



# A System Overview

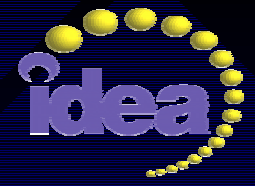
Robert R Kircher, Jr.  
Vice President, Product Development





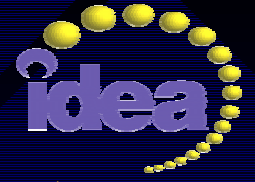
# The IDEA Philosophy

What is the purpose of IDEA?



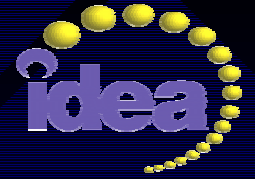
# Goals

- Provide an Easy to Use Flexible Application
- Provide Application Platform for Growth and Scalability
- Provide Mechanisms for Seamless and Effortless Integration with other Systems



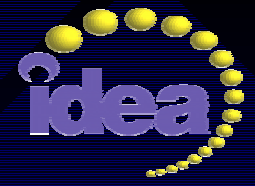
# Integrated Digital Environment

- Move from Monolithic Systems to Component based Integrated Digital Environment
- Intra and Inter Corporate Environments
- Intergraded Legacy Applications
- Accommodate Digital Object Processing
  - Paper, Forms, Email, Electronic Documents, Sound, Video, Internet, Database, etc.
- Multiple Location Integrated Systems



# A Platform Designed to Scale

- Scalable Architecture From Single System to Enterprise
  - Add Functionality to the Workstation;
  - Add Workstation to the System;
  - Add Servers to Expand the Enterprise
- Development Framework Provides a Powerful Platform for Integration
  - VBScript, Jscript and COM Interfaces
  - Standard Communication Between Modules
  - IDEA Framework + IDEA API = IDEA Based Solutions



# A Modular, Open Framework

- Flexible, 3-Tiered Architecture
- Object Oriented Component Design
- Works With Any ODBC Data Source
- Incorporates Widely Accepted Application Development Standards
- Based on State-of the Art Technology
  - COM/DCOM
  - OLE/DB
  - ActiveX
  - Scripting



# The IDEA System

What makes up an IDEA System?



# Major System Components

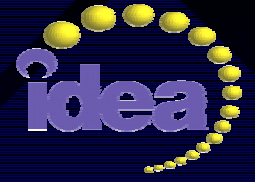
- IDEA Client
  - The End User View of an IDEA System
  - Features include, Indexing, Quality Control, Rescanning
- IDEA Server
  - Backend Processes for Configuration, Queue, and Database Management
  - Integration NT Security





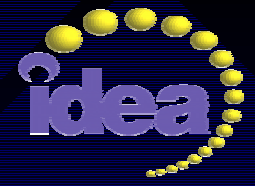
# IDEA Client

- Agent
  - Set of Engines (Object Processes) configured together to complete a specific processing task
- Indexing
  - Multi Level Structure
  - Pick Lists and Masked Data Types
- Rework
  - Insert or replace images from any Agent
  - Acquire Images From Scanner or File
- Visual Quality Control
  - Inspect the quality of any Image in a Batch



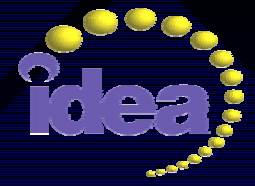
# IDEA Client, Agents

- Can be equated to the User Application
- Manages a Batch of Records and associated Objects
- Control Engine Flow and Processing
  - Single to Multiple Engines
- Controls Communication between Engines, UI Components, and System Services



# IDEA Client, Engines

- Perform the Actual Processes on any type Digital Object
- Processes only the Objects they Understand.
- Processes only one Object at a Time
- Example Engines: Scan, OCR, Clean-Up, Bar Code, Validation, Forms ID



