

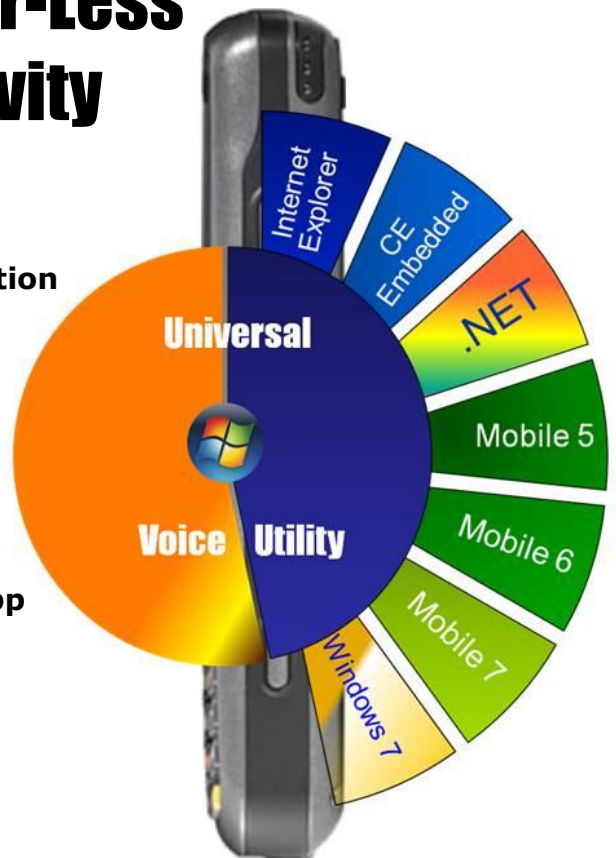
Vanguard Voice Systems



It's Finally Here...

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

- **Simplified, Affordable & Scalable**
- **All Seamless Device-Based WMS Integration**
- **All Device-Based Voice Operations**
- **From Any Mobile Device**
- **Substantial Productivity Gains**
- **For Any Size Warehouse/DC Operation**
- **For Any Custom or Commercial WMS**
- **For Any Other Enterprise-Wide Mobile App**
- **Fast ROI Compliancy**
- **No Business Process Changes**
- **No WMS Vendor Interfaces**
- **No Middleware**
- **No More Costly Server-Integration**
- **No More Costly Maintenance**



VANGARD
VOICE SYSTEMS

Now You're Talking!

A 'Server-Less' WMS Voice Technology Innovation

Completely Device-Driven, Simplified, Affordable and Scalable

Vanguard Voice Systems has introduced an innovative voice technology for upgrading and optimizing any existing enterprise application with high productivity voice control functionality. Vanguard'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.**



Manhattan
SAP
Oracle
RedPrairie
Retailx
JD Edwards
NetSuite
INFOR
Royal4
Accellos
EPICOR

For Warehouse Operations - Innovation Changes Everything

As a warehouse professional the Vanguard software solution enables complete upgrading of your **commercial or custom built WMS**, with comprehensive voice controls and WMS integration *driven solely from, and on your mobile computers, completely eliminating your IT server as the costly and complex point of voice and WMS integration.* Like many innovations this means, new voice productivity can easily be justified for a broader selection of companies, regardless of the size of your warehouse operation or mobile workforce.

Voice Innovation Cuts Costs – Extends Affordability

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. Mobile WMS Voice integration driven from your mobile devices eliminates the substantial costs associated with integration on the IT server...make voice productivity affordable for any warehouse operation.

- **No Business Process Changes**
- **No WMS Vendor Interfaces**
- **No Middleware**
- **No More Costly Server-Integration**
- **No More Costly Maintenance**

The Universal Voice Utility – Simplified Voice Productivity for Any Commercial or Custom-Built WMS and Any Mobile Supply Chain Workforce Application

