

UNITE 2008 Technology Conference

User Case Studies - Building Real Time Applications with Web Services

F. Guy Bonney
MGS, Inc.

Session MCP4045

2:45pm – 3:45pm

Monday, October 20, 2008

MGS, Inc.

- Software Engineering, Product Development & Professional Services firm founded in 1986
- We provide products and services to solve business problems:
 - **Software Engineering Services**
 - **Professional Services**
 - ❖ **Management Support Services**
 - ❖ **Consulting and Technical Services**
 - ❖ **Application Development Services**
 - **Product Development**
 - ❖ **Performance/Capacity Management**
 - ❖ **Web Services**
 - ❖ **MCP Terminal/Client Access with encryption**
 - ❖ **MCP service utilities**

Web Services - Case Studies

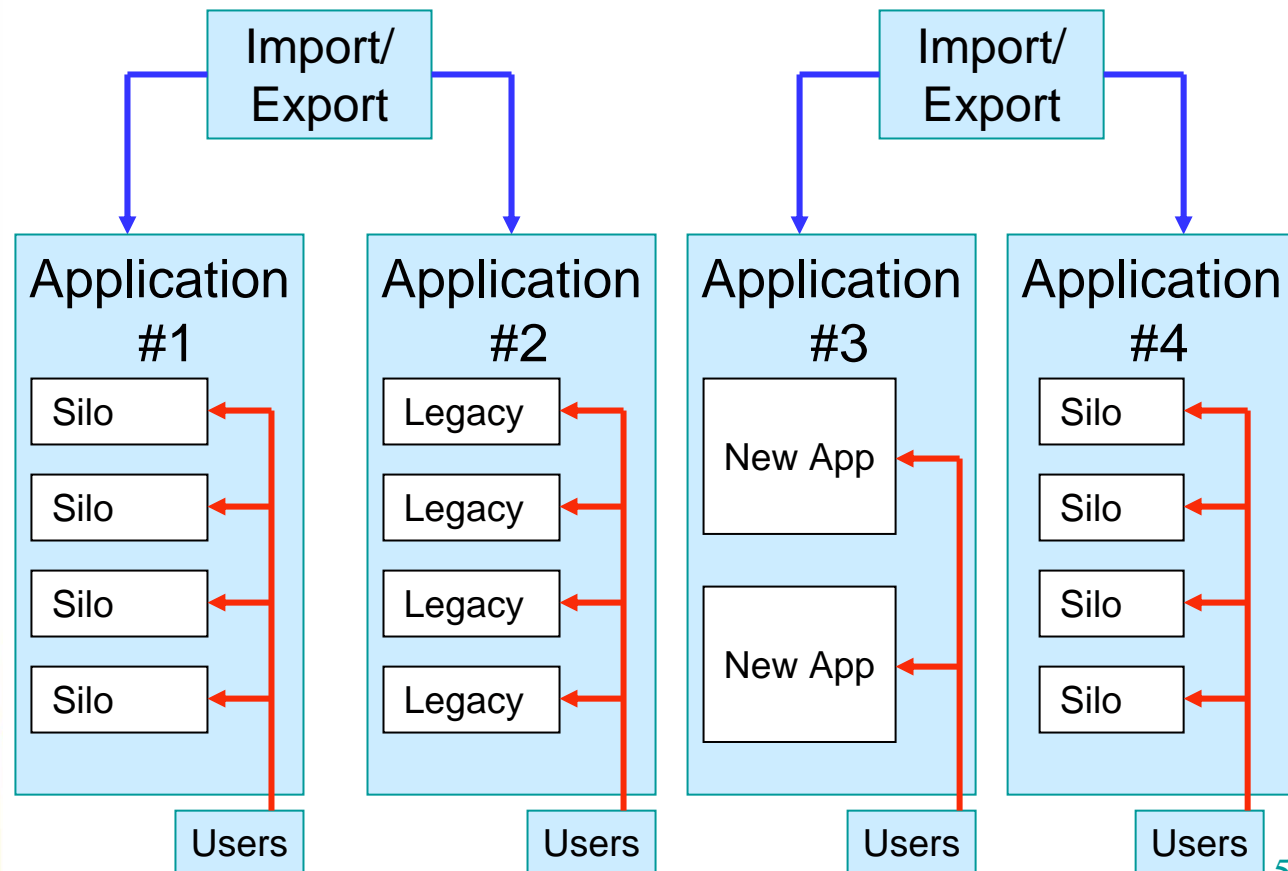
- In this presentation you will learn about ...
 - Services Oriented Architecture based on Web Services
 - MCP systems participation in an SOA
 - Examples of actual solutions
 - ❖ Customer examples of MCP based Web Services servers
 - ❖ Customer examples of MCP applications accessing data from external Web Services

