



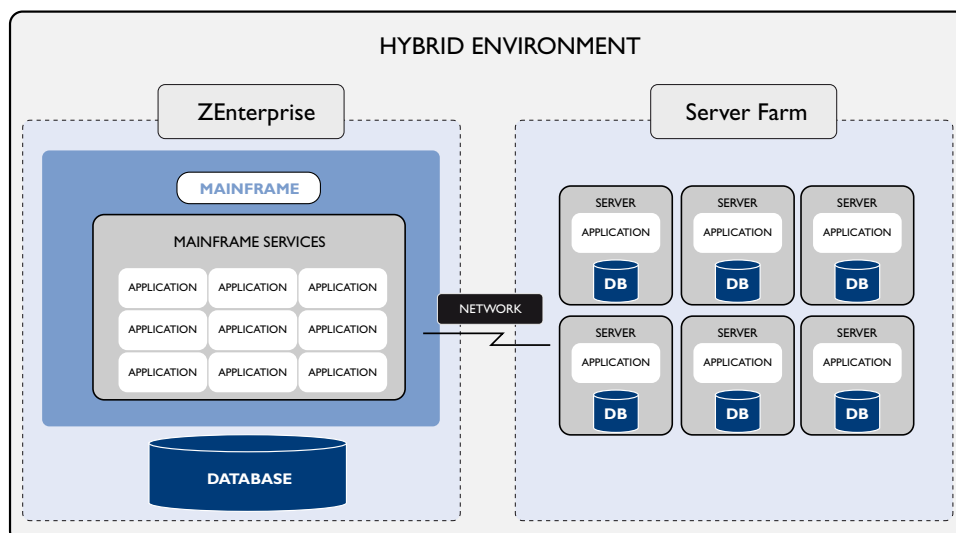
TAP INTO THE POTENTIAL INHERENT IN SERVER AND MAINFRAME CONSOLIDATION WITH LINUX FOR zENTERPRISE SERIES

Consolidation and Migration of Applications and Data equate to a whole myriad of economical and operational advantages

The HTWC XFRAME suite now enables organizations to migrate applications and databases into one homogenous environment with zEnterprise from IBM whilst also enabling the optimal combination of z/OS and Linux in the zEnterprise environment.

THE BEST OF BOTH WORLDS

Leveraging off the success of the Linux operating systems on IBM's zEnterprise, and its XFRAME Application migration suite, HTWC promotes the optimization of IT architectures for organizations currently managing legacy applications in both z/OS and diverse open environments.



It is a two pronged approach based upon the implementation of a Linux Partition on the zEnterprise environment:

1. Migrating applications and data from diverse environments onto the Linux partition within the zEnterprise environment, thus realizing a homogenous and consolidated environment.

2. Migrating legacy applications from z/OS Mainframe onto the Linux partition.

Both steps greatly reduced many aspects of optimization for IT organization resources with minimal effort and hardware investment.

ADDRESSING THE SPRAWL

The middleware enabling the consolidation of Legacy and peripheral applications onto one uniform environment and database

Mergers, acquisitions, growth and technology evolutions, have all contributed to organic and heterogeneous growth of organizational IT and datacenters. The “Sprawl” has led to

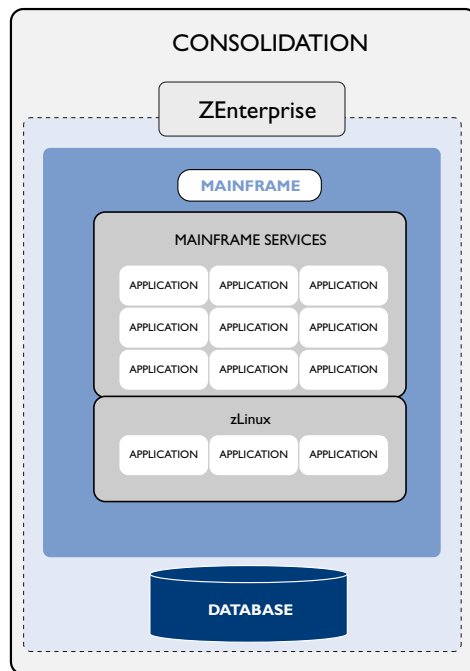
- Extra Hardware costs
- Extra Maintenance costs
- Extra Software costs
- Extra storage Infrastructure
- Extra Network costs
- Back-up limitations
- Higher Energy Costs
- Usage of Space
- Diverse range of skill sets required

Consolidation onto one uniform platform addresses all of these issues, reducing annual operating costs by up to 80%

CONSOLIDATION

The IBM zEnterprise System is capable of bringing System z and distributed technologies together onto one hardware platform and one common DB2 database. A hybrid system that can replace individual islands of computing and that can work to reduce complexity, improve security and bring applications closer to the data they need.

