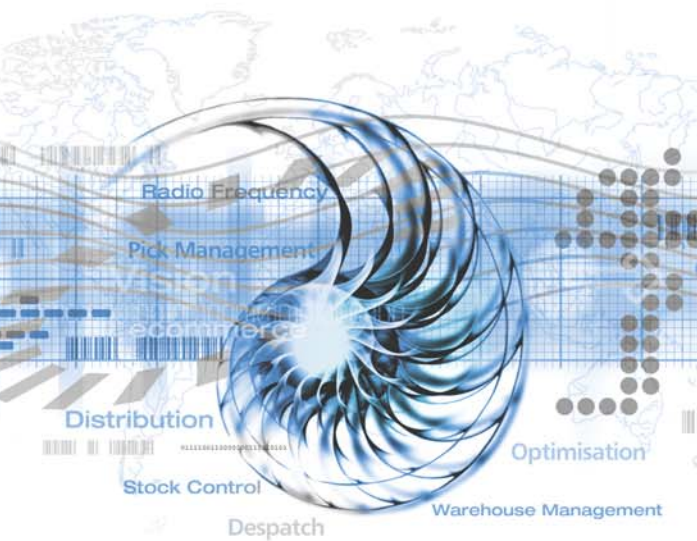




**WAREHOUSE MANAGEMENT
SOLUTIONS**



Radio Frequency

Pick Management

eCommerce

Distribution

Stock Control

Despatch

Optimisation

Warehouse Management

ARCHITECTURE & INTEGRATION

Proteus® Warehouse Management Solutions are designed and built for collaborative commerce, with powerful business process logic, simplicity of operation and integration capabilities as major objectives, thus providing our clients with compatible, robust, flexible, high performance solutions.

Proteus® Warehouse Management System can be integrated with existing ERP/Supply Chain solutions, using industry standard software integration tools, or with the Proteus® Supply Chain package. Multiple integration modes are provided so that it can easily be configured to meet specific client requirements.

Stand-alone mode enables the Proteus® Warehouse Management System to operate independently with data elements manually maintained or imported as required from a third party system.

Tightly coupled mode enables the Proteus® Warehouse Management System to transfer data automatically with local or remote third party systems, using real time secure messaging.

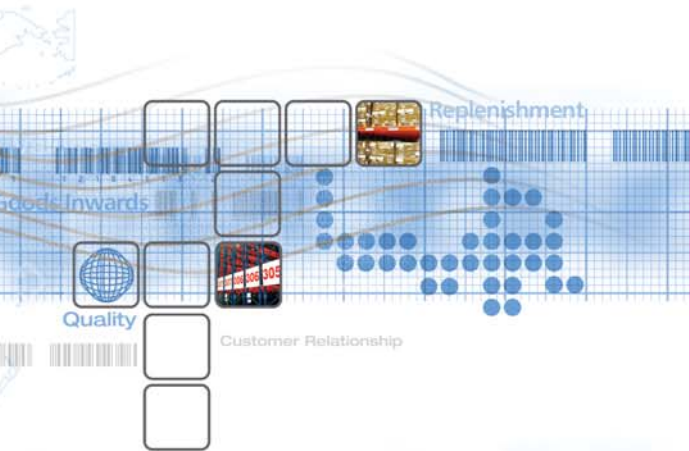
Integrated mode enables the Proteus® Warehouse Management System to use shared data by direct database access with the Proteus® Supply Chain Modules to provide a fully integrated system.

The Proteus® Integration Highway, using XML and Java messaging technology, provides seamless application integration, secure messaging, and full interoperability with other ERP or Supply Chain solutions.

For maximum flexibility, the Proteus® Warehouse Management System offers a range of operating options including bar code scanning using radio frequency, speech, RFID, or paper based. Multiple technologies can be combined in a single warehouse, if required.

Proteus® Warehouse Management System is developed using the Progress Open Edge® toolset that provides a thin client, high performance environment. Progress Open Edge® is the world's leading embedded business application database, with over 2 million users, supporting over 50,000 businesses worldwide, providing a proven track record of high performance and reliability.

Proteus® operates in a distributed n-tier environment on the hardware platforms and operating systems of all the leading computer vendors.



WAREHOUSE OPERATIONS & TASKS

Operational efficiency, high throughput and planning within a warehouse can only be achieved by simplifying the complex, and streamlining business processes. By shortening the order to despatch cycle, operating costs are minimised and service levels optimised.