Services Oriented Architecture

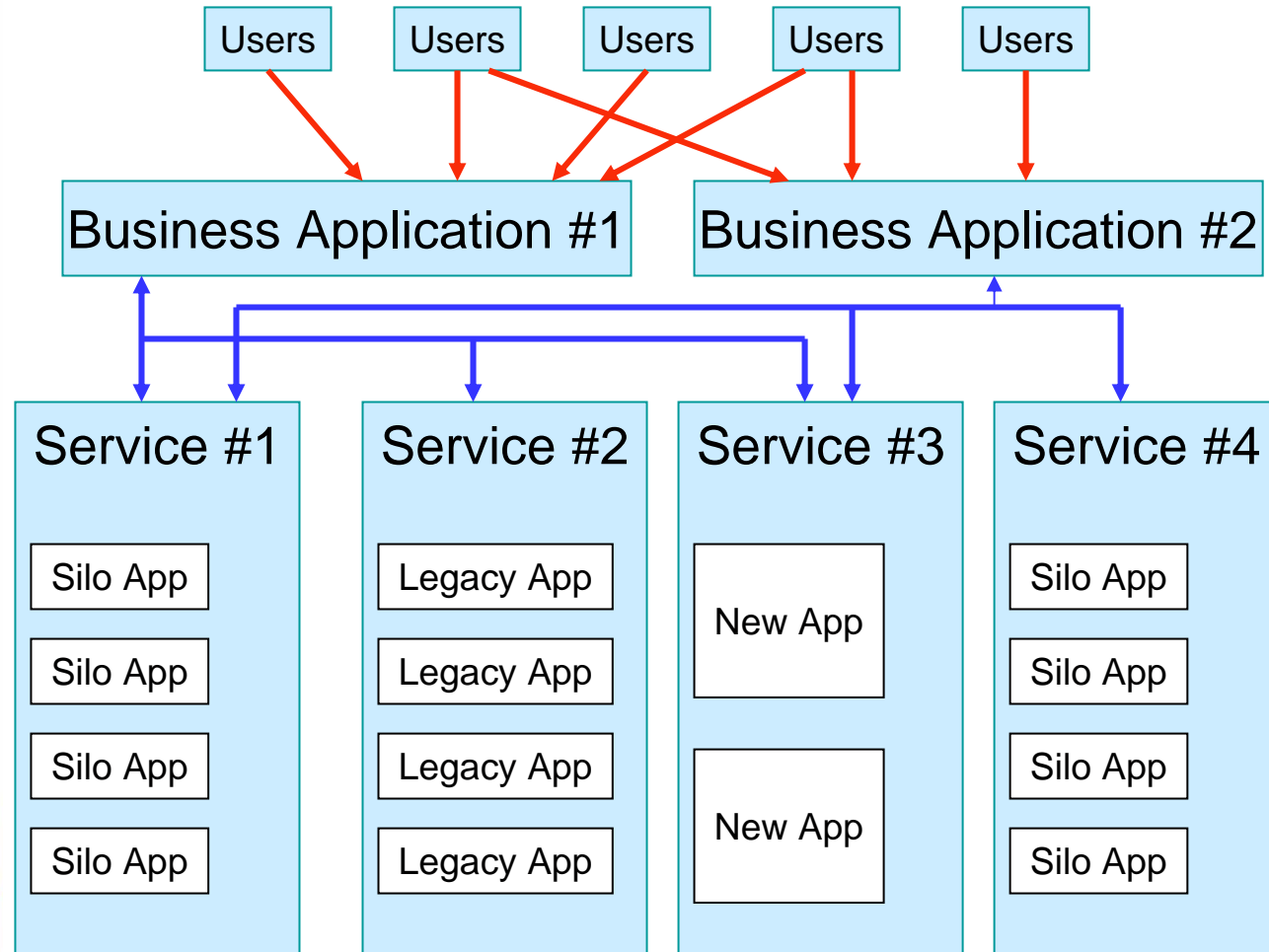
- Services Oriented Architecture (SOA)
 - Componentize new Enterprise business functions
 - Encapsulate existing business functions for easier access
 - IT Functionality now available as a set of objects that can be mixed and matched as needed
 - Application development done by architecting service consumers
 - Avoids tying a user to a specific application implementation
 - Avoids tying data to a specific application implementation

Services Oriented Architecture

- Traditional IT Architecture



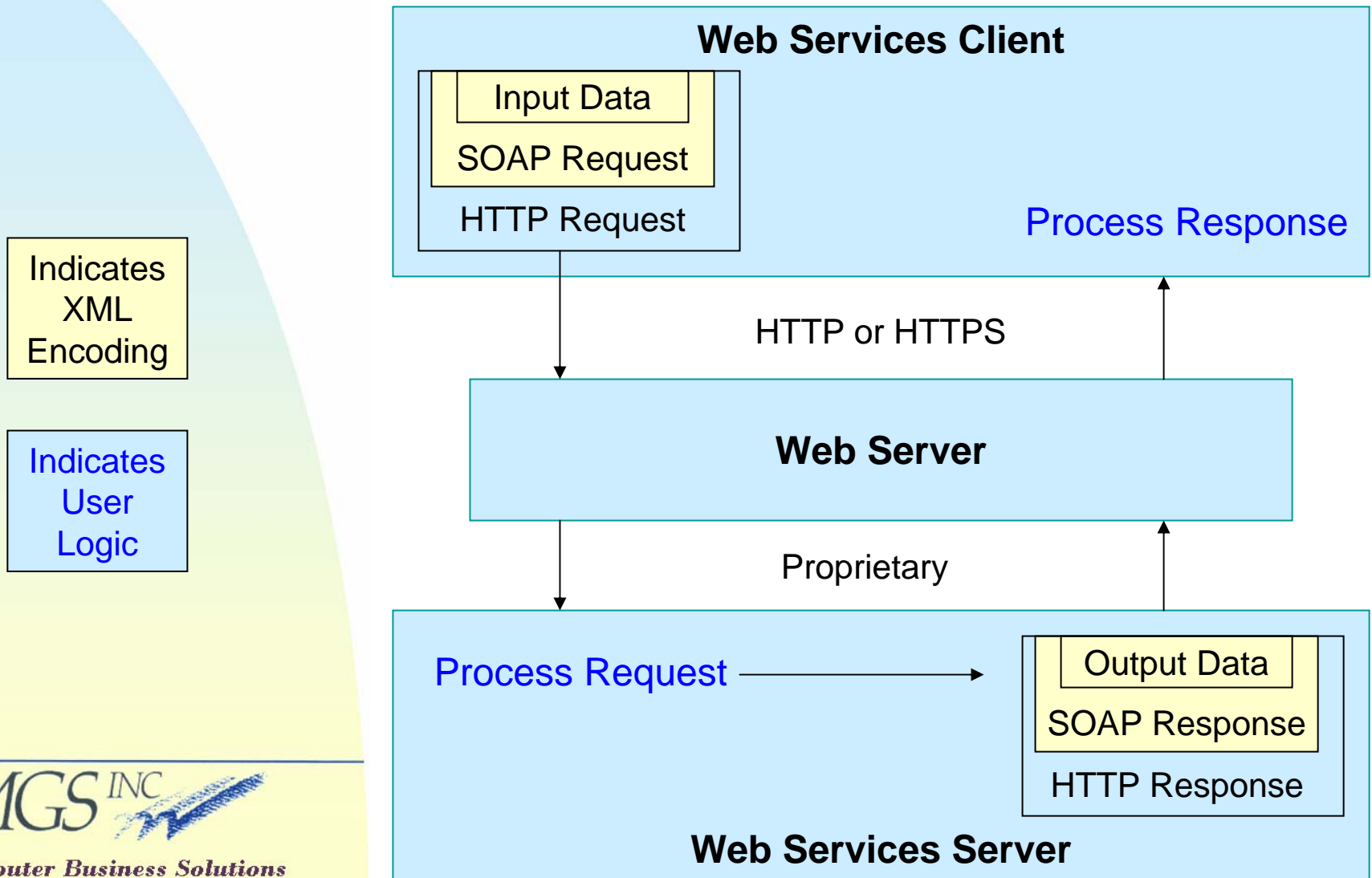
Services Oriented Architecture



Web Services - Technology

- Web Services is built on Internet communications standards
 - **HTTP** – HyperText Transfer Protocol
 - **SOAP protocol**
 - **XML** – eXtensible Markup Language
- Server and Client communication done by generated/managed code synchronized through the **WSDL**
 - Web Services Description Language
- Web service is addressed with the server's URI obtained from the WSDL

