# The Future of Computing









ICT Solutions Provider





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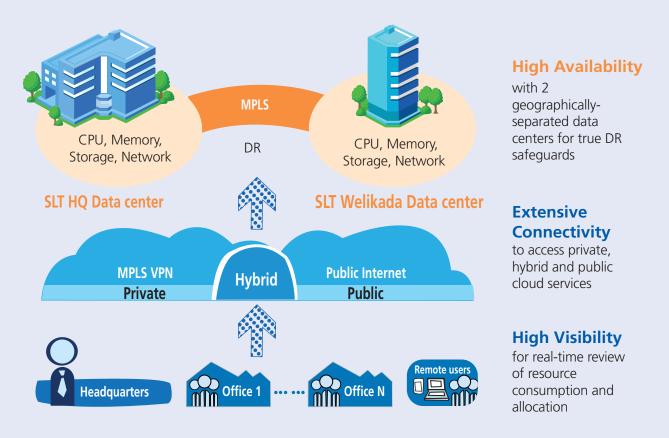






## 1. AKAZA

Customers are adopting a cloud strategy in their IT projects to benefit from the scalability and cost efficiencies of delivering IT services to business requirements. The Cloud is changing the IT delivery model to a service-based model, which operates more efficiently, resulting in enhanced responsiveness to business needs.



## Cloud computing as the next generation of computing provides the following benefits:

- Managed IT infrastructure and services as commodity services developed on a large-scale resource pool beyond standalone processors, storage, business applications and development platforms
- Billing or charging is based on actual consumption and "pay-as-you-go" economics, even for shorter contracts
- Scalability that caters to unforeseen business requirements in a timely manner
- The ability to add or remove capacity in real-time on the basis of changing business needs
- Easy and user-friendly access, such as web-based interfaces, for the administration of your services and monitoring usage patterns







## What AKAZA Cloud Provides

Given SLT's island-wide fibre network and established fibre access networks with built-in redundancies and resiliencies connecting all key business establishments and two state-of-the-art data centers, AKAZA Cloud offers end-to-end cloud computing services to further transform the way organisations operate IT.

AKAZA utilises the right methodology to bring about a reduced Total Cost of Ownership (TCO) and a better Return of Investment (ROI) whilst incorporating technologies and capabilities into your business. We understand and pay careful attention to your business needs and propose the most appropriate cloud computing solutions to address your IT requirements with reduced cost and quick service delivery.

## 2. AKAZA Public Cloud

### Run Your Business Application on Our High-Performance Cloud

AKAZA Public Cloud provides comprehensive infrastructure capabilities to host your most critical workloads of business applications and e-commerce or corporate websites. Also, we enable you to manage your services through powerful APIs and a user-friendly web interface portal.

## 3. AKAZA Private Cloud

AKAZA Private Cloud provides Cloud Infrastructure with high-availability and high-performance fibre-based IPVPN Intranet access to large Enterprise customers who need higher computing power to run their mission-critical applications.

AKAZA Private Cloud is built on a fully-clustered, enterprise-class computing architecture with industry-leading virtualisation provided by VMware and Citrix platforms. We provide a cloud-based resource pool of computing, storage and network with the required privilege of access to Enterprise customers to manage your Private Cloud via our Cloud portal.

By allocating the resources according to your business needs, you are empowered to build your own Virtual Data Center and you may add or remove resources from your pool, which is built from our Cloud. AKAZA Private Cloud is purely implemented on SLT's state-of-the-art Data Centers, which provides reliable network connectivity to your office premises in order to ensure high availability of access to your Cloud with zero downtime. Also, AKAZA ensures that the Enterprise Private Cloud has the scale, performance and security to meet all your enterprise business needs.







### **Better Performance and Experience**

AKAZA, through its state-of-the-art cloud computing technologies, is determined to assure better performance and experience compared to on-premise infrastructure and other available cloud-based solutions. AKAZA Cloud provides comprehensive tools to effectively manage your cloud infrastructure and to take control of your applications as well as the flexibility of resource allocations.

AKAZA Hybrid Cloud provides users with an opportunity to host some of their business applications in a private or dedicated environment and also to host some other unpredictable or heavy traffic applications in a public cloud environment.

## 4. AKAZA Hybrid Cloud

#### Build what you need

AKAZA allows you to effortlessly combine the public cloud and private cloud so that you can create an ideal computing environment for your business. You can add products and services as and when you need them.