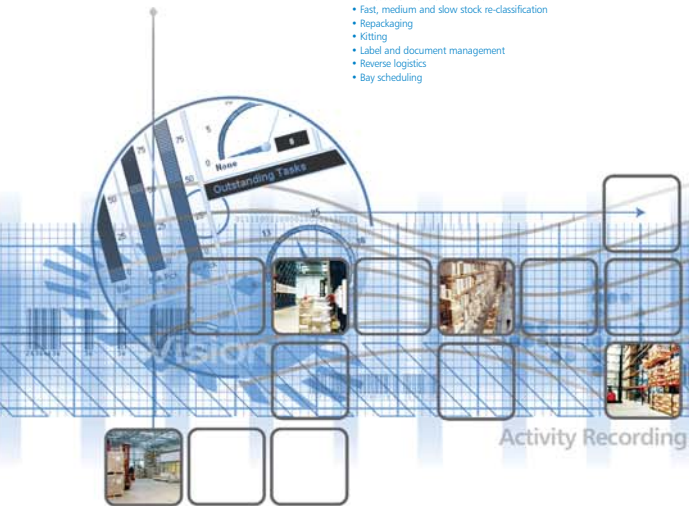
Every warehouse is unique in terms of its physical characteristics, product range and stocking units of measure. Each management team is faced with a different operating environment.

Advanced planning is essential to maintain a high level of service and it often starts with transportation and load plans. When warehouse space or resource is limited, it is vital to coordinate picking and put-away with delivery and despatch schedules.

Effective business software must support the business processes, guide management actions, provide comprehensive functionality, as well as being logical and straightforward to use.

The Proteus® Warehouse Management System includes the following operation and task options:

- Warehouse location mapping
- Operator and equipment capabilities
- Stock categorisation attributes
- Units of measure (UOM) matrix
- Flexible put-away rules
- Expected receipts booking
- Advanced Shipments Notices (ASN)
- Consignment management
- Quality control and quarantine
- Cross docking
- Distribution orders
- Immediate release orders
- Capacity planning
- Batch and serial number control
- Wave picking
- Task manager
- Dual cycling
- Stock rotation control
- Dynamic and manual replenishment
- Perpetual Inventory
- Palletisation control and audit
- Fast, medium and slow stock re-classification
- Repackaging
- Kitting
- Label and document management
- Reverse logistics
- Bay scheduling



WAREHOUSE PERFORMANCE

Warehouse operations can only remain effective and competitive over the long term by capitalising on performance knowledge. Too often in the past decisions have been based on intuitive knowledge, rather than measured performance. Key statistics covering pick rates, task rates, average movements, shift reports, operative and predictive reports, as well as exception alerts, help management maximise warehouse performance.

As pressure is applied to the supply chain, the demands for high levels of warehouse performance increase. Access to essential data, such as high and low spots in the warehouse and performance statistics empowers management to take the actions necessary to improve operations and optimise stock locations.

Business software must provide decision support information, historical performance and predictive reporting to enable management to be proactive and plan for the future.

The Proteus® Warehouse Management System includes the following performance management options:

- Pick rates
- Task rates
- Movement records
- Warehouse hotspots
- Average times
- Equipment usage
- Shift reports
- Location reports
- SmartAlerts™
- SmartMonitor™
- Delivery recording



WAREHOUSE PLANNING & MANAGEMENT

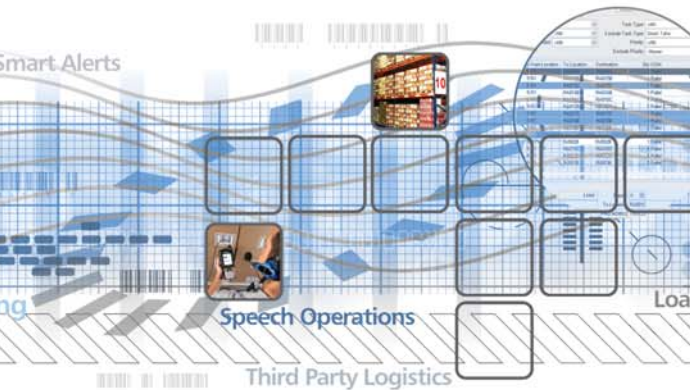
Professional supply chain managers and logistics solution providers are seeking the comprehensive depth of functionality provided by 'Best of Breed' warehouse solutions, combined with the flexibility to support growing and changing business needs.

As more pressure is applied to the supply chain, just in time replenishment becomes increasingly important and high levels of accuracy are paramount. The right items must arrive at the agreed time. Pick activity must be managed effectively to ensure goods are ready for despatch when the vehicle arrives. Replenishments must be put away promptly so the stock is available to fulfil new orders. The drive to reduce costs creates a demand from supply chain professionals to solutions providers for on going efficiency improvements.

Business software solutions must automatically manage the many individual tasks within the warehouse, and provide the ability to keep the potentially complex simple.