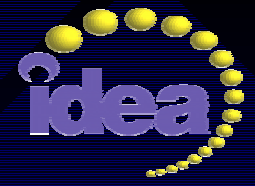
# IDEA Servers

- Configuration Server
  - User, Engine, Agent, Job, Index Structure, Flow, Security
- Queue Management Server
  - Automatic Batch Flow, Batch Management
- Database Server
  - Manage and Store Captured Indices
  - ODBC/SQL Compliant Data source



# System Administration

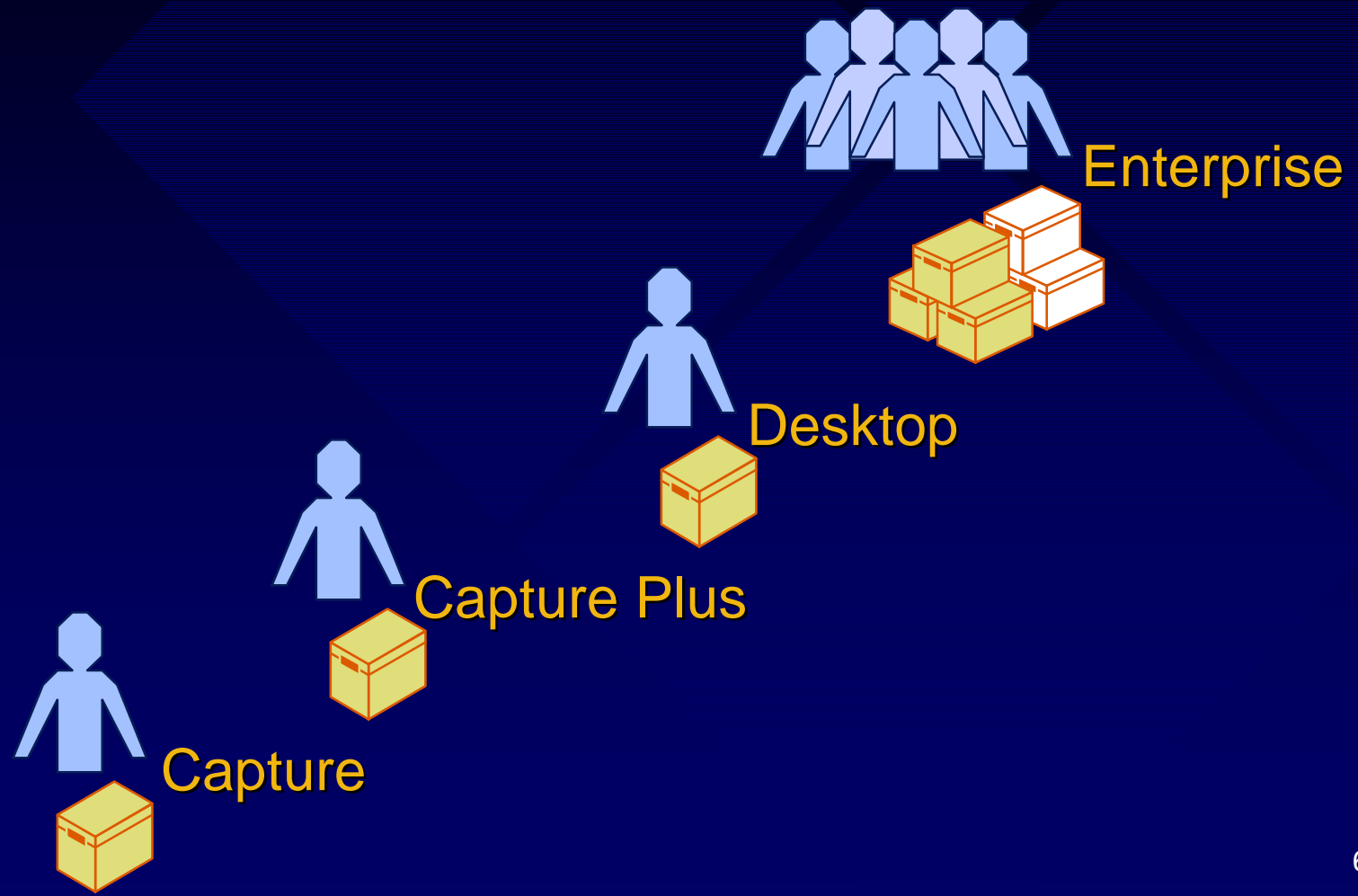
- Configure Engines
- Create and Configure Agents
- Create Jobs
  - Assign Agents and Define Index Structure, Agent Flow, and Security
- Assign Security
  - NT Integrated or IDEA provided
- Manage Batches
  - Prioritize, Move, Delete, Lock, etc.



