



# Continued commitment to SOA Run with big dogs or stay on the porch!

**Steve Able** in

GT Software, Inc. steve@gtsoftware.com
February 5, 2013
13134



Follow GT on:















#### Copyright and trademark disclaimer...

The information presented in this document is purely for educational purposes only, any trademarks or copyrights used correctly or incorrectly are property of the respective owners and are being used only to inspire creative thinking without monetary gain.

Upon notification at steve@gtsoftware.com any violations will either be corrected or removed as directed by the respective owner of said material.

You are authorized to download one educational copy of the presentation for personal, non-commercial use only. In doing so, you agree that trademarks, copyrights, or other proprietary notices belong to the companies or persons holding said ownership. You also agree to delete your sole copy if requested to do so by any notification process.

You may not modify copy, distribute, re-publish, commercially exploit, or upload any of the material contained in this presentation without notifying Steven Lynn Able at the following email address steve.able@gmail.com.

NOTICE THERE ARE NO REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE CONTENT OF THIS PRESENTATION. THE INFORMATION IS PROVIDED FOR USE "AS IS." NO WARRANTIES ARE EXPRESED OR IMPLIED BY WORDING IN THIS PRESENTATION.

It is your responsibility as an attendee to evaluate the accuracy and completeness of all information, opinions, and other material which is discussed during this presentation.





#### **Abstract**

With Cloud, mobile, and big data being the mainstay of market banter today, let's not forget that without SOA all these new markets would just simply not exist. The key founding principles of SOA are the very core of these new and exciting initiatives.

IBM and Independent software vendors have continued to invest in SOA allowing for improvements in most aspects of application development.

No longer a mystical term, SOA has proven to be a solid choice for new technology initiatives, because of the development acceleration capabilities and innovation driven by adopting SOA principals within your CICS/TS, IMS and z/OS environment.

The goal of this presentation is to inspire continuous improvement ideals based on using SOA as the driving force behind innovation in your environment.

But how can we spark the entrepreneurial spirit which promotes continuous improvement and drives innovation?

Updated: 2013/01/21



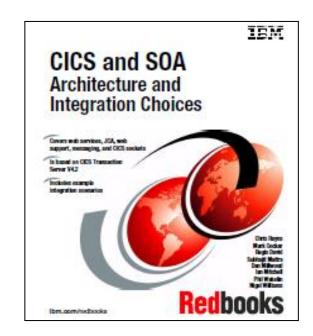


- Technology trends for 2013
- Innovation road blocks
- Innovation skills
- Challenges ahead
- Technology continuum
- Simply good design
- Ugly side of SOA
- Risk mitigation
- Summary...











# **Technology trends Reworded Gartner projections for 2013**





- Battle for mobile device domination
- Increased demand for mobile applications
- Cloud addresses personal needs
- Everything connected
- Hybrid computing expands role of IT
- Strategic data blending of traditional and non-traditional
- Business analytics drive decisions
- In-memory computing applications
- Computing appliances to integrate hardware and software
- Enterprise based private application stores





#### Innovation roadblocks

- Fear of failure is the number 1 killer of innovation "... Innovation is saying no to 1000 things" Paraphrased quote from Steve Jobs
- Organizational resistance
  - Manage existing problems
  - Encourage change
- Goals or stakes to high
  - Manage demands and risks
  - Align expectations with delivery
- Lack of trust or authority
  - Promote team work
  - Build a culture of listening and feedback



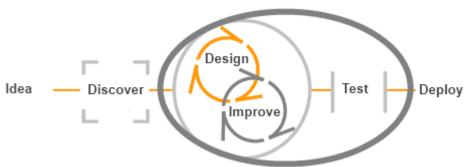






#### Innovation skills

- Question
  - Challenge the status quo
  - Go beyond just asking "Why"....
- Observe
  - Look for new ways of doing things
- Network
  - Seek out different opinions
- Experiment
  - Prototype
  - Test
  - Improve