The IBM zEnterprise System provides a smart design for enterprise



computing that helps to unify IT technology through a central end-to-end management of a single pool of heterogeneous systems.

Linux on IBM zEnterprise ((e.g. z196) Linux and z/VM) benefit from the enormous improvements the zEnterprise server capabilities in the areas of consolidation, security, reliability and disaster recovery thus improving greatly the economical and operational advantages available to IT organizations.

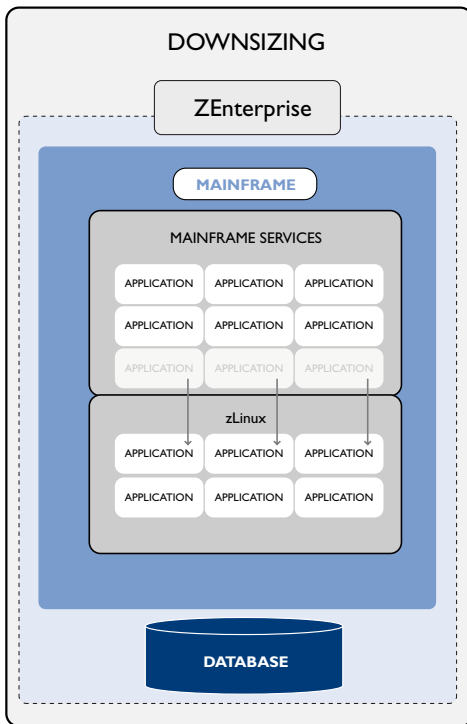
The extreme density can increase the productivity as well, by managing a very large virtual server environment with highest levels of efficiency and business responsiveness.

Also, the redundancy and dynamic allocation of processor, memory and I/O resources allows for highest levels of disaster recovery and business continuance.

HTWC possess the tools and knowhow to re-host applications from UNIX and Linux environments onto the zLinux platform, thus achieving great levels of consolidation and leveraging of the capabilities of the zEnterprise environment.

MIGRATING APPLICATIONS z/OS to ZLinux with XFRAME

Adding further value to the zLinux partition is the ability of HTWC's XFRAME to migrate z/OS applications onto zLinux, thus reducing the overall Mainframe consumptions whilst still availing of the Reliability, Availability and Scalability which typify Mainframe installations.



With XFRAME, it is possible to run the core legacy applications on Linux at lower costs, whilst retaining the Reliability, Availability and Scalability characteristics of Mainframe. In essence, the XFRAME suite, replicates the functionality of the z/OS, enabling the seamless integration of legacy

applications and data into the Linux environment.

It contains a transaction server to execute CICS and IMS/DC applications and a complete batch environment to run Mainframe batch processes from z/OS, in mix mode.

XFRAME supports the most important compilers for COBOL, PL/I and C as well as many standard middleware solutions such as IBM WebSphere, MQ and LDAP servers. Through the Extended Architecture (XA) interface, XFRAME supports the Distributed Transaction Processing / DTP). Java technology is highly integrated onto the XFRAME platform allowing you to mix legacy programs with Java classes.

