

Retail Stores vs. Transversal Contract

Considerations for ICT Procurement



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Technology Advisory Services (TAS)
February 2020

Summary of Research Findings

- ❖ Research Report: *Procuring ICT Products from Retail Stores vs. Transversal Contracts*
- ❖ Commissioned by GITOC in 2010, revised 2017 and 2020

Government requirement / value-add	Retail	Contract
Enterprise-focussed system with Professional OS, system management, asset tracking, built-in security, anti-theft		
Stable, reliable, high-quality platform with long lifespan, 3-year on-site SLA and focussed services		
Low Total Cost of Ownership		
Enterprise software options such as OEM preloads, support for system image roll-outs, encryption and system restore		
On-site delivery, installation, support and maintenance, training		
Certified OS compatibility and ISO manufacturing quality		
Value-added components included in price, including carry bag, security locks, software, cables		
SITA certification as per Government regulations (MIOS)		
Support for BEE, PPPFA and other SA economic imperatives		

Cost factors in ICT procurement

- ❖ Constitution mandates **cost-effectiveness**, not cheapness
 - Cost \neq Price – i.e. **Total Cost of Ownership** focus
- ❖ Transversal contract TCO features:
 - Complete solution (Pro OS, carry bag + lock)
 - 3-year on-site SLA with next-business day **repair**
 - Better security (encryption, remote wipe option, security clearance for technicians, no leaks during repair)
 - Stable, manageable platform with asset tracking and data protection options
 - OS options: Windows 10 Pro, Linux
 - Win10 Home cannot connect to Domain (AD)
 - Standard configurations with pre-built disk images for mass roll-out
 - No preloaded trialware/crapware/spyware



Additional considerations

- ❖ Windows Pro + minimum accessories bundle = **~R3000 extra**
- ❖ 3-year warranty + on-site SLA = **~R1500 extra**
- ❖ Stability: products and components do not change for 12–18 months
- ❖ Contract products have enterprise-level options: docks, biometrics, asset tracking tools, OS downgrade rights, Linux (open source)
- ❖ Support for economic imperatives such as empowerment
- ❖ National Treasury blacklist process as last recourse: only on Contract
- ❖ There **are** lower-price options on Contract:
 - **PC2 & Note2** (low-end systems) still meet enterprise requirements
- ❖ e-Waste processes supported by enterprise OEMs
- ❖ Retail stores often offer one-time specials (typically dumping older products)
- ❖ ICT products contain 100s of parts. Even if CPU, RAM and HDD are similar, it doesn't mean the products are the same.
- ❖ Retail systems do not comply with Government minimum requirements, cannot be certified



SITA-specified laptops: Comparison

PERFORMANCE + PRICE



Sweet spot for standard users



Note1	Note2	Note3	Note4	Note5	Retail
Chromebook / Thin client	Value	Ultra book	Midrange business	Advanced business	JUST CHEAP
AMD / ARM / Intel 1GHz	Last-gen Celeron/Athlon Dual-core	Latest i5 / Ry5	Latest i5 / Ry3	Latest i5 / Ry5	Various CPUs, Low-cost, 100% featured, low-quality
SLA: 3-year on-site, Next Business Day repair					?
Bundle: Windows 10 Pro, Cable lock + Carry bag, Delivery					?

Price curve

Ensure that the device suits the user requirement

Printing TCO scenario

It's too expensive to buy the "cheap" one!

The cheapest ...



	Retail	Office
Price	R909	R 3 799
Ink prices	Black: R257 Colour: R303	Black: R790 Colour: R649
Ink yield (pages)	Black: 190 Colour: 165	Black: 3 000 Colour: 2 000
Monthly volume	250 pages	2 000 pages
Print speed	6 pg/min	20 pg/min
Cost / page	R3.19	R1.24
3-year TCO (200 pages/month)	R23 439	R11 838
3-year TCO (1000 pages/month)	R115 282	R48 325

The fine print ...



... costs 2.5x more!

Failure and service risk: Retail store

match Day 1: Returning from the store with new laptop

Saved R3000

No delivery

Back at the office

No carry bag, lock

Day 23: It crashes!

No on-site SLA

Take it back to store for repair ...

match

Match sends it back to workshop ...

No dedicated support

match

Day 37: Waiting for news from Match ... Data not backed up.

Confidential data leaked

Day 41: Store worker makes unauthorised copy of hard drive

Data & productivity lost

Day 48: Technician formats hard drive, erasing all data

Day 55: Technician reinstalls Windows, "repair" done

match Day 56: Fetch laptop from store

No delivery

5 weeks later, back at the office ...

... user can start recreating lost data

Cost/benefit analysis

Money saved on cheap laptop	R3000
Hours lost fetching and returning	4
Hours lost waiting in queue @ Match	2
Weeks lost waiting for repair	5
Weeks lost recreating lost work	8
Estimated labour value lost	R7000
Damage to organisation	Priceless

Failure and service risk: Retail store (OUT OF WARRANTY)

match Day 1: Returning from the store with new laptop



Saved R3000

No delivery

Back at the office



No carry bag, lock

Day 423: It crashes!



No on-site SLA

Take it back to store for repair ...

match



Match sends it back to workshop ...



