D
How many hours per day will the systems be used?	8		E
How many days per year will the systems be used?	250		F
Average electricity cost in the USA per kWh is:	\$0.15		G
ENTEGROS SMART CLIENT CONSTANTS (Prices subject to fluctuation)			
Entegros Smart Client Users per server	800		H
Entegros Smart Client Cost per server	\$3,000		I
Entegros Smart Client Hardware Cost	\$399		J
Entegros Smart Client License	\$50		K
Entegros Smart Client Watts used per Entegros Smart Client (Average)	30		L
ACQUISITION COST COMPARISON			
Acquisition cost of an all-Fat Client (PC) deployment (no Entegros Smart Client)	(A*B)		M
Acquisition cost of an Entegros Smart Client deployment consists of:			
1) Entegros Smart Client Server(s) Required	(A/H)*I		N
2) Entegros Smart Client Hardware	(A*J)		O
3) Entegros Smart Client Licenses	(A*K)		P
Total Acquisition cost of an Entegros Smart Client deployment (incl Server)	(N+O+P)		Q
Savings by deploying Entegros Smart Client will be in Dollar Terms	(M-Q)		
5-YEAR COST OF OPERATION COMPARISON			
Fat Client (PC) Deployment			
Acquisition Cost	(M)		R
Same-day service contract	(A*C)		S
Electricity	(A*450)		T
Total	(R+S+T)		U
Entegros Smart Client			
Acquisition Cost	(Q)		V
Same-day service contract	(A*K)		W
Electricity	(T/10)+((Round (A/H)*450)		X
Total	(V+W+X)		Y
Savings by deploying Entegros Smart Client will be in Dollar Terms	(U-Y)		Z
Monthly electricity savings	(T-X)/60		AA
Electricity savings alone will pay for Entegros Smart Client in this many months	(Y/AA)		
ADDITIONAL SAVINGS			
Cost to replace Fat Clients (PCs) in an all-Fat Client (PC) solution after 5 years	(A*B)		AB
Cost to replace Entegros Smart Client servers in 5 years time	(N)		AC
Total Savings over 6 years	Z+(AB-AC)		
ENVIRONMENTAL SAVINGS BY DEPLOYING ENTEGROS SMART CLIENT (5 YEAR)			
Equivalent gallons (U.S.) of gasoline saved per seat (approx)	73.71		
Equivalent sacks of coal saved per seat (approx)	6		
Reduced metric tons of carbon dioxide emissions per seat (approx)	2.106		
Equivalent number of trees planted to offset CO ₂ emissions per seat (approx)	10.125		
Kilos of e-waste saved upon disposal per seat (approx)	8.6		
Conversion factors, specifications and sources			
Gallons (U.S.) of gasoline/petrol equivalent per 1,000 kWh (source: http://www.onlineconversion.com/energy/html)	27.3		AD
Metric tons of coal equivalent in 1,000 kWh (source: http://www.onlineconversion.com/energy)	0.123		AE
Metric tons of CO ₂ per 1,000 kWh (source: http://www.epa.gov/cleanenergy/energy-resources/calculator.html)	0.78		AF
# of trees grown for 10 yrs per 1,000 kWh (source: http://www.epa.gov/cleanenergy/energy-resources/calculator.html)	3.75		AG
Weight of typical Fat Client (PC) in kg	9.6		
Weight of Entegros Smart Client in kg	1.00		
Cost of USA electricity (source: http://www.eia.doe.gov/cneaf/electricity/epm/table5_6_a.html)			
Monitor electrical usage will be same, so it is not included. Results will vary with deployment scenario and is not guaranteed.			

For electronic version of this calculator, visit <http://www.entegros.com/calculator>

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