

# *PERCEPTION*

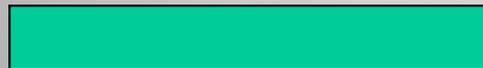
## **State-of-the-Art Software & Database Technologies**

***PERCEPTION*** is an evolution that has kept abreast of changes in software and hardware technologies for over thirty years.

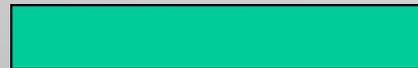
*The system was developed expressly for, and continues to be developed specifically for, shipyards.*

# SPAR's Technology Advances

1970's	1980's	1990's	2000's
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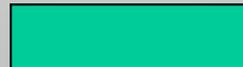


**Mainframes**

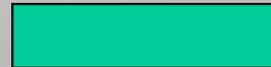


**Minicomputers**

**PC DOS LANS**



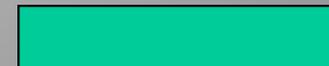
**“Windows”-Based Networks**



**“Windows” 3-Tiered Networks**



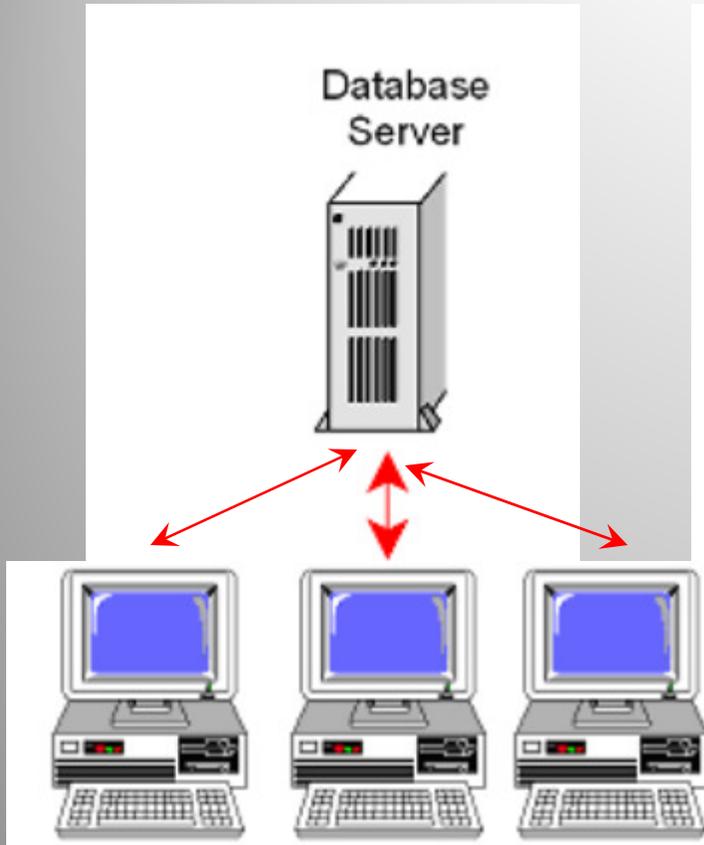
**Web-Based Products**



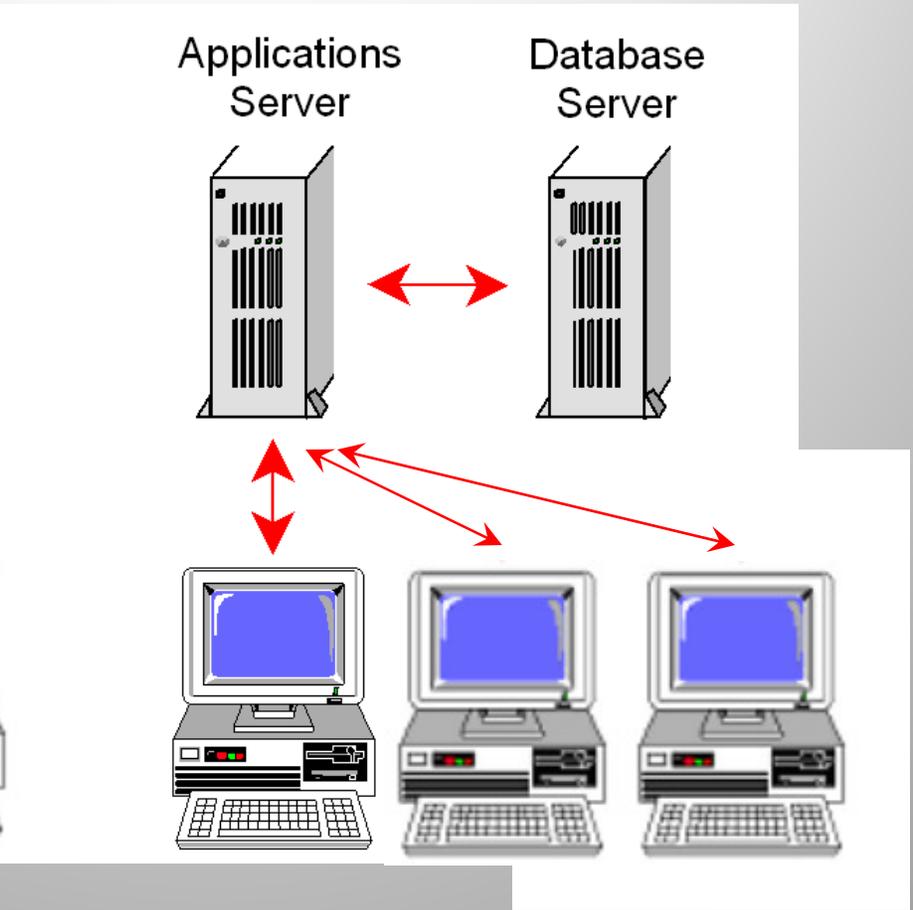
# Windows-Based PC Client/Server Application