Web Services - Technology



Web Services - MCP

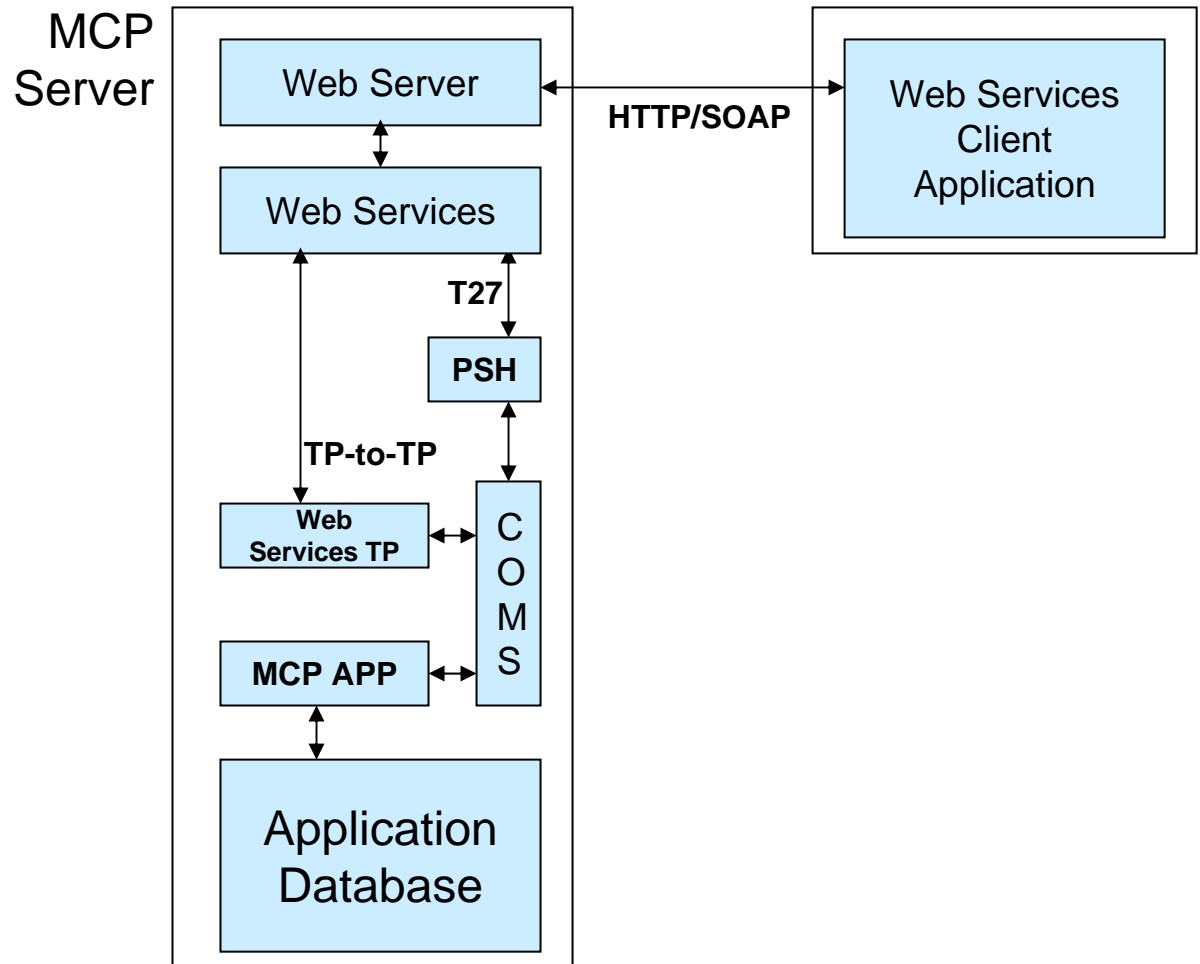
- **MCP Web Services Server**
 - Allow MCP functionality to be easily accessed from the rest of the Enterprise
 - Can be done with minimal/no MCP application code changes
 - Extends value of corporate investment in MCP environment
 - Allows MCP applications to directly participate in a Service Oriented Architecture (SOA)
- **MCP Web Services Client**
 - Web Services Client interface allows MCP environment to use existing Enterprise SOA functionality

Web Services - MCP Server

- MCP Based Web Service
 - Web Service Server runs under MCP control
 - Routes to MCP App via COMS station or COMS TP-to-TP
 - T27 interface (COMS station) requires no changes to existing code
 - TP-to-TP is more efficient (no screen scraping), allows for larger data interchange, fosters transaction recombination

Web Services - MCP Server

- MCP Based Web Service

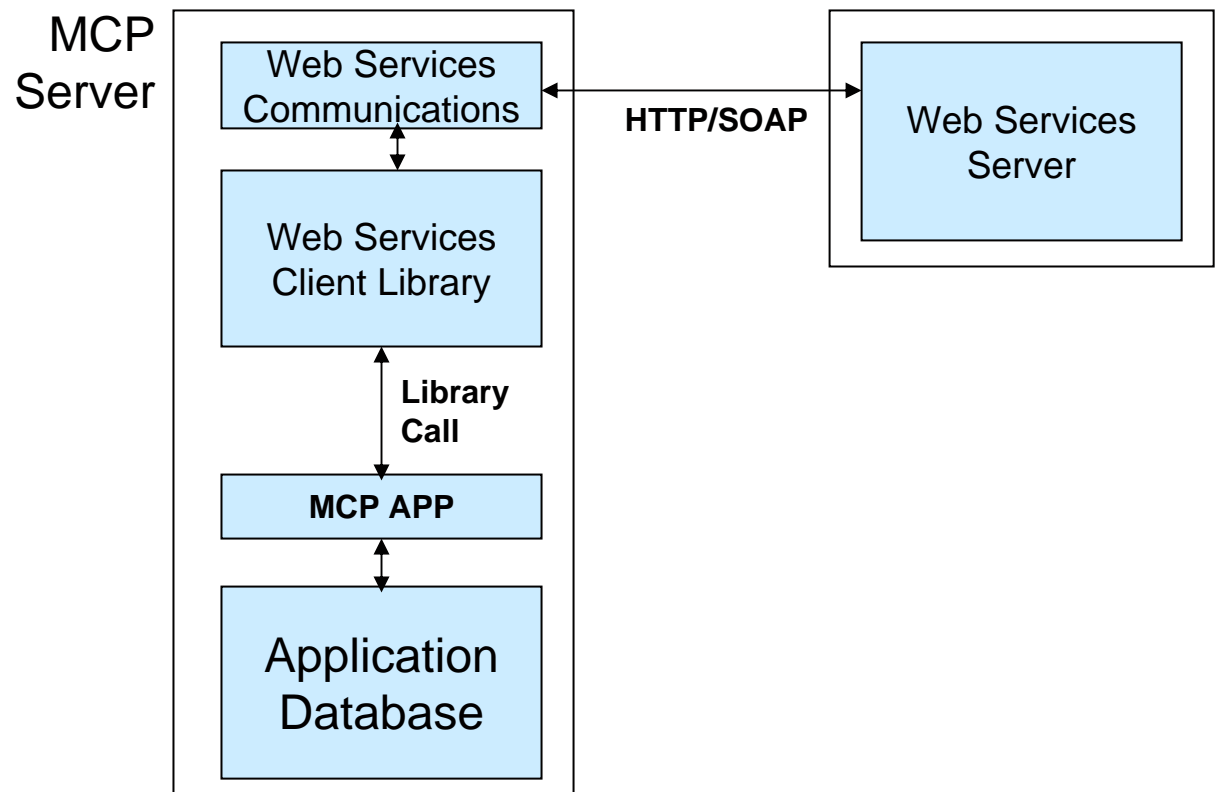


Web Services - MCP Client

- MCP Based WS Client
 - Allows MCP applications to make a Web Services call on another server
 - MCP Application does a simple library call to make the outbound WS Client call