# Challenges ahead

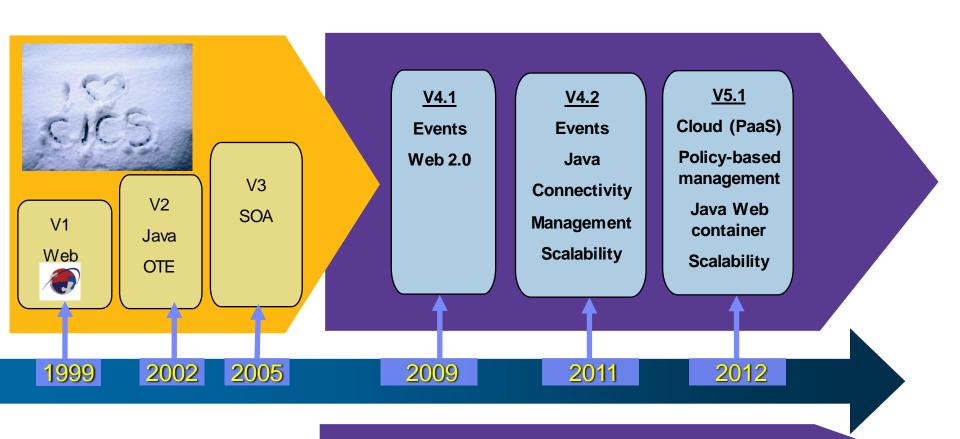








## **Technology continuum**



**Focused Versions** 

**Broad Range of New & Enhanced Capabilities** 

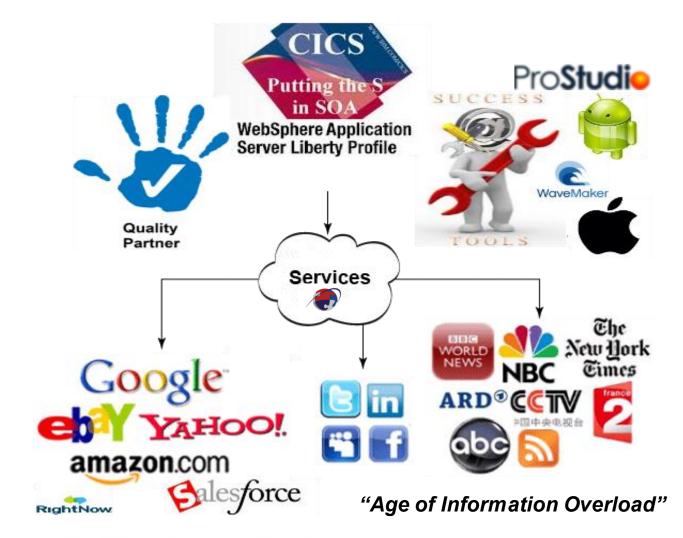








#### Services enable modernization

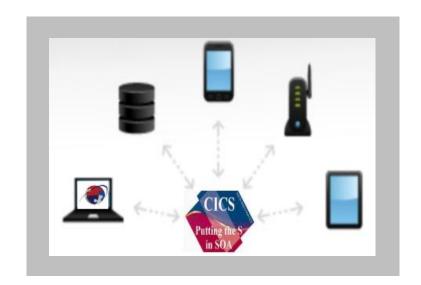






## Mobile computing and services

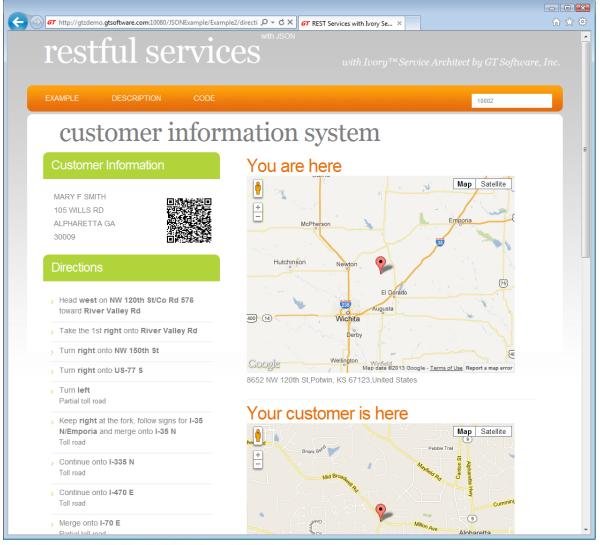
- WebSphere Liberty Profile
  - Search IBM
- WaveMaker
  - http://www.wavemaker.com/