*PERCEPTION* has been developed using state-of-the-art object-oriented graphical programming languages and database management systems.

The system operates as a 32-bit set of applications on Windows-based PC client/server networks. PC Clients may use Microsoft Windows XP or Vista.



**2-Tiered Network**



**3-Tiered Network**

# Systems Integration

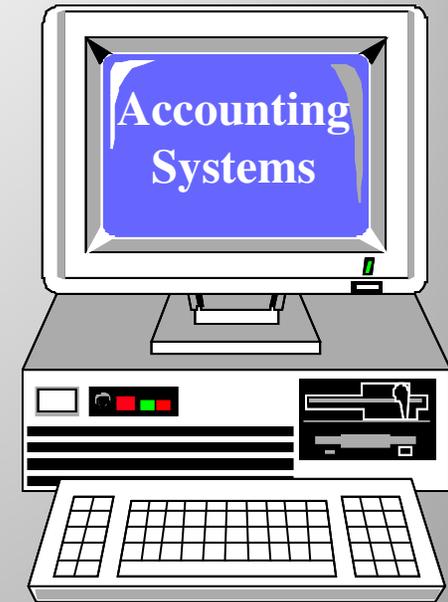
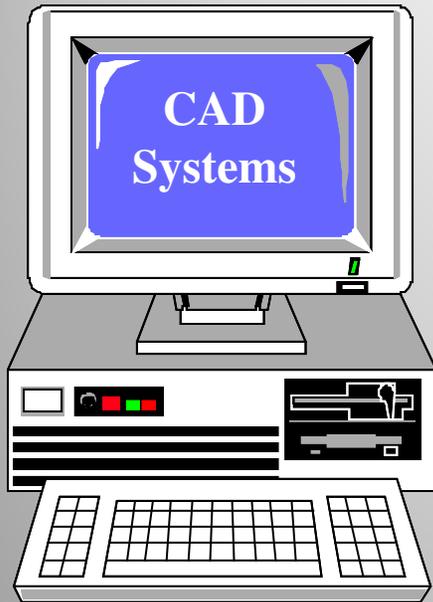
Systems integration eliminates costly duplication of information and ensures that it is both consistent, timely, and readily available to those persons who depend upon the information to do their work efficiently and effectively.

*PERCEPTION* supports systems integration with a variety of financial and accounting software and with several popular computer-aided design, engineering and manufacturing systems.

**Additional features provide importing and exporting of information from/to popular PC software products such as spreadsheets, word processors and other office applications.**

***PERCEPTION's* scheduling module is fully integrated with Microsoft *Project 2003* or higher.**

# System's Integration



PERCEPTION

Desktop  
& Internet  
Products

 Volo View Express

 Acrobat Assistant

 Internet Explorer

 Outlook Express

 Microsoft Access

 Microsoft Excel

 Microsoft FrontPage

 Microsoft Outlook

 Microsoft PowerPoint

 Microsoft Word

# Interfaces With Accounting Systems

**PERCEPTION**

## *System Transactions*

- Time Charges
- Purchases
- Stock Usage & Adjustments
- Customer Invoices
- Vendor Invoices