Web Services - MCP Client

- MCP Based WS Client



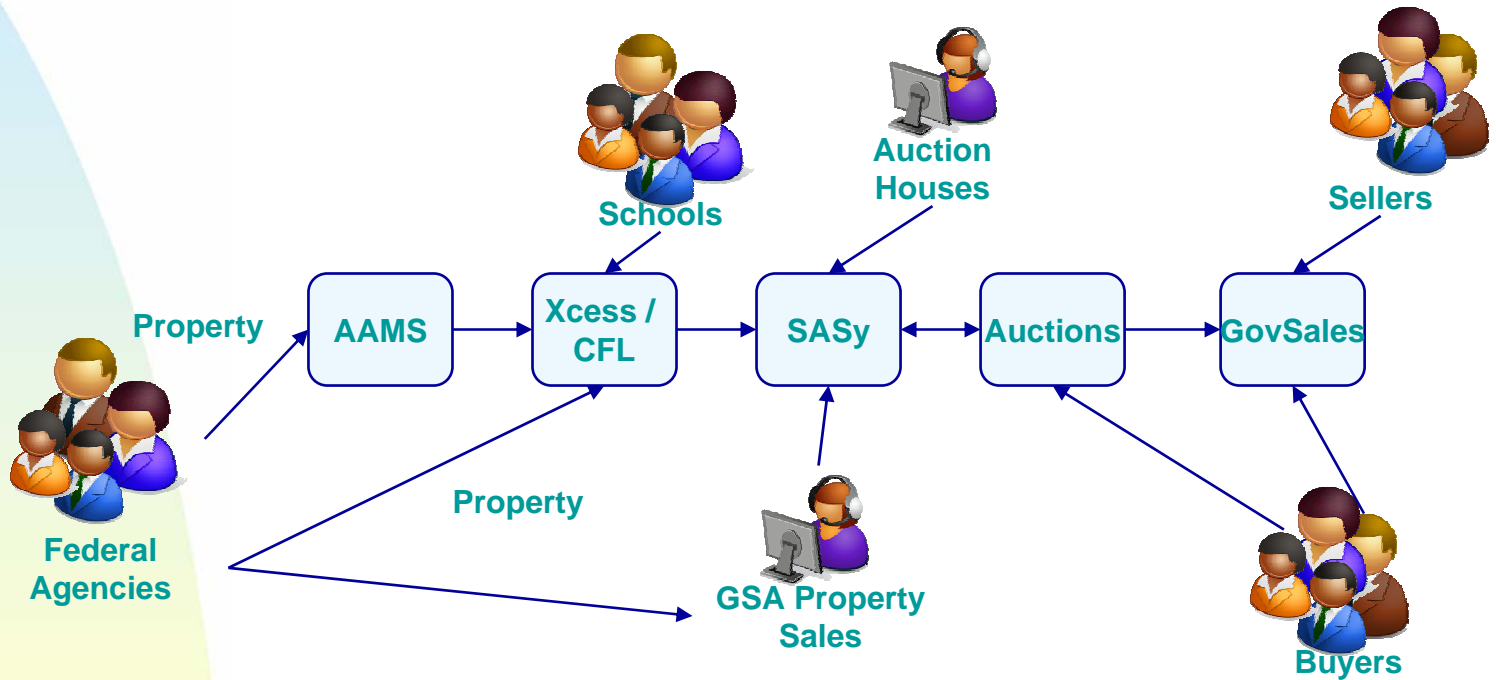
Web Services – Case Studies

- **GSA - Federal Acquisition Service**
 - Property Disposal
 - Transportation
- **Harmon**
 - Auto Claim Entry System
 - On-Line Invoicing
- **Global Companies**
 - Product Distribution Data
 - Trade Orders
- **IRD NZ**
 - Call Out Adapter

GSA – Federal Acquisition Service

- Property Disposal Solutions
 - Helps GSA and other Federal agencies dispose of property that is no longer needed
 - Property can be reused by other Federal agencies, State agencies, schools, etc or public auction
 - Property can be entered and inventory accessed via Web Services

GSA – Property Disposal



GSA – Property Disposal

■ Components

- **AAMS:** Federal agency internal screening and transfer of property for reuse
- **GSAXcess:** Federal agency external screening and transfer of property for reuse by federal agencies, state agencies, and qualifying organizations
- **Computers for Learning:** Agencies can donate excess computer equipment to schools
- **Sales Automation System:** GSA sells surplus property to the public via internet auction, sealed bid, live sales, etc...
- **GSA Auctions:** Internet auction web site used to sell surplus government property
- **GovSales:** A portal that lists all of the surplus personal property for sale by the government

GSA – Property Disposal



Manheim Auctions
Government Services



HOME

PRE-SALES

CONTACT US

FAQS

ABOUT MANHEIM

Vehicle Detail

Vehicle Details (1995HUMMER H1 4 PASSENGER WAGON DSL)

[« Back to Search Results](#)



Additional Images



1995 HUMMER H1 4 PASSENGER WAGON DSL

Seller Information

US Treasury

Location/State

Manheim San Antonio

Lane & Run

51 / 11

Sale Date

20081022 - 01:00 PM Eastern
Time

Condition Report

View Report

Year: 1995

Make: HUMMER

Model: H1

Trim Level:

Odometer: 72916

Engine: 8D

Transmission: A

Drive Train: 4 Wheel Drive

Int Color: TAN

Top Type: HT

Airbags: D

VIN: 137DA8337SE165779

Seizure No.: 2007233000003201030

Body Style: 4SUV

Vehicle Type: S

Vehicle Location: Manheim San Antonio

Title State:

Title Status: X

Condition Report: [View Condition Report](#)

Ext Color: GREEN

Int Type: L

Stereo: C

Options: Air Conditioning, Cruise Control, Power Brakes, Power Locks, Power Windows, Power Steering, Tilt Steering,

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E-mail us or call Manheim Auctions Government Services, Inc at 800-964-4269.