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

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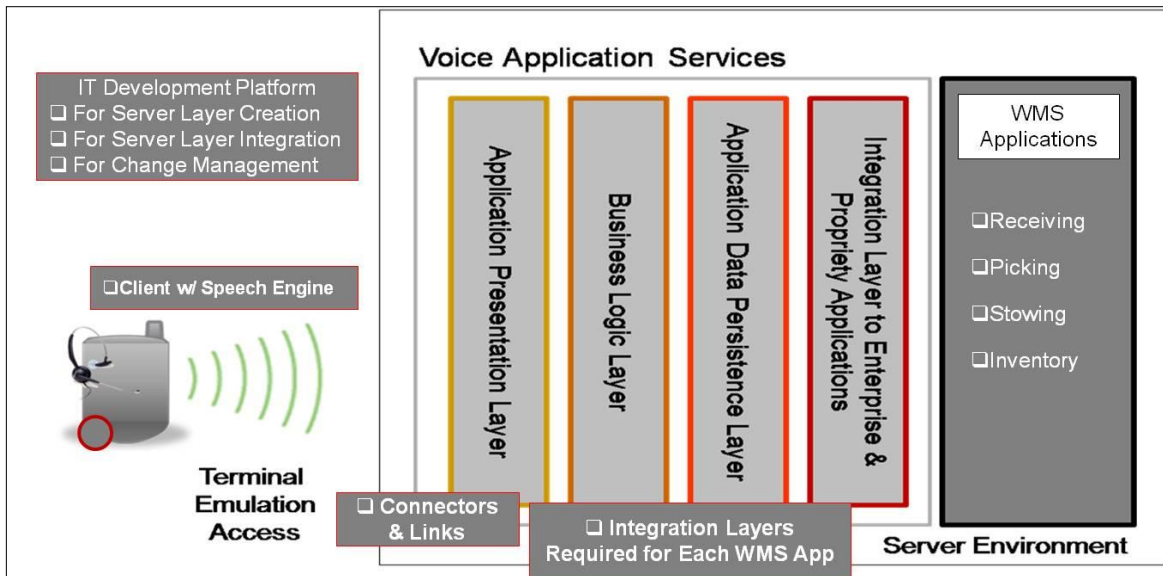


Cabela's a leading manufacturer and retailer of outdoor wearing apparel is exploiting Vanguard's device-resident voice utility to add voice to Manhattan WMS applications for over 1000 warehouse workers.

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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.

Only 8% Penetration of Voice in the Installed WMS Market: 'Voice Technology in the Supply Chain 2011' Tern Systems, Inc



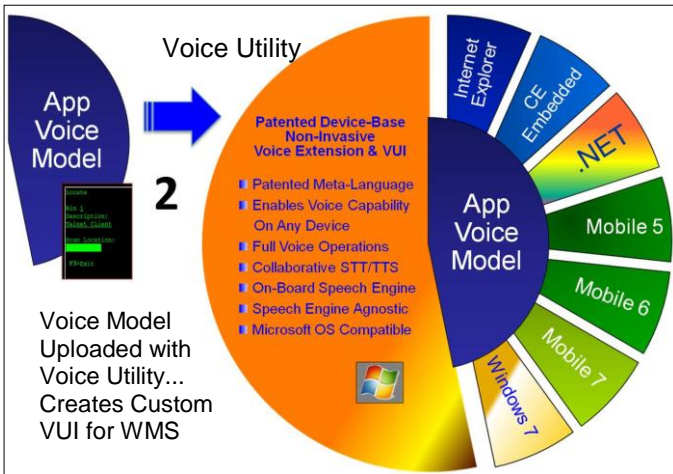
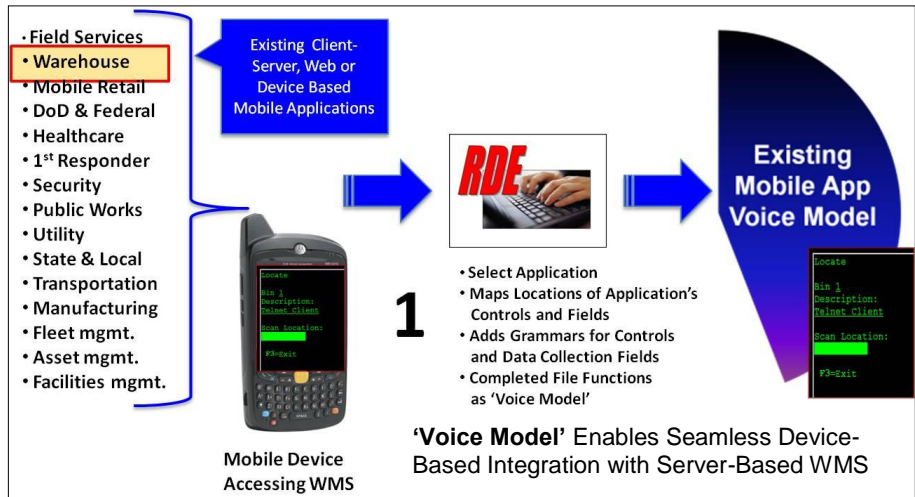
- Server-Integration Complexity
- Expensive Acquisition Costs
- 6-9 Month Implementation
- Complex Maintenance
- Costly Change Mgmt
- Limited ROI Compliance
- SMB Warehouses
- Multiple Distributed DCs
- Limited Affordability
- Only Largest DC's