### **Cost-effective Hybrid**

AKAZA Hybrid Cloud is appropriate for high-traffic content management applications and e-commerce applications where there is a need to accommodate unpredictable traffic patterns.

#### **Enterprise Hybrid**

AKAZA Enterprise Hybrid is offering cloud services where enterprises can host their non-critical business applications on AKAZA Public Cloud. In addition, enterprises can host mission-critical apps that require enhanced security and ultimate control on AKAZA Private Cloud in order to effectively run their IT operations with a reduced cost of ownership.

Also, customers who have already made heavy IT investments can plan their Cloud strategy with an Enterprise Hybrid option. This allows them to deploy their new applications on AKAZA Private Cloud and gradually migrate their on-premise IT workload over a period of time to the Cloud. In doing so, customers can use the Hybrid option as a transition strategy.







The table below provides a comparison between AKAZA and other global public cloud services.

COMPARISON OF CLOUDS	AKAZA	OTHER PUBLIC CLOUDS
Hybrid Cloud (Extend Layer 2 VPN to Cloud)	Ø	8
Network Performance (Up to 10Gbps)	<b>Ø</b>	8
Storage Performance (Up to 5,000 IOPS)	0	8
Sharing Disks between Multiple VMs	Ø	8

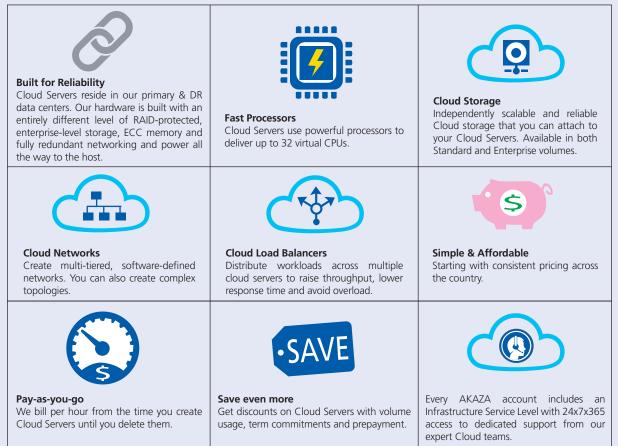
## 5. AKAZA Products

## A. AKAZA Cloud Servers

## Extreme computing power on demand

On-demand servers featuring Enterprise storage, powerful processors and Gbps of highly available throughput to every host.

#### Why select Cloud Servers?



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## B. AKAZA Virtual Data Center (VDC)

What is a VDC in the context of cloud computing?

A Virtual Data Center is a pool of cloud infrastructure resources designed specifically for enterprise business needs. These resources include computing, memory, storage and bandwidth.



AKAZA Virtual Data Centers are implemented in the AKAZA Cloud and are based on VMware and Citrix technology, which provides full compatibility with any virtualisation environment. The solution is built on open standards with OVF packaging for the transport of workloads and interoperability, with additional support provided as well.

Just as you would in your own data center, you can make these Virtual Data Center resources available to applications, business units and projects as needed without having to worry about physical capacity.

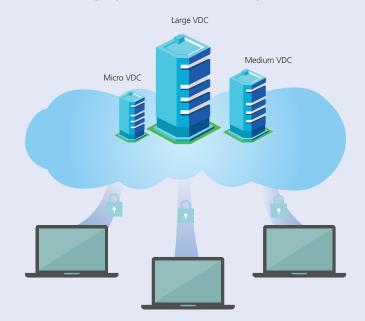
## Build, Access and Move Your VDC from Anywhere Quickly

A Virtual Data Center contains public and private catalogues of AKAZA templates so you can build new virtual machines quickly, or upload VMs that are already running in your internal environment. You can also build virtual applications (vApps) within your Virtual Data Center. A vApp is used when you have an application that requires more than one VM, custom security and/or networking settings, custom startup parameters and want the application to be stored and provisioned from a catalogue.









## Manage your VDC from Anywhere

For example, you may occasionally need to create an instance of one of your e-commerce sites with web servers, a database server and specific security settings for purposes of doing testing for each upgrade. This entire instance can be stored as a vApp in the catalogue and then later used to create the upgrade test environment in your AKAZA Virtual Data Center. When the testing is finished, you can power off the vApp.

## Adjust VDC Resource Allocations Whenever, Wherever

The biggest differentiating feature of an AKAZA Virtual Data Center is that you can easily re-adjust resource allocations within your environment at any time.

