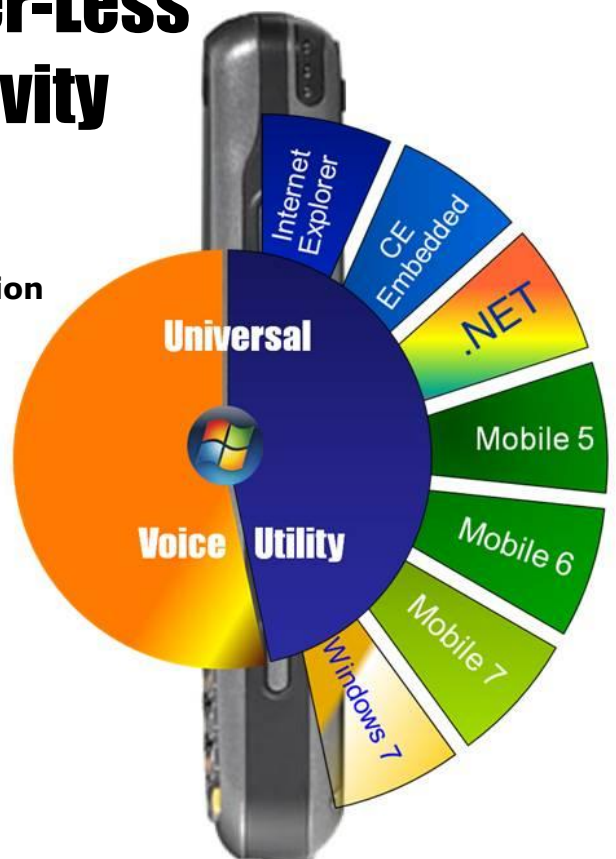# Vangard Voice Systems

It's Finally Here...

Device-Powered, 'Server-Less' WMS Voice Productivity

- **Simplified, Affordable & Scalable**
- **All Device-Based Non-Invasive Integration**
- **All Device-Based Voice Operations**
- **Any Mobile Device**
- **Substantial Productivity Gains**
- **Any Size Warehouse/DC Operation**
- **Any Custom or COTS WMS**
- **Any Enterprise-Wide Mobile App**
- **Fast ROI Compliancy**
- **No More Costly Server-Integration**
- **No More Costly Maintenance**

Universal

Voice Utility

Internet Explorer

CE Embedded

.NET

Mobile 5

Mobile 6

Mobile 7

Windows 7

VANGARD
VOICE SYSTEMS
Now You're Talking!

A 'Server-Less' Voice Technology Innovation
Completely Device-Driven, Simplified, Affordable and Scalable

Vangard Voice Systems has introduced an innovative voice technology for upgrading and optimizing any existing enterprise application with high productivity voice control functionality. Vangard's device-based, 'server-less' Universal Voice Utility and Rapid Development Environment provides a simplified, affordable, and scalable solution for easily adding sophisticated voice controls to any existing client-server, web-based or thick-client mobile application.

Vangard Voice Systems' innovative Universal Voice Utility:

- Is Completely Device Resident
- Provides Complete Collaborative Voice Functions
- Voice-Enables Any Mobile App
- Is Completely Non-Invasive (No App Re-Engineering)
- Operates:
    - On Any Mobile Device
    - On Any Manufacturer's Form Factor
    - On Any Microsoft OS
- Is Completely Server Independent
- Is Completely Network Independent

ROI Compliant For Any Size Warehouse Operation

For warehouse professionals this means you have an affordable alternative to first generation, complex and expensive server-dependent voice solutions, typically justifiable for only the largest of warehouse operations.

Now, warehouse operations, large or small, or entire distributed DC's can cost-justify a voice solution while achieving substantial reductions in distribution costs through significant increases in productivity and order accuracy.

A Scalable Voice Solution for Any Mobile Enterprise App

Vangard's Voice Utility is also scalable to voice-enable any of your mobile supply chain applications including Yard Management, Asset and Facilities Management, Transportation, Field Services, Mobile In-Store retail...anywhere mobile workforces are deployed.

The Universal Voice Utility – a simplified **3 Step** voice-enabling of WMS, SCM or any existing   client-server, web or thick-client enterprise mobile application.

