

SHARE

Technology • Connections • Results

CICS Web Services - Vendor Shootout

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Jim Crew, SOA Software
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Session 8268





SHARE 2011
Anaheim, CA

CICS Web Services Vendor Shootout

Russ Teubner, Founder & CEO

Who Is HostBridge Technology?

❖ CICS integration software company

- Founded in 2000
- We create and deliver software products that help CICS customers save time and make money

❖ Serving large organizations worldwide

- Experian, Clarke American, PACCAR, State of Arizona, Lockheed-Martin, NYCDOE, Navy Federal Credit Union, NISSAN

❖ IBM and CA Technology Partner

- Ready for SOA, Ready for Tivoli, Ready for Rational,
- CA Smart Certified: CA Ideal™, CA ADS™, CA Gener/OL™, CA Telon® Application Generator



Modernization Approaches



SOA Enable / Integrate

Reuse / Enhance in Place

Re-Architect

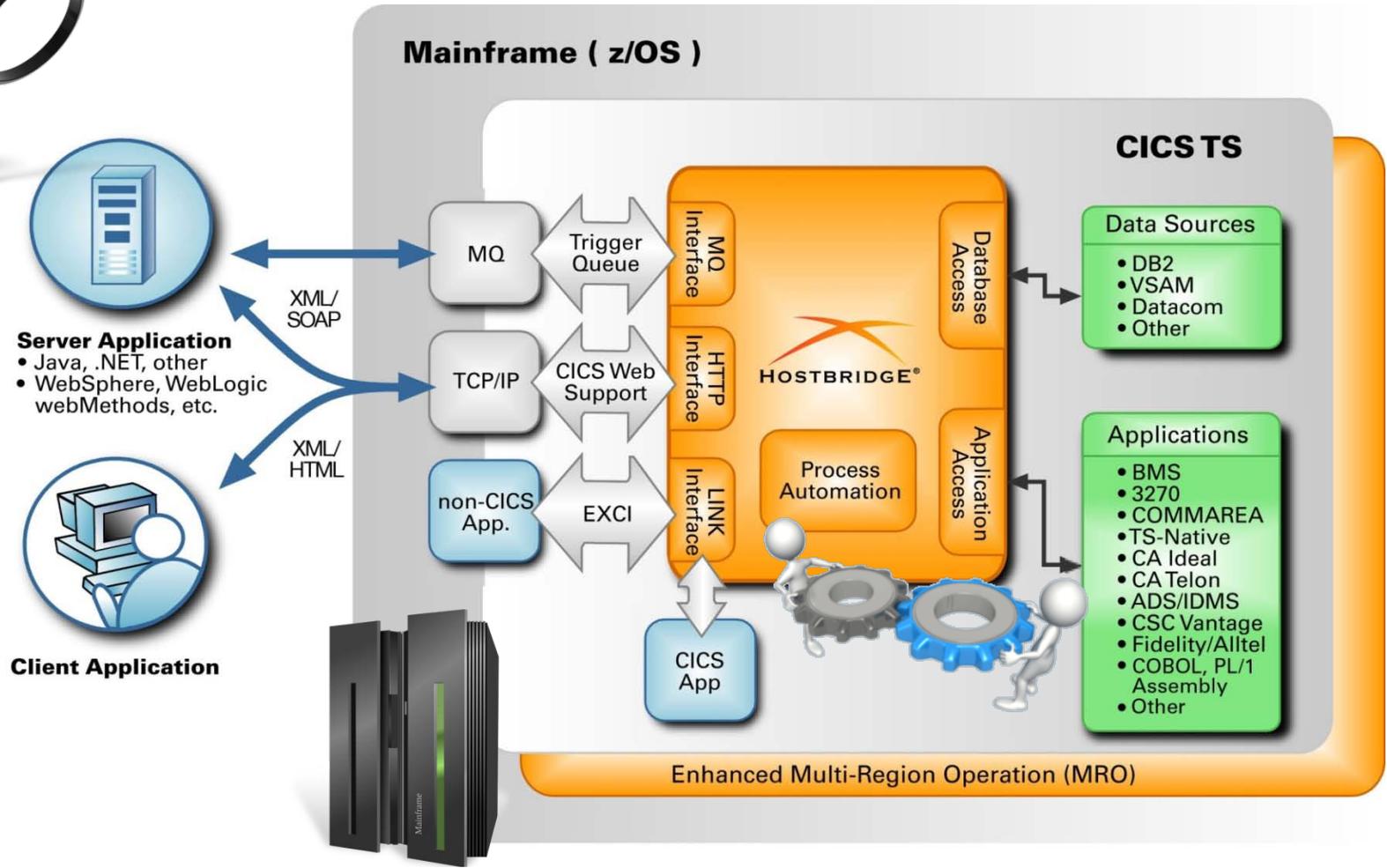
Re-Host

“Modernization”

Replace

Migrate

Integration Architecture



■ People and programs accessing HostBridge

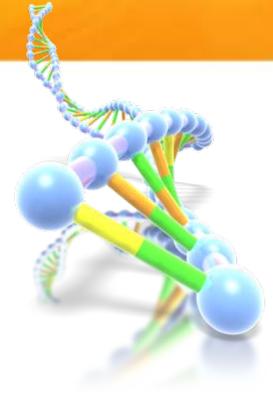
■ IBM infrastructure components

■ HostBridge integration components

■ Existing CICS applications and data sources

Our DNA

- ❖ **Focus on customer's priorities**
 - Every major feature reflects customer collaboration
- ❖ **“High-Fidelity” integration**
 - Deep application integration and micro-flow control
- ❖ **Obsess about performance**
