

Unified IT Architecture Infrastructure (UIT-AI)

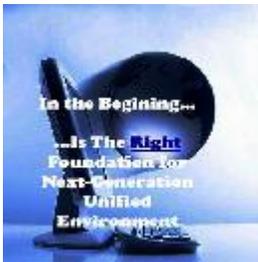
The Solid IT Architectural Approach for Information Management, Data and Storage Systems, Systems Operational Hardware Architecture and Unified Communications (UC) ...

September 2007

They start with Business, and Business Technologies...

...What are they?

What is a Unified IT Architecture Infrastructure (UIT-AI)?



Digital Convergence
Technology was
conceived, a Universal
Supporting Unifying
Architecture
Infrastructure
required...

The Definition of UIT-AI -

A Unified IT Architecture Infrastructure (UIT-AI), is an **Optimized, Strong** and **Reliable Operational Foundation** and **Structure** with *Unlimited Connectivity, Unrestricted Dynamic Control of Itself, EveryThing* within the *Underlying Complex Engineering, Anything Connecting, built AnyWhere on Top of its Platform or it's Applications* in a manner that enable **Streamlined Communications for the People, Collaboration, Multimedia/Media Smart Systems**; seamlessly integrated with Business Work Flow, all Business Activities and Business Processes, **supporting** the Present, Short-Term, **Intermediate**, Transitional, Near Future, Long-Term, and the **Futuristics**; **bringing to Fruition** the **Goals, Hopes** and **Dreams** of a **Business** within a **Unified Environment**.

-Defined by Ifeanyi O. Asonye (September 2007)

The Benefits-

A Unified IT Systems Architecture Infrastructure has much more robust centralized system built into it. It could be centralized, de-centralized or partly de-centralized depending on the type of business, or business model. The Operational System Control with Systems Management tools would be Integrated within an Integrated Database.

Additional benefits of a Unified IT Architecture Infrastructure involve areas of more *sophistication*, as well as **simplified End-User Experiences** for access control, audit policies, file level and storage systems/ sub-systems encryption, **Single Sign-On**, data management, policy-based security, and such strategies. Consultative Digital Approach, emerging Project Management and Information Lifecycle Management methodologies may be employed to **stratify** them.

When a **Unified IT Systems Architecture Infrastructure** is being built to support *Unified Communications (UC)* within a **Federated** System that has **VoiceOIP** with **Telephony**, the importance of a solid **Blueprint** for the underlying system Architecture, a seamless connectivity **Infrastructure** becomes critical **details**, and **specifics to be articulated**. Soon it becomes very clear how reliability, efficiency, speed, performance, and redundancy would be directly affected, since **each piece of hardware, and software products** of your choice must be happy with the rest of the system, up to a certain **higher degree of Tolerance** with regards to **Engineering Latency, Timing, Caching**, and such for **Efficiency and Reliability**. It may be designed to meet **compliance requirements** of the specific industry.

The Business Information Technologies above and below, are for **Engineering Interests** and contexts **precisely**. The fairly complex, and the Advanced areas being **mentioned throughout**, in this article, are beyond the scope of this Writing.

The Microsoft Active Directory, no doubt, has been widely used to integrate heterogeneous systems as well as applications much better than its alternatives. Respected **old-timers in IT has been working on World-Wide IT Directory Connectivity Technology** *to work well, together with areas like the Telecommunications (a 100+ years industry)* for more than Two decades. **Microsoft AD** finally arrived filling a huge part of this Technical Void. **It's high flexibility, the nicely structured/structural nature of the it's directory and open systems connectivity from the ground up**, using the .Net Framework, with **Strong Cross-Platform**, and Next Generation **Cross-Browser** seamless **High-Definition Interactive Multimedia Streaming Capabilities**, among many others, cannot be overemphasized.

Lessons learned in the early 2000 took its toll on businesses that implemented the Active Directory same way as NT 4.0 Domains with **Domain**, Sites and Directory Services- **Alongside Dot-Com** (the Bubble Busted) **which was very much overblown**. With a **quick, hot-boiler-plate** upgrade to Active Directory, most experienced complete Directory Database **failure(s)** under the "**unsupported**" **Tree, Forest, Domain and Child Domain Configurations, Topology, Connectivity and Designs**. Such has happened so many times in history due to either severity of damage(s) and/or less efficient systems designs, and in the *implementations* by **experts**, from the [Titanic](#) to [Modern Marvels](#) - [Natural](#), [Mega](#) and [Engineering Disasters](#). Despite that, Five years later, in the Fourth Quarter of 2005, for the first time, the revenues for Windows 2000/ 2003 based x86 still topped spending for Unix systems, according to analyst firm IDC. Nonetheless, many issues has long been fixed, and would continue to get better for more flexibility, **self-healing**, reliability and stability during subsequent releases, in the **R2 versions, services packs, updates and newer versions**.

The Scalable Unified IT Storage Architecture-

On the **Scalable Storage** side, Data Storage and Storage Sub-Systems with Operational Hardware Architecture has witnessed dramatic growth with the explosion of Virtualization **Breakthrough Solutions**, as price of disk storage continue **to drop per Gigabyte /per Terabyte /per Petabyte**. Storage hungry applications, Disk-to-Disk Back-up Systems, Server Virtualization, Server Consolidations with Storage / Storage Sub Systems Resilience Solutions has continued to create many more opportunities for the industry, **and a lot more value for Customers**.