- JavaScript Frameworks
  - http://dojotoolkit.org/
  - http://jquerymobile.com/



## RESTful web interface example



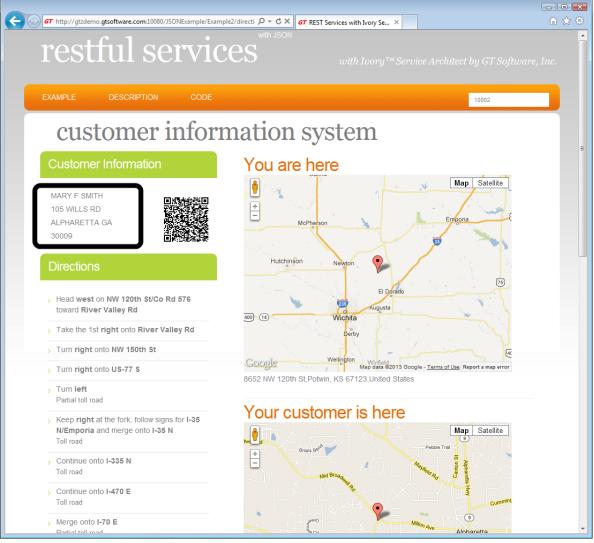




<html> <script...> <div id="customer"> <ulid="directionlist"> </html>



## RESTful example 1



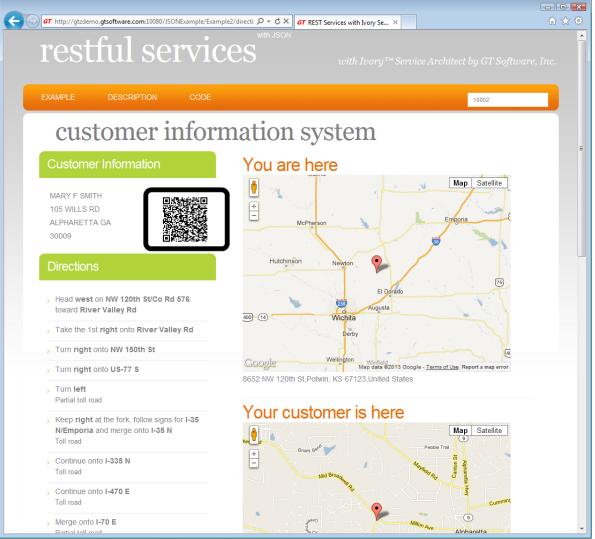




<html> <div id="customer"> </html>



## **RESTful example 2**



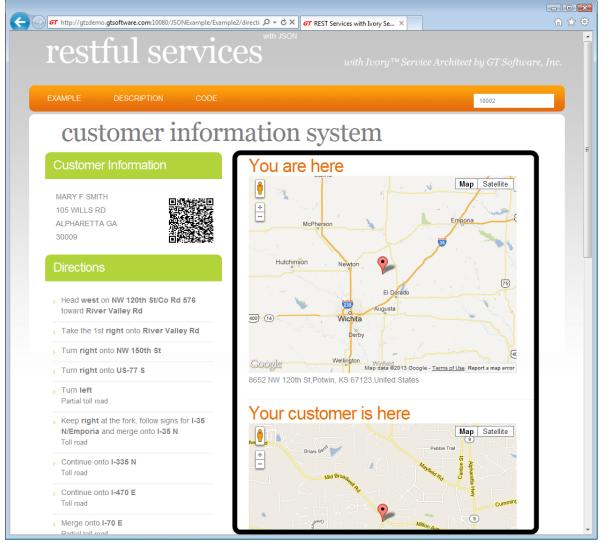




<html> <div id="qrl"> </html>





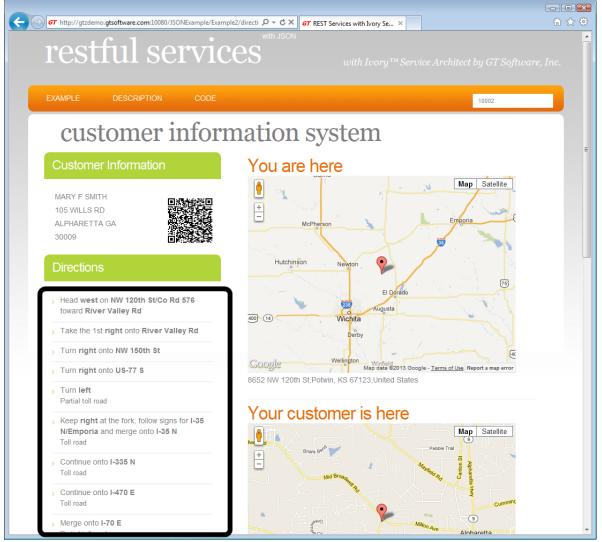


















# Simply good design

- SOA based services core to design
- Enterprise wide integration capabilities
- Supports open and industry standards
- Leverage and extend open source solutions
- Modernize and extend legacy applications
- Platform for ever growing ecosystem











Why every IT Architect should understand something about CICS

"Make SOA a prerequisite architecture. It's time to breathe new life into your SOA initiative, this time by focusing on architecture instead of technology."

-Gartner Application and Integration Platforms Key Initiative Overview July 22, 2011