 - Every microsecond counts
- ❖ **Exploit what's already in CICS**
- ❖ **Leverage industry standards**
 - XML, HTTP, JavaScript, Eclipse, WOA, SOA
- ❖ **Innovate and do the hard stuff**
- ❖ **CICS, CICS, CICS**



We Like to Pioneer



- ❖ **CICS integration using the 3270 Bridge and XML**
(US, Canadian, EU Patents)
- ❖ **Enhanced MRO support**
(overcomes “symmetrical AOR” assumption of 3270 Bridge)
- ❖ **Support for BMS PAGE, ACCUM and PAGING**
(allows use of 3270 Bridge with broader range of apps)
- ❖ **Deep, map-level support for CA and other app platforms**
(Ideal, ADS/IDMS, Telon, Gener/OL, CSC, Fidelity/Alltel)
- ❖ **Dynamic scripting inside CICS to implement services**
(absolute control of service flows using JavaScript)
- ❖ **Eclipse as basis of CICS integration tooling**
(compliments IBM’s RDz direction, without requiring it)
- ❖ **zIIP enablement of LE-compiled code**
- ❖ **zIIP exploitation inside the CICS environment**



End Result: Speed to Market

❖ Auto Manufacturer

- 40 mainframe web services in 35 man days

❖ Municipality

- 11 production web services in 9 man days

❖ Health Insurer

- ❖ Writing web services on day 2

❖ Life Insurance Provider

- 12 complex web services in 3 months

❖ Bank

- 7 prototype web services in 4 days



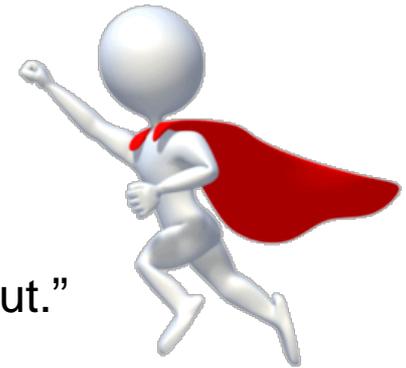
Speed to Market – Customer Quotes

❖ Question:

- How much more productive are you when using HostBridge and our tooling (Eclipse/JavaScript)?