A Simplified Device-Based Voice Solution

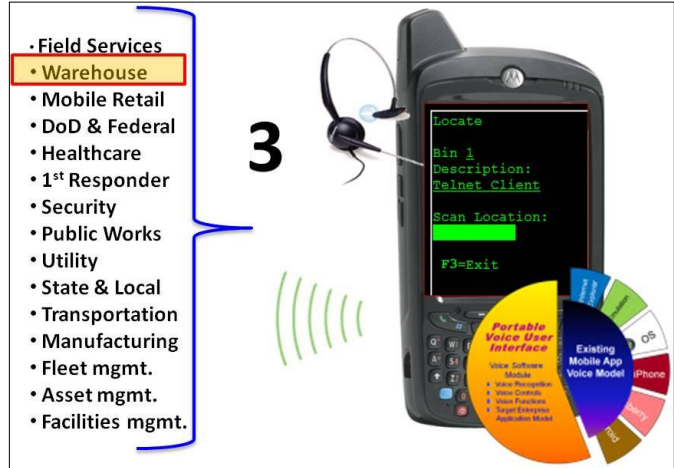
'Server-Less', Affordable Voice Productivity for Any Warehouse

Vanguard 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: Key to Seamless WMS Integration: Using Vanguard'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 **'Voice Model'** provides the seamless integration to your WMS.



Step 2: Vanguard's device-based **Voice Utility** provides all the VUI functionality need to voice control your application. The Voice Utility is customized using the WMS **Voice Model** (device-based seamless WMS integration file) created in Step 1.



Step 3: The Voice Utility and Voice Model provides comprehensive voice controls and seamless integration with your WMS solely from your warehouse mobile devices...completely **eliminating your IT server** as the point of WMS and voice integration.

VF Corporation

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 Vanguard's Mobile Voice Platform to voice-power its Ultra Picking and Static Picking applications.

Before adopting the Vanguard 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 Vanguard'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 Vanguard'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 Vanguard's Universal Voice Utility and its Rapid Development Environment (SDK) made it easy to customize a VUI for their **Manhattan Associates WMS** applications. Vanguard'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. Vanguard's voice-scalability allows any enterprise to upgrade any supply chain application from the warehouse, to transportation, the retail floor and field services.



'Vanguard'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 Vanguard'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 Vanguard' Mobile Voice Platform to replace other warehouse applications already voice-enabled by other older server-dependent technologies to avoid the extraordinarily high maintenance costs.



'Vanguard'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

Vanguard Voice Systems (Vanguard) is the innovative provider of its patented, scalable, device-based AccuSpeech® Mobile Universal Voice Utility and customization tools for adding a custom complete voice-user-interface (VUI) 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 up-grading any mobile application, solely from the mobile device, avoiding any re-engineering of the existing application, or any server/network dependencies.

Vanguard's *MVP*, a scalable mobile workforce productivity-accelerator helps enterprises achieve new levels of voice-driven productivity by empowering mobile worker with fast, hands-free *voice-directed* application and device controls, navigation and data collection and access capabilities for their existing enterprise mobile application. Vanguard Voice provides full lifecycle solution for voice-enabling existing Web, device-based, and server-based mobile applications.

Vanguard Voice partners include Microsoft Corporation, Wavelink Corporation, Agilysys, Stratix Corporation, Z-Space Corporation, Datanet, Excalibur Integrated Systems, Pristine Infotech and Nuance Communications. Vanguard solutions are available to government agencies on the GSA and SEWP schedules. Vanguard 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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