ACHIEVE MORE WITH YOUR LEGACY APPLICATIONS BY MOVING TO THE MORE FLEXIBLE, EFFICIENT AND SCALABLE MICROSOFT WINDOWS ENVIRONMENT

Leverage the technology and operational advantages inherent within the Microsoft Windows based enterprise suite

Microsoft Windows Server 2008 & 2008 R2 and SQL Server 2008 together with XFRAME from HTWC provides a proven Mainframe alternative platform for legacy applications. Completely compatible interface with legacy instances throughout your organization, XFRAME enables a seamless, phased rollout, bringing immediate benefits and excellent performances.

THE MAINFRAME CONUNDRUM

Mainframe is unparalleled in terms of Reliability, Availability, and Serviceability (RAS), which are vital platform characteristics for all enterprise applications, especially the mission critical ones.

However, running applications and data on legacy Mainframes has become cumbersome, inflexible and many of the qualified application developers are reaching retirement age, thus exposing legacy applications to higher costs and stagnation.

On the other side, legacy application entail huge amounts intellectual and cultural capital of organizations. More and more organizations see application migration as a key element of their overall IT strategies.

MIGRATE TO MS WINDOWS SERVER 2008 R2

Microsoft Windows Server 2008 & 2008 R2 and SQL Server 2008

R2, running on the latest Intel Xeon processor 7500 series–based servers, offers a major step forward in efficiency whilst retaining all the

Reliability, Availability, and Serviceability needed.

Windows Server 2008 R2 builds on the award-winning foundation of Windows Server 2008, expanding existing technology and adding new features to enable IT professionals to increase the reliability and flexibility of their server infrastructures.

New virtualization tools, Web resources, management enhancements, and exciting Windows 7 integration help save time, are more cost effective, and provide a platform for a dynamic and efficiently managed data centre. Powerful tools such as Biz Talk, Share Point, Internet Information Services (IIS) version 7.5, updated Server Manager and Hyper-V platforms and Windows PowerShell version 2.0 , as well as Windows Business Intelligence tools combine to give customers greater control, application options, increased efficiency and the ability to react to front-line business needs faster than ever before.

ENGAGING EXPERTS TO MAKE IT HAPPEN

XFRAME is the middleware from HTWC enabling the migration of Legacy applications onto a more cost effective and performance efficient Windows environment.

With XFRAME it is possible to run the core legacy applications on Windows, accessing all the associated advantages, whilst retaining the Reliability, Availability and Serviceability characteristics of Mainframe.
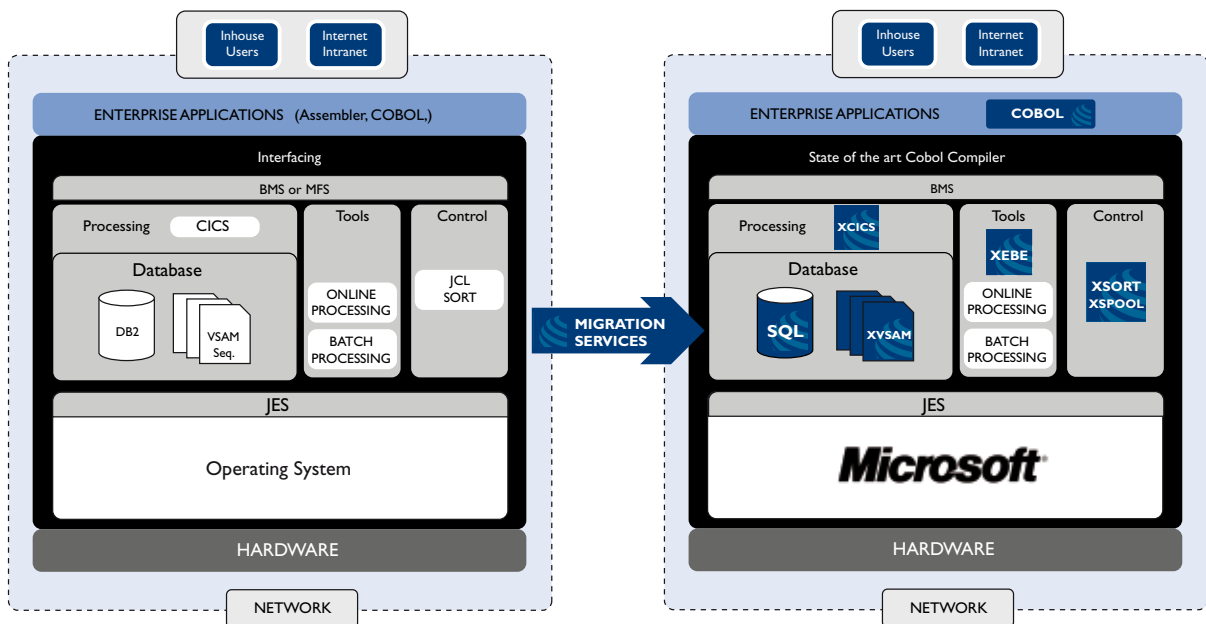
In essence the XFRAME suite replicates the functionality of all Mainframes, enabling the seamless integration of legacy applications and data into the Windows environment.

It contains a transaction server to execute CICS and IMS/DC and UTM transaction, and a complete batch environment to run Mainframe batch processes from z/OS, VSE and BS2000 systems in mix mode.

XFRAME supports the most important Windows 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).

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.