❖ Answers:

- Professional Services Contractor
 - “I am at least 3 times more productive in general.”
 - “I am 25 times more productive with ACORD XML output.”
- Production Control Manager, Regional Bank
 - “You’re asking the wrong question. It’s not about the productivity of a single individual. By using the HostBridge tools we now have entire groups of developers that have the skills and are excited about writing and supporting web services for the mainframe.”



What We Don't Do

❖ We don't do modeling

- Modeling is fine at the macro-flow level, but sucks at the micro-flow level
- CICS transactions are inherently fine-grained

❖ We don't screen scrape

- Screen scraping is for sissies who don't want to take the time to really understand the architecture of CICS-based apps

❖ We don't try to make our approach fit every platform

- HostBridge is specifically designed to exploit CICS features and leverage CICS apps – not IMS, zLinux, iSeries, etc.



What We Do

❖ The hard stuff!

- Complex, high-volume CICS environments
- Deep integration with real-world CICS apps

❖ Provide extreme precision & control

- Micro-flow & service orchestration
- Full SOA or light-weight WOA – you chose

❖ Accelerate integration projects

- Standards-based; leverage existing skill sets
- No changes to existing apps

❖ Lower Costs

- 100% of your integration services run on zIIP and inside CICS
- Flexible licensing – from volume based (pay-as-you-go) to enterprise-wide licensing





How BIG are your savings?