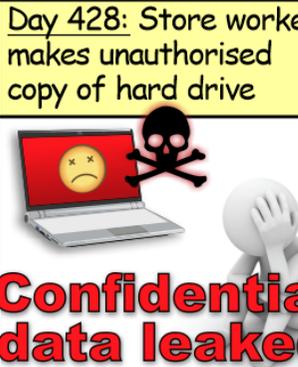
match

No dedicated support

Day 427: Waiting for news from Match ... Data not backed up.



Day 428: Store worker makes unauthorised copy of hard drive



Confidential data leaked

Day 431: Technician formats hard drive, erasing all data



Data & productivity lost

Day 435: Technician reinstalls Windows, "repair" done



Day 437: Warranty expired, all repairs @ cost to customer



Repairs not covered, time & material \$\$\$

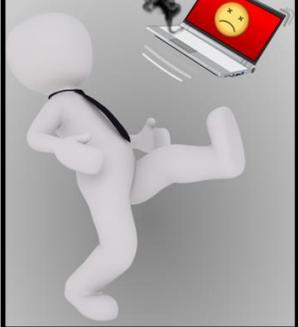
Day 445: Spares not available, entire device must be replaced



Risk analysis: out of warranty repairs

System registered? Kept receipt? No	Short system lifecycle: spares not available, replace system: R8 000
Motherboard failure R 4 000	Time and cost to recreate data: ??
LCD failure R 3 000	Negative savings from "cheap" laptop:
Hard drive failure R 1 000	If repaired: R -3 400
RAM failure R 1 000	If replaced: R -5 000
Labour cost per hour R 800	
3 hours labour R 2 400	
Example repair cost R 6 400	

Failure and service risk: Transversal contract

<p>Day 1: Receive new laptop in office</p>	<p>Day 23: It crashes!</p>	<p>4 hours later, supplier makes appointment</p>	<p>Technician arrives next business day</p>	<p>Day 24: faulty part replaced, repair done</p>	<p>Cost/benefit analysis</p>														
 <p>On-site delivery</p>		 <p>On-site</p>	 <p>SLA with</p>	 <p>NBD repair</p>	<table border="1"> <tr> <td>Higher price laptop</td> <td>R3000</td> </tr> <tr> <td>Hours lost driving to store</td> <td>0</td> </tr> <tr> <td>Hours waiting for repair</td> <td>10</td> </tr> <tr> <td>Hours recreating lost work</td> <td>0</td> </tr> <tr> <td>Est. labour value lost</td> <td>R500</td> </tr> <tr> <td>Value of data lost</td> <td>R0</td> </tr> <tr> <td>Value to organisation</td> <td>Priceless</td> </tr> </table>	Higher price laptop	R3000	Hours lost driving to store	0	Hours waiting for repair	10	Hours recreating lost work	0	Est. labour value lost	R500	Value of data lost	R0	Value to organisation	Priceless
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Value to organisation	Priceless																		

Comparing 2 used cars

- 2015 model
- 1.6 litre sedan
- Air-conditioner
- Airbags
- ABS
- Central locking

Looking at just the headline specs, these 2 cars are exactly the same. But when we look at the price ...

R250 000

R90 000

Obviously the right-hand car is a better deal, since we get the same car for much less money!



Could there **possibly** be some other factors at play that dermine the price difference?



**Pick any 2 —
you can't have all 3**

Conclusion

- ❖ When comparing **apples to apples**, transversal contracts are cheaper **and** offer **lower TCO**.
- ❖ This is **not** about protecting SITA's business — SITA makes no money from transversal contracts.
- ❖ It's about informing Government about “cheap”, low-quality consumer-class devices that don't meet user requirements.
- ❖ Contact us for more info:
 - tas@sita.co.za
 - www.sita.co.za/prodcert.htm

Thank you



Questions?