Many cloud providers offer the same combination of components, but they do not allow you to reconfigure the resources after they have been allocated the way AKAZA does. Other providers will offer pre-configured Virtual Data Centers or more narrowly yet, just servers with fixed computing, memory and storage. If you grow out of one of these, you must trade that Virtual Data Center or server in for a larger one.

At AKAZA, no matter how your resources are allocated initially, you can always readjust how much computing, memory, storage or bandwidth you have in your AKAZA Virtual Data Center or available to a VM or vApp – you can grow and contract as needed without ever moving your workload.



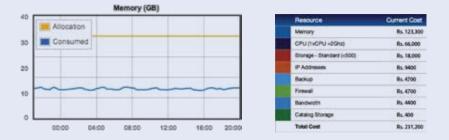




#### Lower your costs

Fear, uncertainty and doubt regarding the actual requirements of an application often lead to over-provisioning precious and expensive technology resources. This approach often leads to high costs or the starvation of applications competing for the same resources.

By looking at actual, historical usage analytics, AKAZA helps identify applications that do not regularly use all of their allocated resources.



Use this information to easily adjust your AKAZA Virtual Data Center resource allocations and maximise efficiency by clicking over to VMware vCloud Director from the portal or by working with AKAZA Support.

## C. AKAZA Cloud Storage

AKAZA Cloud Storage provides fast and reliable storage for I/O-intensive applications. In order to meet your business requirements, you can select Standard or Enterprise Block Storage volumes, both of which are connected to Cloud Servers via our high-speed network. There is a constant need for storage in any enterprise, and day-by-day the need for storage continually increases. In fact, investment in storage is one of the major contributors to IT costs.

#### **Reliable I/O for your Cloud Applications**

Emerging applications require reliable storage IOPs (Input/Output Operations Per Second) to perform consistently and reliably. Based upon the performance level required for your application, AKAZA Cloud provides the required IOPs.







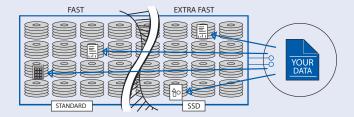
## **High-speed Data**

You can enjoy our high-speed 10 Gigabit Ethernet internal network connection to your Cloud Block Storage volume if you use our Performance Cloud Servers. A high-speed network provides relief from potential I/O bottlenecks. AKAZA Cloud Storage delivers increased throughput and higher performance for your applications.



### Choice of SSD (Solid State Drives) or Standard Volumes

Standard volumes work well for your everyday file system requirements. However, SSD volumes deliver even higher performance for databases and other I/O-intensive applications. In addition, you do not have to scale up your servers - both Standard and SSD volumes work with all sizes of next-generation Cloud Servers.



## D. AKAZA Cloud Backup

Backup is one of the most critical requirements in the IT industry. Once a backup of critical business data is taken, AKAZA Cloud Backup is in a position to ensure business continuity and restore the failed system. AKAZA Cloud Backup lets you quickly protect and restore important files.

### **Protect your Business**

You need to prepare for the unexpected as well as for disastrous situations. You cannot risk losing your entire business due to a vulnerable IT infrastructure. AKAZA Cloud Backup helps you safeguard your business by protecting the important files that your website or applications require. You can quickly get your system back to normal operations with the ability to rapidly restore files after a hard drive fails or even after losing a file.









## **Cost Saving**

The traditional way of backing up IT data is very expensive as it involves copying raw data. However, with enhanced compression techniques and cloud technology, we can provide a cost-effective backup solution for your business needs.

You can take additional backups on an incremental basis after your initial backup. In doing so, you reduce the amount of storage required and the associated cost.

## Focus on your Business

Using our self-care web portal, you can create, schedule and manage file-level backups on your Cloud Servers. Protecting your important files and folders takes just a few minutes since AKAZA Cloud Backup is integrated with Cloud Servers on our high-capacity network.



## Secure Your Data

AKAZA Cloud enables you to use Enterprise-grade encryption (Advanced Encryption Standard, 256 bit key). Once you start encrypting your data, you can select your own security measurement.

When you create your AES-256 encryption key, the data is encrypted before it leaves the server and remains safely encrypted whilst stored.







## E. AKAZA DaaS

AKAZA DaaS (Desktop-as-a-Service) transforms your traditional desktop into a cloud-based service where you can get all the desktop features and functionalities from the Cloud. As a solution, DaaS eliminates upfront investments associated with the traditional model and instead provides a cost-effective and low power consumption service model to meet your PC requirements and changing business needs.