**How big are
your integration
workloads?**

HostBridge[®] for zIIP

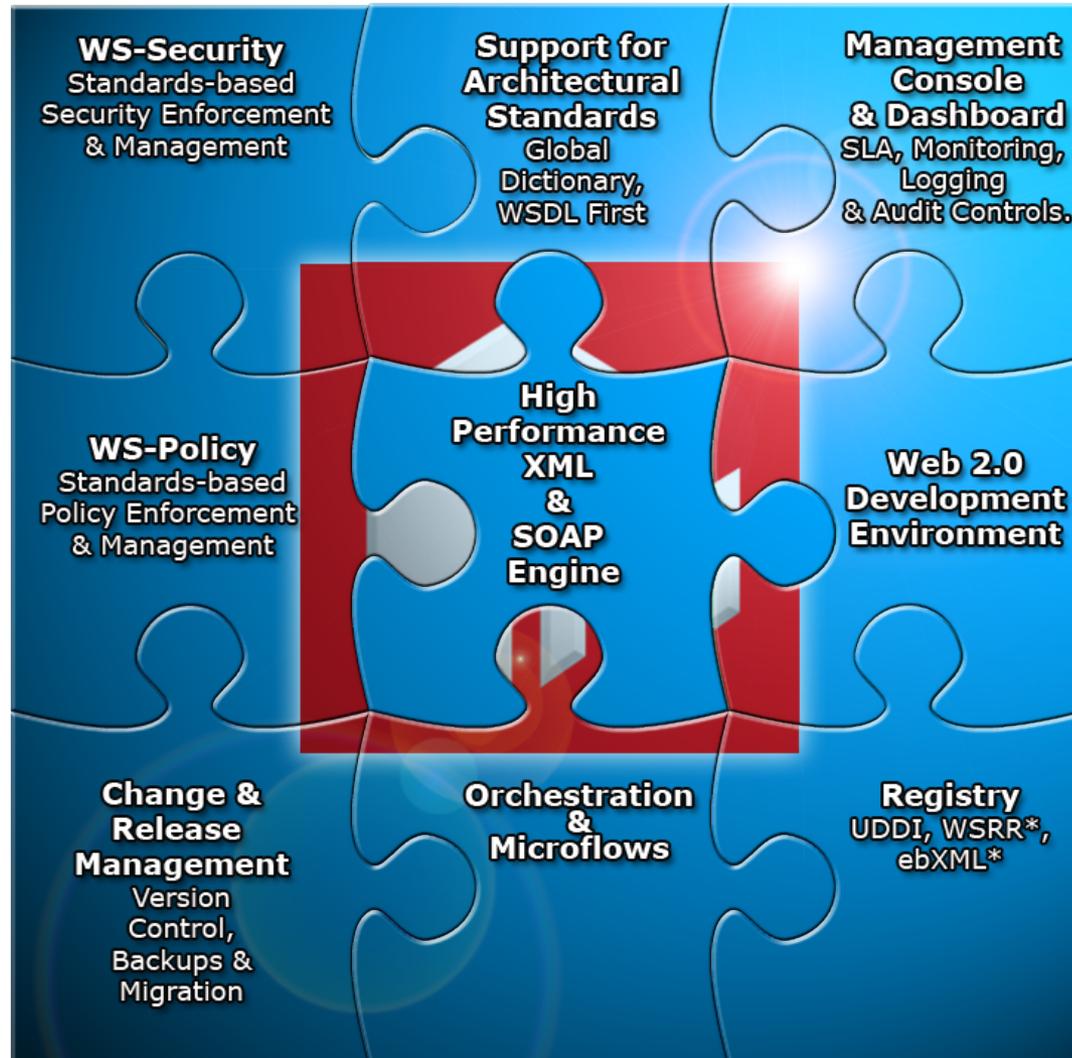
www.hostbridge.com | 866-965-2427



Enterprise SOA on the Mainframe



SOLA . . . Fully Assembled, Governance Built In



Now that we've figured out the right components...



It's time to start thinking about other dimensions.

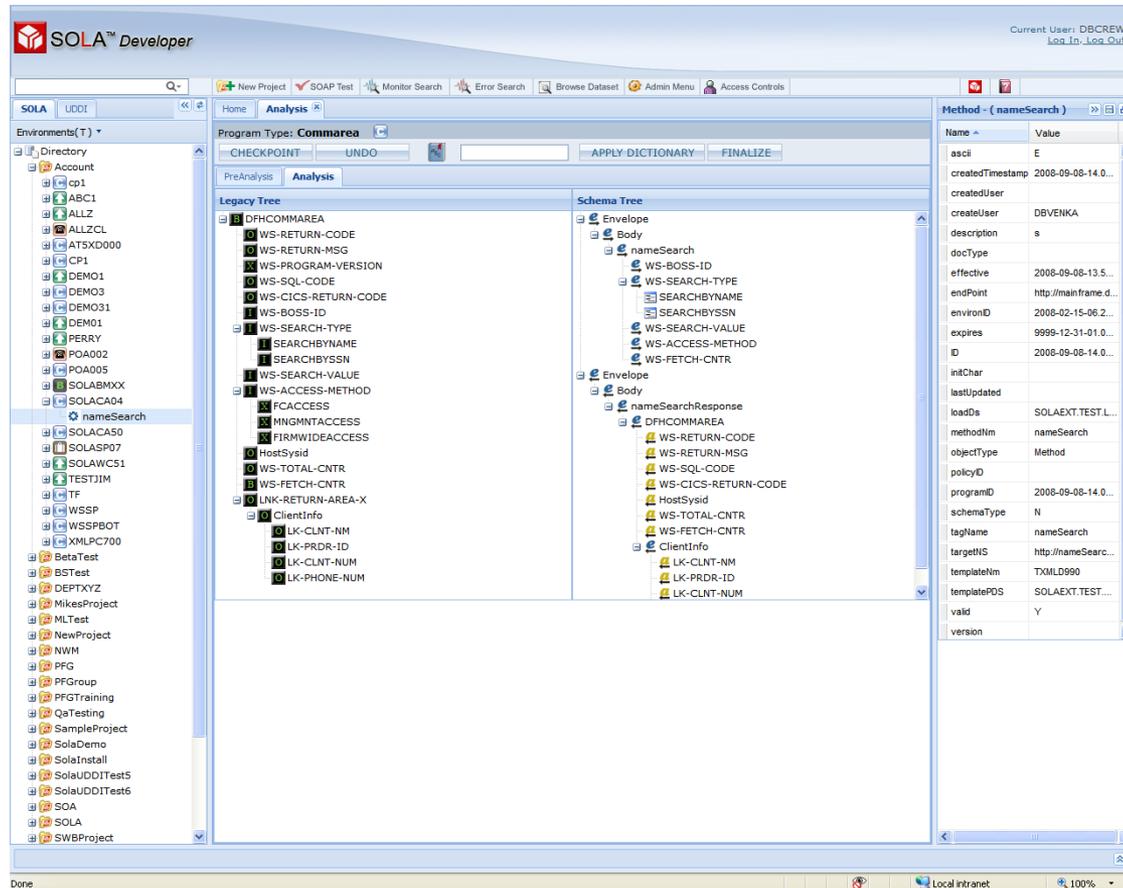
Enterprise SOA is more than a Jigsaw Puzzle...