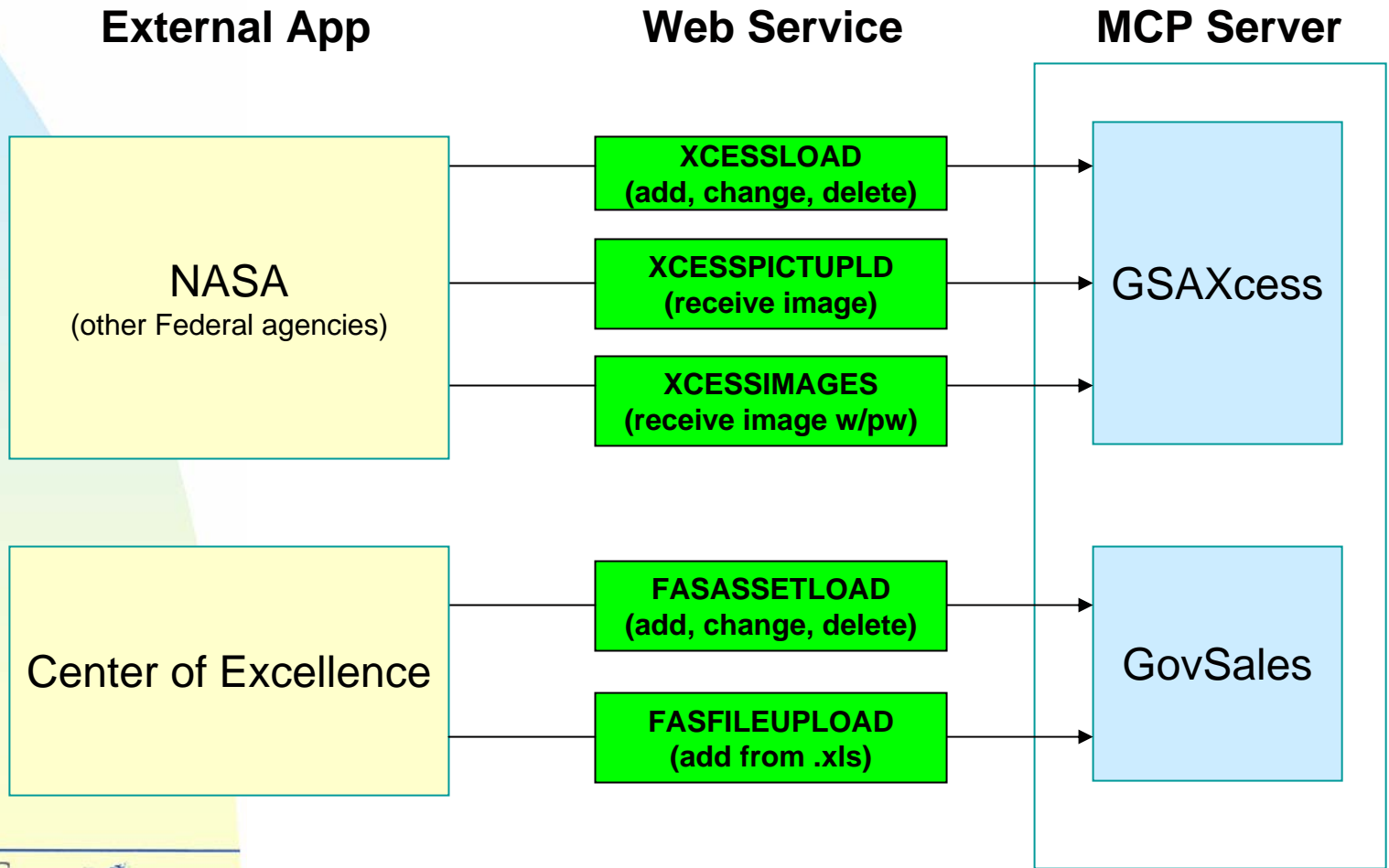


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MGS INC

Computer Business Solutions

GSA – Property Disposal

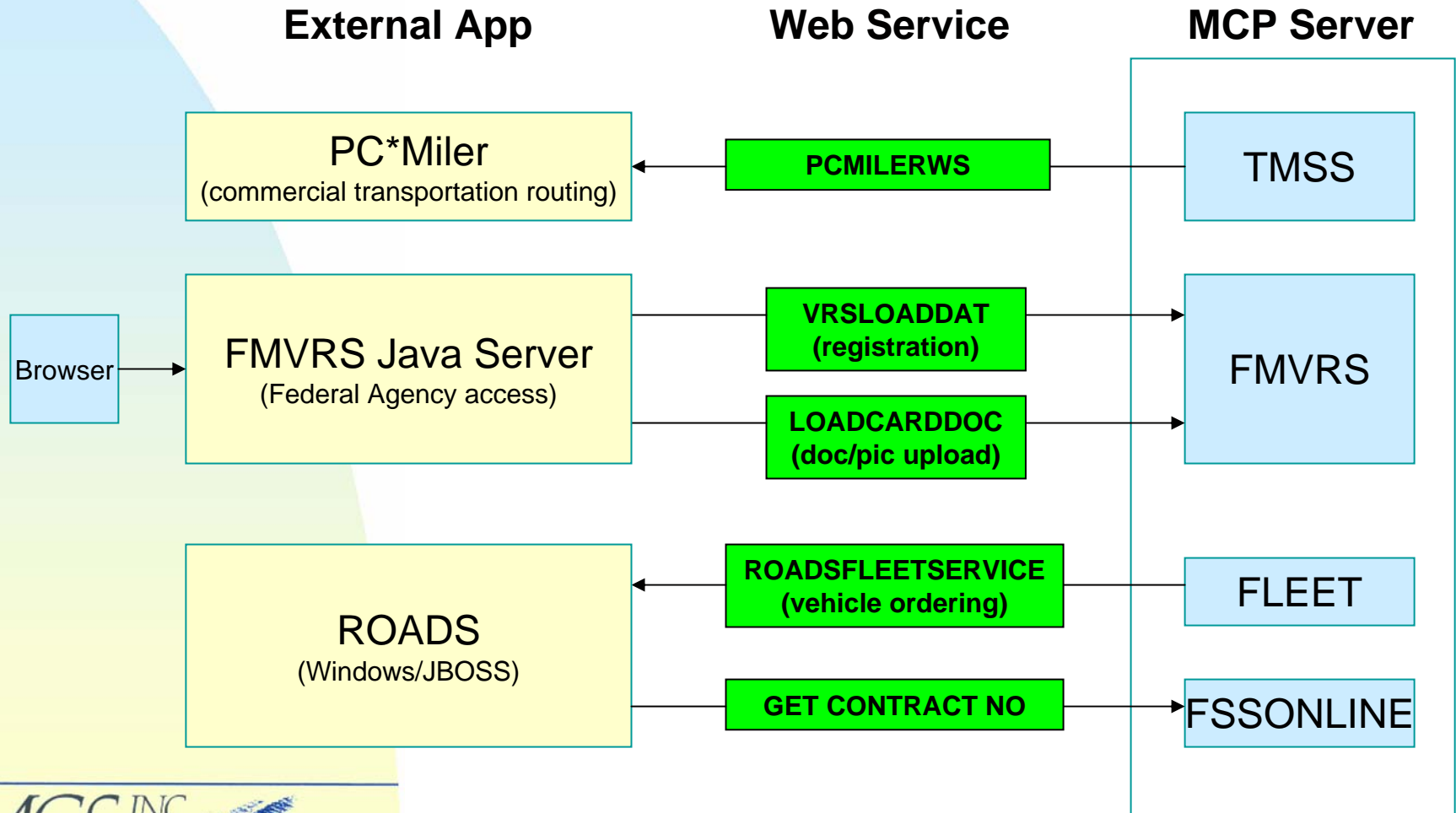


GSA – Transportation

■ Components

- **TMSS:** A facility for booking freight shipments for the federal government.
- **FMVRS:** The new federal government DMV database, expected to track over 100,000 vehicles
- **FLEET:** Application for handling vehicles leased by the government agencies

GSA – Transportation



Harmon - WS Applications

- MCP Web Services Support
 - ACES (Auto Claim Entry System)
 - ❖ Order Entry
 - ❖ VB Client
 - ❖ Converted from T27 screen scraping
 - On-Line Invoicing
 - ❖ Originally no validation, many rejects
 - ❖ MCP web services provided validation data

Harmon - ACES

EDI Queue Length: Unknown

Caller Name: Guy Member Name: GUY BONNEY

