

SOA-12: Ultra-Sonic – Thinking Outside The Box Using SonicMQ
Donald S. Hills
Pierre J. Aubuchon, Jr.



Welcome

**SOA-12: Ultra-Sonic - Thinking
Outside The Box Using SonicMQ®**

Donald Hills
Pierre Aubuchon Jr.



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Agenda

- 1. Introduce DC Systems, Inc.**
- 2. Review the Business Problem**
- 3. Review the Business Solution**
- 4. Review the Technology**
- 5. Demonstrate the Solution**
- 6. Discuss the Results**



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Company Overview

- **Systems Integration Company**
- **Manufacturing, Distribution, and Retail**
- **Warehouse Management Systems and Inventory Control**
- **Pharmaceuticals, Plastics, Fresh Food, Hardgoods, Jewelry, Others.**

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The Problem

- **The Problem**
Had 5 months to design, develop, and deploy at real-time internet based “English Out-cry” auction system
- **The Solution**
Worked with Progress to utilize SonicMQ as the messaging transport mechanism for a client/server application
- **The Results**
“Auctioneer” – A versatile solution that can be configured to address the needs of numerous diverse auction application such as:
 - Fresh Seafood
 - Produce
 - Flowers
 - Collectable
 - Others

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The Solution Auctioneer

- English Outcry Auction System
- Seafood, Perishables, and Other Products

<u>Technology</u>	<u>Functionality</u>
<ul style="list-style-type: none">➢ SonicMQ – Java™ Messaging➢ Web-enabled VPN Access➢ Real-time User Interaction➢ OpenEdge® 10.1B	<ul style="list-style-type: none">➢ Registered Members➢ Administrator Console➢ Buyer Workstation➢ Seller Representative Workstation➢ Global Clock Synchronization

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Design Criteria The Challenges

- **Message Methodologies**
 - Peer to Peer
 - Socially Oriented
- **Message Integrity**
 - Controlled Obsolescence
 - Clock Synchronization
- **Compliance & Reporting**
 - Food & Drug Administration
 - 2002 Federal Farm Bill
- **Concept To Completion In 5 Months**

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- **Utilize Comm. Message Handler Via Port**
 - Advantages
 - ❖ Known Technology
 - Disadvantages
 - ❖ Getting It Right - De-bugging
- **Use Sonic™**
 - Advantages
 - ❖ Rapid Development
 - ❖ Message Integrity
 - ❖ Security
 - Disadvantages
 - ❖ Complicates Remote Client Software Installation

- **Rapid Development**
 - Ease Of Design
 - Minimal Debugging
 - Training & Technical Support From Progress
- **Message Integrity**
 - No Lost Messages
 - Message Obsolescence - “Time To Live”
 - ❖ Orphan Messages
 - ❖ Obsolete Messages
- **Cost Considerations**
 - No Client Database
 - No Client Database Connection to Host
 - ❖ Cost
 - ❖ Speed

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Why Sonic

- **Message Types**
 - Peer To Peer
 - Broadcast (Socially Oriented)
 - Queue
 - Topic
 - Raw Data
 - ❖ Transfer Temp Tables
- **Performance**

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Auctioneer Demonstration

Let's run an auction and watch SonicMQ in operation

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Summary

- **Results**
 - Beyond Expectations

- **Conclusions**
 - Progress Made Success Possible

- **Lessons Learned**
 - Talk to Progress
 - Be Careful What You Wish For