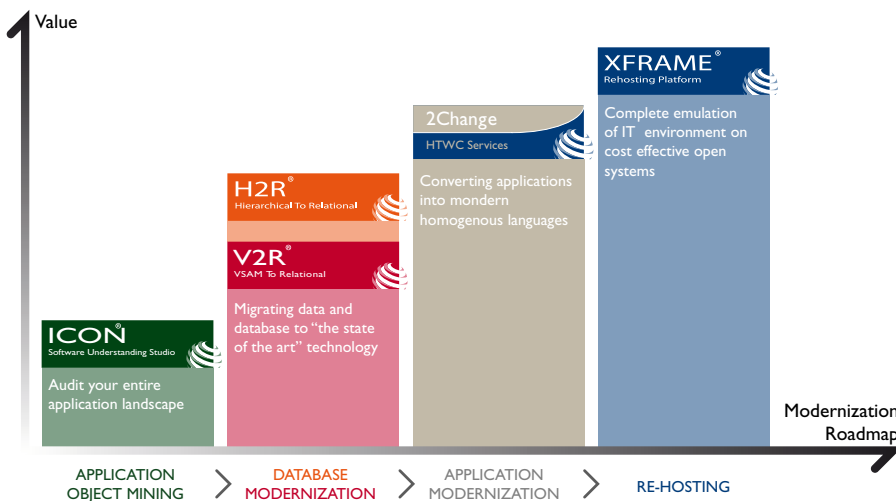
TCP/IP and SOAP based services offer the possibility to deliver legacy services across the enterprise, providing the foundation for developing modern infrastructures such as a Service Oriented Architecture (SOA).

With a complete set of tools and utilities, along with support for a wide range of target platforms, XFRAME offers the most complete migration solution on the market today.

HTWC SOLUTION STACK

HTWC has been engineering migration solutions for more that quarter of a century resulting in the widest array of proprietary Software, Tools and Methodologies designed to efficiently migrate, consolidate and operate a myriad of application and data types from diverse Mainframe environments into a homogenous, efficient, scalable and more cost effective environment.

Project methodology is completely scalable with each step adding immediate value to the application environment.



- > Application Assessment through Application object mining and evaluation
- > Legacy data conversion from VSAM or IMS/DB to RDBMS SQL
- > Language Conversion from a myriad of Legacy languages to COBOL
- > Complete Mainframe emulation

XFRAME DATASHEET

TP HIGHLIGHTS

- XCICS/XIMS Features Highlights
- Full CICS, IMS DB/DC, UTM source compatibility
- High performance scalable architecture
- Transaction integrity/recovery
- Full BMS/MFS support
- Temporary Storage & Transient Data
- File services
- Program & Transaction services
- Multiple DB connectivity
- Inter-System Communication
- TN3270 Server
- Easy configuration
- Remote GUI based administration
- JSP based web wrapper

BATCH FEATURE HIGHLIGHTS

- z/OS, OS/390, MVS & VSE BS2000 jobs conversion
- Customizable JCL batch converter
- Pure Shell scripting
- Mainframe logic preservation
- Runtime VSAM support and VSAM utilities support
- Legacy compatible SORT utility
- ASA & AFP printing support Dynamic PROC parameters
- Substitution support
- XCICS integration for on-line generated jobs
- XBM Features
- GDG support

XBM BATCH MANAGER

- Mainframe-like scheduling system
- Manageable hold job queue
- Database based job tracking
- Log navigation and filtering
- Job chaining
- Event driven job activation/submission
- Calendar based job submitting
- Cross system job control
- Operator alerts and notification via E-mail
- Command line interface
- Remote GUI based interface

SPOOL ENVIRONEMENT

- Batch feeding system
- Web based printout distribution
- Browse, Search & View
- No client-side software

CONNECTIVITY

- Java Clients
- tn3270
- telnet
- TCP/IP Listeners
- LU62
- EZA Socket
- ECI

LANGUAGES

- Assembler To COBOL
- PL/I To COBOL
- CSP/VAG To COBOL
- CA-Easytrieve To COBOL
- RPGII To COBOL
- Partners offer COBOL to C, C# and .NET upgrade paths

RDBMS

- Oracle
- DB2
- MS SQL
- ODBC (Partners can offer IDMS and other DB Support/Upgrades)

COBOL RUNTIME COMPILER

- Micro Focus PL/I Runtime Compiler
- COBOL-IT
- FUJISU (NET COBOL)

DATA

- VSAM to SQL for COBOL and PL/I
- BMS 2 CWI (CICS Web Interface)
- BMS 2 JSF (CICS BMS integrated with J2EE/JSF)
- Field enlargement (i.e. EURO, ZIP CODE, etc.)
- BMS 2 CWI (CICS Web Interface)

▶ We are HTWC®

▶ www.htwc.com

▶ info@htwc.com

▶ +39 06 51964253

- ▶ Absolute market leader in mainframe re-hosting and migration
- ▶ 97% of migration fully automated
- ▶ Over 30 years experience
- ▶ Truly global
- ▶ All sectors