Insured	Order	Carrier	Loss	Vehicle	Comments
POLICY					
Name: GUY BONNEY					
Address: 123 DISNEY WAY					
City: ORLANDO			County: ORANGE		
State: FL			Zip: 32811		
Town Code:					
Birth Date:					
Drv Lic:					
Bus. Phone:					
PROPERTY LOSS					
Home Phone: 888 555 5555			Addr:		
Home or Bus: H			City:		
Other Phone:			State:		
			Zip:		
Email:					

Click OK to add order!

OK

Harmon - ACES

EDI Queue Length: Unknown

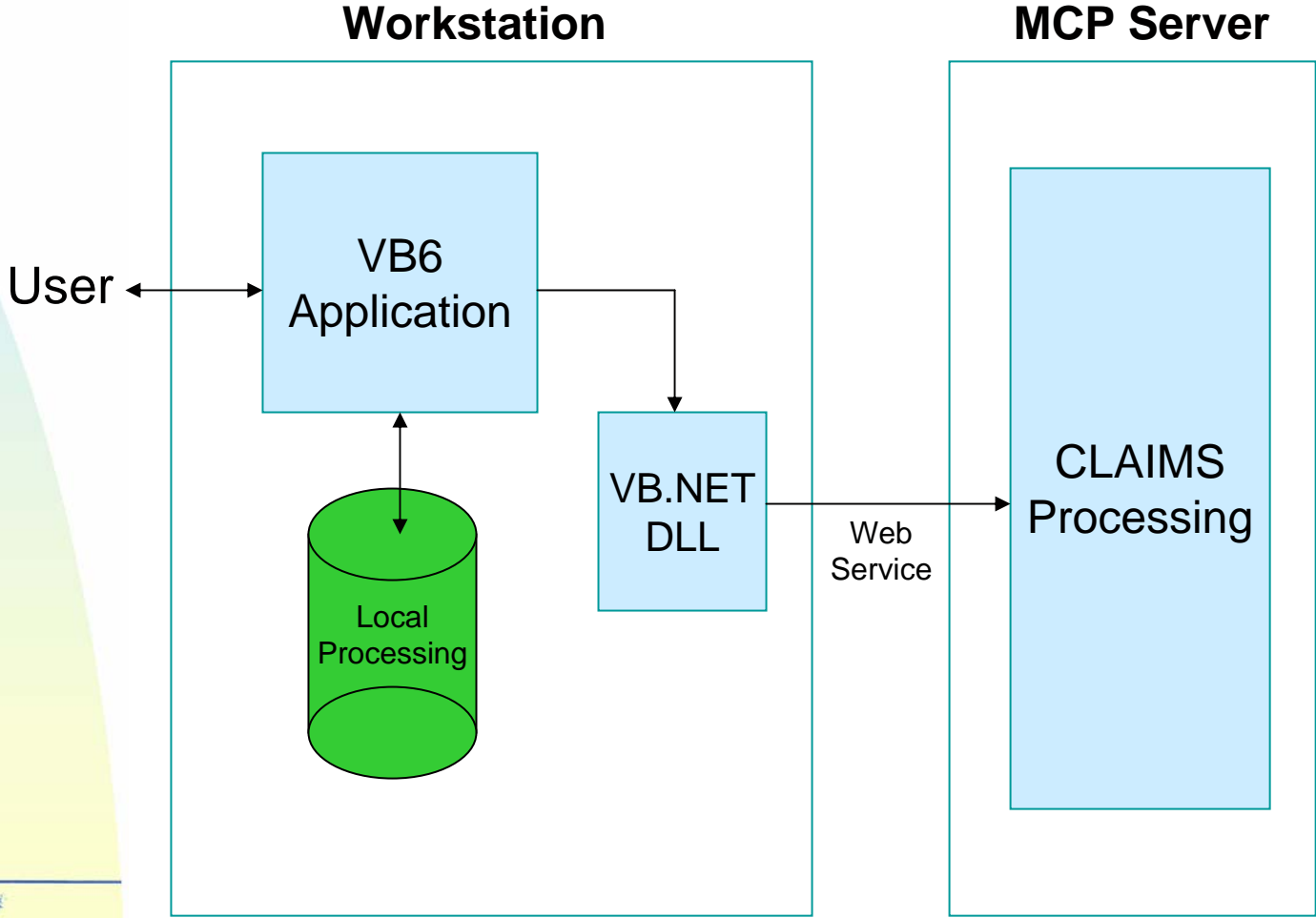
Caller Name: Guy Member Name: GUY BONNEY

Insured	Order	Carrier	Loss	Vehicle	Comments
VIN: [REDACTED] Seq: [REDACTED]					
License: [REDACTED] Desc: AMC					
Year: 78 Make: 1200					
Model: GREMLIN					
Style: 2DSD					
Fleet					
Company: [REDACTED]					
Fleet: [REDACTED] Unit: [REDACTED]					
Mileage: [REDACTED] Truck Unit: [REDACTED]					
Driver: [REDACTED] [REDACTED]					

Click OK to add order!