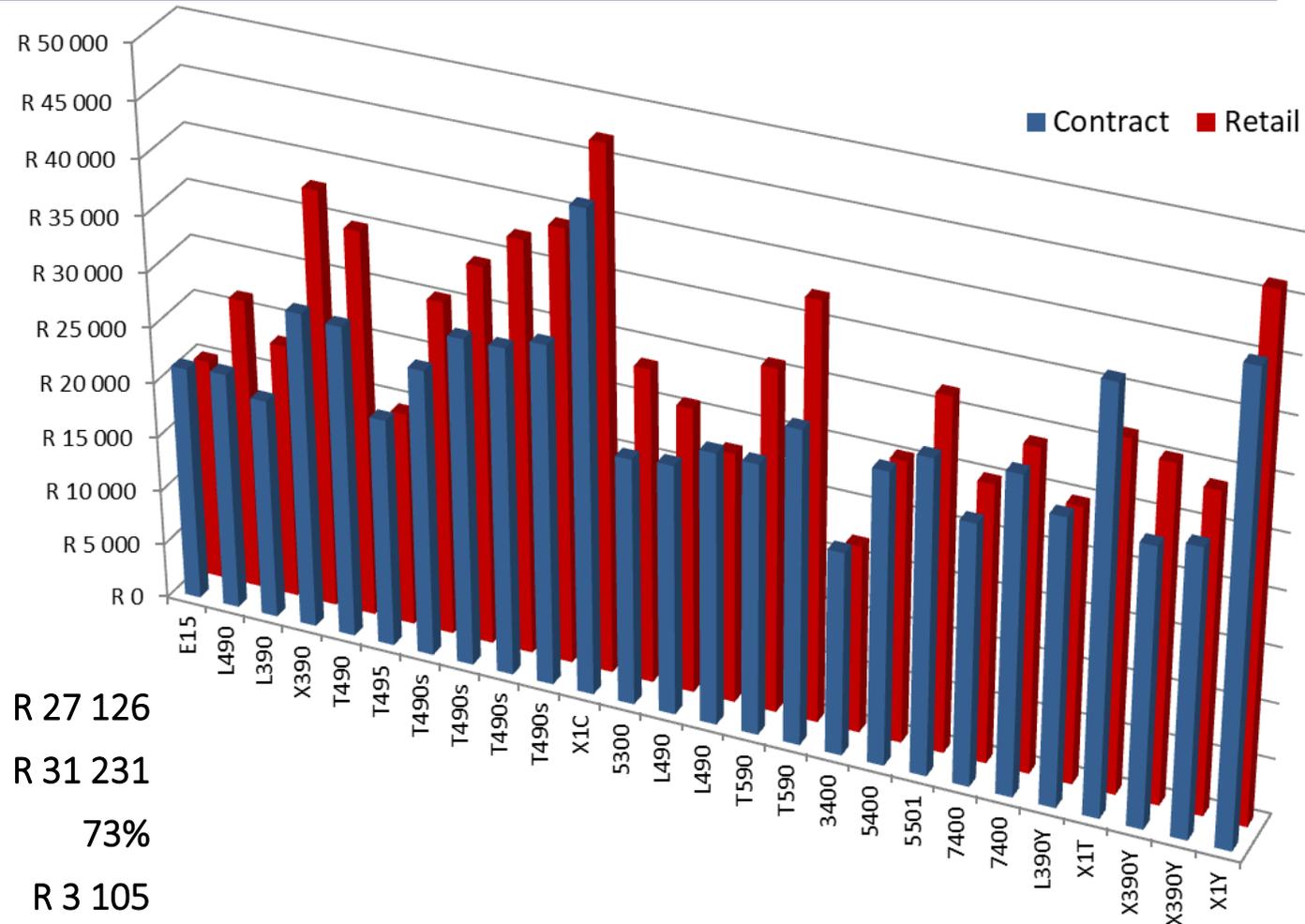


“In other words standards are being formulated whereby the non-standard parts, which must conform to certain standards of non-standardisation, are also to be handled only in a standardised non-standard way in order to standardise on the overall non-standardisation.”

— John Gordon, *The Alice and Bob after-dinner speech*

Backup

Price comparison 2020 – Contract products are cheaper



Average price, Contract

R 27 126

Average price, retail

R 31 231

% of systems cheaper, 2005:

73%

Average price difference:

R 3 105

Discussion



- ❖ Cost ≠ Price: Constitution Article 217 requires **cost-effective** procurement.
- ❖ “The same” ≠ “the same” – retail systems differ fundamentally i.t.o. design, quality, components, manageability, reliability, longevity, etc.
 - In a **true** apples-to-apples comparison retail systems are usually significantly more expensive.
 - OEMs estimate ~R6000 value-adds for enterprise-class systems.
- ❖ Time and Material repairs are costly, ineffective, time-consuming and difficult to manage. Bundled on-site SLA with transversal contracts is hassle-free.
- ❖ Research Report available with all the details.
- ❖ SITA specifications are drafted with input from Government.
 - Collaborative effort, “open-source” methodology.
 - **Please participate** electronically or via monthly GITOC TTT forum.

Caveat Emptor

- ❖ Stores use a **Bait & Switch** tactic – they get you in the store with a leaflet, then “**upsell**” you to something better
- ❖ No system management capability
- ❖ Low-quality, cheapest possible components
- ❖ No asset tracking capability
- ❖ No consistency (3–6 months model lifespan)
- ❖ Last year's technology
- ❖ Compare R15,000 enterprise ultrabook with R25,000 consumer ultrabook. Are they the same?

Category	Expense	Definition	How to Calculate
Hardware & software	Direct	Includes initial hardware and software purchases or lease costs, along with software licensing, subscriptions, maintenance contracts, extended warranties, set-up fees, supplies, materials and spare parts.	Pull invoices, purchase orders and records related to hardware and software expenses over a three year period. Divide total costs by three to get an accurate annual TCO picture. Depreciation costs should also be included.
Operations	Direct	Includes all labor costs for IT operations, such as tech support, database administration, website, helpdesk, etc. Includes staff salaries (wages and benefits), as well as any outside service providers. Also includes facilities costs used by IT staff (office space, furniture, utilities), along with network costs and internet connectivity.	Many small organizations do not have dedicated IT staff. In that case, responsibilities typically fall to the office manager or person who knows the most about computers. Estimate the # of hours that person (s) spends directly managing IT and multiply by their hourly wages. If you work with an IT service provider, add up all those payments, including hourly fees. If you are locked into a monthly retainer or long-term IT service contract, make sure you factor in those fees as well.
Administration	Direct	Includes finance, HR, administration and procurement costs spent managing internal IT staff or outsourced providers. Also includes training for staff members.	Whether you have an internal IT staff or work with outside service providers, someone still spends time hiring, procuring and managing those relationships. Estimate the # of hours spent on IT oversight and multiply by the appropriate hourly wage. Any employee training expenses should also be calculated.
End-user operations	Indirect	Includes productivity lost to end-user frustration, troubleshooting, “futzing” and providing informal IT assistance to co-workers.	This category is the most difficult to measure, yet represents the highest percentage of TCO. Many employees try to fix problems themselves, rather than pay expensive hourly rates for outside service providers. Estimate the # of hours employees lose dealing with computer issues, along with the # of hours they spend self-training or helping others, and multiply by the average hourly wage.
Downtime	Indirect	Productivity and revenue lost to inoperable or inaccessible computers, servers, software, internet connectivity, etc.	Estimate the # of hours computers are down due to viruses, hardware failure and planned maintenance and multiply by the average hourly wage.