Successful implementations must address:

- Human Assets
- Scalability and Adaptability
- Infrastructure
- Development
- Governance

SOLA features a Web 2.0 Development Studio with intuitive drag and drop capabilities. Workflow efficiency, ease of use and developer productivity are extraordinary.



SOLA Features:

- Web 2.0 Developer and Mainframe Runtime.
- CICS, IMS and Batch
- COBOL and PL/I. Commarea, Channels/Containers and Callable.
- Automatically determines the signature of a program by reading the source
- Publishes complex 3270 transactions as request-response services.
- DB2 Stored Procedures, Dynamic SQL, VSAM and custom programs.
- Heuristic dictionary converts mainframe variable names into service names.
- Integrated UDDI Registry.
- Supports WS-Security and WS-Policy.
- Monitoring, Logging, Auditing & Alerts.
- Integrates with Change Management.

Summary

- SOLA is the enterprise class mainframe SOA solution.
- SOLA offers end-to-end governance and unlimited scalability.
- SOLA runs the world's largest mainframe SOA implementations.
- SOLA offers integrated monitoring, logging, auditing, WS-Security and WS-Policy on the mainframe
- SOLA implements the entire SOAP stack on the mainframe, inheriting the mainframe platform's legendary speed, reliability, scalability and manageability.
- SOLA offers a complete SOA solution; there is no need to integrate multiple products when building an enterprise-class SOA .
- SOLA is the only mainframe SOA product to offer closed-loop Governance automation.
- SOLA is the only secure, standards-based, and governable product in the space.
- SOLA was built from the ground up with efficiency, cost savings and performance as primary goals.

Driving Value While Containing Costs with Ivory



Rob Morris
Chief Strategy Officer

March 1, 2011

What Drives Value and Contains Cost?

- No code!
 - Don't write it – don't generate it
- No changes...
 - Use programs, interfaces, screens AS IS!
- Choices...
 - What services look like, what's included, where they run
- Specialty engines
 - zIIP, zAAP, and IFL
- Time
 - How long to deliver and maintain the “right” services