# The IDEA Products

How is IDEA presented to the market?

# Suite of Scalable Products





# Single User Systems

- IDEA Capture
  - One Agent for Scanning, Image Enhancement, Barcode, and Indexing
  - Twain Scanning Only
  - ASCII Index Storage
- IDEA Capture Plus
  - Adds a Second Agent for Scripted Output
  - Provides Access to PowerScan Scanner Drivers
- IDEA Desktop
  - Adds OCR (Zone and Full Page), Printing, Scripting, Batch Control, Automatic Batch Flow and Control, Full Administration, and Desktop Database Storage
  - User Defined Agents





# Multi User Systems

- Enterprise

- Scale from 2 to a Virtually Unlimited number of Operators
- Includes All PowerScan Scanner Drivers
- Fully Automated Batch Flow
- Customization via Scripting or COM API
- Purchase Single Connections or Multi Connection Packs

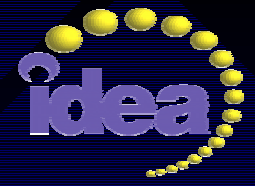
- Connection Packs

- Reduces Pricing based on Single User License
- Available Packs
  - 4 Connections
  - 8 Connections
  - 12 Connections
  - 25 Connections
  - 100 Connections



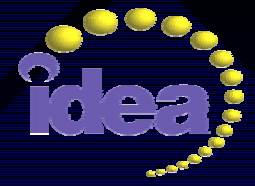
# The IDEA Architecture

How is IDEA built and how does it work?



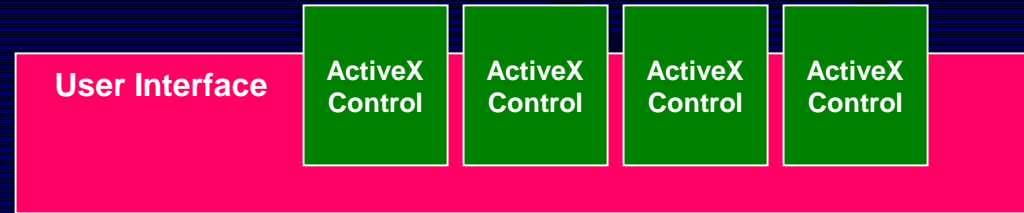
# High Level Architecture

- Snap-in Features and Capabilities
- Common Shareable Components
- Multi Tiered
- Database Independent through ODBC
- Common Programming Interface