Page 4

VF Corporation, one of the world's largest wearing apparel manufacturers projects early ROI and substantial gains in productivity for its 40-worker   warehouse.
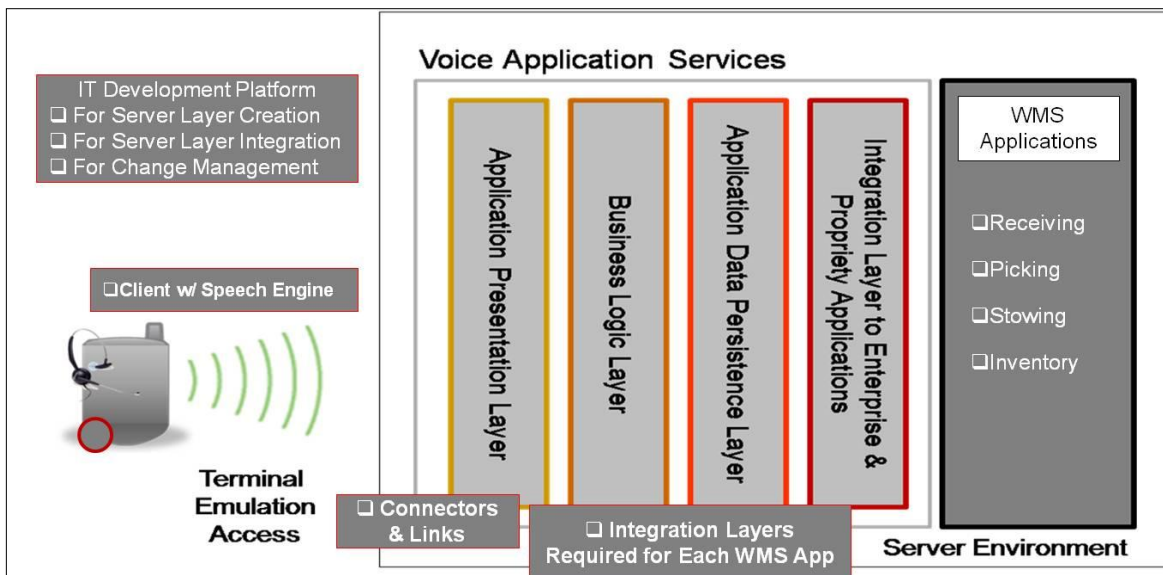
Page 5

Cabela's a leading manufacturer and retailer of outdoor wearing apparel is exploiting Vangard's device-resident voice utility to add voice to WMS applications for over 1000 warehouse workers.   **Page 6**
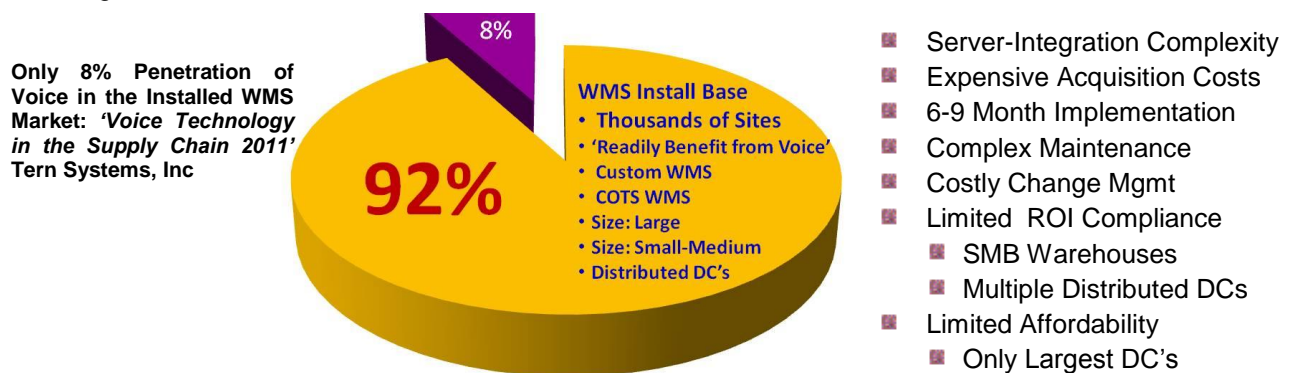
High Costs and Complexities Associated with Server-Based WMS Voice Implementations

The IT blue print below portrays the typical integration requirements for integrating a server-based and network dependent voice technology with an existing custom built or COTS WMS application. The complexity and costs associated with server-based architectures have historically driven acquisition costs so high and ROI so long, making justification difficult by the vast majority of U.S and international warehouse operations, particularly small and mid-size warehouses, as well as enterprises consisting of networks of distribution centers.

