Endpoint TCO utilizing IGEL OS for Windows 11 Migrations

Document purpose

This document aims to help customers understand the full spectrum of Total Cost of Ownership (TCO) savings possible when adopting IGEL as their endpoint solution.

Rationale

The true TCO of an endpoint solution is influenced by numerous factors, many of which are not immediately obvious but can be significantly costly. These factors fall into five main categories: risk reduction through improved security, sustainability, software cost savings, hardware savings, and labour savings.

Endpoint totals

TCO calculations often involve the percentage of the company's devices converting to IGEL. For instance, the risk of a ransomware attack decreases proportionally with the reduction of endpoints running Windows. If 50% of the endpoints switch to IGEL, the risk reduction discussion starts at 50%. Consequently, ransomware risk should be a component of your TCO calculation.

Windows 11 impact

Not all customer endpoints are compatible with Windows 11. According to research , between 32% and 42% of work-stations are not compatible with Windows 11. Microsoft recommends replacing these with new hardware. IGEL can transform these devices into fully functional endpoints running Windows 11 remotely via VDI or DaaS utilizing Microsoft

AVD or Cloud PC, Citrix, Omnissa, Parallels and other desktop virtualization solutions, eliminating the need for new hardware purchases. This not only reduces CAPEX but also positively impacts ESG costs, given that 94% of a device's carbon costs are incurred during production and delivery.

Extra security and management software costs per endpoint

IGEL endpoints do not require additional software security and management add-ons such as Endpoint Protection (EPP), anti-virus (AV), or Data Loss Prevention (DLP). Eliminating these costs contributes to TCO reduction.

Current IT department costs

IGEL systems are simpler to configure, manage, use, and adjust, resulting in fewer helpdesk calls, lower endpoint confi-guration and security costs, and reduced training time.

Sustainability

IGEL OS has been proven to reduce power consumption by at least 22%. Further savings can be achieved by enforcing endpoint policies for standby and power-off. Extending your endpoint hardware refresh cycles also reduces annual e-waste production.

Risk

The risk of data breaches and ransomware attacks is significantly reduced by using IGEL endpoints, which operate on a read-only, encrypted operating system with no local data storage.

Example

Taking a customer with:

	laptops	desktops	thin clients
Endpoints	2000	2000	2000
Converting to IGEL	2000	2000	2000
Purchase costs	1000	800	600
Current Lifecycle	4 years	4 years	4 years
IGEL Lifecycle	6 years	6 years	6 years
Weight of device	3 kg	10 kg	1.5 kg
Imaging costs	10		
Software costs inc. security agents	250		
% endpoints NOT Win 11 compatible	40		

In this scenario using IGEL rather than Windows 11 would give a
1. Minimum reduction of 99,500 kWh per year
2. Minimum 2,400 kg less e-waste per year
3. Minimum $2.5M software savings

N.B. There are many other savings that are calculable in the TCO calculator

Conclusion

Adopting IGEL as your endpoint solution can lead to substantial TCO savings across multiple categories. These savings are driven by reduced risk, enhanced sustainability, software and hardware cost reductions, and lower labour expenses. By understanding and calculating these factors, you can make an informed decision that not only optimizes your financial investment but also supports your organization's security and sustainability goals.