Retail vs. Contract PCs: Details

Component / value-add	Retail	Contract
Cheap, special-based prices for limited time		
System designed for enterprise use (work focus vs home focus): secure, stable and reliable		
Fully secure product with hardware TPM, data encryption, asset tracking & remote wipe, physical lock (e.g. Kensington cable)		
Enterprise OS (Windows Pro/Enterprise) — not retail Windows Home/Basic		
Enterprise directory integration (AD domain support)		
Downgrade rights and alternative OS options (e.g. Linux)		
Stable platform: 12-18 months model change cycle with no component changes (retail products change in 3–6 months)		
Designed product lifespan \geq 3 years: more cost-effective, less wastage		
Enterprise-grade, high-quality, durable construction (e.g. laptop hinges, MIL-STD)		
Support for enterprise system management (e.g. vPro, DASH, Wake on LAN)		
Support for hard drive imaging to save deployment time and labour		
Fully-specified, configured and certified system (no missing components such as monitors, bags or software)		
High-contrast, anti-glare monitors for office environments		
Enterprise-level accessories: docks, WWAN, WiGig, common components, high-quality bags, locks		
No trialware, demoware, adware or nagware		
Included services: On-site delivery, installation and 3-year on-site support SLA		
Environment-friendly with support for Green ICT		
SITA certification		
Support for SA economy (BEE, PPPFA)		

Price comparison detail

			Contract 2005		
Item	Product	Config			
Note2	ThinkPad E14	14" i5 8GB 512GB	R 19 999		R 17 951 90%
Note2	ThinkPad E15	15" i7 8GB 512GB	R 21 320	R 20 139 94%	
Note2	ThinkPad L490	14" i5 8GB 512GB LTE	R 21 633	R 26 499 122%	
Note3	ThinkPad L390	13" i5 8GB 256GB	R 20 023	R 23 199 116%	
Note3	ThinkPad X390	13" i7 8GB 512GB LTE Touch	R 28 716	R 37 849 132%	
Note3	ThinkPad T490	14" i7 8GB 512GB LTE	R 28 355	R 35 029 124%	
Note3	ThinkPad T495	14" Ry5 8GB 256GB	R 20 769		R 19 461 94%
Note3	ThinkPad T490s	14" i5 8GB 512GB LTE	R 26 067	R 30 329 116%	R 32 999 127%
Note3	ThinkPad T490s	14" i7 8GB 512GB	R 29 679	R 34 219 115%	
Note3	ThinkPad T490s	14" i7 8GB 512GB LTE	R 29 679	R 37 349 126%	
Note3	ThinkPad T490s	14" i7 8GB 512GB LTE Touch	R 30 763	R 39 109 127%	
Note3	ThinkPad X1 Carbon	14" i7 16GB 1TB LTE	R 43 284	R 47 099 109%	
Note3	Latitude 5300	13" i5 8GB 256GB	R 22 334		R 28 457 127%
Note4	ThinkPad L490	14" i5 8GB 512GB	R 22 628	R 25 799 114%	
Note4	ThinkPad L490	14" i7 8GB 512GB LTE	R 24 583	R 22 629 92%	
Note4	ThinkPad T590	15" i5 8GB 512GB	R 24 474		R 30 935 126%
Note4	ThinkPad T590	17" i5 8GB 512GB LTE	R 28 327	R 37 599 133%	
Note4	Latitude 3400	14" i5 8GB 256GB	R 18 380		R 16 950 92%
Note4	Latitude 5400	14" i7 8GB 256GB	R 26 400		R 25 361 96%
Note4	Latitude 5501	14" i7 16GB 512GB LTE	R 28 396	R 31 839 112%	R 25 361 89%
Note4	Latitude 7400	14" i7 8GB 256GB	R 23 603	R 25 069 106%	R 23 764 101%
Note4	Latitude 7400	14" i7 8GB 512GB	R 28 708	R 29 129 101%	R 27 762 97%
Note_Tab1	ThinkPad L390 Yoga	13" i5 8GB 512GB	R 25 903	R 24 839 96%	
Note_Tab1	ThinkPad X1 Tablet	13" i5 8GB 256GB LTE	R 38 176	R 31 579 83%	
Note_Tab1	ThinkPad X390 Yoga	13" i5 8GB 512GB LTE	R 25 177	R 30 329 120%	
Note_Tab1	ThinkPad X390 Yoga	13" i7 8GB 512GB LTE	R 25 958	R 28 829 111%	
Note_Tab1	ThinkPad X1 Yoga	14" i7 16GB 512GB LTE	R 41 932	R 46 379 111%	