As of 2010, XFRAME support System Centre Operation Manager (SCOM) and SNAvv

Migration Diagram

Source (left):
- Inhouse Users | Internet Intranet
- ENTERPRISE APPLICATIONS (Assembler, COBOL,)
- Interfacing
- BMS or MFS
- Processing: CICS
- Database: DB2, VSAM Seq.
- Tools: ONLINE PROCESSING, BATCH PROCESSING
- Control: JCL SORT
- JES
- Operating System
- HARDWARE
- NETWORK

MIGRATION SERVICES

Target (right):
- Inhouse Users | Internet Intranet
- ENTERPRISE APPLICATIONS | COBOL
- State of the art Cobol Compiler
- BMS
- Processing: XCICS
- Database: SQL, XVSAM
- Tools: XEBE, ONLINE PROCESSING, BATCH PROCESSING
- Control: XSORT XSPOOL
- JES
- Microsoft
- HARDWARE
- NETWORK

BUILT BY PROFESSIONALS FOR PROFESSIONALS

System Performance Monitor – HTWC and WINDOWS provide intuitive interfaces to enable administration staff monitor and trouble shoot their new environment.

Partners and clients enjoy remote access to the HTWC lab to experience at first hand tools and products
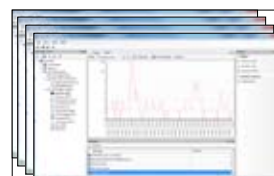Under the supervision of dedicated experienced specialists.

Multiple XCICS Monitoring

XCICS Engines Workload

XCICS Transaction History

XCICS Control Table

HTWC
High Technology World Company

XFRAME®
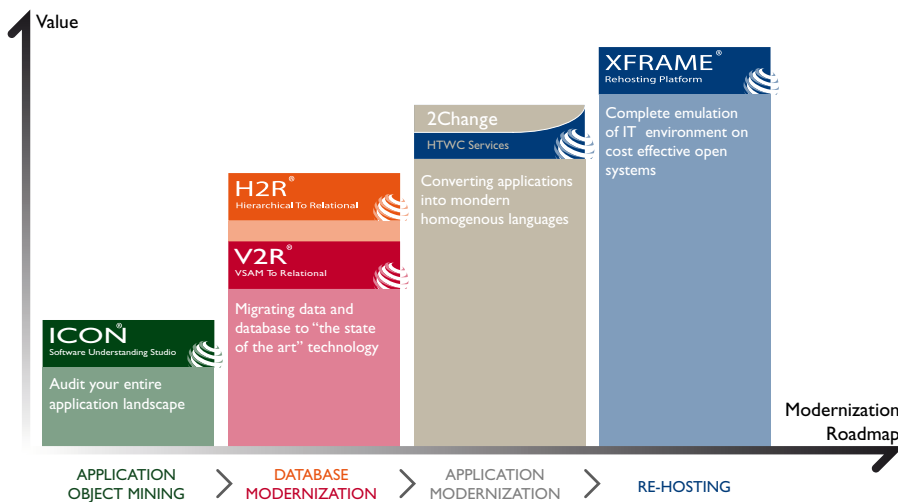Rehosting Platform

Windows

HTWC SOLUTION STACK

HTWC has been engineering migration solutions for more than 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 Windows environment.

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

Value

XFRAME®
Rehosting Platform
Complete emulation of IT environment on cost effective open systems

2Change
HTWC Services
Converting applications into modern homogenous languages

H2R®
Hierarchical To Relational

V2R®
VSAM To Relational
Migrating data and database to "the state of the art" technology

ICON®
Software Understanding Studio
Audit your entire application landscape

Modernization Roadmap

APPLICATION OBJECT MINING › DATABASE MODERNIZATION › APPLICATION MODERNIZATION › RE-HOSTING

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

WHATEVER THE DRIVERS

SCALABLE

Banco Popolare, is a major international financial institution with Italian revenues published for 2009, in excess of €2,000M. Employing 21.000 people, BP has embarked on a program to migrate the IT operations of its many subsidiaries off the Mainframe onto Microsoft Windows Server 2008 R2 and SQL Server 2008 R2.

This program has been divided into several projects, the first of which is in the completion phase, whereby the applications have been seamlessly Migrated onto Windows from 12 of its Subsidiaries, whilst the complete compatibility with the legacy systems is retained.

"We implement in accordance with the clients wishes. Our methodology enables a production line, risk free roll out, with 12, subsidiaries taking in the region of 4 months, with no impact on operations"

Dr. Marco Grossi, CEO HTWC

MODERNIZATION STRATEGIES

When the City of Montpellier decided to re-write its main applications in ASP.NET, it faced the dilemma of retaining the Mainframe to platform its Batch environment, thus exposing itself to higher costs. HTWC Migration services suite where a great complement to the project. Within the space of 4 months the entire batch environment had been seamlessly migrated to Windows 2003 and SQL server.
Due to high levels of automation, most of the effort concentrated on ensuring quality, integrity and functionality.

ECONOMICAL

"Migrating our Applications from BS2000 to Windows 2003 and SQL Server, has been risk free, smooth, and achieved it's goals. We significantly lowered our license and maintenance fees, by up to 75% per year… and are now more future proof"

Mr. Thomas Kirchrath, Head of Information, Technology, Director, Chamber of Industry and Commerce, Cologne Germany

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
- 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 initiators
- Manageable hold job queue
- Database based job tracking
- Log navigation and filtering
- Job chaining
- Event driven job activation
- 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
- 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)

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