Agenda

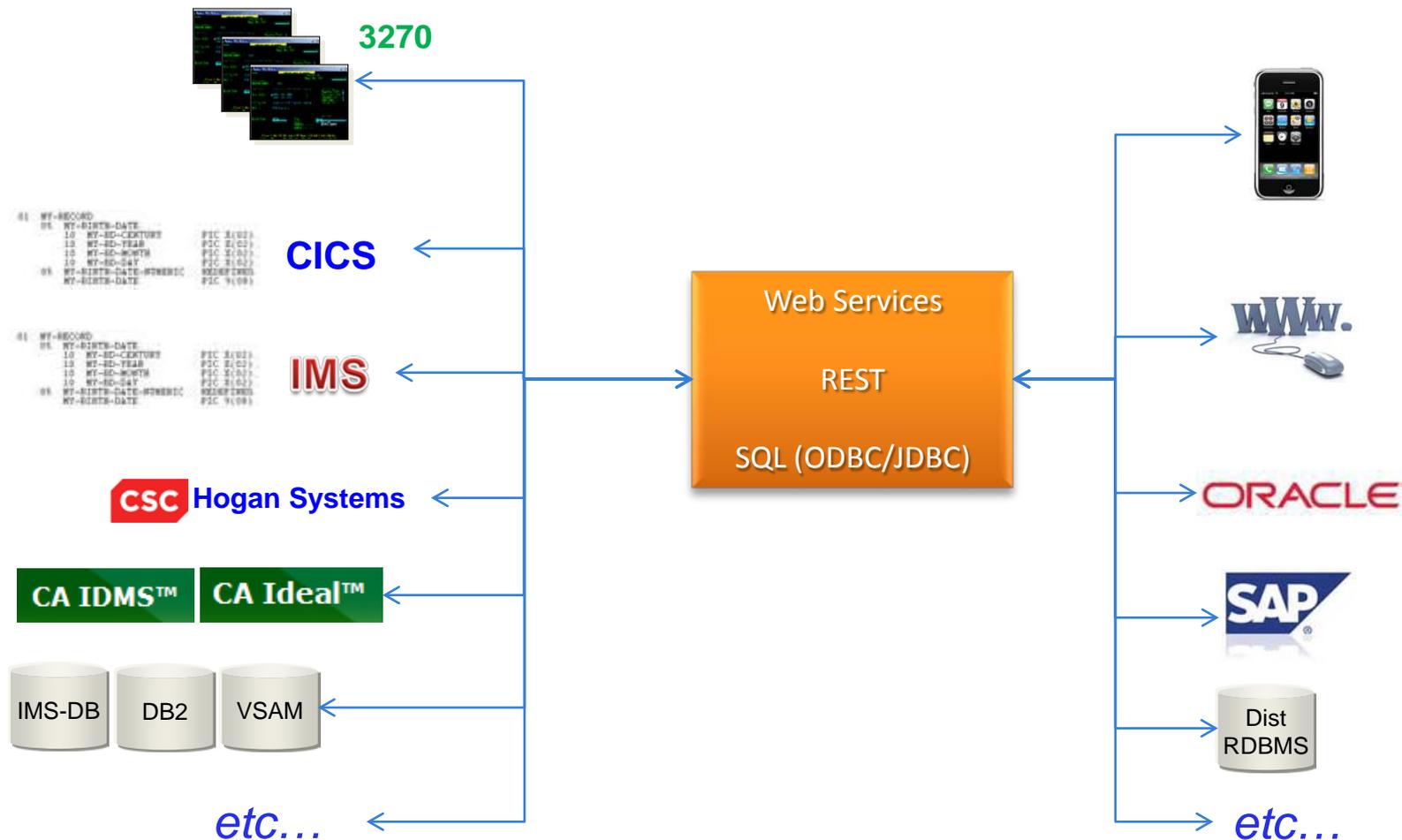
- Who is GT Software?
- Defining the mainframe integration problem
- Why Ivory delivers perfect, cost-effective integration
- Parting thoughts...

Company Background Matters...



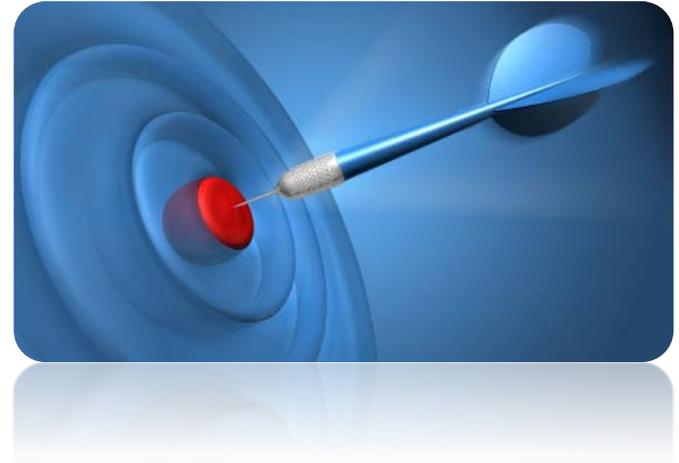
- History
 - Founded in 1982
 - Consistently profitable for 25+ years
 - Worldwide sales and support network
- Laser focused for today and the future...
 - Integration and SOA
 - Mainframe tools and technologies