Exorbitant acquisition costs, lengthy, complex implementation of voice integration layers to WMS apps, and expensive human resource costs for change management, has slowed the adoption of voice productivity in the WMS market. With only an 8% penetration of the installed WMS market, voice driven productivity is lagging substantially behind the market adoption of powerful mobile computers, barcode scanners, and RFID technologies.
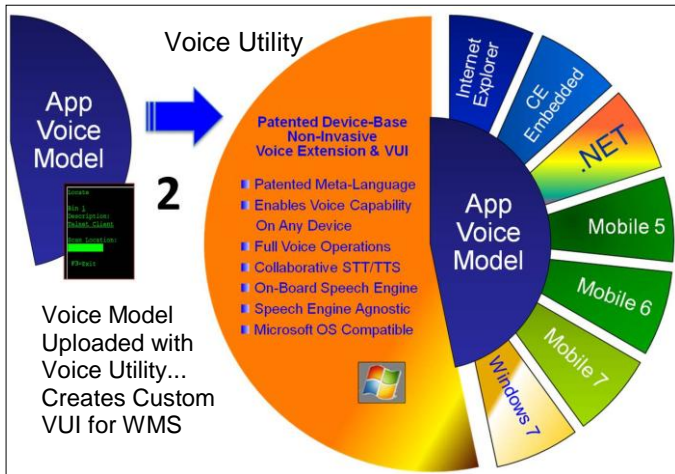

- Server-Integration Complexity
- Expensive Acquisition Costs
- 6-9 Month Implementation
- Complex Maintenance
- Costly Change Mgmt
- Limited ROI Compliance
  - SMB Warehouses
  - Multiple Distributed DCs
- Limited Affordability
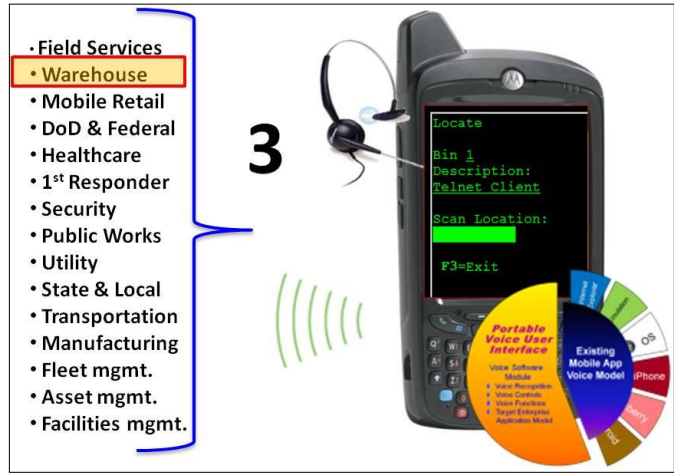 - Only Largest DC's

A Simplified Device-Based Voice Solution
'Server-Less', Affordable Voice Productivity for Any Warehouse

Vangard Voice Systems has advanced speech recognition technology by placing complete voice control of mobile applications solely on the mobile device, fully liberated from IT server integration, dependencies and related costs. This innovation not only reduces implementation costs substantially for warehouse and distribution centers, it also extends voice productivity to cross-enterprise supply chain mobile applications. The **3-Step** voice-enabling process below is fast and simplified using a wizard-based enabling solution adding voice to any of your WMS applications.

Step 1: Using Vangard's Wizard-based Rapid Development Environment (RDE) your WMS or other SCM application is analysed; control and field locations identified, and; voice grammars are added to each control and field. The resulting device-based file serves as the **'Voice Model'** of your mobile application.

Step 2: Vangard's device-based **Voice Utility** provides all the VUI functionality need to voice control your application. The Voice Utility is customized using the **Voice Model** of your WMS application (created in Step 1) when both are uploaded to your mobile device.

Step 3: The Voice Utility and Voice Model provides seamless voice control and WMS voice prompting to your warehouse workers, providing a high productivity voice control option to your keyboard or touch-screen interface.

VF Corporation

Warehouse Management

vf — We Fit Your Life.™

ROI Compliance for Small to Mid-Size Warehouse Operations

VF Corporation (VF) is a leading wearing apparel manufacturer for clothing brands such as Lee Jeans, Wrangler, Nautica and North Face. The company chose Vangard's Mobile Voice Platform to voice-power its Ultra Picking and Static Picking applications.

Before adopting the Vangard Voice device-based voice solution, this VF location assessed leading server-dependent solutions and found the substantial investment and lengthy ROI could not deliver a sufficient increase in productivity for their already extremely efficient WMS. According to the warehouse operations leader, 'the productivity payoff was simply not high enough to justify implementing a complex server-based IT voice layer to our already highly efficient existing WMS system'.

But with Vangard's device-based Universal Voice Utility they projected additional productivity gains of at least 8%, with a short ROI, a faster, more efficient distribution cycle, and substantial cost savings.

Because of Vangard's simplified voice-enabling solution, its effectiveness and affordability, these two applications are in production and are being piloted at other VF Corporation distribution centers supporting VF Corporation's wearing apparel divisions.