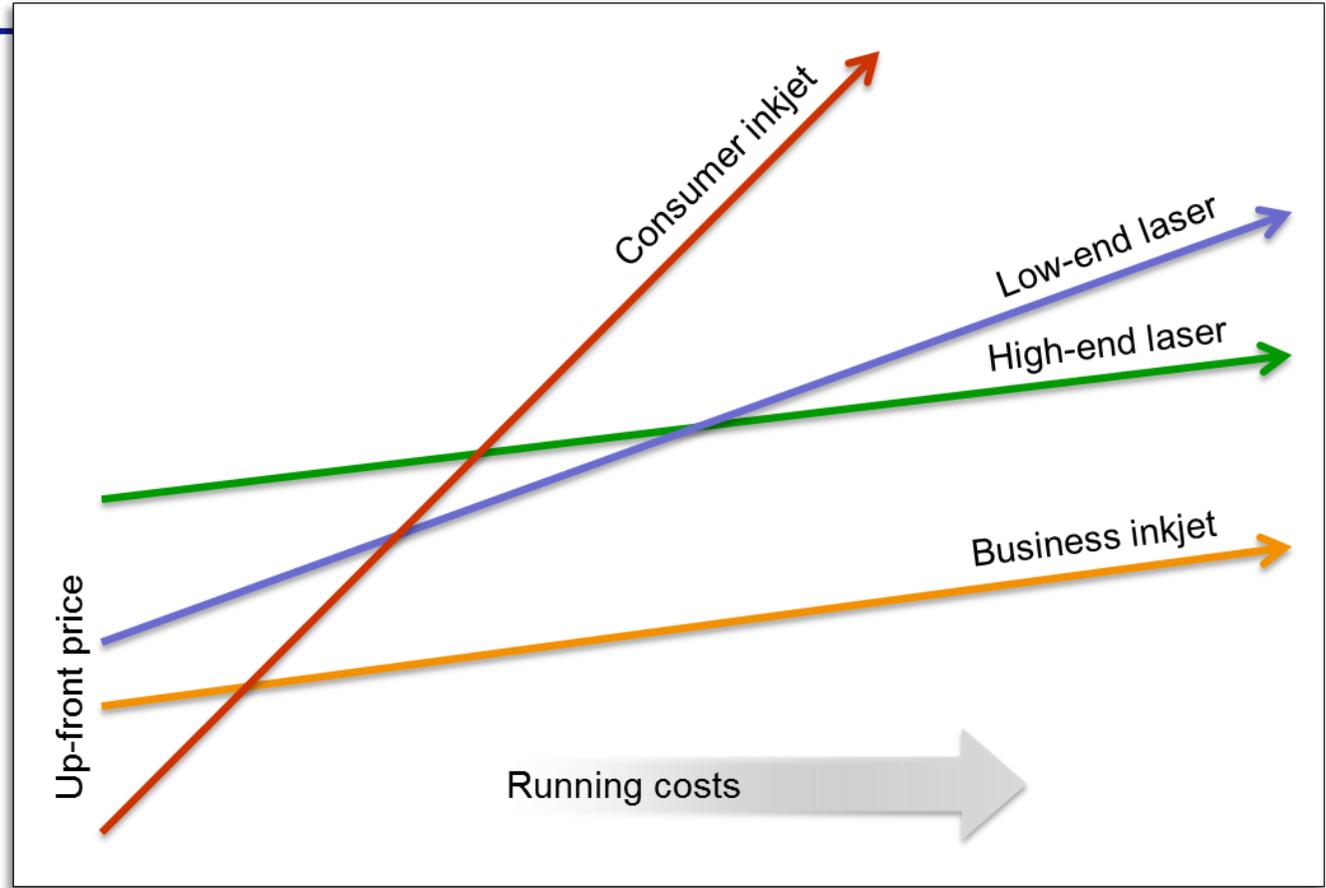
Consumer vs. Enterprise computers

- ❖ Failure risk – what happens if it breaks?
 - Have to take it back to store — on-site support is a **huge** issue
- ❖ OS considerations
 - Pro OS with downgrade rights
 - Domain support
 - Alternative OS options: Linux
- ❖ Build quality & reliability
 - Metal/carbon body and hinges, higher duty cycle, more reliable
 - Often ruggedised (MIL-STD 810G), drop/dust/temperature/spill-resistant
- ❖ Security designed in (including data loss prevention)
- ❖ Long lifecycle
- ❖ Enterprise-level accessories
 - Included: bag, lock, 3-year support
 - Support for asset management and tracking, remote wipe
 - Optional: biometrics, docks, service upgrades, etc.