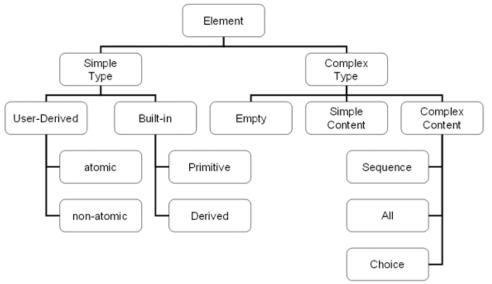




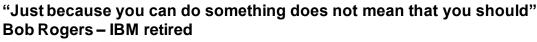
## Ugly side of SOA

- Complexity of design
  - Elements
  - Service Scope
  - Payload size
- Knowledge push-pull
  - Technology creep
  - Logic creep
- XML Schema design
  - Good
  - Bad
  - Ugly

#### Schema Elements









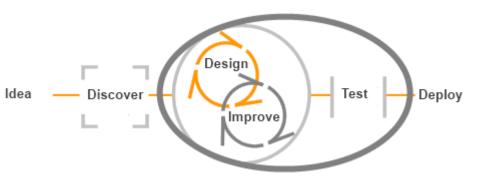




# Risk mitigation

- Plan, discuss and plan
  - Reusable services
  - Platform inter-operability
- Prototype working models
  - Seek constructive feedback
  - Implement improvements
- Test and test more
  - Monitor performance
  - Retain results
- Review and revise









# Summary / recommendations...

- Explosion of new technology
  - Mobile devices and mobile work force
  - Massive amounts of information
  - Hybrid / appliance computing
- Doing more with less
  - Research innovative and entrepreneurial ideals
  - Encourage creative thinking "Ask more than why!"
  - Network for more opinions "IBM, Partners Peers"
- Promote simply good design
  - Discuss, design, prototype, improve, test and repeat
  - Set continuous improvement goals