VF Corporation Profile
- Jeanswear Division
- Hackleburg, Alabama
- Custom Built WMS
- Custom Built Ultra Picking
- Custom Built Static Picking
- 40 Workers, 20 Per Shift
- 22 Million Pieces Per/YR
- Prod. Gain 8% Plus

[Schedule Your Free Personal Online Voice Productivity Briefing](#)

Cabela's Outdoor Outfitters

ROI Compliance and Flexibility for Large High Volume DCs

Headquartered in Sidney, Nebraska, Cabela's Inc. is the world's largest direct marketer, and a leading specialty retailer, of hunting, fishing, camping and related outdoor merchandise. Since the Company's founding in 1961, Cabela's(R) has grown to become one of the most well-known outdoor recreation brands in the world, and has long been recognized as the World's Foremost Outfitter(R).

Cabela's product distribution is configured around three national distribution warehouse hubs. Over 1000 warehouse workers handle product shipments to its retail stores and directly to customers using mail order and the Cabelas website.

A Flexible, Adaptable Voice Technology

In addition to cost and ROI considerations, Cabelas chose because Vangard's Universal Voice Utility and its Rapid Development Environment (SDK) made it easy to customize a VUI for their Manhattan Associates WMS applications. Vangard's solution provides the flexibility and control Cabela's was looking for. The device-based voice solution made it easy to for Cabela's IT professionals to deploy voice capabilities and productivity anywhere throughout their business processes, and whenever their business processes change. Other traditional server-based solutions required substantial integration costs for initial deployment, and expensive on-going maintenance costs whenever a business processed changed.

Cabela's is already evaluating how to exploit voice productivity at each retail location, with voice-enabled in-store mobile applications. Vangard's voice-scalability allows any enterprise to upgrade any supply chain application from the warehouse, to transportation, the retail floor and field services.

Warehouse Management

'Vangard's solution made it easy for Cabela's IT professionals to deploy voice capabilities and productivity anywhere throughout their business processes, and whenever their business processes change.'

Cabela's Distribution Operations
- 3 Hub Warehouses
  - Nebraska
  - Wisconsin
  - West Virginia
- Manhattan Associates WMS
- 1100 Warehouse Workers
- 300+ Workers/Warehouse

Shaw Industries

Flexibility and Control for Deploying Voice Anywhere

Shaw Industries Group, Inc., a Berkshire Hathaway company and the world's leading floor manufacturer is leveraging Vangard's device-based Universal Voice Utility and Rapid Development Environment for voice-enabling applications, to further speed product delivery, customer responsiveness and achieve additional reductions in operational costs across the company's business processes.

Shaw Industries has voice-enabled picking applications in their ceramic tile division and plans are being implemented to add voice to their carpet division and inventory & cycle counting applications. The carpet division applications reside on vehicle mounted units for speeding distribution of large carpet rolls and ensuring added safety.

Shaw is proceeding with plans to further reduce their operational costs by using Vangard' Mobile Voice Platform to replace other warehouse applications already voice-enabled by other older server-dependent technologies to avoid the extraordinarily high maintenance costs.

'Vangard's solution provides our IT professionals the ability to add high productivity voice capabilities wherever we see opportunities to improve customer service and reduce costs throughout the supply chain.' Heath Ridley Director, Engineering and Systems, Shaw Industries Group

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Contact Us

Vangard Voice Systems(Vangard) is the innovative provider of its patented, scalable, device-based AccuSpeech® Mobile Voice Platform (*MVP*) for adding a custom VUI that provided complete collaborative voice controls to any existing mobile cross-industry, cross-supply chain application. The solution provides the enabling tools (SDK) to customize its device-based Universal Voice Utility, non-invasively voice-upgrading any mobile application, avoiding any re-engineering of the existing application, or server/network dependencies.

Vangard's *MVP*, a scalable mobile workforce productivity-enabler, helps enterprises achieve new levels of voice-driven productivity to achieve tactical, operational and strategic advantage anywhere throughout the business process. MVP adds a variety of *voice-directed* application and device controls, navigation and data entry capabilities to a customer's existing mobile application. The Mobile Voice Platform provides a common, full lifecycle, platform solution for voice-enabling existing Web, device-based, and server-based mobile applications.

Vangard Voice partners include Microsoft Corporation, Wavelink Corporation, Agilysys, Stratix Corporation,
 Z-Space Corporation, Datanet, Excalibur Integrated Systems, Pristine Infotech and Nuance Communications. Vangard solutions are available to government agencies on the GSA and SEWP schedules. Vangard Voice is a Motorola PartnerSelect ISV partner and an Intermec Honours Partner. The company's voice technology is proven to operate effectively on a wide variety of devices including LXE, PsionTeklogix, Opticon and others.

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