The Proteus® Warehouse Management System includes the following planning and management options:

- Warehouse operational planning
- Inter-warehouse transfers (IWT)
- Back to back inter-warehouse transfers
- Radio frequency task management
- Speech task management
- Stock ownership
- Analysis groups
- Item attributes
- Charging matrix
- Delivery requirements plan
- Event handling
- Product movement tracking
- Despatch management
- Proof of delivery (POD)
- Stock reconciliation
- Stock take verification
- Directed stock take
- Perpetual inventory (PI)
- Task history and auditing
- Capacity planning
- Labour planning
- Carrier integration
- Document manager



WAREHOUSE REPORTING

The essence of any quality Warehouse Management Solution is its ability to provide valid and accurate management information easily, reliably and immediately to each authorised member of staff.

Proteus® Warehouse Management System is designed to provide a wide range of useful enquiries and reports based on specific data analysis. These standard reports are easy to produce. The Report Generator can be utilised and tailored by each user to obtain precise details and the layout required.

In addition, Proteus® provides end user reporting tools that allows the extraction of data using ODBC drivers. A series of extract programs are also available, to transfer key data into a data warehouse, or business intelligence software for sophisticated user defined business reports.

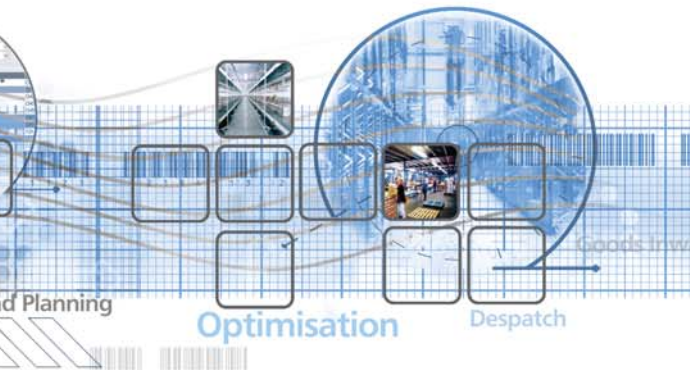
Business software solutions need to facilitate the immediate and easy access to key knowledge that enables the warehouse team to act or respond without delay rather than waiting for a report to be written for them.

Whilst the extrapolation of historical data is essential to future planning, equally important is the ability of the system to respond immediately to exceptions that occur. Proteus® SmartAlert™ will immediately notify designated personnel, by email or SMS of user selected events.

For example if an unexpected stock-out occurs due to damaged stock, or a scheduled delivery fails to arrive, a SmartAlert™ will be generated, giving the warehouse manager complete control.

The Proteus® Warehouse Management System includes the following reporting options:

- Report generator
- Audit reports
- Performance analysis
- Report builder
- E-Business report delivery
- ODBC interfaces
- SmartAlerts™
- SmartMonitor™
- Dashboard activity monitor
- Activity targets and comparisons



WAREHOUSE EFFICIENCY

The efficiency of the warehouse operation is essential to the success of any supply chain business, and its ability to consistently deliver high levels of service.

Varying operational requirements mean that each function within the warehouse may need to be manual, assisted, or fully directed. Assisted or fully directed modes normally use radio frequency or speech terminals for communication to the warehouse operative, and bar code scanning for high data capture accuracy.

The fully directed mode creates a highly efficient paperless environment, with the Proteus® Warehouse Management System managing all aspects of the operation.

Business software solutions must be able to operate across multiple warehouses or across the whole supply chain, in many different modes and with varying complexities.

The Proteus® Warehouse Management Solution assists distribution and logistics organisations to achieve improvements in operational efficiency, staff productivity, stock accuracy and customer service.

Operational effectiveness is achieved through

- Optimising travel time
- Location management
- Minimal paperwork
- Improved scheduling
- Receipts immediately available for pick
- Automatic replenishments
- Direction to best location
- Fulfilment from multiple distribution centres (order splitting)
- Improved stock turn

Staff productivity is enhanced through

- Staff allocation based on capabilities
- Damages and mis-picks traced
- Fast and accurate task confirmations
- Transaction date and time stamping for traceability

Stock accuracy is improved through

- Reductions in mis-picks and returns
- Stock take procedures automated and simplified
- Obsolete stock minimised
- Out of stock situations reduced
- Full pallet, carton and item traceability

Customer service is enhanced through

- Improved responsiveness
- Improved data/resource visibility
- State of the art systems
- Dynamic reporting
- Remote data visibility
- Internet options



CENTRES OF EXCELLENCE

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Consignment Receiving

Warehouse Mapping

Supply Chain Management