Printing TCO over time

Total cost (TCO)



Print volumes

Detail comparison



Configuration	Core i5 CPU, 8GB RAM, 240GB SSD Identical basic system configuration – but this is not important in terms of TCO and long-term use	
Storage	240GB SSD	240GB SSD
Display	<p>Low-resolution, glossy coating TN</p> <p>Low definition, best suited to dark environments where reflections do not distract, poor viewing angles</p>	<p>High-resolution, anti-glare IPS</p> <p>High definition, good viewing quality in all environments (specifically office with bright lights), good viewing angles</p>
Physical size and weight	<p>Average: 2.5kg, 2.17dm³</p> <p>Relatively large and heavy due to consumer design and non-optimised materials, DVD drive</p>	<p>Excellent: 1.35kg, 1.16dm³</p> <p>Best-in-class size and weight for enterprise: almost half the size and weight of the retail system</p>
Mobility and battery life	<p>Mediocre</p> <p>Mobility is not a primary mandate</p>	<p>Good</p> <p>System design and components optimised for mobility</p>
Product focus	<p>Up-front price – short-term</p> <p>Lure the buyer with a “CHEAP!” sticker</p>	<p>TCO – long-term</p> <p>Lower cost with fewer failures over long-term use</p>
Operating system	<p>Windows 10 Home</p> <p>Unmanaged consumer OS, no domain integration or enterprise features.</p>	<p>Windows 10 Pro</p> <p>Managed and domain-integrated, enterprise OS. Allows deferment of updates until tested.</p>
Security	<p>No specific provision</p> <p>Limited built-in security capabilities; cable lock not bundled, TPM, encryption not available</p>	<p>TPM, AD login, Encryption, Fingerprint, Tracking, Cable lock</p> <p>Secure storage of crypto keys, Departmental login, support for encryption, asset tracking built-in, remote wipe, physical cable lock</p>
Data security in case of failure	<p>Data is at the mercy of retail store</p> <p>No guarantee of breach or data loss</p>	<p>Data does not leave office</p> <p>Cannot be lost or compromised</p>
SSA guidelines for data security	<p>No provision for hard drive security</p> <p>Hard drive with data has to be returned to OEM</p>	<p>Keep your drive</p> <p>OEM allows hard drive to remain at client, or securely wiped in line with SSA guidelines</p>
Installed software	<p>No control – OEM marketing</p> <p>Several types of scareware, trialware and ransomware – even spyware</p>	<p>Full control – Gov software image</p> <p>Built by Department, loaded @ factory</p>
On-site delivery and installation	<p>User responsibility</p> <p>User has to fetch the product and install it</p>	<p>Included in price</p> <p>Delivered and installed in office by reseller</p>
Support and warranty	<p>1-year carry-in</p> <p>No on-site service, user must return to store, typical 6-week turn-around time, no 3-year SLA. Other repairs will be on a time-and-material basis, which is slow, costly and difficult to manage.</p>	<p>3-year on-site</p> <p>Guaranteed 8x5, next business day <u>repair</u> SLA.</p>

Why use transversals?

- ❖ “Computers acquired from contract come with an on-site three year warranty which includes maintenance, while product acquired from retail comes with a one year warranty which requires the customer to carry the equipment in for any repair.”
- ❖ “All the IT equipment acquired from contract are quality checked by SITA LAB and OEMs have signed an agreement with SITA to ensure that they supply the equipment according to government standards.”
- ❖ Well-informed, objective advice from SITA Lab, tested, vetted and benchmarked

Technology Certification Process (TCP)

❖ SITA is mandated i.t.o. SITA Act and NT Regulations certify ICT goods and services