OK

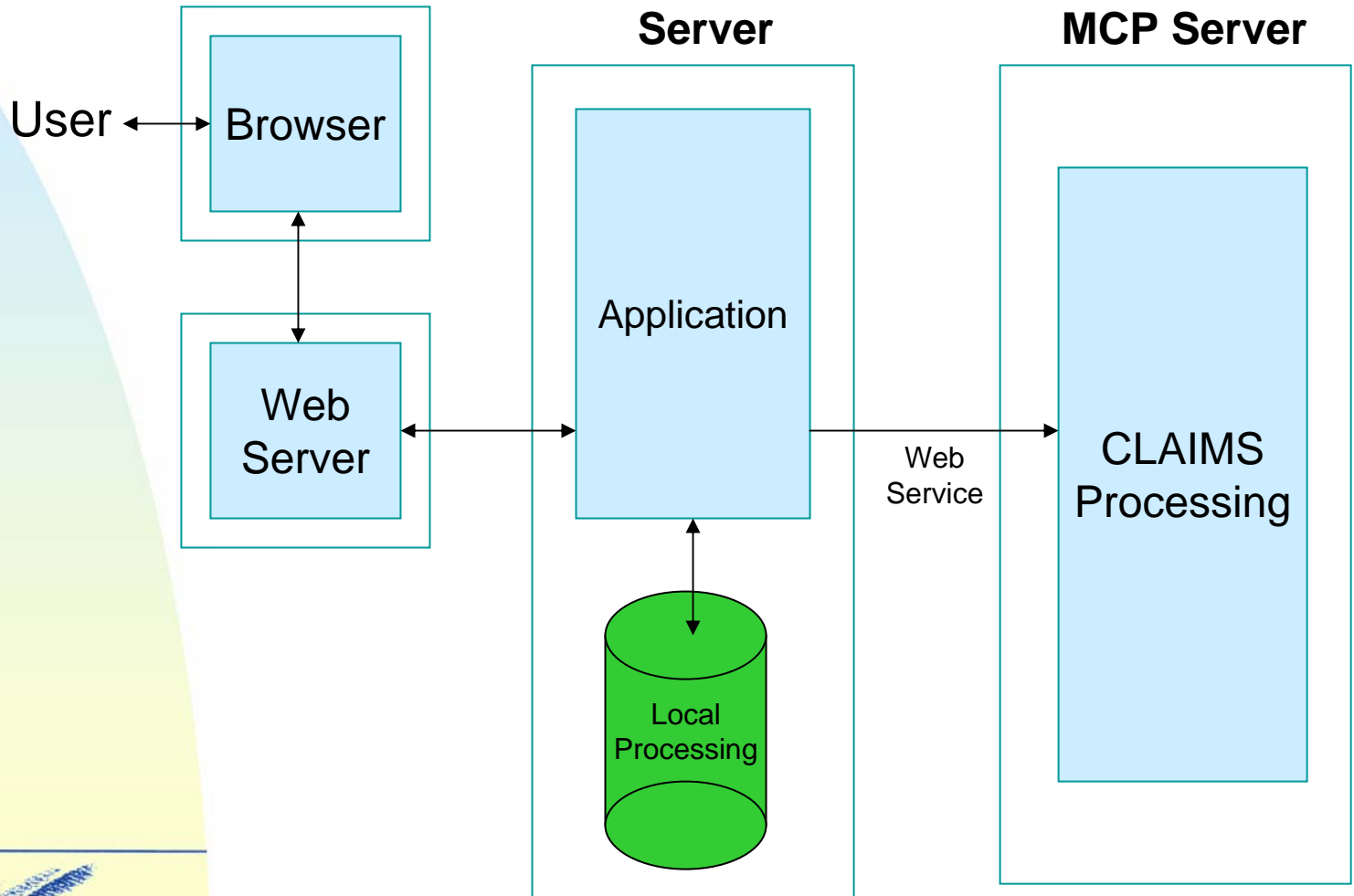
Harmon - ACES



Harmon - On-line Invoicing

Proprietary Screen shots
unavailable at this time

Harmon - On-line Invoicing



Global - WS Applications

- Product Distribution Data
 - Product availability
 - Terminal schedules
 - Other information
- Trade Orders
 - Windows based order management and fulfillment
 - Account and financial validation

Global - Product Distribution

GLOBAL
Global Partners LP

Customer Resource Center

About Global | Product & Services | Terminal Locations | Useful Resources | News & Product Updates | Investors

Home :: Terminal Location

Products & Services

- > Heating Oil
- > Gasoline
- > Diesel Fuel
- > Residual Fuels
- > Marine Fuels
- > Bunkers
- > Natural Gas & Electricity
- > Public & Private Bids
- > Supply
- > Risk Management
- > BioFuels
- > Premium Fuels & Additives

Terminal Location

Inwood, New York

Global Inwood
464 Doughty Blvd.
Inwood, NY 11096
(516) 371-8500

Products:

- Heating Oil
- UL DieselOne(R) Clear
- UL Diesel Clear
- UL Premium Diesel Clear
- Gasoline - Regular, Mid-Grade and Premium

Hours of Operation:

Terminal never closes - Always open

Quick Links

- > NYMEX Quotes
- > Site Map
- > Investor Fact Sheet
- > 2007 Annual Review
- > Home

Map of Inwood, New York showing the location of the terminal at 464 Doughty Blvd. The map includes labels for Nassau Expy, Burnside Ave, and Inwood Country Club.