Mainframe Integration Issues and Opportunities



5 Factors for Effective Mainframe Integration

1. Defining the interface
2. Assembling the artifacts
3. Deployment
4. Time to deliver
5. Flexibility to change



Ivory Proof Points

- **Rapid**

- Lightweight development tools
- No coding or code generated



- **Easy**

- Near-zero learning curve to access deep feature set
- BPM-like development metaphor

- **Proven**

- Banking, Insurance, Manufacturing
- Thousands of services, millions of transactions

Ivory Development Benefits – Save Money

Orchestrate single or multi-step web services

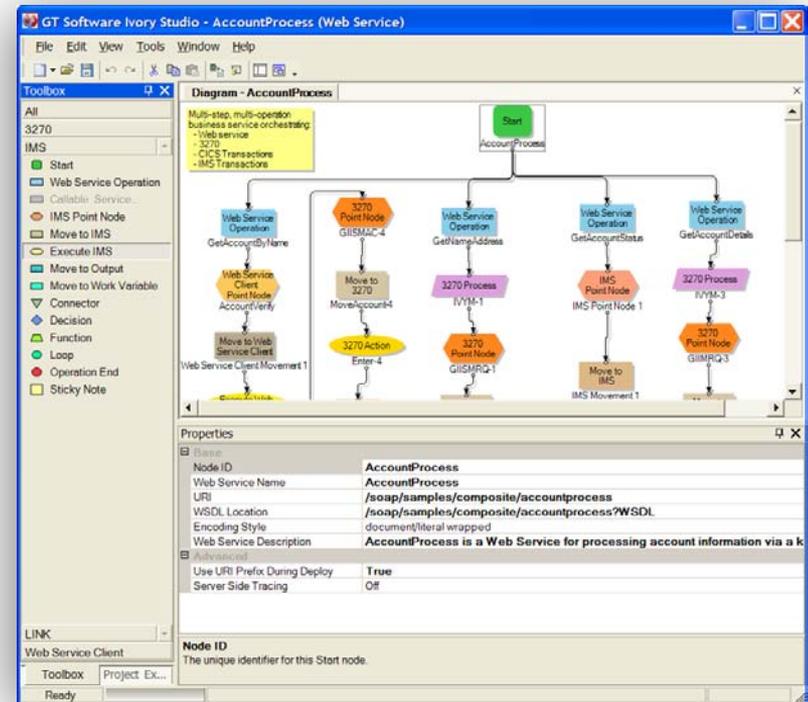
- **No coding** saves time and money
- Enhances distributed SOA / integration / BPM solutions

Single tool for all mainframe artifacts

- CICS, IMS, CA IDMS, CA Ideal, Natural, TN3270, Link3270, MQ Series, Data, and Web services

Benefits

- Incredibly fast development and maintenance
 - **No training** required
 - Visual tool makes it **easy to “see” the service**
 - **No coding** or code generation
- **Lightweight** studio with minimal pre-req's
- Delivers **perfect** mainframe integration