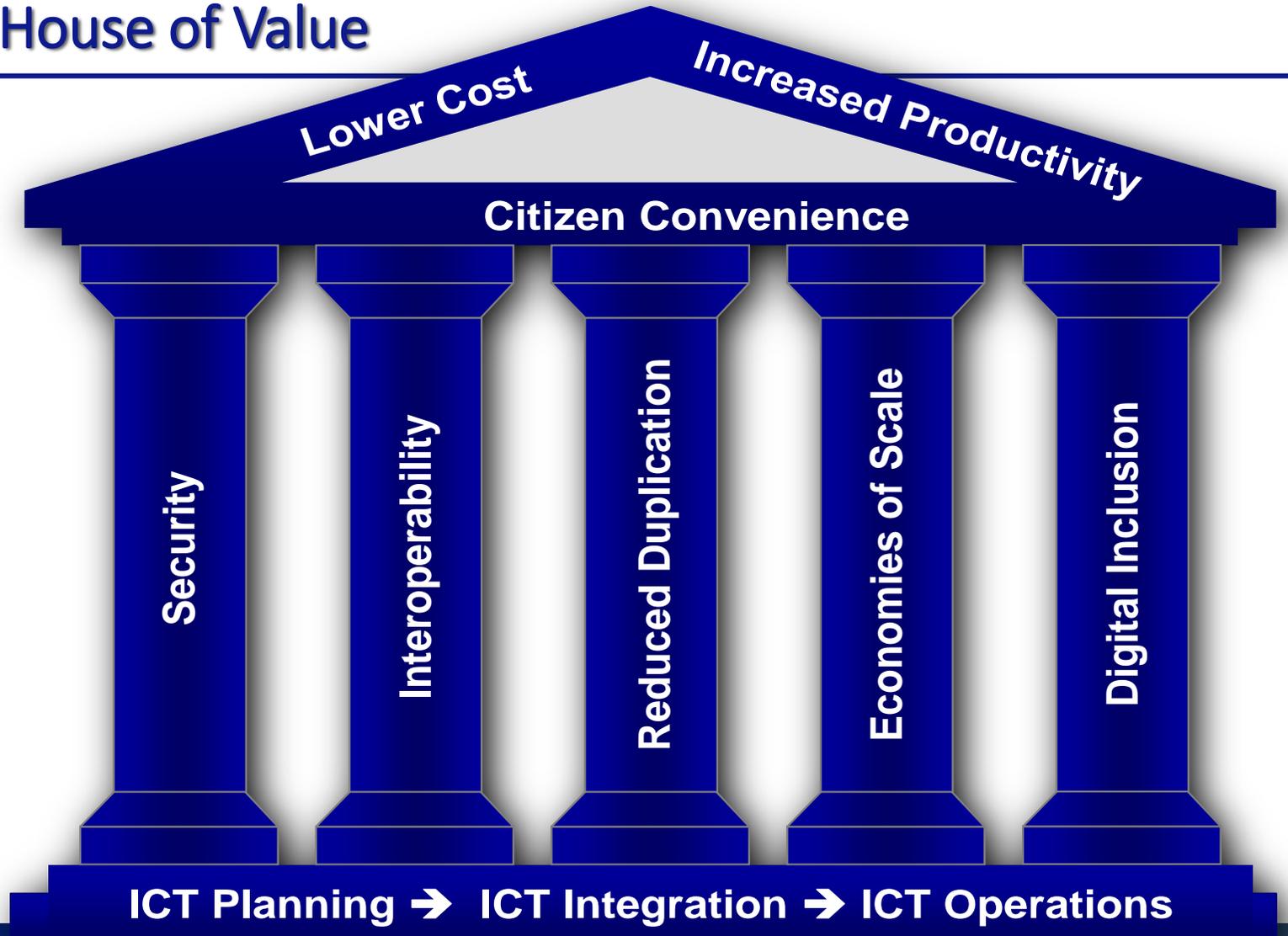
❖ 8 Technology Domains:

-  Personal Computing Devices (PCD)
-  Peripherals
-  Assistive Technologies (AT)
-  Education Solutions
-  Servers & Storage
-  Audiovisual Communications Technologies (AVCT)
-  Networking
-  Infrastructure

❖ GITOC-approved specifications with input from all role players, including Departments, suppliers. >170 OEM participants