A Unified IT Systems Architecture Infrastructure is always in complete control of your business data regardless of the data location or how they are stored or managed in the environment. **Eventually, all of your backup, online data or both, will fit into a single hard drive, or just a couple of 5 Terabyte**

(TB) to 300 Terabyte (TB) Hard Drives, on or before 2010. The benefits of a Unified IT Systems Architecture Infrastructure becomes apparently obvious as they are relevant.

Things to be considered in the Storage area include:

- a. Current Online Data-** Mid-Sized firms: 5-10 Terabytes (TBs); Large Firms: Petabytes (PBs)
- b. Data Growth Rate-** at 50-70% per yr in Terabytes (TBs) and Petabytes (PBs)
- c. Business Continuity Requirements-** Redundancy and Disaster Recovery
- d. Compliance Regulations-** Data / Information Encryption Technologies, and such...

The True Nature Of Unified-

With **Instant Messaging (IM)** being the starting/entry point going into UC, it takes Communication Systems integration to another level of *complexity*, demanding deeper *engineering background, skill set and talent* for Systems Engineers, unlike the types of System Installations, Configurations and Implementations we've witnessed within the last two decades.

The Architect is also a technical **Designer**. "Just like **designing and building a home, big house or a tall building (such as a skyscraper)**, it may be structured in so many creative ways", the foundation and initial structure has to be carefully designed and *built to SUPPORT it, WORK right, using the right things, the right people, the right way*".

It's very much like planning a Big Town, like that of a Town Planner; it may not be installed like an Application or an Operating System; **there's really no way to run "setup.exe" or "installAdesignarchitecture.msi" to install an Architectural Design**. Similar to what the Architect does to produce **Blueprints for Buildings**, it will hold the "wish lists" and everything one wants in a dream home, commercial, tall business or residential building and tower, in this case, **your Business**.

A Unified IT Architecture Infrastructure could be referred to as Service-Oriented Architecture (SOA), since it naturally has all of the attributes and capabilities of an SOA. There's almost always several complicated software layers, proprietary communication protocols, and **very expensive "middleware"** trying to talk with each other in most SOA implementations in Large Enterprises that would neither be suitable for a small business, nor would they **afford** such solution sets. Unified IT Architecture is based on World-Wide unlimited and unrestricted **Open Standards** supporting interoperability and **affordable** global solutions for EveryOne, and for every Business.

Unified IT Architecture Infrastructure is the "New Generation **Flexible** Single or One-Type Directory High Level One, created with the Full Software PLATFORM Wires, **BORN with the complete Natural Internal Wiring Genes**, coming to turn on the *Unifying Hardware and Software Switches* of True **Unified Communications Systems** for EveryOne; for every Business, regardless of size, including a **Single-Sign On** for them within the Comprehensive Custom IT Solutions mix". It's worth noting that the next-generation Integrated and **seamlessly connected** Unified IT Architecture Infrastructure in combination with Unified Communications Solutions has become affordable not only for Large Enterprises with deep IT budgets, *but also for every Small and Mid-Sized Business*.

While Custom IT Solutions may be required to integrate the different software and hardware in an environment the right ways to fit your Business, Work Styles, **Skill Sets** and **the People**, the flexible Unified IT Architecture Infrastructure also makes Business Technology Solutions **affordable for every business**.

Starting... To Building IT-

Apparently, it's highly beneficial to be able to finally build a structured and mature IT interconnected **ecosystem**, seamless eCommerce enabled **e-business**, business-to-business communication systems, **services exchange**; **True B2B Connection points for business partners, contractors/ consultants, subcontractors, business joint ventures**, *regardless of size*, so they'd have dynamic access to **updated partner information** and the **business data** they need with as much ease as though they were directly and physically connected to a business office or site **WhenEver**, from **AnyWhere** they are connecting from.

The Unified IT Architecture Infrastructure being put into place, using the right things, the right skill sets, the right people, the right way, a complete **Technical Failure** of **delicate UC Business Project** would be eliminated, than non-existence of business agility, costly years of very slow and painful business failure, since they're being left behind, which are usually preceded by frustrating futile Re-Engineering and Engineering revisions in an attempt to salvage it.

Start building your Unified IT Architecture Infrastructure today, then you first take the Microsoft Active Directory into that Unified Communications (UC) Environmental Architectural Infrastructural Design Structure, and Implementations, the most widely used World-Wide IT Connectivity Directory acting as the Rock-Solid Directory building block for its Foundation, and very much for your Communications Enabled Business Processes.

IT Solves "Real" Business Connection Needs...

...How?

...by Converging Your Business & its Technologies

...Unifying Your Businesses with its Technologies

...And Connecting Businesses using The Technology.

"Connect" with Globrocks Today, Start Your Journey *Executing the 'How'* On Time, Ahead of Time, In Time, Into The New ERA, The Next-Generation World-Of-Work of Streamlined Communications, for The Unified Businesses!