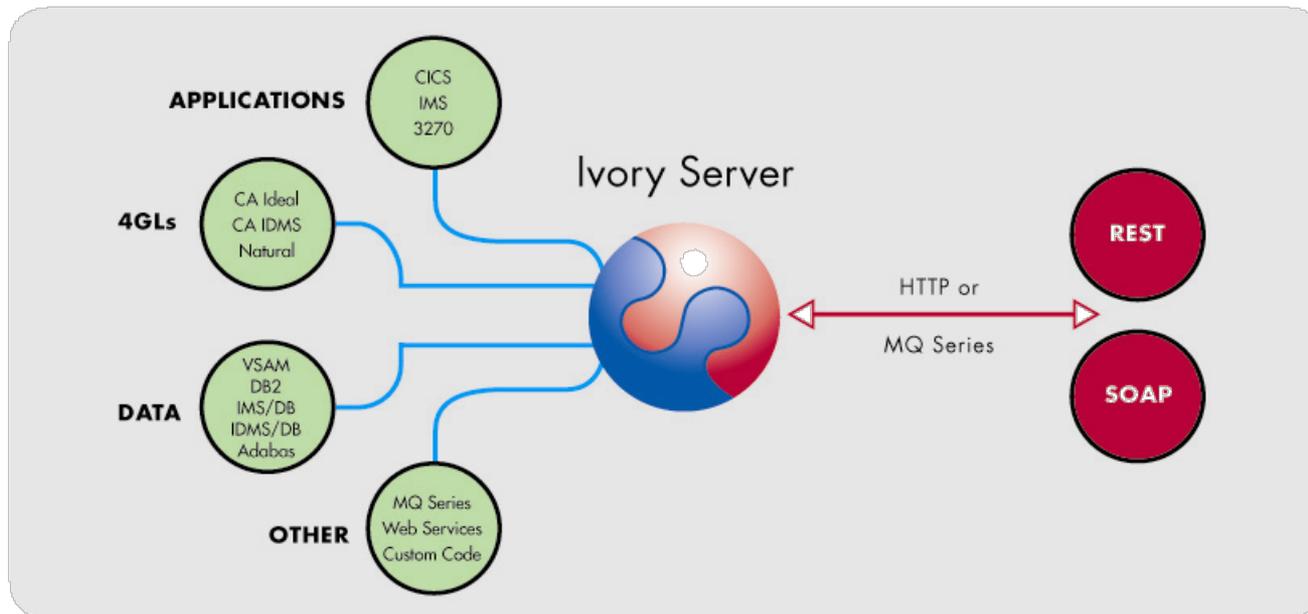
Ivory Deployment Benefits – Save Money

Save MIPS using zIIP, zAAP or IFL specialty engines

Cross-platform deployment...

...*on* mainframe - CICS, Started task, Linux on z

....or *off* mainframe - Windows or Linux



Drive Value and Save Money

Metric	Description	Ivory
Copybook data type support	ODO, Redefines	Yes
XML data type support	Any, Choice, Complex, etc.	Yes
XML schema support	Industry standard and proprietary	Yes
On-board Specialty Engines	zIIP or zAAP	Yes
Linux on z	Yes	Yes
Off-platform deployment	Yes	Yes
Ability to include more than CICS transactions	BMS, 3270, IMS, CA Ideal, CA IDMS, Natural, COBOL, PL1, etc.	Yes
Outbound services	Online and Batch	Yes
Version independence	CICS or System z	Yes
SOAP and REST	Choice of invocation method	Yes
Code?	Written or generated	Yes

Ivory Drives Value and Contains Costs

- No code!
 - You don't write any – Ivory doesn't generate any
- No changes...
 - Ivory uses programs, interfaces, screens AS IS!
- Choices...
 - Ivory enables complete freedom to determine what services look like, what's included, and where they run
- Specialty engines
 - Ivory leverages zIIP, zAAP, and IFL
- Time
 - Ivory slashes how long it takes to deliver and maintain the “right” services



- ✓ Rapid. Easy. Proven.
- ✓ Reduced Costs and No Financial Risk

There's No Reason Not to Try
**Ivory[®] For Your Next
Mainframe Integration Project.**



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