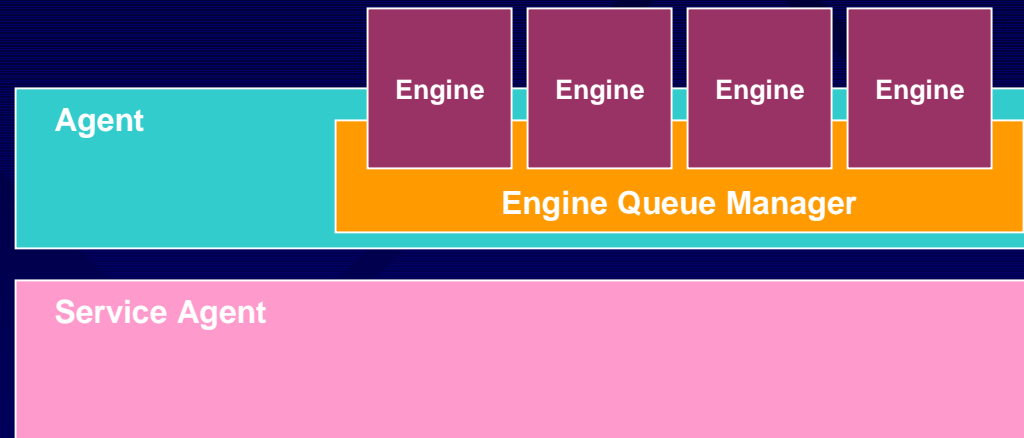


# System Diagram

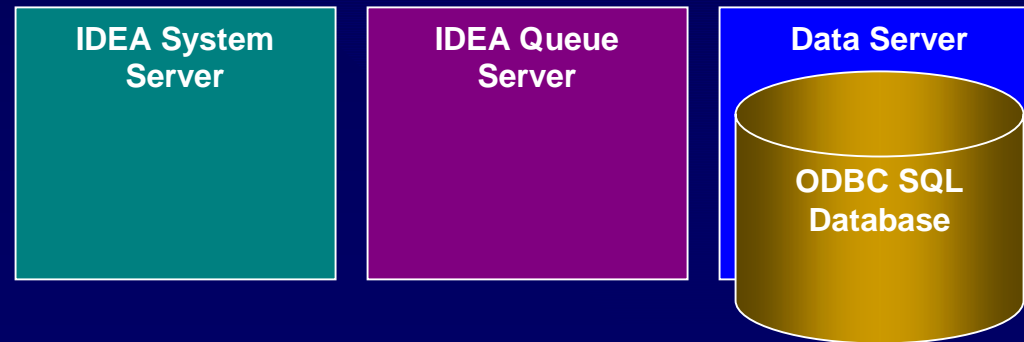
Presentation Layer



Application Layer



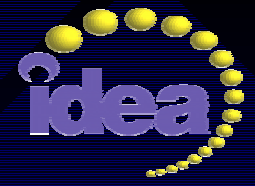
Data Layer





# Extending IDEA

How can I extend or customize my IDEA system?



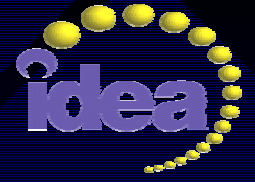
# Development and Integration

- Build Engines to Suit Specific Processing Needs
- Create Additional UI Controls for Specific User Interaction
- Create Engines that Communicate to other Server Side Process
- Attach IDEA Clients to Other Queue or Workflow Systems



# Provisions for Development

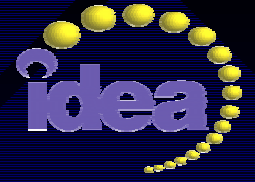
- Use Provided Engine Shell to Create COM based IDEA Engines
- Use Script Engine to Access Microsoft Scripting Tools
  - VBScript
  - Jscript
- Use IDEA Object Model to Embed IDEA Components into other Applications
- Use Provided Interfaces to Create Replacement or Additional User Interface Components



# Results

- The First System Designed to Provide Access to the Intergraded Digital Environment
- One Integrated Software Framework for Object Processing
- Snap-In Processing
- Standards Based Communication
- Multiple Processes Operational on Single Workstations
- Truly Scaleable and Extendable System





# Key Differences from StageWorks and PowerScan

- Non Proprietary Database Support
- Integrated Batch Building
- Used definable Agents (Stages)
- Integrated Scanning and Post Scan Processing
- Standard Scripting Language for Export and Custom Processing
- Rework Capabilities with in any Agent
- Indexing and other Functionality at Rework



# Questions