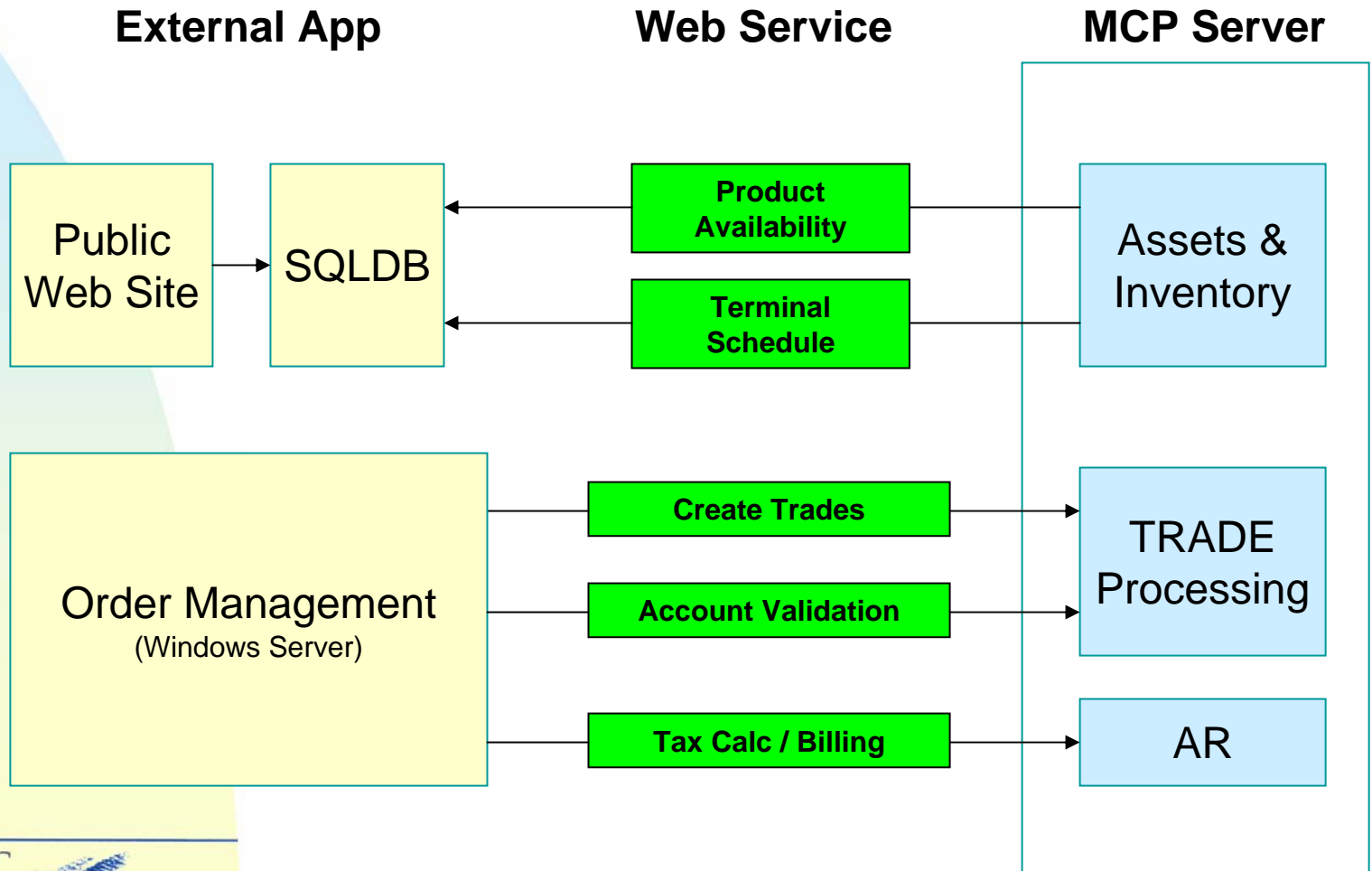
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State:

Search Near You

Your zip code:
Search radius: miles

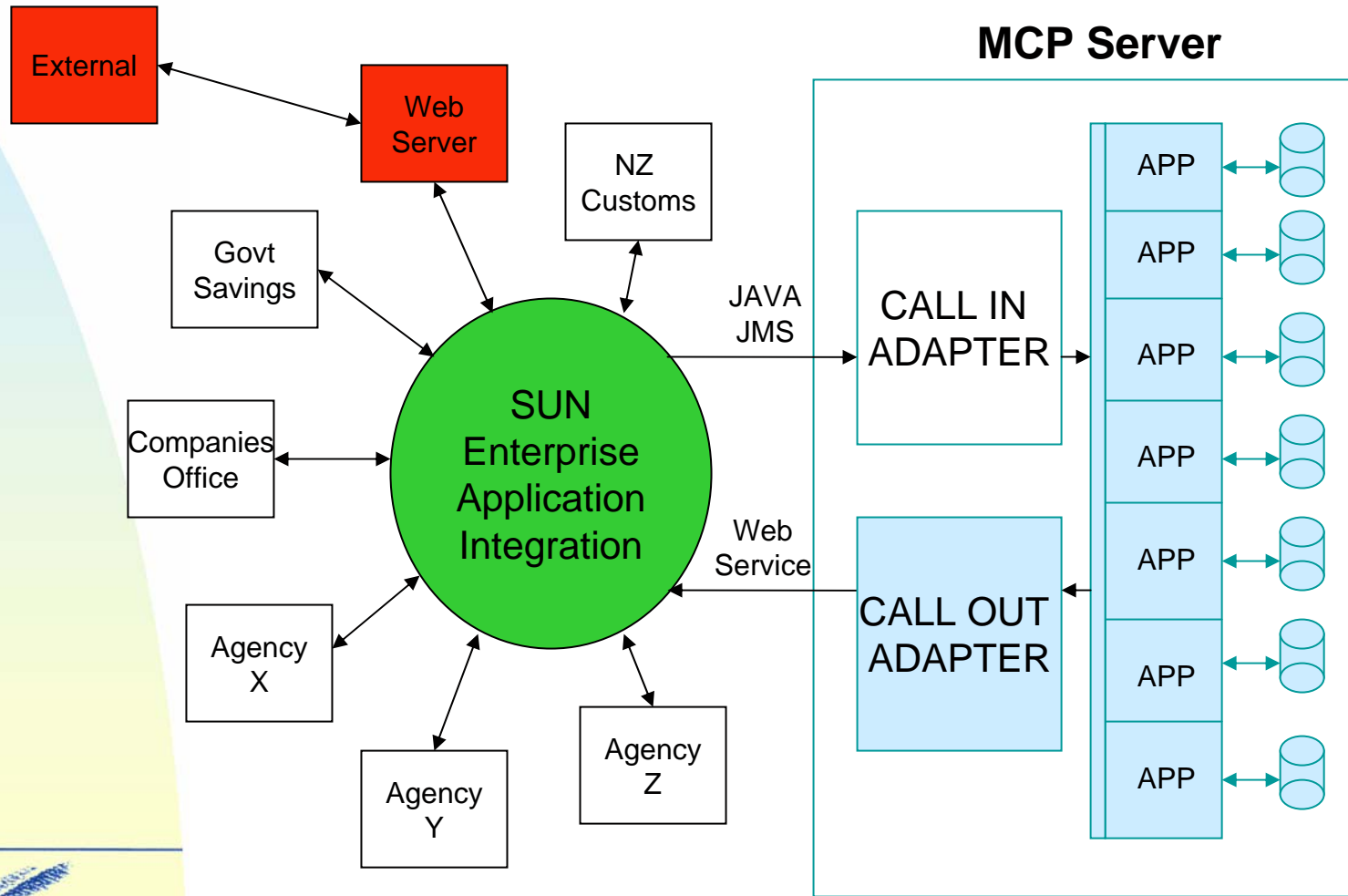
Global – WS Applications



IRD NZ - Call Out Adapter

- Integration to other Government Computer Systems
 - COBOL library interface to COA
 - COA connects to SUN Enterprise Application Integration (EAI) product
 - EAI acts as an inter-system hub

IRD NZ - Call Out Adapter



Some Lessons Learned

- WSDL and SOAP have many structural options – not all are implemented by all Web Services development and service environments
- A good XML editor is real handy
- “Modern” data structures don’t always map easily to COBOL data structures
- Web Services is not usually a good method for processing large batches of transaction data in a single call
- If you build it, they may not come... (have a business case for a web service)
- Web Services really are easy to use

Additional Questions?

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