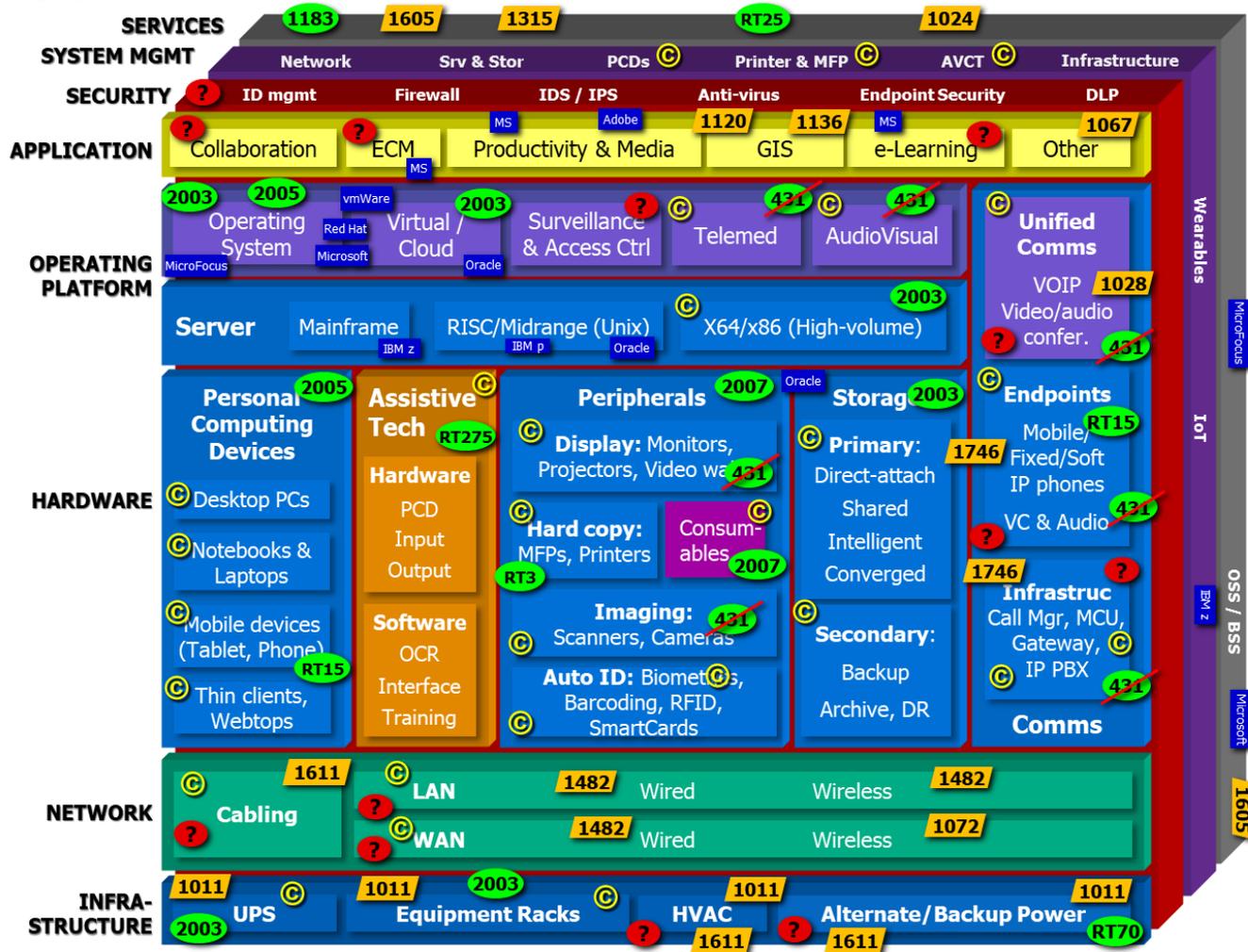


e-Government House of Value



Government Transversal Technology Domains

Platform Diagram v5.9, © SITA, November 2019
www.sita.co.za/prodcert.htm



- Transversal Contracts:**
- 1183: ICT Services
 - 2003: Servers & Storage
 - 2005: Pers. Comp. Dev.
 - 2007: Peripherals
 - 431: Audiovisual Comms
 - RT3: MFPs, Shredders
 - RT15: Mobile Comms Svc
 - RT25: MSCOA (IFMIS)
 - RT70: Diesel for generators
 - RT275: Assistive Solutions
- SITA Contracts:**
- 768: Switching Centre Maint
 - 1011: Switching Centres
 - 1024: Software migration
 - 1067: Business Intel.
 - 1072: Last-mile Transmit
 - 1081: LAN Hardware Maint
 - 1120: Spatial Data
 - 1136: GIS Prods & Svc
 - 1315: Data Centre Svc
 - 1482: Network Equipment
 - 1605: Network Maint & Suppt (incl LDS)
 - 1611: Cabling
 - 1746: Voice solutions

- Legend:**
- Certified domain
 - Transversal contract
 - Transversal required
 - SITA ELA
 - SITA contract
 - Lapsed

Product Certification website

The screenshot shows the SITA website interface. The browser's address bar contains the URL www.sita.co.za, which is circled in red. The navigation menu includes 'Home', 'About Us', 'Services', 'Procurement', 'Cutting Edge Focus', and 'Contact Us'. The 'Procurement' menu is expanded, showing several categories: 'FAQs', 'e-Procurement', 'Central Supplier Database', 'Transversal Contracts' (with sub-items: Software, Hardware, Services), 'Standards' (with sub-items: MISS, MISC, and 'Product Certification' circled in red), 'Request for Quotations' (with sub-items: RFQ Below R500,000, RFQ Bulletin, New RFQ Invitations, RFQ Cancellation List, RFQ Consolidation List, Regulations and Processes, Search RFQs), and 'Tenders' (with sub-items: Bulletins, Invitations, Bank Details, Publications of Bids Received, Regulations and Processes, Status of Tenders, Consolidated List). A red arrow points from the 'Product Certification' link to a background image of a hand using a fingerprint scanner.

This section lists several documents and forms available for download:

- Checklist Product Certification Meeting
- OEM Memorandum of Agreement (MoA)
- Checklist OEM Meeting (MoA)
- Product Certification Process Diagram

This section displays a 'Form Diagram' for 'Transversal Technology Domains'. It includes a diagram and a list of related documents:

- Detail Spec Peripherals
- Tech Update Peripherals
- Deployment Guide Peripherals
- Requirements Checklist: Barcode Scanner
- Solution Delivery Checklist: Peripherals

Below this, there are sections for 'Audiovisual' and 'Infrastructure' with their respective document lists:

- Audiovisual:** Detail Spec AVCT, TU AVCT, Deployment Guide AVCT, Requirements Checklist: AVCT Solution, Requirements Checklist: Projector
- Infrastructure:** Detail Spec Infrastructure, TU Infrastructure

Office

vs

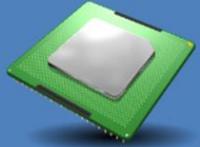
Home



Office

vs

Home



Core i5 CPU



8GB RAM



240GB SSD

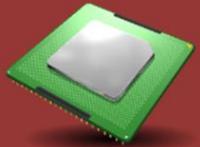
Specs



240GB SSD



8GB RAM



Core i5 CPU



- On-site delivery ✓
- 3-year SLA ✓
- Next-day repair ✓

Services



- ✗ No delivery
- ✗ 1-year carry-in, no SLA
- ✗ 3 weeks wait time



Domain join



TPM



Encryption

Security



Virus



Nagware



Ransomware



Spyware



Data loss

Office

vs

Home

70%+ of systems cheaper on
Contract 2005 ✓
Lower TCO ✓



Price



✗ Average R3000 more expensive in retail shops
✗ Higher TCO



Cable lock



Carry bag



Win10 Pro

Bundle



Win10 Home

No accessories
bundled



Meets Government
standards

Conclusion



Take a chance –
YMMV