#### Presentation resources...

- **CICS History** http://tinyurl.com/CICS-History
- IBM Systems Mainframe Magazine Innovation http://tinyurl.com/Push-The-Needle-Innovate
- Forbes take on Gartner Technology trends 2013 http://tinyurl.com/Forbes-Gartner-Trends-2013
- WaveMaker (Java) Web 2.0 RAD tool http://www.wavemaker.com/
- Liberty Web Container (Java) CICS/TS https://share.com/share/120/webprogram/Session12445.html
- Visual WebGUI (Microsoft) Gixmox Limited http://www.visualwebqui.com/
- Whitehouse on innovation http://www.whitehouse.gov/issues/economy/innovation
- Microsoft Principals of service design http://msdn.microsoft.com/en-us/library/ms954638.aspx



# **CICS/TS SOA reading...**



Redbook/Whitepaper Title	Publication N#	Last Update
Architecting Access to CICS within an SOA	SG24-5466-06	March 2012
Options for Integrating CICS applications in an SOA	WSW11339-USEN-00	Sept 2007
Implementing CICS Web Services	SG24-7657-00	Nov 2008
Application Development for CICS Web Services	SG24-7126-00	May 2006
Securing Access to CICS Within an SOA	SG24-5756-01	Dec 2006
Securing CICS Web Services	SG24-7658-00	Dec 2008
WebSphere for z/OS to CICS and IMS Connectivity Performance	REDP-3959-00	May 2006
CICS Web Services Performance	SG24-7687-00	2009
Deploying CICS Web services to preserve IT investments in Banking	WSW14002-USEN-00	Dec 2007
Integrating WebSphere Application Server and CICS using the CTG	WSW14013-USEN-00	March 2008
CICS Transaction Gateway for z/OS V6.1	SG24-7161-00	May 2006
Developing Connector Applications for CICS	SG24-7714-00	April 2009
Increase the value of CICS applications with WebSphere MQ	WSW14006-USEN-01	Feb 2008
WebSphere MQ for z/OS Highly Available System Design	Support Pac MD17	Jan 2006

# One more thing, Thank you...









www.linkedin.com/in/steveable/

steve@gtsoftware.com steve.able@gmail.com

**Session Evaluation 13134** 

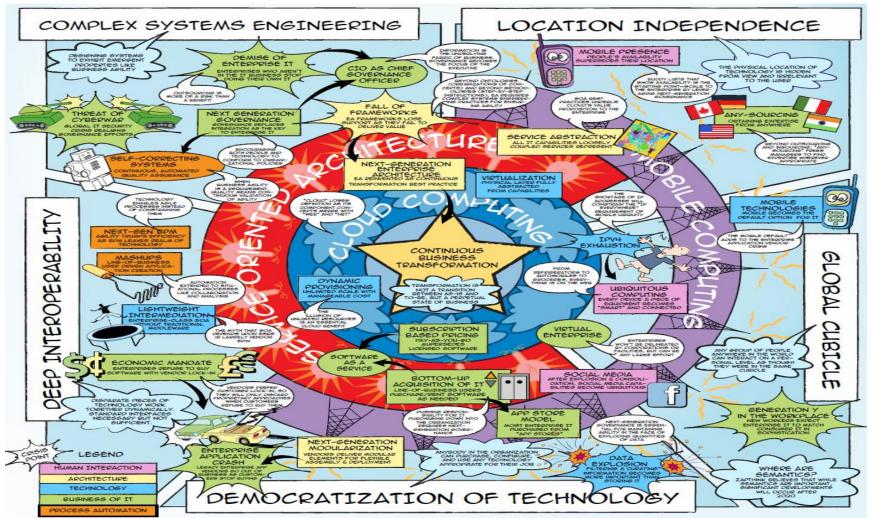








## ZapThink's view of 2020 computing...









#### That's all...



**Hursley House – Home of CICS CICS/TS Top 5 Survey** 