## Accounting Systems

Payroll

General Ledger

Accounts Payable

Accounts Receivable

# System's Integration With CAD

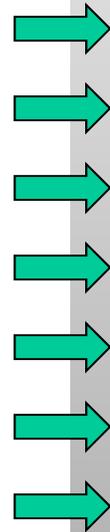
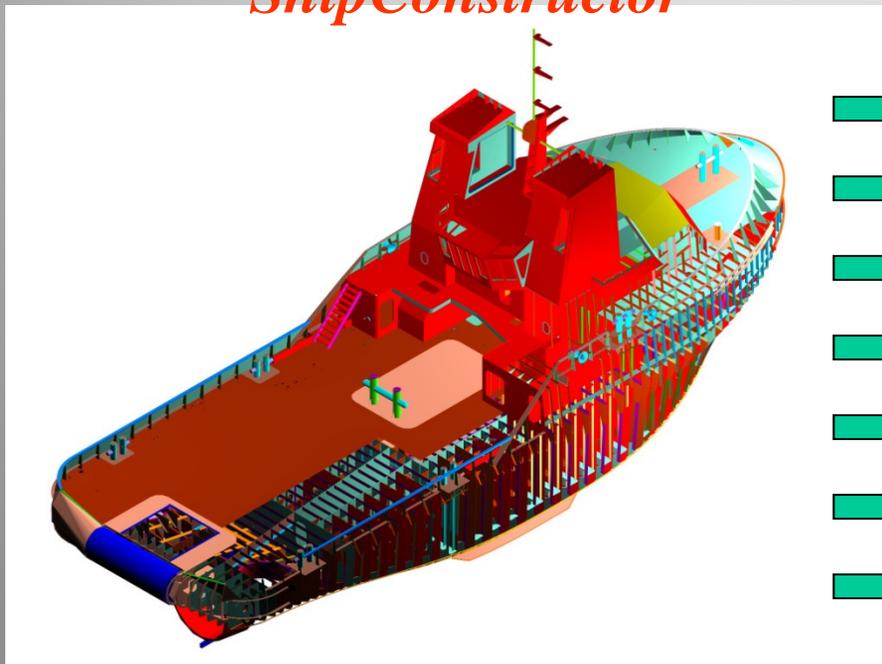
*PERCEPTION* has been linked to various Ship Design and Engineering systems:

- ARL's *ShipConstructor*
- The Navy's *ASSET* Ship Concept Model
- Proteus Engineering's *FlagShip* suite
- Intergraph's *GSCAD*
- Autodesk's *AutoCAD* general design system
- Rebis' *AutoPLANT* piping system design and engineering system
- Bentley System's *MicroStation*

# PERCEPTION®

## ERP with ShipConstructor

### ShipConstructor



### PERCEPTION



# Standard SQL Relational Database

*PERCEPTION* modules all use the most powerful open systems distributed databases (Sybase, Microsoft, & Oracle).

These databases have the highest levels of performance, reliability, and data and user security features, and they may be easily linked to other applications for additional benefits of systems integration.

# Scalability

As a client/server product, *PERCEPTION* is scaleable so that it can be used by both the small shipyard and by the largest.

The system is modular. The shipyard may use only those modules it chooses, or the system can be installed in phases to suit almost any implementation schedule desired.

# Report Writer

**The system offers a very large array of reports, from summary to detail and from many different points of view and user interest.**

**The system database supports Standard Query Language (SQL) reporting functions that allow customized reports to be created quickly and used either on an ad hoc basis or incorporated within the standard system.**

**The database also may be accessed with third party report writers, such as Crystal.**

**Finally, reports and data can be exported to spreadsheets and word processor systems for additional customizing by the user.**

# System Security

The *PERCEPTION* database provides comprehensive security features that restrict users from executing functions, seeing or modifying data allowed by their individual security level.

# Transaction Logging

The system provides automated transaction logging that allows details to be quickly and easily scanned and reported as necessary.

# User Friendly

*PERCEPTION* provides layers of user help facilities, from menu operations instructions to individual data field identification.

Being a Windows-based product, it uses standard Windows formats, protocols, and operations. This minimizes training requirements significantly.

The system provides many features for helping users catch data errors and omissions and for enabling users to access information quickly, easily and directly.

# Internet & World Wide Web Features

To safeguard our customers' investments, SPAR continues to invest heavily in its software products.

SPAR systems have been carefully designed to accommodate emerging changes in technology, including electronic transactions over the Internet.

*PERCEPTION* can operate for users either over standard client-server networks or over the Internet using such web-based products like Microsoft Terminal Services or Citrix.

# **SPAR Associates, Inc.**

## **Over 30 Years Providing**

- **Shipyard management software**
- **Software development services**
- **Training & maintenance support**
- **Planning & scheduling services**
- **Cost estimating services**
- **Management consulting**

# Over 35 Years Serving the Shipbuilding & Repair Industry