DaaS provides Enterprise-level security, best-in-class monitoring and a highly secure facility to provide around-the-clock support for our customers. Also, the productivity of your workers would increase due to a significant reduction in the time required to perform desktop management and associated support tasks.



## AKAZA DaaS delivers the following:

- A simplified deployment and management of your desktop environment
- A faster path to virtual desktop deployment
- Pre-engineered, end-to-end solutions for accelerated business outcomes

AKAZA DaaS enables you to rapidly provision desktops to end-users anywhere and on any device, without compromising their computing experience. Our pre-integrated virtual solutions and management services are scalable, secure and affordable.





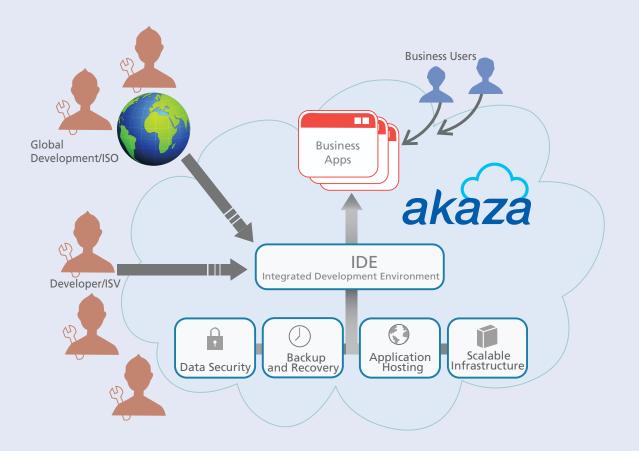


## **Customer Value**

- AKAZA DaaS supports a wide range of devices and thin clients (as well as many older PCs) to enable VDI access
- We can help you quickly define and provision persistent or non-persistent desktops
- AKAZA DaaS minimises the risks to company data and applications when end-user devices are lost, damaged, stolen or infected
- AKAZA DaaS reduces the burden of day-to-day desktop management and instead allows for time-stretched IT resources to focus on other strategic business needs

## F. AKAZA PaaS

AKAZA PaaS (Platform-as-a-Service) enables software developers to instantaneously code, develop and run software. Our cloud platform provides cost-effective, easy-to-use, flexible and multiple development environments such as Java, .Net, PHP and Python. With promises of greater developer agility, significant cost savings and expedited time to launch your app in the market, who wouldn't be paying attention to PaaS?







With PaaS, you have the option of selecting required platforms to develop and run the applications and enable your users to access them through the Internet. We offer cloud-based tools for coding, testing, deploying and hosting the application with AKAZA.

### Features

## **Popular Languages and Frameworks**

With AKAZA PaaS, write applications in some of the most popular programming languages: Python, Java, PHP and .Net. You can also pair your applications with AKAZA's cloud infrastructure and SLT's core layer products such as messaging and voice in order to integrate other familiar technologies such as Node.js, C++, Hadoop, MongoDB and much more.

#### **Multiple Storage Options**

At AKAZA, you can select the specific storage option you need: We offer a traditional MySQL database using Cloud SQL, a schemaless NoSQL data store and object storage using Cloud Storage.

#### Focus on your Code

Let AKAZA worry about database administration, server configuration, sharding and load balancing. With Traffic Splitting, you can A/B test different live versions of your app. Moreover, multi-tenancy support provides you with the ability to compartmentalise your application data.





## G. Cloud SaaS and App Marketplace

AKAZA provides an App Marketplace that enables users to select an array of open source and commercial applications so that they can use them within their Workloads. The App Marketplace is populated with over 60 popular applications in a wide variety of categories - including CMS, CRM, Business Intelligence, Database, Collaboration and others.



Users can either include Marketplace components in Workloads that they design from scratch (via the Workload Designer) or they can simply select apps directly from the Marketplace. A Wizard guides the user through a step-by-step process towards deploying the App as a Workload. Furthermore, by using a PaaS to SaaS programme, PaaS customers (ISV's) can push their application to the App Marketplace.

AKAZA is happy to announce that two of our own applications will be available at the App Marketplace: AKAZA Cloud Contact Center & PBX and AKAZA Cloud VIDEOMEET.





## 6. AKAZA Technology Roadmap

The roadmap below outlines the core stages for the launch of AKAZA's key products in the future.

